

DEKALB CLEAN ENERGY TRANSPORTATION TRANSITION PLAN











TABLE OF CONTENTS

Executive Summary
The Plan at a Glance
Introduction
A Way Forward
DeKalb County Today
Utility Landscape (provided by Greenlink)
Tasks 1 & 2 - Recommendations On Addressing DeKalb's Clean Energy Goals and Energy-Efficient Methods To Meet The County's Energy Needs
Task 3: Analysis of DeKalb County's Municipal Solar Potential
Task 4: Recommendations on Increasing Equity and Addressing Energy Burden Within The County
Task 5: Public Stakeholder Inclusion for an Open, Inclusive, and Transparent Planning Process
Task 6: Assistance In Development of a Clean Electricity and Vehicle Procurement Strategy
Task 7: Creation, Education, and Engagement of a DeKalb Climate Task Force
Task 8: Development of Greenhouse Gas Inventory for County Government Facilities and Fleet, and Community County-Wide
Task 9: Development of Clear Benchmarks and Milestones For The County During The Transition To 100% Clean and Renewable Energy and Transportation
Task 10: Development of a Clear Process Whereby The County Commission Will Receive Updates on Progress and Take Steps To Hit Benchmarks
Clean Energy Actions
Index
Appendix

TEAM DESCRIPTIONS



Southface Institute

Founded in 1978, Southface has long been known for its role as a trusted convener, especially in industry engagement in sustainability at the intersection of the built environment. Southface's deep technical expertise and practitioner experience with high-performance green buildings in both residential and commercial new construction, as well as in operations and maintenance of existing buildings, makes us wellqualified for this work. We have a proven track record in clean energy and sustainability planning across Southface. Our research and advocacy efforts with state housing finance agencies, including but not limited to the Georgia Department of Community Affairs and the Alabama Department of Economic and Community Affairs, have provided us with unique insight into the impact of state energy and construction codes on local green building as well as the hard and soft costs of high-performance green building in relation to multifamily affordable housing in specific - a familiar and critically important topic to us. Further, Southface provides technical consulting services across a variety of certification programs, including EarthCraft, ENERGY STAR®, Enterprise Green Communities, BIT Building, and LEED. This boots-on-theground experience positions us to learn from and influence the evolving marketplace dynamics in and around clean energy.



Energetics

Energetics (a division of VSE Corporation), founded in 1979, is a full-service energy and management consulting firm that brings nationally recognized expertise in both climate vulnerability and resilience planning in transportation systems and critical infrastructure. Our staff includes experts in climate risk and resilience, greenhouse gas accounting, transportation systems, and critical infrastructure.



IB Environmental

IB Environmental (ibE) is an LSBE founded five years ago. CEO and founder Stacey Berahzer has been in the utility affordability business since 2004. Most of her nationally recognized work has focused on water affordability; however, the company has assembled experts in energy, data, and GIS to tackle utility affordability and environmental protection more broadly. IB Environmental works with organizations to address equity issues for limited-income utility customers, improve watershed management, and encourage climate change mitigation by making green practices and jobs more economically viable.

Cherry Street Energy

Cherry Street Energy

Cherry Street Energy is a nextgeneration renewable power company built to provide world-class solar programs to iconic companies, municipalities, and institutions without the upfront costs and complexities typically associated with procuring renewable energy infrastructure. We design, build, own, operate, maintain, and improve renewable power infrastructure. We have extensive experience helping our institutional customers understand their "behind the meter" solar potential, and in building those distributed generation portfolios for our customers including the City of Atlanta, Fulton County, Macon-Bibb County, and Emory University.

Southface, Energetics, IB Environmental, Cherry Street Energy, and Clean Cities Georgia served in different capacities on the Plan. The consultant team would like to thank all key partners who were essential in completing this project.

Key Partners

DeKalb County Board of Commissioners

DeKalb County's Planning and Sustainability Department

DeKalb County Super District 6 Office

Exchange Recreation Center

Hairston Crossing Library

Scott Candler Library



Clean Cities Georgia

Clean Cities Georgia (CC-GA) is a 501(c)3 nonprofit organization promoting healthful air through the reduction of petroleum consumption in the transportation sector by advancing the use of alternative fuels and vehicles/equipment, idle reduction strategies and technologies, hybrid electric and electric vehicles, and fuel economy improvement. CC-GA was founded in 1993 as the first of nearly 100 U.S. Department of Energy (DOE) sponsored coalitions across the U.S. that help meet the objectives of improving air quality, developing regional economic opportunities, and reducing the use of petroleum fuels in transportation.

EXECUTIVE SUMMARY

As a prosperous and growing community, DeKalb County takes its role seriously in reducing the impact of emissions related to its energy consumption. DeKalb recognizes that it must go beyond the minimum efforts called for by the Intergovernmental Panel on Climate Change in its very low greenhouse gas emissions scenario to help account for other communities' inability to act. As such, DeKalb County is planning to eliminate its government and county carbon emissions from electricity by 2035, with all remaining county uses, including transportation, eliminated by 2050.

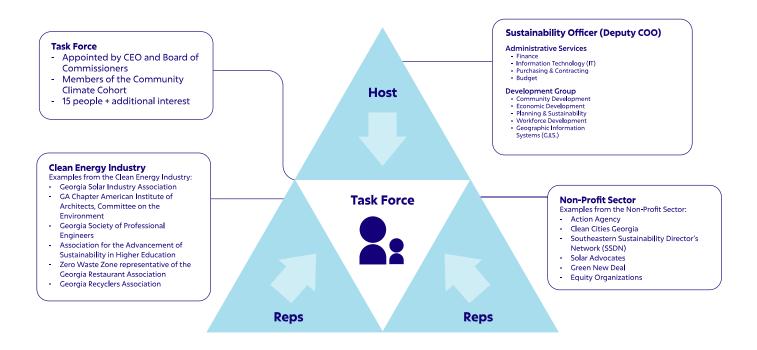
This document, DeKalb's Clean Energy Transportation Transition Plan (Plan), is intended to guide DeKalb's energy transition and address the County's contributions to the climate crisis while improving living conditions and addressing equity issues. This Plan describes a path to a clean energy future while facing an aggressive goal and conditions outside DeKalb's control.

DeKalb's Clean Energy Transportation Transition Plan was developed with deep-level engagement from DeKalb County's residents through various forms of community engagement. Through a series of inperson community events focusing on sustainability myth-busting, weatherization improvements, energy bill analysis, and regulatory analysis, the residents of DeKalb County engaged at all levels of the Plan. These events served as opportunities to educate community members about the Plan and other areas where DeKalb County is taking action.

Ascertained from the creation of the Plan, The consultant team identified five Pillars of Progress that serve as core values for DeKalb County. These pillars are the main drivers for change and should be top of mind when implementing the recommended deliverables from the Plan. The Pillars of Progress are listed below and are discussed in greater detail later in the Plan.

- 1. Invest in Community
- 2. Sustain Sustainability
- 3. Manage Energy
- 4. Lead by Example
- 5. Data, data, data

THE PLAN AT A



DeKalb's Clean Energy Transportation Transition Plan intends to serve as the initial roadmap for its journey away from fossil fuels. DeKalb County recognizes that a transition away from fossil fuels will ultimately impact its county residents in many ways. Prioritizing residents, Southface Institute, Energetics, IB Environmental, Cherry Street Energy, and Clean Cities Georgia helped provide analytical and community engagement expertise.

Community engagement played a critical role in the development of the Pillars of Progress. Not only did community engagement serve as an educational opportunity to learn about sustainability at all levels, but it was also an opportunity for the consultant team to learn the needs of the community.

efforts to improve the lives of its residents through economic development, accessible transportation, and diversified housing, yet there is still much work to be done. A fundamental goal for the County is to address historical and current inequities while building toward a clean and renewable energy future. During the formulation of the Plan, the County and the consultant team landed on these five Pillars of Progress that serve as foundational pieces when executing the Plan.

Ascertained from the creation of the Plan, The consultant team identified five Pillars of Progress that serve as core values for DeKalb County through the newly proposed Sustainability Office. Central to progress on Clean Energy in peer municipalities are their Sustainability

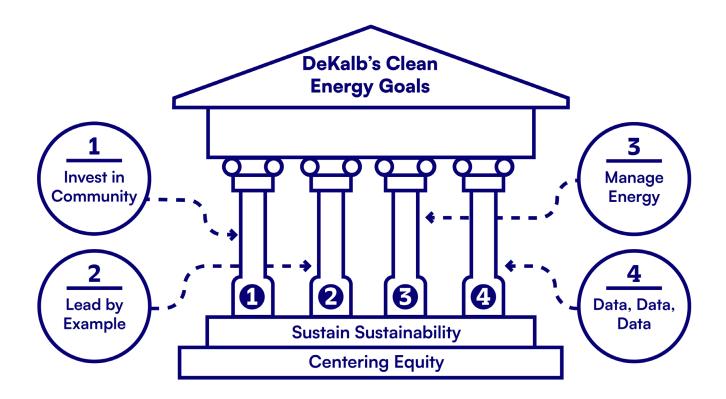
Offices. Locating the Sustainability Office in DeKalb's unique government structure is key. Lessons on a Sustainability Office from other municipalities include:

- Budgetary influence across the organization
- Close enough for elected executives to implement mandates
- Distant enough from elected executives to continue work at administration changes
- Sufficient staff for implementation
- Connection to the community for dissemination of programs

The pillars are the main drivers for change and provide structure when implementing the recommended deliverables from the Plan. The Pillars of Progress are listed below and are discussed in greater detail later in the Plan.

To metaphorically represent these pillars in the DeKalb Community, the consultant team stylized the portico from DeKalb's historic neoclassical courthouse. Foundational elements are noted on the base steps. Key action items are represented on the columns holding up the lofty Clean Energy Goals in the pediment. This stylization serves as a mnemonic device for the Pillars and Plan.

- 1. Invest in Community
- 2. Sustain Sustainability
- 3. Manage Energy
- 4. Lead by Example
- 5. Data, data, data



INTRODUCTION

DeKalb County, founded in 1822, became the 56th county in Georgia. DeKalb County was known for its thriving agriculture, dairy farming, and granite quarrying industries.¹ DeKalb's diverse community set the County up for success. Today, it is no coincidence that the City of Clarkston, located in DeKalb County, is the most diverse city per square mile in America.² Backed by its diverse history, today, DeKalb County's thriving communities, business districts, educational institutions. abundant green spaces, and more make DeKalb a county like no other.

That goal is at the core of the Plan and guides the County's efforts to combat the impacts of climate change. Community engagement revealed that many DeKalb residents are currently feeling the effects of climate change. The Southeast is at high risk of more frequent heatwaves and rising average temperatures. These increased temperatures are expected to exacerbate respiratory illnesses like asthma.³ Children especially are negatively affected by asthma, which is associated with increased emergency room visits and missed school days. Like many urban areas, DeKalb is susceptible to the heat island effect. This phenomenon occurs when natural land cover is displaced by buildings, asphalt, and other impervious features, resulting in increased rates of heat absorption and retention. Over time, this effect results in increased reliance on air-conditioning and, therefore,

increased energy consumption, air pollution, and heat-related diseases, such as heat exhaustion and heat stroke, and mortality rates. ^{4,5} The need for more air-conditioning to keep people cool during summer months increases energy bills. Residents who do not have sufficient access to air conditioning may need access to cooling centers to avoid extreme illness or death.

Moreover, many households in DeKalb County experience an energy burden. Energy burden is quantified as the percentage of household income spent on electricity and/or natural gas bills caused by excessive energy usage, inefficient appliances, and/or poor housing stock.⁶ For families already facing financial struggles, higher energy bills that accompany increased temperatures can cause higher levels of stress and health issues. The Intergovernmental Panel on Climate Change (IPCC) states in its latest report that current plans to address climate change are not enough to limit warming to 1.5°C above pre-industrial levels - a threshold scientists believe is necessary to avoid more catastrophic events.8 DeKalb County has pledged to cut carbon emissions, serving as an example to other cities around the United States. Committing to a renewable energy transition will reduce climate emissions, improve public health, support jobs and economic development, and help the County achieve clean energy goals.

A WAY FORWARD

On May 23rd, 2022, DeKalb County issued a Request For Proposal (RFP) for the Clean Energy Transportation Transition Plan.⁹ This Plan is intended to quide DeKalb's energy transition and address the County's contributions to the climate crisis while improving living conditions. DeKalb will shift energy consumption away from fossil fuels in an economically sustainable and equitable way, ensuring that residents, business owners, worshippers, visitors, commuters, and all DeKalb County residents enjoy the benefits of this transition. DeKalb County has decided to break up the goal into targeted, intermediate timelines to tackle the ambitious goal of shifting toward 100 percent clean and renewable energy:

- One Hundred Percent (100%) renewable energy for County electricity use by 2035, including at least 50% renewable energy by 2025
- One Hundred Percent (100%) renewable energy for DeKalb County community-wide electricity supply by 2045
- One Hundred Percent (100%) renewable energy in all energy-use sectors, including transportation, by 2050



DEKALB COUNTY ISSUED A REQUEST FOR PROPOSAL (RFP) FOR THE CLEAN ENERGY TRANSPORTATION TRANSITION PLAN. THIS PLAN IS INTENDED TO GUIDE DEKALB'S ENERGY TRANSITION AND ADDRESS THE COUNTY'S CONTRIBUTIONS TO THE CLIMATE CRISIS WHILE IMPROVING LIVING CONDITIONS.

2035

100% RENEWABLE ENERGY FOR COUNTY ELECTRICITY USE BY 2035, INCLUDING AT LEAST 50% RENEWABLE ENERGY BY 2025

2045

100% RENEWABLE ENERGY FOR DEKALB COUNTY COMMUNITY-WIDE ELECTRICITY SUPPLY BY 2045

2050

100% RENEWABLE ENERGY IN ALL ENERGY-USE SECTORS, INCLUDING TRANSPORTATION BY 2050

SUSTAINABILITY OFFICE PILLARS OF PROGRESS

Invest in Community

The first pillar takes an equity perspective and focuses on helping residents reduce their energy burden. Structured from Task 5's community engagement events, this pillar was developed to empower residents at the individual, community, and state levels.

In order to empower DeKalb County residents, DeKalb needs to utilize its fiscal station to foster investments that will provide the upfront capital, which will be repaid through energy savings, to make energy investments affordable to the residents of DeKalb County.

Below are examples of community investment programs that DeKalb County can partake in to provide a more affordable energy improvement pathway for its residents:

- EV Charging
- Weatherization
- PACE
- PAYS™
- Community Solar
- Solarize
 - PPA
 - Purchases
- Energy Code Optimization

Sustain Sustainability

In an effort to ensure that the Plan will continue to serve as a guide for

DeKalb County's energy transition, a new position has been proposed within the Chief Operating Officer's (COO) office. A Sustainability Officer (Deputy COO) will lead the implementation process of the Plan. The main role of the Sustainability Officer will be to future-proof the Plan so that real and effective energy investments can be made. Lessons from other municipalities have led to the recommendation of a full-time. well-funded position be established, with the right individual bridging the gap between the community and the county.

Manage Energy

Also, an Energy Analyst position responsible for tracking and managing DeKalb County's energy use is proposed. Similarly, with experience with other municipalities, this position will more than pay for itself in cost savings. Additional savings can be reinvested, making the Energy Analyst a driver of clean energy investment.

Lead by Example

DeKalb County's energy commitments to clean and renewable energy investments throughout government operations set an example for the continued investment for the County's residents. Furthermore, this becomes a resource to the community for small businesses and residents to make clean energy investments.

Data, Data, Data

The Consultant team found that gathering, securing, tracking, managing, and using data is a massive need for DeKalb County.

In an effort to track data, the County can choose from the many data-

tracking tool options (ex. ICLEI and Energy Star Portfolio Manager) that will lead to more accurate and measurable data. Regardless of the tool, regular tracking will generate the insight needed for effective decisions.

Clean and renewable energy has the potential to lower energy bills, improve public health, and create more local, high-paying jobs. However, it is essential that this transition equitably benefits all members of the community. As DeKalb County embarks on transitioning its energy supply to clean and renewable energy, it is critical to understand the community's demographic makeup so that all voices are considered.



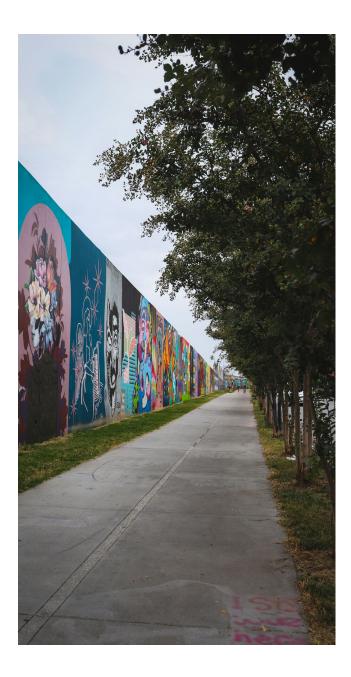
DEKALB COUNTY TODAY

DeKalb County is home to roughly 765,000 diverse residents across different age groups, education levels, racial demographics, and professions. Approximately 47% of households in DeKalb are higher-income families with a college education. However, stark disparities exist across the County.

Within DeKalb County, a number of households are experiencing an energy burden. Energy burden can be caused by various factors, including poor construction, outdated appliances, deteriorating housing, and/or excessive energy consumption.¹¹ One reason these households may have higher energy burdens is that they often face financial barriers to adopting more capital-intensive, energysaving equipment and appliances. HVAC, water heating equipment, and appliances such as refrigerators and dryers are the most energyintensive to use and costly to upgrade. High energy burdens are particularly problematic for renters, lower-income households, and communities of color who still suffer the effects of systemically racist housing policies. 12,13

This Plan outlines how DeKalb County can move its energy supply to clean and renewable resources efficiently and equitably. Clean energy technologies, such as energy efficiency and rooftop solar, are more cost-effective than ever and improve the health of those living

in and around the community.¹⁴ Investments in energy efficiency can support individuals living in inefficient housing by reducing their energy bills and can improve economic mobility by freeing up financial resources. 15 Understanding these technologies and their associated costs and benefits can guide the County on how to pay for energy upgrades. DeKalb County residents can benefit from clean energy investments made possible through programs, subsidies, and other governmental assistance programs.



UTILITY LANDSCAPE

There are political limitations to the actions that DeKalb can feasibly take to transition to 100% clean and renewable energy. Understanding those limitations is a crucial component of this Plan. Stakeholders must be aware of what is in their control so they can make the most feasible, efficient, and impactful contributions to their community.

DeKalb residents have little choice in their energy providers. While a handful of natural gas utilities operate within the county, including Atlanta Gas Light, Gas South, and SCANA Energy, Georgia Power is the electric utility serving the majority of households and businesses operating in DeKalb. Georgia Power, a subsidiary of Southern Company, is a vertically integrated monopoly electric utility, meaning that the company owns and operates most of the power plants, power lines, and the related infrastructure that produce and deliver electricity to the DeKalb community. This type of market structure means that the vast majority of DeKalb residents and businesses do not have the option to buy retail electricity services from any other company.

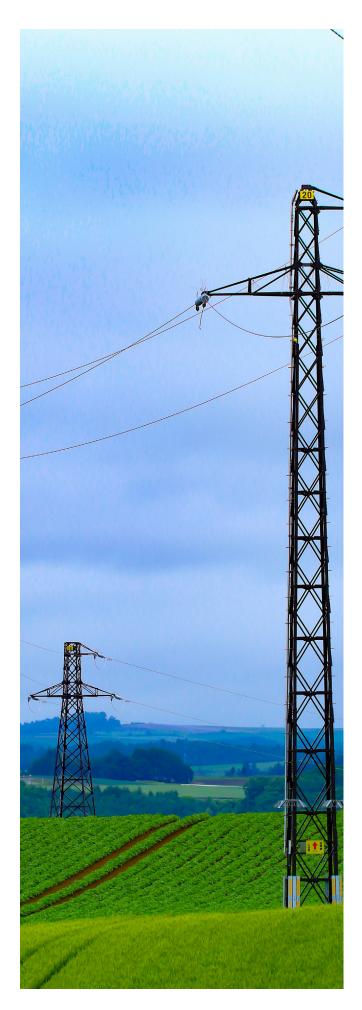
The decisions of Georgia Power and its regulator, the Georgia Public Service Commission (PSC), heavily influence DeKalb's clean energy planning. The Company creates integrated resource plans (IRPs) over a three-year cycle, which are reviewed in hearings before the PSC.

IRPs determine the mix of resources the utility uses to produce electricity. For example, the "mix of resources" may determine how much capacity from coal-fired power plants and renewable energy Georgia Power will need to meet their projected demand.

IRPs also influence how much the utility invests in energy efficiency programs and to which customers these programs are targeted. Rate cases are separate from the IRP process but set the price (cents per kilowatt hour) DeKalb residents and businesses pay for power. Rate structures discussed in these proceedings include the price rooftop solar owners are paid for energy exported back to the Company's grid. By choosing to supply the grid with fossil-fueled resources, Georgia Power and the PSC ultimately determine the carbon intensity of the electricity that DeKalb consumes. Georgia Power currently discourages customers from installing solar on their rooftops by charging additional fees for clean rooftop solar. 16 Fortunately, DeKalb is actively intervening in integrated resource planning through public input hearings and partnership opportunities and will continue to do so in the comina vears. Formal interventions have included testifying against Georgia Power's decision to continue reliance on fossil fuels and advocating for improvements in the Company's energy efficiency programs. Informal intervention has included participating in public engagement sessions and submitting public comments to members of the PSC. These intervening activities help show Georgia Power staff and members of the PSC the wants and needs of the Company's customers

and can influence their future decisions. Ultimately, since the utility and its regulator will determine the greenhouse gas content of the County's electricity, DeKalb must work indirectly to decarbonize electricity. In addition to intervening with the PSC, DeKalb can reduce community electricity consumption by encouraging rooftop solar and energy efficiency.

The County's relationship with Georgia Power also includes the collection of municipal franchise fees, which could potentially be a financial tool in the County's transition to clean and renewable energy. Municipal franchise fees are a form of tax paid by customers across Georgia Power's service territory. These franchise fees are meant to cover the cost of Georgia Power's use of public space (also known as public "rightof-way") for energy infrastructure. 17 Franchise fees are collected across Georgia Power's service territory and distributed to Georgia cities and counties proportional to their population. This funding can be used to support municipal and community clean energy projects. In investing in its community and its energy transition, DeKalb is leading the way for a cleaner, less burdensome energy future.¹⁸



TASKS 1& 2

RECOMMENDATIONS ON ADDRESSING DEKALB'S CLEAN ENERGY GOALS AND ENERGY-EFFICIENT METHODS TO MEET THE COUNTY'S ENERGY NEEDS

As DeKalb County looks to make climate-smart commitments, defining clear clean energy goals is crucial for effective implementation. Understanding the history and uniqueness of DeKalb, curating these goals must be tailored specifically to the County and the residents of DeKalb. Taking all of this into consideration, Southface and Energetics have completed an analysis of the County's Clean Energy Goals. The analysis serves as a realistic approach to assessing the attainability of these clean energy commitments. Further, this analysis combines the results of Task 1 and Task 2 as Energy Efficiency is a central approach to achieving the County Goals.

When building out clean energy pathways, energy efficiency improvements are often necessary. Usually, these upgrades are the most cost-competitive and yield the highest energy savings. For DeKalb County, conducting a thorough analysis of energy

efficiency improvements on a county-wide scale will lead to energy savings that will last decades. A true clean energy portfolio is not complete without energy efficiency improvements. Not only will these suggested improvements benefit the county infrastructure, but the residents of DeKalb County will also be able to make energy efficiency improvements. Thanks to the historic Inflation Reduction Act (IRA), these improvements can be made in much more affordable ways, making energy efficiency upgrades an equitable clean energy investment. 19 The below details clean energy and energy efficiency pathways for the County to consider. A summary of more detailed approaches can be found in the DeKalb Climate Action Scenarios, located in the appendix.

The priorities for meeting DeKalb County's Clean Energy Goals are summarized in three areas of focus: reducing energy consumption, creating and implementing a clean energy plan, and strengthening the energy transition with a suite of smaller - yet equally strong - supporting measures. Within each listed priority, a sample of key measures provides an example and direction to addressing that priority; however, the full suite of recommendations (as well as implementation considerations, cost estimates, possible barriers, etc.) can be found in the full scenarios.

By first reducing energy consumption, the County can invest in low-cost measures to improve efficiency and reduce energy costs while evaluating an implementation plan for renewable energy and power generation. Additionally, reducing energy consumption means that less renewable energy will need

to be generated/purchased.

Since there is no pathway to achieving the County's Clean Energy Goals without clean energy, the second priority should be renewable power generation. While implementation of renewable energy will happen later, the assessment of the County's onsite solar generation potential contained in this report should be expanded to include additional resources and investments budgeted to begin immediately for the best sites. Additionally, the County should solicit quotes for power purchase agreements (PPA) and associated infrastructure, then levy a cost/benefit analysis of onsite generation versus PPA (and what mix of the two works to meet the County's needs). Once an assessment is complete, the County should implement the transition as soon as possible.

Finally, a suite of supplementary measures is recommended to complete the County's transition. The individual actions will have a small impact when viewed independently, but together, they will greatly contribute to achieving the County's goals. Each action will be implemented on different timeframes and with different stakeholders.

PRIORITY I: REDUCE ENERGY CONSUMPTION

Reducing the need for energy is a crucial first step. By reducing energy burdens and consumption, the County will quickly make progress toward its Clean Energy Goals. As outlined in the scenarios, reducing energy consumption involves improving building efficiency and electrification, increasing tree cover and greenery to reduce the Urban

Heat Island Effect and promote natural cooling, and reducing vehicle fuel consumption.

Key Measures:

- Optimize airport operational efficiency, including aircraft cooling and turnaround time.
- Building Efficiency Improvements, Electrification, and efficiency standard certification for County buildings.
- Fleet efficiency optimization, downsizing, and conversion to EV.
- Increased tree canopy and green spaces

PRIORITY II: CREATE AND IMPLEMENT A RENEWABLE ENERGY PLAN

DeKalb County's pathway to a clean energy transition involves alternative clean energy sourcing. This can include solar, wind, and offshore power, among others. Renewable electricity can be generated onsite, through the development of clean energy capabilities (such as solar panel installation), or purchased through power purchase agreements (PPAs). Per the scenarios, it is recommended that the County begin with PPAs while finding optimal locations for solar panel sites on County property.

Key Measures:

- Create a renewable energy plan, considering possible sites and generation methods (i.e. solar, wind, hydroelectric, etc.), along with cost estimates, and an implementation timeline.
- Solicit quotes from providers for Power Purchase Agreements (PPA), including

considerations for projected population growth and future climate hazard impact on electricity demand.

PRIORITY III: SUPPLEMENTARY MEASURES

A clean energy plan and efficiency optimization will achieve the majority of emissions reductions needed to meet DeKalb County's Clean Energy Goals. The remaining bulk of emissions reductions will come from a concerted effort to implement smaller supplementary measures, such as waste & water capital improvements, information campaigns, recycling technology improvements, and resilience measures. While each individual action's impact will be small, the total impact of all actions will pull DeKalb County across the finish line.

Key Measures (Examples)*:

- Organic waste collection campaign, including collection plan and information/ education
- Mitigate, capture, and utilize fugitive landfill gas emissions
- Flood protection and drainage improvements
- Planting of resilient native plant species in County green spaces
- Capital improvements to waste and water plant infrastructure

*A full list of supplementary actions can be found in the scenarios and the Action Inventory.





TASK 3

ANALYSIS OF DEKALB COUNTY'S MUNICIPAL SOLAR POTENTIAL

Located within Metro Atlanta, DeKalb County's clean energy goals will affect the county, its residents, and neighboring counties. DeKalb's solar potential is a pivotal clean energy investment that can dramatically reduce the county's reliance on fossil energy. Given that DeKalb County has a large number of owned/leased county buildings, the canvas for the potential for rooftop solar for the county is quite large. Again, thanks to the IRA, investing in solar projects is becoming more affordable. Residents of DeKalb County can also benefit from increased investment in solar energy. Investments in community solar or residential solar programs can allow citizens of DeKalb to experience cleaner, more resilient energy.

Analysis of DeKalb County's Municipal Solar Potential

Cherry Street Energy was selected by Southface to perform an analysis of DeKalb County's municipal solar potential that would align with the following goals of the Clean Energy Transportation Transition Plan:

- County-wide goal of 50% renewable energy adoption by 2025
- County-wide goal of 100%

- renewable energy adoption by 2035
- Community-wide goal of 100% renewable energy adoption by 2045

Methodology

DeKalb County, Georgia has categorized a clear and ambitious goal to utilize 100% Clean Energy and Clean Transportation powering the County's needs by 2050. Due to the timeline and broad description of DeKalb County's request for solar potential, the method of assessments focused on sites that are currently actionable by the County. It was not assumed that the County had an interest in purchasing private land to produce more solar capacity or in building additional infrastructure throughout the County to host solar power.

Our assessment focused on developed land or property that is either wholly owned or solely leased by DeKalb County. This information was compiled from three public sources of information: the DeKalb GA County Facilities Map, the Select DeKalb Site Selector, and the DeKalb County Parcel Viewer.

After compiling information from the above resources, 92 sites were assessed for solar feasibility. Following that broad feasibility assessment, a more in-depth solar viability analysis was performed by determining the structural feasibility of each building and rooftop, the financial feasibility of each installation, and additional considerations for both Cherry Street and the County. All assessments were desktop assessments; on-site surveys were not performed due to time and resource limitations.

Assessing structural feasibility for a solar installation involves reviewing the age of the building's roof, the overall slope of the rooftop, and the type of roof that would need to bear the weight of the panels. In addition to such roofing considerations, the potential for shading was analyzed (and hence reduced solar production) by adjacent or nearby buildings, structures, or vegetation. Lastly, any County-owned facilities that were slated for decommissioning or sale in the near or middle term were removed to ensure that any solar installations would be able to produce on-site power for a minimum of 20 years.

For potential ground-mount installations, it was determined viability based on properties that had no publicly stated plans for construction or use by DeKalb County for the foreseeable future. Additionally, flood zones and zoning limitations were assessed for each facility in DeKalb County's Facility map.

Next a financial feasibility analysis was conducted. This analysis assumed that DeKalb County would proceed only with respect to sites that provided a positive financial benefit for the County over the 20 to 25-year life span of a solar array. This analysis included reviewing the 2019 electrical billing information for the sites in question.

The billing information from 2019 was assumed to best reflect the future energy consumption of the facilities reviewed, compared to the potentially irregular electrical usage data from the COVID-19 pandemic and work-from-home mandates.

After assessing the 2019 electrical billing information, the costs were

escalated to reflect the 2024 energy rates for each utility. Assuming consumption has not changed at each facility since 2019, it was determined that the appropriate size of each array would provide the best financial outcome.

SIZING CONSIDERATIONS

I. Current Energy Mix

Cherry Street analyzed the DeKalb County Government's current energy mix using data from Georgia Power's Facts and Figures tool. The summarized energy mix data by MW generated and the percentage of renewables is featured below. Please note that this data is a representative sample only and does not represent the most up-to-date information. More data on county-owned buildings both in and outside of Georgia Power's service territory is needed in order to complete our analysis.

	MWs	% Renew- able Energy Mix
Current Renewable Energy Mix	10.45	9%
50% County Wide by 2025	58.04	50%
100% County Wide by 2035	116.09	100%

Current energy mix for DeKalb County is comprised of gas, oil, nuclear, coal, and renewable sources.

Based on the available data, renewable energy sources account for only 9% of DeKalb County's current energy mix. Thus, to achieve its goals, the County will need to aggressively expand on-site solar power generation on every County-owned building where doing so is structurally feasible.

II. Current Energy Consumption

Using our electricity usage data from 2019, Cherry Street was able to compile the energy demand of each department across the DeKalb County Government:

County Department	Total (kWhs)
Administrative	21,544,769
DCG	34,908,798
Fire Stations	8,985,944
Parks	3,284,031
Airport	966,676
Police	19,650,002
Sanitation	1,726,600
Senior Centers	2,355,631
Watersheds	74,900,800
Total	168.323.251

2019 total electric generation in kWhs by DeKalb County Government department

Addressable Capacity

Using available electricity data from DeKalb County and Georgia Power, Cherry Street estimated the total potential for adding solar PV capacity to the County's existing infrastructure. It was determined that DeKalb County could install nearly 18,302 kW (DC)¹ of on-site solar power between rooftops and ground mounts. The addition of this amount of capacity would increase the County's share of renewable energy in its overall energy mix by an additional 16%, bringing DeKalb's renewable energy total to 25%.



¹ In DeKalb County, the expected yield or performance ratio of a solar system is 1450 kWh/kWp. Thus, 18,302 kW-DC of installed solar would be expected to produce 26,537,90 kWhs (18,302 x 1450) or 15.8% of total generation (26,537,900/168,323,251 = 15.8%).

Site Name	Estimated Solar Capacity kW (DC)
Polebridge WWT	6920
Scott Candler Filter Plant	2860
Snapfinger Creek WTP	1302
Court House	940
Tax Commissioner (North)	760
Animal Services	605
Sherriff's Department	548
Tax Commissioner - South Office	433
South Precinct	360
178 Sams Street	299
Dunwoody Library	238
Sanitation Central Admin	232
Workforce Development	231
Watershed Management	220
Lou Walker Senior Center	214
T.O. Vinson Health Center	165
Avis G. Williams Library	137
East DeKalb Health Center	130
Public Library Processing	125
Redan Recreation Center	125
Treasury & Accounting	121
Tucker-Reid H. Cofer Library	102
Bruce Street Senior Center	95
North DeKalb Health Center	94
North DeKalb Senior Center	87
Salem-Panola Library	86
Exchange Recreation Library	84
Hairston Crossing Library	79
East Precinct	73
Gresham Recreation Center	68
South DeKalb Senior Center	63
DeKalb-Atlanta Senior Center	61
Medical Examiner	61
Mason Mill	54
Tucker Precinct	48
Tax Commissioner - North Office	45
Central DeKalb Senior Center	38
Roads & Drainage	38
NH Scott Recreation Center	37
Chamblee Library	35

Potential Sites for Solar

The following table lists our top thirty-nine (39) County-owned buildings and sites that we believe to be the best candidates for solar PV installations, organized from largest estimated capacity to smallest. For each system, Cherry Street modeled solar PV production using Hanwha, Q.Peak Duo XL-G10.3/BFG 475W modules. The estimated solar capacity (kW-DC) for each building is subject to change based on module and equipment availability.

Conclusion

Cherry Street appreciates the opportunity to present this full assessment of DeKalb County's on-site solar PV potential. Based on our detailed site feasibility studies, rate analyses, and engineering assessments, the above procurement strategy would allow the County to jump from 9% to 25% renewable energy usage in its overall energy mix, making substantial headway toward its longer-term Clean Energy goals. 20,21,22,23

TASK 4

RECOMMENDATIONS ON INCREASING EQUITY AND ADDRESSING ENERGY BURDEN WITHIN THE COUNTY

Today, equity issues within DeKalb County remain prevalent. Energy burden is commonly defined as any household spending six percent or more of their monthly income on energy needs. 6 Mapping these energy burden hotspots is critical for ensuring that clean energy investments are being made within these areas. Historically, these neighborhoods have been disinvested in and overlooked. When creating the Plan, DeKalb's energyburdened hotspots were of high priority as these neighborhoods would benefit from direct financial assistance and overall higher levels of clean energy investment. Addressing these issues is critical for ensuring the longevity of the Plan.

SECTION SUMMARY

As part of the DeKalb County Clean Energy Transportation Transition Plan, IB Environmental (ibE) conducted an equity analysis utilizing census data metrics including income, poverty, and supplemental nutrition assistance program (SNAP). This data was then combined with energy and water utility bill data. The result was various metrics

that assess the financial distress of residents of the County. Tables are provided that compare how different income brackets within the County are affected by typical electricity bills. Maps are also provided that subdivide the County into census tracts.

These maps illustrate how the financial stress on customers is distributed across the County. Specific "pockets of poverty" (PoPs) are highlighted on the maps, directing the County and other assistance programs on where to focus their efforts most.

AFFORDABILITY ASSESSMENT

To assess equity within the County, the project team considered affordability in the following ways:

Affordability for the Average Residential Customer:

- Percent of Median Household Income Spent on Energy Bills (%MHI)
- Range of Percent of Household Incomes Spent on Energy Bills

Affordability for Low-Income Customers:

- % of household income spent by low-income households
- % of household incomes spent by low-income homeowners

Overall Socioeconomic Status:

- DeKalb County compared to State averages
- DeKalb County compared to National averages

SECTION 1: AFFORDABILITY FOR AVERAGE RESIDENTIAL CUSTOMERS

Information on affordability is available from the United States Census on different levels. The "household" level best reflects the citizens of the County. "Household" includes all the people who occupy a housing unit as their usual place of residence, whereas "homeowners" are defined as those persons who own their own home and are not renting.

While many efforts were made to obtain average/typical residential bill amounts from both electricity and gas utilities, this data was not provided. Fortunately, the model ibE created allows the input of any bill amount. In this report, inputs of \$100 for electricity and \$50 for natural gas are used, which are considerably below some of the published estimates. For example, according to EnergySage, in Atlanta, GA, the average monthly electric bill for residential customers is \$252 per month, calculated by multiplying the average monthly consumption by the average electric rate: 1,602 kWh multiplied by 16 cents per kWh. Therefore, this assessment, at \$150 per month, is very conservative in terms of the level of energy burden in the County.

The most commonly used indicator of affordability of energy bills is the "% MHI," or "percent of median household income" spent on average bills. This is calculated as the ratio of annual electricity/gas bills at the average consumption level to the median household income of the community. Half of the households in the community make at least the "median household income" (MHI) annually, and the other half makes less than the MHI.

There is no national standard for what constitutes an affordable % MHI value for energy use, but commonly used thresholds are:

- 6-10% of Median Household Income spent on energy is considered a high burden
- Greater than 10% of Median Household Income spent on energy is considered a very high burden

Table 1 shows the bills in DeKalb County for use of \$100 for electricity and \$50 for gas, per month. It shows that half of the households are paying more than 2.33% of their annual income on energy, assuming the total bill amount of \$150.

	Current Rates	
Monthly energy bills / month	\$150	
Annual energy bills at same level of use	\$1,800	
Median Household income in 2022 for DeKalb County, Georgia	\$77,169	
Energy bill % MHI	2.33%	

Table 1. depicts the current rates where the Energy bills are set at \$150 per month.

SECTION 2: AFFORDABILITY FOR LOW-INCOME CUSTOMERS

Because DeKalb's Clean Energy Transportation Transition Plan prioritizes equity in its assessment of affordability, this Plan elects to use metrics that specifically account for low-income customers in lieu of other commonly used affordability indicators, such as % MHI, which may not fully highlight the needs of low-income customers. There is also an association between renters and higher affordability issues, so this section distinguishes renters from homeowners for some metrics. For many communities, a substantial portion of their citizens make less than the MHI of their community. For example, there is a large number of households that make less than \$25,000/year. In those cases, a larger portion of household income will be spent to pay the same monthly charges for energy as those who make more than \$25,000/year.

So, even though many communities often use % MHI to assess the overall burden of their energy bills, it is prudent to focus attention and assistance on low-income customers specifically. Table 2 identifies the percentage of people in different income brackets, highlighting the three lowest income brackets.

Income bracket (All Households)	% of service population in 2022 (includes homeowners and renters)	% of service population in 2022 of homeowners (excluding renters	Minimum portion of household income spent by these customers annually
Less than \$10,000	5.7%	2.9%	18.00%
\$10,000 to \$14,999	2.4%	1.6%	12.00%
\$15,000 to \$24,999	6.5%	4.0%	7.20%
\$25,000 to \$34,999	7.2%	4.6%	5.14%
\$35,000 to \$49,999	10.6%	8.6%	3.60%
\$50,000 to \$74,999	16.4%	14.6%	2.40%
\$75,000 to \$99,999	11.9%	12.1%	1.80%
\$150,000 or more	22.6%	32.6%	0.90%

Table 2. Displays the percentage of customers within the DeKalb customer base across income brackets, where the assumed bills are \$100 for electricity and \$50 for gas. Red text signifies low-income households.

As seen in Table 2, homeowners in DeKalb have higher incomes than renters. This creates specific equity challenges. It makes the case for focusing equity initiatives on renters, but this group can be difficult to reach. The contact information on file with the utility may be for the landlord and not the renter. Lower incomes also mean that renters have a higher energy burden, as seen in Table 3.

SECTION 3: RANGE OF PERCENT OF HOUSEHOLD INCOMES SPENT ON ENERGY

Percent of household income spent on bills	Minimum percent of households	Minimum percent of homeowners
2%	48.8%	36.3%
3%	32.4%	21.7%
4%	21.8%	13.1%
5%	21.8%	13.1%
10%	8.1%	4.5%

Table 3. Depicts the percentage of income spent on a Monthly \$150 Energy Bill.

More than 48% of households would spend at least 2% of their income on energy bills if their monthly bill is \$150. In contrast, only 36% of homeowners would spend at least 2% of their income on energy bills under the same conditions. This highlights some of the economic disparities between homeowners and renters.

SECTION 4: KEY SOCIOECONOMIC INDICATORS FOR DEKALB COUNTY

In addition to the consideration of energy bills, this report also identifies metrics that further characterize the economic conditions of DeKalb County (Table 8). These indicators, while not direct measurements of utility burden, provide a depth of insight that more fully captures the economic state of a given community.

Year: 2022	DeKalb County, GA	Georgia	United States
Median Household Income	\$77,169	\$72,837	\$74,755
% Unemployment	3.3%	2.6%	2.7%
% Not in the labor force	32.8%	36.1%	36.5%
% of all people with income below poverty	13.4%	12.7%	12.6%
% with Social Security income	26.3%	29.3%	31.1%
% with Supplemental Security Income	4.3%	5.1%	5.1%
% with cash public assistance income	2.3%	1.7%	2.5%
% with Food Stamp/SNAP benefits	12.2%	13.2%	12.4%

Table 4. Depicts key socioeconomic indicators, comparing DeKalb County's socioeconomic statistics with state and national averages. Each value for DeKalb County shown in red, indicates that the value is 'more stressed' than the state and national averages.

Figure 1.1 - Lower Assumed Monthly Bills

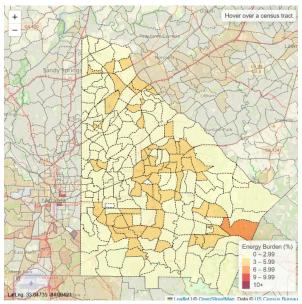


Figure 1.1 assumes monthly bills are \$100 for electricity and \$50 for gas.

Figure 1.2 - Higher Assumed Monthly Bills

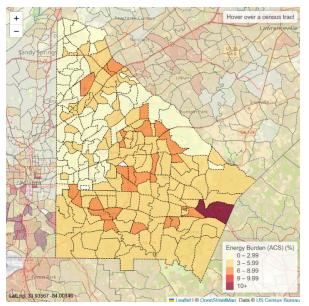


Figure 1.2 assumes monthly bills are \$150 for electricity and \$80 for gas.

Energy burden is higher in the Southeastern United States than in most parts of the country. Due to rate increases such as a 12% cost shift in 2023, approved by the Public Service Commission, from Georgia Power Company to customers, households—especially lowincome households—previously not burdened or only mildly burdened are at risk of experiencing a greater energy burden.

Poverty Indicators in DeKalb County

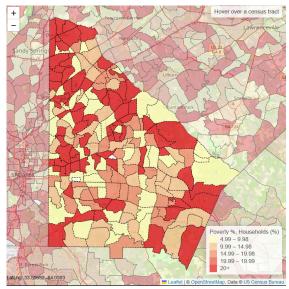


Figure 2.1 displays the Percent of Households in Poverty by Census Tract

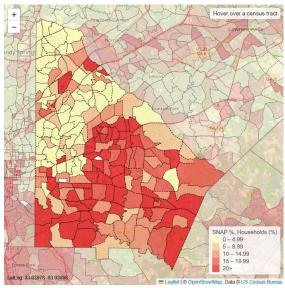


Figure 2.2 displays the Percent of Households Receiving SNAP by Census Tract

Poverty has a stronger concentration in the southern half of DeKalb County, and the likelihood of encountering households receiving Supplemental Nutrition Assistance Program (SNAP) benefits increases in these southern areas. A notable exception in the northern half of the county is the area around Buford Highway, which has long been known for its large Latino and Asian community.

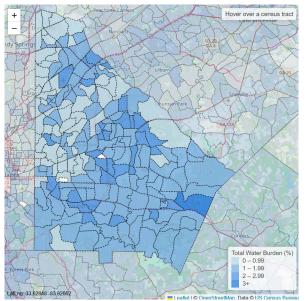


Figure 3.1 Total Water Burden (%) by Census Tract

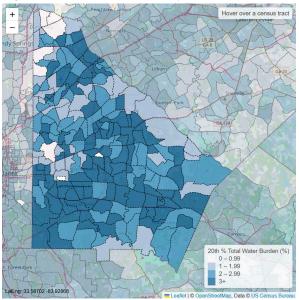


Figure 3.2 20th Percentile Total Water Burden (%) by Census Tract

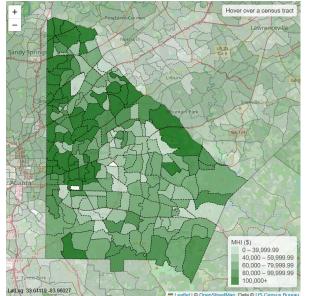


Figure 4.1: Median Household Income by Census Tract in DeKalb County

Figure 3.1 depicts Total Water Burden, which is defined as the percentage of household income spent on drinking water, wastewater, and stormwater expenses.²⁴ A Total Water Burden above 3% is considered high; elevated levels of Total Water Burden are found in the southern half of DeKalb, closer to the City of Atlanta city center, in East Atlanta, and in Clayton County. The more northern suburbs of DeKalb experience a lower Total Water Burden.

Apart from the median, the "20th percentile" has evolved in the water industry as a useful metric of affordability, because it drills down to the lower income brackets of the population, as opposed to the middle.

DeKalb County has both pockets of poverty and pockets of wealth. The more affluent households by census tract are in darker green, while less affluent households are in lighter green. As noted in earlier sections, there is a higher concentration of wealth towards the northern half of the county, with an area of exception again being the multicultural Buford Highway.

SECTION 5. ALLEVIATING INEQUITIES BY INVESTING IN COMMUNITY

There is a broad spectrum of strategies that can be employed to address inequality. This Plan's strategy centers on alleviating inequalities through investing in the community, efforts best exemplified by the PAYS™ and PACE programs, highlighted below.

A Pay as You Save (PAYS™) program enables energy efficiency upgrades for utility customers without upfront costs. Customers pay for improvements with energy savings over time through their utility bills, leading to lower energy usage and savings for the customer. This is a form of on-bill financing.

The Property Assessed Clean Energy (PACE) financing model provides funding for energy efficiency and renewable energy projects by allowing property owners to repay the costs with their property tax bills. This mechanism facilitates access to upfront financing and allows repayment over multiple owners, encouraging the type of deep retrofits that can help build generational wealth. Considering that approximately a quarter of total energy use in Georgia comes from residential use, this program has the potential to affect substantial use impacts (consumer costs, indoor air quality, etc.) subsequent to a reduction in fossil-fueled energy consumption.

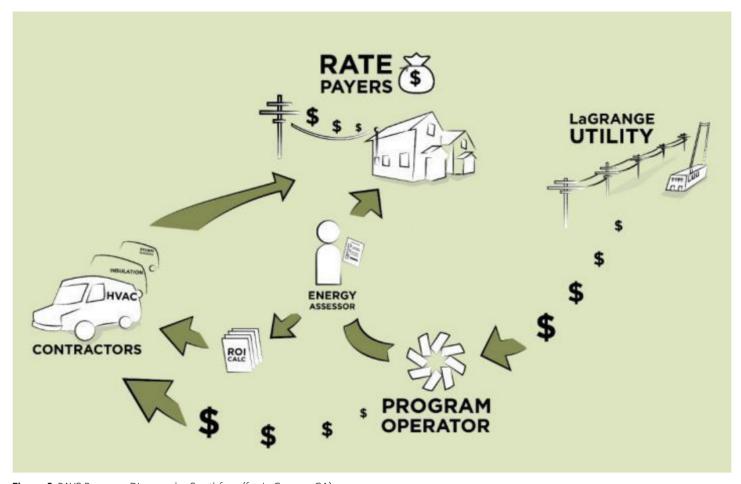


Figure 5. PAYS Program Diagram by Southface (for LaGrange, GA)

Customer Assistance Programs

There are several programs that can help customers with urgent needs in relieving energy burden. As discussed in the blog post, Low-Income Energy Assistance Programs in Georgia, the assistance programs fall into two main buckets: bill payment assistance programs and energy efficiency programs. A good starting point for a customer to plug into some of these programs is the Partnership for Community Action since that organization runs a few different assistance programs.

The following list provides examples of CAPs:

- Energy-Saving Efficiency and Education Programs by Utilities
 e.g. Georgia Power's Senior Discount
- Family Support Program -Partnership for Community Action
- Project Share Salvation Army -DeKalb County
- DeKalb Caring for Others
- Low-Income Household Energy Assistance Program (LIHEAP)
 Partnership for Community Action (USDHHS)
- Low-Income Household Water Assistance Program (LIHWAP) -Partnership Community Action (USDHHS) (though ended in 2023, there is some work to get it restarted)
- Emergency Rent, Mortgage, and Utility Assistance - Society of St. Vincent de Paul
- DeKalb Emergency Assistance Program - Urban League of Greater Atlanta
- Emergency Assistance Program
 Jewish Family & Career
 Services of Atlanta

Further Discussion

Water Burdens: Apart from the existing assistance programs listed above, many water utilities have their own assistance program to help their low-income customers. A utility-specific program is especially important since the national water assistance program ended in 2023. The County can look at some local examples of such programs and consider adopting relevant aspects. Assistance with essential needs such as water, housing, etc., leaves more money in the household budget for paying energy bills.

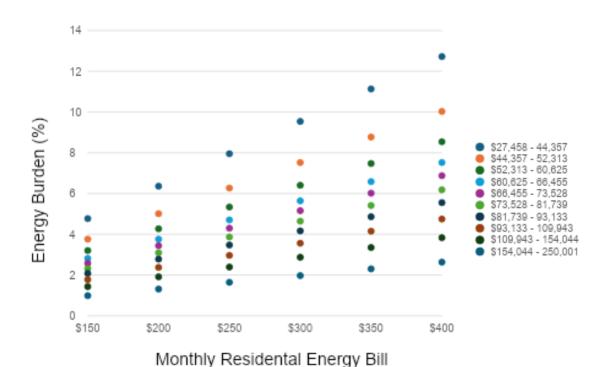
Solar Power: The opportunity for lower-income households to participate in solar energy has been a controversial conversation. Due to the relatively high upfront costs of solar installation, it has been a challenge to devise systems where people without a lot of disposable income can participate. Georgia Bright is an example of a program that has evolved to address that gap. Nonprofits like Capital Good Fund are using federal tax credits to reduce the cost of solar panels for low to moderate-income homeowners. The first round of Georgia BRIGHT will install solar panels on the homes of 200 Georgia households making less than \$150,000 a year. Any homeowner (or tax-exempt organization) in Georgia is eligible. Georgia Bright uses federal funding, grants, and discount bulk purchase discounts to bring the homeowner's power bill down — saving the average family 20% a month or about \$10,000-\$15,000 over the term of the lease. The program has received over \$150 million in federal funding to expand over the next 5 years to service thousands of households across Georgia.

During review of the first version of the Plan, the DeKalb County Board of Commissioners Central Staff team had asked the project team to also include an incremental equity mapping analysis. Below are the results.

Energy Burden: Refers to the percentage of household income spent on energy expenses. The figure below illustrates Energy Burden (%) across 10 income bins, where each bin encompasses approximately 76,000 residents. The income range for each bin is determined by the population distribution. Energy Burden (%) is shown for monthly residential energy bills, increasing in \$50 increments, ranging from \$150 to \$400.

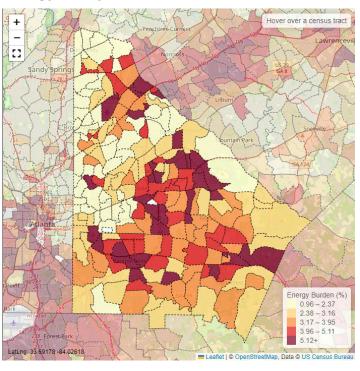
Lower Boundary MHI (\$)	Upper Boundary MHI (\$)	Population
\$27,458	\$44,356	75,616
\$44,357	\$52,312	73,187
\$52,313	\$60,624	78,981
\$60,625	\$66,454	76,483
\$66,455	\$73,527	72,981
\$73,528	\$81,738	78,804
\$81,739	\$93,132	75,866
\$93,133	\$109,942	75,353
\$109,943	\$154,043	77,790
\$154,044	(No Upper Limit)	76,148

Table 1. Income Bins. Energy Burden Across Increasing Monthly Residential Energy Bills

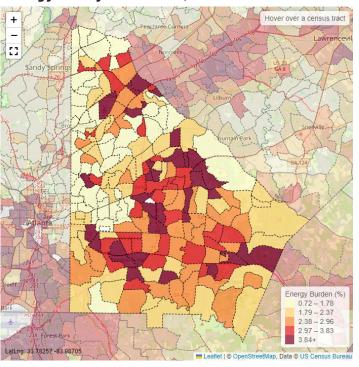


Supplemental mapping figures included in this document display a spectrum of monthly costs for utility bills for residential utilities in Dekalb County. The goal of these added figures is to provide a broader representation of energy bills percentage of median household income for DeKalb residents. Note that the unit uses Energy Burden, which is the percentage of a household's income that is spent on energy costs.

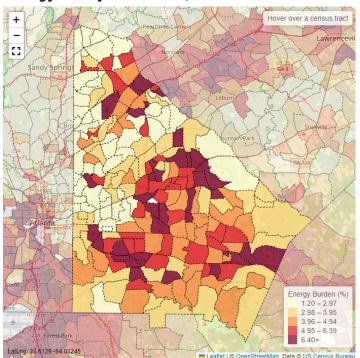
Supplemental Figure 2. Monthly Residential Energy Utility Bill set to \$200



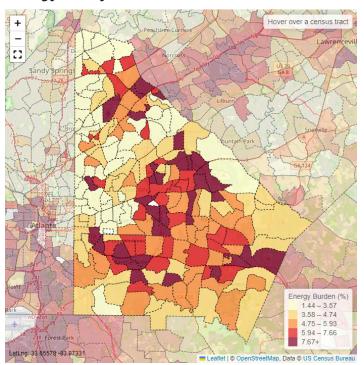
Supplemental Figure 1. Monthly Residential Energy Utility Bill set to \$150



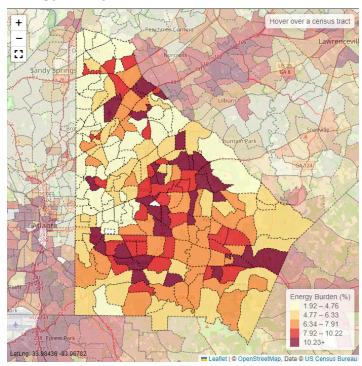
Supplemental Figure 3. Monthly Residential Energy Utility Bill set to \$250



Supplemental Figure 4. Monthly Residential Energy Utility Bill set to \$300



Supplemental Figure 5. Monthly Residential Energy Utility Bill set to \$400



TASK 5

PUBLIC STAKEHOLDER INCLUSION FOR AN OPEN, INCLUSIVE, AND TRANSPARENT PLANNING PROCESS

Throughout the community engagement process, citizens of DeKalb County, industry professionals, and academic leaders participated in community engagement sessions. Four community engagement sessions were held in person, which informed over 150 community members on various topics related to clean energy. Each session was led by industry experts and policy leaders who offered a unique perspective on the clean energy industry and focused on various levels of engagement.

Planning Process

Engagement opportunities

17

The Community Climate Champions Cohort was identified as a mechanism for developing a group of interested citizens and industry professionals to be the clean energy voice of DeKalb County.

At each community event, community input was recorded on topics like the uniqueness of DeKalb County, feedback on deliverables of the Plan, and sharing energy-related anecdotes from both individual and community perspectives. In an effort to make all sessions as interactive as possible, flip charts were hund to record community input, and breakout groups were employed to collect citizen-level and industrylevel input. For equity purposes, for members of the community who could not attend the community events, recorded webinars and event slide decks have been made public and can be found at www. cleanenergyDeKalb.com. Below is a summary of each community event that was held.

Preliminary Schedule



18

Clean Energy Myth Busting -October 14, 2023 | Attendees 100+

Like most things, there are some common misconceptions around clean energy investments, especially at the homeowner/renter level. This session focused on five common myths about clean energy. Partnering with DeKalb's Green New Deal Summit, the consultant team presented to participants in two rounds of sessions. Educating members of the community on these myths served as a great way for citizens to gain access to accurate information regarding various clean energy decisions and investments that can be made.

Air Sealing in Existing Homes -November 8, 2023 | Attendees 30+

With DeKalb County primarily being a bedroom community, the focus of the 2nd community event centered around home energy improvements, specifically air sealing. A properly sealed building envelope potentially saves 30% of a household's energy costs. Sealing techniques are lowcost and easily achievable in a Do It Yourself (DIY) effort. Partnering with DeKalb's World Planning Day, the consultant team hosted a community engagement session with a presentation and a handson demonstration component. According to the 2050 DeKalb Unified Plan, the median year for homes built in DeKalb County is 1981.²⁵ In contrast, the National Home Builders Association indicates that the median age of housing stock in Georgia ranges from 23 to 30 years.²⁶ Recognizing this difference, this community event was extremely important given the older age of DeKalb's housing stock. Led by industry professionals, this community event outlined

the energy and economic benefits associated with proper air sealing.

Demystify Your Energy Bill & Discover Ways to Lower It - February 6th, 2024 | Attendees 30+

Everyone pays for utilities, but not everyone understands what they are paying for. The 3rd community event centered around understanding energy bills. This community event helped residents understand what charges ratepavers cannot control and measures they can take to lower their bills. The location for this event was the Candler-Mcafee neighborhood, which is federally defined as energy-burdened. With this in mind, citizens were encouraged to bring their energy bills for utility representatives, industry experts, and policy leaders to analyze and provide advice on ways to drive down energy costs. Community members shared various programs they are partaking in that have significantly reduced their energy bills.

Discover How Your Utility is Regulated - March 16th, 2024 | Attendees 20+

The 4th community event centered around educating members of the community on how Georgia Power and Electric Membership Corporations (EMC) are regulated. Industry professionals led the conversation on the Public Service Commission (PSC) and the Integrated Resource Plan (IRP), among other materials. To incentivize community input, breakout groups between citizens and industry professionals were held after the presentation for further discussion and brainstorming on how DeKalb can implement clean energy, given the regulatory uncertainty.

TASK 6

ASSISTANCE IN DEVELOPMENT OF A CLEAN ELECTRICITY AND VEHICLE PROCUREMENT STRATEGY

According to the U.S. Environmental Protection Agency, 28% of national Greenhouse Gas (GHG) emissions come from the transportation sector. Accounting for over ¼ of total GHG emissions, decarbonizing the transportation sector is essential for achieving the national clean energy goals.²⁷ However, in DeKalb County, transportation accounts for 48% of county-wide emissions. Developing an expansive community charging network will allow more residents of DeKalb County to enjoy the benefits of driving an electric vehicle while reducing their dependence on carbon-intensive gasoline. Moreover, investing in EV charging infrastructure will increase the range of the County's fleet.

DeKalb County's Fleet Management team has one of the leading green fleets in the state, if not the nation. Since 2014, DeKalb County Fleet Management has frequently placed in the top 10 of 100 Best Fleets across North America, ranking #1 Best Fleet in 2018. DeKalb's fleet reduced 14% of total gasoline gallon equivalents and 7% of GHG emissions last year alone. The fleet has 363 Compressed Natural Gas (CNG) trucks, 63 Propane vehicles, and now up to 111 Electric

Vehicles (EVs). Fleet Manager Robert Gordon projects that their fleet will be 100% zero emissions in the next 20 years. With the public fleet already serving as a leader in the clean transportation transition, the Clean Cities Georgia (CC-GA) team chose to focus on other ways to increase the overall adoption of zero-emission vehicles.

By prioritizing EV infrastructure and strategically placing charging stations in areas frequented by community members, likelihood of EV adoption can be significantly enhanced. This approach is a highly effective method for reducing carbon emissions. Transitioning to electric personal vehicles is a particularly achievable goal. According to a Mobility Survey conducted in the Atlanta metro area:

- 72% of respondents prefer personal vehicles
- 25% prefer buses
- 11% carpool
- 24% use rideshares

The remaining percentages are distributed among bikes, scooters, trains, and other transit options.²⁸ Given these preferences, focusing on personal vehicles represents the most promising demographic for encouraging EV conversion.

Through a series of mapping exercises, looking at the locations of existing charging stations, taking into account city limits, county-owned properties, key community gathering spaces, and the areas of DeKalb most overburdened by transportation pollution, the team decided on a list of ten locations to propose for both fleet and community charging. As can be evidenced by the map below, DeKalb County has very little

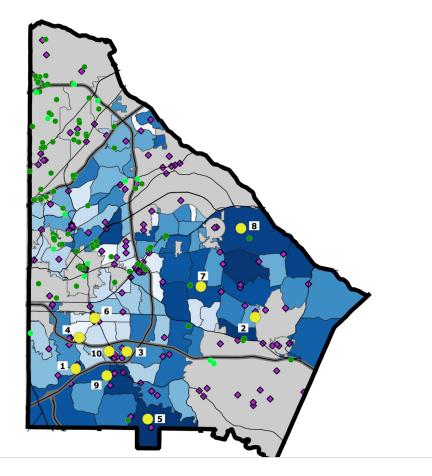
charging in the southern half of the county, where the most energy-burdened and pollution-burdened community members reside. The gray areas on the map represent cities that are excluded from the energy burden hotspot analysis, representing city limits where DeKalb County cannot directly influence outcomes. The analysis focuses solely on unincorporated DeKalb County, with the darkest blues indicating communities that bear the largest burden of environmental injustices.

The team surveyed locations in these areas that are community gathering places, preferably on county property or near county facilities for easy fleet access, have additional amenities, and are safe locations for EV-driving residents to charge. Although 85% of charging is done at home, this

works only for single-family residents, not residents in apartments, condos, and multi-family dwellings. Public charging is crucial to increase adoption and show residents, particularly those who do not own a single-family home, that they can be assured of a local place to charge if they purchase a used or new EV. In addition, it offers more charging options for EV owners who can charge at home but would like to 'top off' their vehicle's charge while on the qo.

CC-GA hosted a community meeting on July 31st, 2024, to solicit input from community members on the initial recommended locations. There was significant community interest from local residents and EV owners regarding the charging locations, with an emphasis on safety, nearby

Sources: ERSI DeKalb County GIS Department US Environemntal Protection Agency



Proposal Locations

Charging Stations

- DC
- L2
- DeKalb Owned Facilities

activities while charging, and the ability to leave vehicles overnight safely. Residents offered several key notes of feedback to be incorporated into the final selection of locations:

- Requested more locations be included that covered more areas in the South half of DeKalb County
- Locations selected based on safety considerations such as lighting, walkability for nearby residents to leave vehicles overnight, placed in the front of parking lots to increase visibility, including cameras as an added safety feature
- Offer a variety of levels
 of charging: Level 1 near
 apartments where they can
 charge overnight; Level 2 with
 a time cap of 2 hours to ensure
 access for multiple vehicles;
 Level 3 at a few key locations
 near highways and transit hubs
 for quick charges and traveling
 needs
- Reduce energy burden
 on the grid in already
 energy-burdened areas by
 incorporating solar canopies to
 supplement the grid with clean
 energy
- Incorporate resiliency into the charging locations with potential travel pods

After receiving this input from invested community members, the CC-GA team revisited the list of recommended locations and ranked them according to levels of safety, walkability, nearby amenities, and whether it was close to residents (see Appendix for details). A couple of locations were removed from the final list due to safety concerns, and a couple of locations were added that

the community highly encouraged. The locations below are a starting point to further EV adoption and are by no means an exhaustive list. Phase I includes county-owned facilities where charging can swiftly be added as funds become available to the county. Phase II includes facilities that are highly trafficked but would require partnerships with other property owners in order to implement, which would also likely require more time to complete.

Phase I County-Owned Charging Locations

(in order of priority based on safety, amenities, and walkability)



Gresham ParkFeatures: Pool, walking trails, residents and nearby school



Redan Recreation CenterFeatures: Walking trails and sporting center, residential area nearby



Exchange Recreation Center Features: Pool, residents, playground



NH Scott Recreation Center Features: Walking trails, residents, and playground



Ellenwood LibraryFeatures: Near residents, near future recreational facility (Ellenwood Recreational Center)



Scott Candler LibraryFeatures: Near shops and apartments



Hairston Crossing LibraryFeatures: Near shops and residents

Phase II Partnership Charging Locations

(in order of priority based on safety, amenities, and walkability)



Stone Mountain ParkFeatures: Biking and hiking trails, water activities, camping, laser show, holiday activities



Georgia State University: Perimeter College Decatur CampusFeatures: Walking trails and access for students while taking classes



South DeKalb Mall Features: Shops

TASK 7

CREATION, EDUCATION, AND ENGAGEMENT OF A DEKALB CLIMATE TASK FORCE

As outlined in the RFP under Task 7, the DeKalb Climate Task Force is envisioned as the implementation task force for the DeKalb Clean Energy Transportation Transition Plan.

After careful deliberation with County Staff, the consultant team is suggesting a new position be added within the Chief Operating Officer's (COO) office that will lead a Sustainability Office and DeKalb Climate Task Force and be responsible for implementing all components of the Plan. A Deputy COO-Sustainability Officer will be responsible for the implementation of the Plan.

SUSTAINABILITY OFFICER (DEPUTY COO)

The Sustainability Officer (Deputy COO) will be positioned within the COO's office and will oversee the implementation of the DeKalb Clean Energy Transportation Transition Plan. This role is responsible for additional future planning for clean energy and energy efficiency actions, ensuring timely clean energy investments according to the Plan's outcomes, and facilitating cross-departmental coordination for effective implementation within various county departments.

IMPLEMENTATION BODIES

DeKalb County requested Southface to review a proposed Environmental Justice Commission. As part of the DeKalb Clean Energy Transportation Transition Plan, Task 7 calls for the creation, education, and engagement of a DeKalb Climate Task Force. In an effort to fulfill this requirement, Southface has reviewed the proposed Environmental Justice Commission and proposed model legislation for its institutionalization.

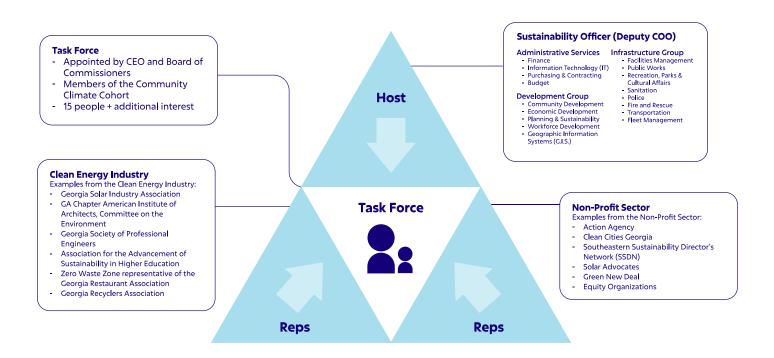
The original deliverable called for a task force responsible for the implementation and accountability of the DeKalb Clean Energy Transportation Transition Plan. With the addition of an environmental justice component, Southface and the consultant team believe that it is a great step toward an equitable, just, and sustainable future. After a review of the original Environmental Justice Commission, Southface is proposing a joint Environmental Justice and Sustainability Board to ensure the institutionalization of the Plan.

THE ENVIRONMENTAL JUSTICE AND SUSTAINABILITY BOARD

The proposed Environmental Justice and Sustainability Board offers a unique position that ensures the implementation and institutionalization of the Plan and also applies environmental justice support for each implementation item. Therefore, a bicameral structure is proposed wherein The Environmental Justice and Sustainability Board consists of two subcommittees working together to ensure an effective and holistic implementation of the tasks. The subcommittees are the Sustainability Committee and The Environmental Justice Committee.

THE SUSTAINABILITY COMMITTEE (CLIMATE TASK FORCE)

The Sustainability Committee will collaborate with the Sustainability Officer (Deputy COO), advising, strategizing, and executing the implementation of the Plan. This committee will hold the Sustainability Office accountable for its role in implementing the Plan within DeKalb County. Additionally, the committee will disseminate community initiatives from the Plan through their networks, providing a voice for DeKalb County residents. It will include representatives from the clean energy industry and the nonprofit sector. Following the language of the original deliverable, this committee will act as the Climate Task Force. Below is an infographic that depicts the Sustainability Committee (Climate Task Force).



THE ENVIRONMENTAL JUSTICE COMMITTEE

The Environmental Justice
Committee will ensure that all DeKalb
County projects, including the Plan,
consider the needs of disadvantaged
communities and communities
of color. The committee's mission
includes conducting scientific
analyses, reviewing case studies, and
providing expertise on various issues,
including:

- Researching and creating a list of facilities that pose a threat to human health or the environment.
- Reviewing past and ongoing enforcement actions taken by the Environmental Protection Division.
- Analyzing economic factors that may have led to the concentration of hazardous facilities in lowincome neighborhoods and predominantly African American communities.
- Reviewing statutes, rules, and policies of DeKalb County and their roles in environmental justice.
- Assessing data and methodologies to identify neighborhoods at high risk from environmental threats.
- Evaluating enforcement statutes and rules related to hazardous facilities.
- Reviewing efforts by state and local agencies to ensure equitable workforce representation of people of color and individuals from lowincome families and promoting career opportunities in the environmental field.

- Examining communication methods used by the Environmental Protection Division to reach people of color and low-income families.
- Proposing approaches to incorporate environmental equality and justice considerations in policies, procedures, and legislation.

The Environmental Justice Committee will meet monthly to analyze DeKalb County projects. The committee will comprise 17 voting members and 5 non-voting members, totaling 22 members, with a Sustainability Officer (Deputy COO) serving as the Chairperson.

A two-body structure will be implemented by the Sustainability Officer (Deputy COO), enabling each body to work effectively. By adopting this structure, DeKalb County will be well-positioned to successfully implement the Plan's deliverables and address other persistent environmental justice issues within the County.

TASK 8

DEVELOPMENT OF GREENHOUSE GAS INVENTORY FOR COUNTY GOVERNMENT FACILITIES AND FLEET, AND COMMUNITY COUNTY-WIDE

Just like other counties, DeKalb County's carbon footprint is extensive. From fostering many small businesses to hosting the most interstate road miles of any Metro Atlanta county and even operating the County's municipal solid waste facilities, DeKalb remains persistent in its pursuit to serve. Understanding all of these important functions that allow the County to operate, it is important to establish a baseline of Greenhouse Gas (GHG) emissions for the County. The Plan takes a closer look into each industry throughout the County and breaks down the current GHG inventory for DeKalb. This level of analysis is crucial for making progress. Identifying the most carbon-intensive sectors can help identify clear pathways to help decarbonize those sectors.

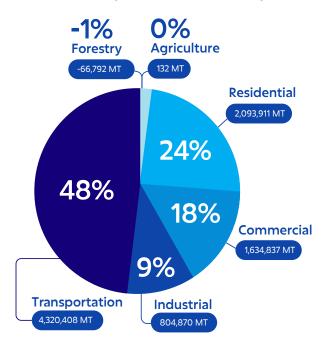
The project team sought to build an inventory from the ground up, requiring:

- Data (electricity purchases, natural gas, vehicle miles traveled, etc)
- A tracking tool (e.g. ICLEI Clearpath)
- Stakeholder buy-in/support (county offices, utilities, etc.)
- The inventory would be developed for both county and community emissions

The following data was missing in order to conduct a full ground-up analysis:

- Clear data from some utilities (especially natural gas)
- Community-wide data (energy use, VMT, etc)
- Other data requested (agriculture, waste management, industrial processes, land use)
- ClearPath/other software

2022 Community-wide Emissions by Sector



Due to the lack of data for a groundup analysis, the project team moved to a top-down analysis utilizing EPA tools to determine community-wide emissions. In order to determine a breakdown of community-wide emissions vs. DeKalb County operational emissions, the project team utilized the following methodology:

- Gathered data from Drawdown GA's Greenhouse Gas Emissions Tracker
- Calculated statewide emissions from monthly data published by:
 - Department of Energy's Energy Information Administration
 - Department of Transportation
 - Environmental Protection Agency

- Local indicator variables were then used to calculate DeKalb County's share of statewide emissions, including:
 - Population and housing characteristics (Census Bureau's American Community Survey)
 - Employment info (Census Bureau's Quarterly Workforce Indicators)
 - Vehicle miles traveled (Dept. of Transportation)
 - Forest coverage (National Land Cover Database)
 - Agriculture crop harvests and animal counts (Dept. of Agriculture's Census of Agriculture)



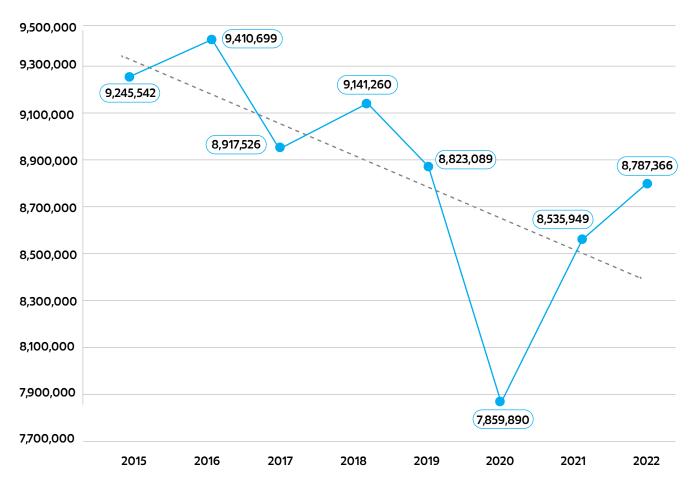
County Operations Emissions (2022 electricity and fleet)

Source	KWh	MWh	scf*	Gallon	Multiplier	Total GHG Emissions (MT)
GA Power	153,670,203	153,670			896.440lb/ MWh	62,474.43
Snapping Shoals	3,015,308	3,015			896.440lb/ MWh	1,225.87
Walton	745,775	746			896.440lb/ MWh	303.19
CNG			1,464,655.75		.0.5444 per scf	36.13
Diesel				747,506.06	10.21 per gallon	3,461.24
Unleaded Gas				1,588,752.12	8.78 per gallon	6,326.19
Propane				26,721.49	12.68 per gallon	153.66
Total			_	_		73,980.75
% of county trar	nsportation/elect	ricity emissions				0.92%

^{*}scf = Standard Cubic Feet

2022 DeKalb Community Emissions in Context

Total Yearly CO2 Emissions (MT)



TASK 9

DEVELOPMENT OF
CLEAR BENCHMARKS
AND MILESTONES
FOR THE COUNTY
DURING THE
TRANSITION TO
100% CLEAN
AND RENEWABLE
ENERGY AND
TRANSPORTATION

Based on the DeKalb Climate Action Scenarios, a series of milestones are described below across DeKalb County assets. Additional details can be found in the DeKalb Climate Action Scenarios located in the appendix.





MILESTONES PRESENT-2030

Sector	Milestones/Actions to be completed
Airport	Evaluate and Reduce Non-Essential Airport, Aircraft Energy Use
Buildings	 Invest in 'No-Regrets' Efficiency Improvements in Existing County Buildings Adopt Enhanced Energy Efficiency Requirements for New County Buildings Retrofit Existing Buildings to High Energy Efficiency Standards Add Dedicated Staff for Facilities Transformation
Fleets	Fleet Efficiency Optimization
Land Use	 Initiate a Carbon Mitigation Plan at 5 year update of this plan. Ensure inclusion in Unified Plan update. A Carbon Mitigation plan creates offsets where community emissions: 1) are not on track for elimination and 2) are sourced outside of the community's control. "Amend Chapter 1 of the Unified Plan with New Specific Policies related to the Tree Canopy. Also, Chapter 3. Policy Spotlights
Municipal Solid Waste	 Promote Waste Reduction in County Departments and Targeted Community Sectors Extend Recycling Collection and Enhance Waste Reduction Efforts in County Departments and Community MSW Minimize Fugitive Landfill Gas (LFG) Emissions Across MSW Operations (begin)
Parks & Recreation	 Expand Green Spaces and Urban Tree Cover in DeKalb County (begin) Improve Park Resilience and Mitigation Potential (begin)
Streets	 Incentives for Non-Road Commuters Review DeKalb's Complete Streets Policy for carbon sequestration, EV charging, and micro-mobility opportunities County-Wide Urban Heat Island Effect (UHI) Mitigation Plan Update Streets Design Guidance for UHI Mitigation (begin)
Waste & Water	Promote Water Use Efficiency

MILESTONES 2030-2040

Sector	Milestones/Actions to be completed
Airport	Future Planning, Resilience, and Energy Transition Preparation
Buildings	 Invest in 'No-Regrets' Efficiency Improvements in Existing County Buildings Adopt Enhanced Energy Efficiency Requirements for New County Buildings Retrofit Existing Buildings to High Energy Efficiency Standards
Fleets	Infrastructure and Operations Expansion
Land Use	Clean Energy and Microgrid Zoning Incentives
Municipal Solid Waste	 Launch Organic Waste Collection and Composting for All Sanitation Customers Maximize Recycling of Concrete and Asphalt Aggregates in Public Works Projects Minimize Fugitive Landfill Gas (LFG) Emissions Across MSW Operations (complete)
Parks & Recreation	 Expand Green Spaces and Urban Tree Cover in DeKalb County (complete) Improve Park Resilience and Mitigation Potential (complete)
Streets	 County Active Transportation Master Plan Pilot Partnership for Use of Non-Road Utility Vehicles EV Charging Network Master Plan (implementation complete)
Waste & Water	 Monitor and Mitigate Fugitive Methane Emissions Optimize Energy Efficiency of Advanced Wastewater Treatment Plants (AWWTPs) Electrify and Modernize Equipment

MILESTONES 2040-2050

Sector	Milestones/Actions to be completed
Buildings	Acquire 100% Renewable Electricity and Ensure New Building Electrification
Fleets	Full Fleet Conversion to Zero-Emission Vehicles
Land Use	Integrate Carbon Mitigation into Unified Plan (implementation complete)
Municipal Solid Waste	Onsite Solar Generation at Seminole Rd. Landfill
Streets	Update Streets Design Guidance for UHI Mitigation (implementation complete)
Waste & Water	 Implement the Water and Wastewater Master Plan and Support Capital Improvement Plan Evaluate Sewer and Stormwater System Sufficiency under Climate Change Scenarios

TASK 10

DEVELOPMENT OF A CLEAR PROCESS WHEREBY THE COUNTY COMMISSION WILL RECEIVE UPDATES ON PROGRESS AND TAKE STEPS TO HIT BENCHMARKS

The proposed Sustainability Officer (Deputy COO) position will be responsible for reporting progress on benchmarks. In addition to benchmarks, the Sustainability Officer will provide updates on timelines and next steps as the Plan is implemented.

The Sustainability Officer (Deputy COO) should be independent from other Operations groups so as to provide cross-group benefits often found in sustainability practices. For example, operational savings from facility management provide budgetary benefits for the infrastructure group. Benchmarking, identifying, and tracking energy savings is best executed across groups.

Additionally, the Sustainability
Officer (Deputy COO) position, while
answerable to the CEO, should
avoid direct connections so as to
avoid losing momentum during
administration changes. Being part
of the permanent bureaucracy

is the best path to success in accomplishing the long-term goals of the Plan.

The following framework helps
DeKalb County promote the
evolution and continuum of
institutionalizing sustainability.
Additional positions, including
Energy Manager, Deputy
Sustainability Officers, and a cabinet
of department sustainability
directors and managers, will
constitute the Sustainability Office.

Four functions of a Sustainability Office and four phases of evolution frame this description. Activities range from elected officials, creation of a sustainability office, positions therewith, and funding of the work to developing community support and cultivating public expectations that sustainability initiatives will be sustained and expanded.²⁹

THE FOUR FUNCTIONS OF A SUSTAINABILITY OFFICE

1. Planning Government's Sustainability Initiatives

Develop vision, definition, cases, goals for sustainability, and the role of local government. Develop initiatives, plans, and budgets – within departments and across governments. Establish performance metrics, scoreboards, and progress reporting processes. Study other cities' sustainability efforts. Coordinate sustainability planning and goals across departments.

2. Developing a Government Culture of Sustainability

Engage employees in thinking and caring about sustainability and trying new behaviors. Conduct internal communications and education to promote a culture of sustainability. Embed sustainability goals and initiatives in employees' position

descriptions and performance evaluations.

3. Developing Community Support and Action

Communicate with the public and media about the sustainability vision and initial initiatives. Develop a website(s) with resources for sustainability actions. Partner with civic organizations to undertake community visioning processes and community-based sustainability education. Engage stakeholders and constituencies in developing plans and partnering with other governments on external initiatives. Engage leaders of communities in coordinating and collaborating. Develop a community-wide sustainability scoreboard. Support public outreach/education to increase community awareness of benefits.

4. Building Government's Structures for Sustainability

Create sustainability functions with staff and short-term funding. Build connections with outside experts and peers in other cities. Fundraise to support budget and staffing for sustainability initiative development. Create technical advisory groups. Create incentives (rewards, sanctions) for departments and agencies to achieve goals. Adopt a performance scoreboard for publicizing and monitoring. Create a governmentwide sustainability knowledge creation and innovation function. Coordinate among departments to achieve shared goals.



CLEAN ENERGY ACTIONS

DeKalb County's commitment to 100% clean energy community-wide by 2045 is a critical step toward reducing emissions, improving public health, boosting job creation, and reducing energy bills for all households. Based on the milestones presented in Task 9. DeKalb has the potential to provide 'green' local iobs for hundreds of individuals cumulatively by 2050. The Balanced scenario (located in the appendix) will generate hundreds of millions in net benefits. This includes tens of millions in public health savings and household bill savings. Choosing to shift to 100 percent clean and renewable energy in a short time span is not easy; however, DeKalb County is progressive in regard to climate change mitigation and community development. DeKalb had already made great strides toward achieving its clean and renewable energy goal before its initial decision to adopt this plan, including a region-leading clean fleet and landfill gas capture.

Ascertained from the creation of the Plan, The consultant team identified five Pillars of Progress that serve as core values for DeKalb County. These pillars are the main drivers for change and should be top of mind when implementing the recommended deliverables from the Plan.

The Pillars of Progress are:

- 1. Invest in Community
- 2. Sustain Sustainability
- 3. Manage Energy
- 4. Lead by Example
- 5. Data, data, data

Invest in Community

As described in the DeKalb Today section, DeKalb County has always recognized the significance of its residents. For this reason, DeKalb County has made clean energy commitments to ensure that DeKalb remains a thriving community. DeKalb County also recognizes that it is just as important that its residents are able to make similar clean energy investments within their own homes.

To do this, it is in DeKalb County's best interest to provide funding opportunities to its residents to invest in clean energy improvements. With the recommendation of a Sustainability Officer (Deputy COO) and an Energy Manager, DeKalb County could help finance some of these funding opportunities through energy cost savings. These funds are to help elevate some of the upfront capital costs for residents to invest in clean energy.

Along with energy savings, DeKalb can participate in a myriad of community investment programs to be able to provide more funding opportunities to residents. Below are a few examples with explanations following:

- PAYS™
- Solarize
- PACE

- PPA
- EV Charging
- Purchases
- Weatherization
- Energy Code
 Optimization
- Community
- Communit Solar

A Pay As You Save (PAYS™) program enables energy efficiency upgrades for utility customers without upfront costs. Customers pay for improvements with energy savings over time through their utility bills, leading to lower energy usage and savings for the customer.

The Property Assessed Clean Energy (PACE) financing model provides funding for energy efficiency and renewable energy projects by allowing property owners to repay the costs with their property tax bills. This mechanism facilitates access to upfront financing and allows repayment over multiple owners.

Another community investment that DeKalb County can make is investing in community electric vehicle (EV) charging. Installing publicly accessible EV charging infrastructure will allow residents who may not have access to an "athome" charger, an option to charge their vehicle. Also, this can give residents the confidence to purchase an EV because of the available and accessible public charging infrastructure.

DeKalb County can also make investments in weatherization. Educating residents of DeKalb County on the impact of weatherization can save residents hundreds or, in some cases, thousands of dollars annually. These home improvements can make a real difference in overall energy usage and can help the county achieve a GHG reduction in energy consumed.

Investing in solar energy is also essential for DeKalb County residents. Whether it is community solar or utilizing power purchase agreements (PPA), clean energy generation is a critical investment that DeKalb must

make for its residents. Assisting in the delivery of solar to households, Solarize programs have already proven successful. Solarize programs remove marketing costs and capitalize on bulk buying to drive solar installation.

Lastly, adopting more stringent energy code optimization requirements will ensure that new construction within the county will consume less energy, saving DeKalb County residents money.

Sustain Sustainability

DeKalb County understands that the clean energy investments they make today will impact generations of DeKalb residents to come. It is imperative that DeKalb County takes the necessary steps to ensure the longevity of the Plan. By instituting a Sustainability Officer (Deputy COO), DeKalb can take a concrete step to ensure that the Plan remains a top priority. Though there are many responsibilities that the Sustainability Officer is responsible for, the goal of this position is to ensure departmental cross-cutting so that outcomes of the Plan are implemented. Understanding the complexities that come with County government, it is imperative that the outcomes of the Plan are woven. within the County government's operations.

Manage Energy

Not only is investing in clean energy generation important for DeKalb County, but managing energy is critical to ensuring effective consumption of energy. In addition to the Sustainability Officer, an Energy Manager position is also imperative to the County's sustainability commitments. Managing energy usage across

County facilities will allow the County to better understand its energy usage and identify areas where the County is overconsuming. By doing this, this can lead to large energy savings. This then can be reinvested to provide clean energy incentives for the residents of DeKalb.

Lead by Example

Leading by example is critical to ensuring continued investment by DeKalb County residents. By investing in clean energy pathways now, DeKalb's investments become resources to the community. Understanding DeKalb County's impact on various stakeholders, the consultant team has outlined initial goals that DeKalb can reasonably achieve in a short horizon to lead by example.

- By 2026, DeKalb County can set up a Sustainability Office staffed by a Sustainability Officer (Deputy COO) and Energy Manager.
- By 2030, DeKalb County can commit to a 30% reduction in energy consumption in the county portfolio of buildings.
- By 2026, DeKalb County can install Electric Vehicle (EV) Chargers in all proposed locations.
- By 2025, DeKalb can set aside sufficient funding to capture IRA funding for a goal of 50% Clean Energy for County Operations.

Data, Data, Data

All the outcomes from the Plan will help lead DeKalb to a clean energy future, but to ensure that the County is progressing, there is a large need for accurate data. In today's world, data drives change. DeKalb must ensure that all data related to the Plan is accurate, trackable, measurable, and secure. In order to make real and effective change, DeKalb must make investments to strengthen its data.

Energy data tracking tools like ICLEI and Energy Star Portfolio Manager are two tools that DeKalb County should consider to effectively track its data. Regardless of the tool chosen, regular data tracking is essential for effective decision-making.

Final Thoughts

DeKalb County has a real opportunity to forge its path in the global fight against climate change. The decisions that DeKalb County makes today will impact generations to come. It is essential that DeKalb County understands its role in the fight against the climate crisis and takes steps to address it, not only for the County but for the people that call DeKalb "home."

INDEX

- 1. DeKalb History Center. (2024, March 12). County history: DeKalb County, Georgia. DeKalb History Center. https://DeKalbhistory.org/exhibits-DeKalb-history-center-museum/DeKalb-county-history/
- 2. Yang, Y. (1970, January 1). Refugee resettlement in the most diverse square mile in America: A study of Clarkston, Georgia. DASH Home. https://dash.harvard.edu/handle/1/37365058
- 3. Bernstein, A. S., Sun, S., Weinberger, K. R., Spangler, K. R., Sheffield, P. E., & Wellenius, G. A. (2022). Warm Season and Emergency Department Visits to U.S. Children's Hospitals. Environmental Health Perspectives, 130(1). https://doi.org/10.1289/ehp8083
- 4. United States Environmental Protection Agency. (2019, May 22). Reduce Urban Heat Island Effect. US EPA. https://www.epa.gov/green-infrastructure/reduce-urban-heat-island-effect
- 5. US EPA, O. (2016, July 1). Climate Change Indicators: Heat-Related Illnesses. US EPA. https://www.epa.gov/climate-indicators/heat-related-illnesses
- 6. Office of Energy Efficiency and Renewable Energy. Low-Income Community Energy Solutions. Energy.gov. Retrieved May 24, 2022 from https://www.energy.gov/eere/slsc/low-income-community-energy-solutions
- 7. Tourjée, D. (2016, September 6). The Cost of High Utility Bills Is Mental Health. Vice. https://www.vice.com/en/article/8x44p4/the-cost-of-high-utility-bills-is-mental-health
- 8. Hicke, J.A., S. Lucatello, L.D., Mortsch, J.Dawson, M. Domínguez Aguilar, C.A.F.Enquist, E.A. Gilmore, D.S. Gutzler, S.Harper, K. Holsman, E.B. Jewett, T.A. Kohler, and K. Miller, 2022: North America. In: Climate Change 2022: Impacts, Adaptation, and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [H.-O.Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M.Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press. In Press.
- 9. Smith, M. (2022). RFP no. 22-500610 For Clean Energy Transportation Transition Plan. https://www.DeKalbcountyga.gov/sites/default/files/RFP%2022-500610%20-%20 Clean%20Energy%20Transportation%20Transition%20Plan%20%28cc%29.pdf
- 10. US Census. (n.d.). Explore Census Data. Data.census.gov. https://data.census.gov/profile/DeKalb_County
- 11. Drehobl, A., & Ross, L. (2016, April 20). Lifting the High Energy Burden in America's Largest Cities: How Energy Efficiency Can Improve Low-Income and Underserved Communities | ACEEE. Www.aceee.org. http://www.aceee.org/research-report/u1602
- 12. Davis, L. (2012, November 26). Renting Inefficiency. Energy Institute Blog. https://energyathaas.wordpress.com/2012/11/26/renting-inefficiency/
- 13. Rothstein, R. 2017. The Color of Law: A Forgotten History of How Our Government Segregated America. Liveright Publishing.
- 14. Matasci, S. (2019, January 4). How solar panel cost and efficiency have changed over time. Solar News; EnergySage. https://news.energysage.com/solar-panel-efficiency-cost-over-time/

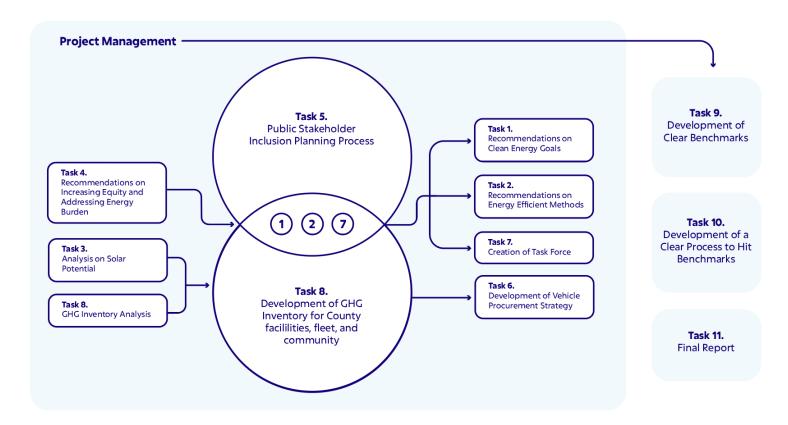
- 15. Energy STAR Portfolio Manager. (2021). Building Performance Standards: Overview for State and Local Decision Makers [Fact Sheet]. https://www.epa.gov/
- 16. Georgia Power Company. (2020). Renewable and Nonrenewable Tariff Schedule. https://www.georgiapower.com/content/dam/georgia-power/pdfs/residential-pdfs/residential-rate-plans/RNR-10-1.pdf
- 17. Utility franchise fees. Institute for Local Self-Reliance. (2020, June 25). Retrieved June 21, 2022, from https://ilsr.org/energy/utility-franchise-fees/
- 18. City of Decatur. (2022, April 18). Clean Energy Decatur. Clean Energy Decatur. https://cleanenergydecatur.com/
- 19. US Congress. (2021, September 27). Text H.R.5376 117th Congress (2021-2022): Build Back Better Act. Www.congress.gov. https://www.congress.gov/bill/117th-congress/house-bill/5376/text
- 20. DeKalb County GIS. (n.d.-c). Story Map Tour. DeKalbgis.maps.arcgis.com. Retrieved August 2, 2024, from https://DeKalbgis.maps.arcgis.com/apps/MapTour/index. html?appid=cc3c5e9bd8f547a4b8b168e16998500e
- 21. DeKalb County GIS. (n.d.-b). Site Selector... Gis.DeKalbcountyga.gov. Retrieved August 2, 2024, from https://gis.DeKalbcountyga.gov/siteselector/
- 22. DeKalb County GIS. (n.d.-a). ArcGIS Web Application. DeKalbgis.maps.arcgis.com. https://DeKalbgis.maps.arcgis.com/apps/webappviewer/index.html?id=f241af753f414cdfa31c1fdef0924584
- 23. Georgia Power. (n.d.). By The Numbers. Www.georgiapower.com. https://www.georgiapower.com/company/about-us/facts-and-financials.html
- 24. Developing a new framework for household affordability. (n.d.). https://www.awwa.org/Portals/0/AWWA/Government/DevelopingNewFrameworkForAffordabilityReport.pdf
- 25. Zhao, N. (2023, February 7). Age of Housing Stock by State. Eyeonhousing.org. https://eyeonhousing.org/2023/02/age-of-housing-stock-by-state-4/#:~:text=Aging%20Housing%20Stock-
- 26. DeKalb 2050 Unified Plan. (n.d.). RECENT DEVELOPMENT ACTIVITY. https://www.DeKalbcountyga. gov/sites/default/files/2022-07/Pages%20from%20DeKalb%20Existing%20Conditions%20and%20 Needs%20Assessment_Part2.pdf
- 27. United States Environmental Protection Agency. (2023, April 11). Inventory of U.S. Greenhouse Gas Emissions and Sinks | US EPA. US EPA. https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks
- 28. Atlanta Baseline Nationwide Mobility. (2020). Atlanta Mobility Survey. ALG Research
- 29. USDN. (n.d.-b). https://www.usdn.org/uploads/cms/documents/usdn_innovation_report-civic_tech-1-2016.pdf

APPENDIX

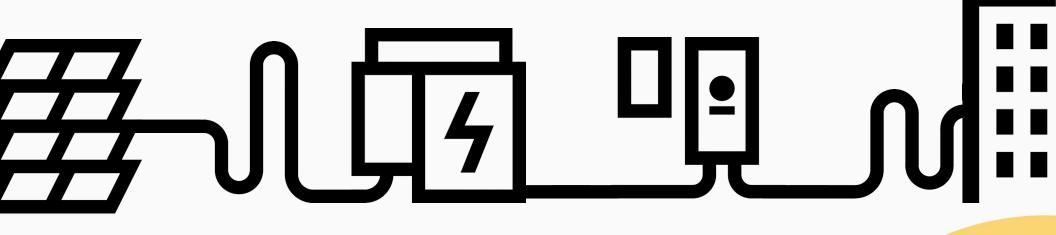
TABLE OF CONTENTS

60	DeKalb Clean Energy Transportation Transition Plan Project Relationship Diagram
61	Cherry Street Energy Slide Deck Progress Update
71	DeKalb Bill Summary
102	Preliminary Community Event Timeline
103	Community Climate Champions
106	DeKalb Clean Energy Transportation Transition Plan Kickoff Slide Deck
124	DeKalb Clean Energy Transportation Transition Plan Community Event 1 Slide Deck
174	DeKalb Clean Energy Transportation Transition Plan Community Event 2 Slide Deck
227	DeKalb Clean Energy Transportation Transition Plan Community Event 3 Slide Deck
265	DeKalb Clean Energy Transportation Transition Plan Community Event 4 Slide Deck
319	DeKalb Clean Energy Plan Community EV Charging
340	DeKalb County Community Charging EV Locations
341	DeKalb Climate Task Force Implementation Chart
342	DeKalb Clean Energy & Transportation Plan GHG Inventory Slide Deck
356	DeKalb County 2022 Emissions by Sector Slide Deck
368	Clean Energy Scenario A: Cost Optimization
393	Clean Energy Scenario B: Emissions Mitigation
429	Clean Energy Scenario C: Balanced Approach
467	DeKalb County Emissions Tool Yearly
468	DeKalb County Emission Tool Monthly
475	Total Monthly Electricity Consumption per Sector
477	GHG Emission Factors – DeKalb County
483	DeKalb County Action Inventory
504	Clean Energy DeKalb Website
509	Response to Board of Commissioners Central Staff Feedback
518	Response to Planning & Sustainability Departmental Feedback
522	DeKalb County Library Transition Plan 3.0

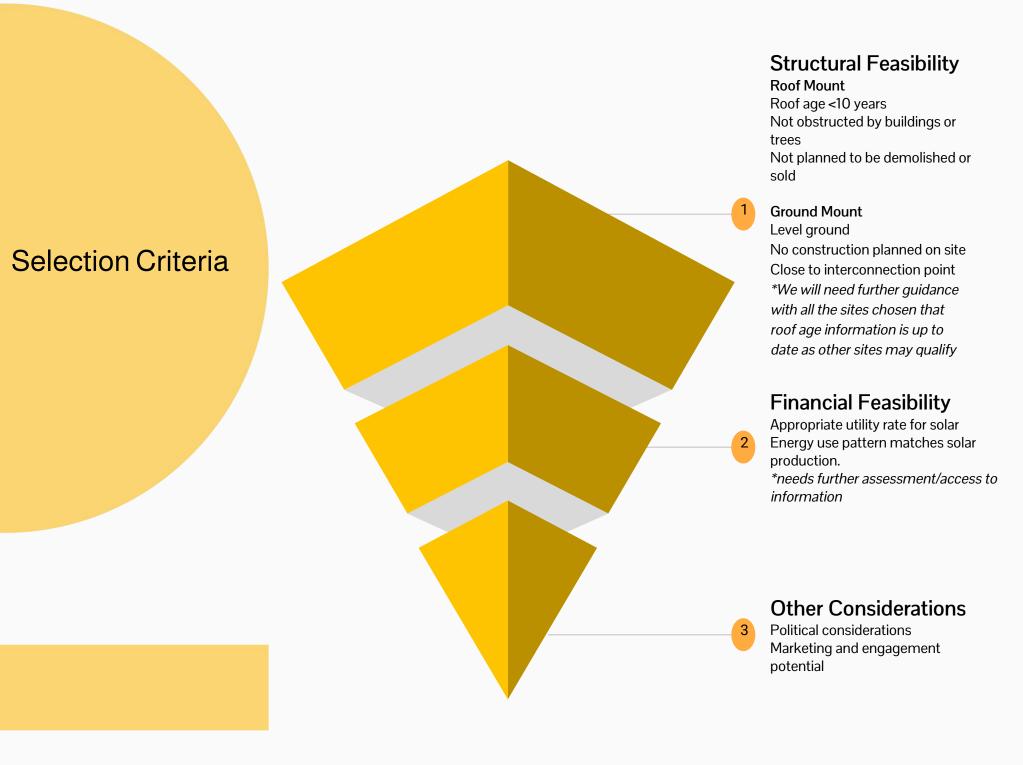
PROJECT RELATIONSHIP DIAGRAM



Cherry Street Energy



Supporting your transition to renewable energy.



Dekalb's Goal

100% Clean Energy Plan

- 100% Renewable Energy By 2045 Community Wide

Breaking down energy use.

Dekalb County Government's energy usage is a mixture of gas, oil, nuclear, coal, and renewable sources. Those sources account for 9% of the mix.

	MWs	% Renewable Energy Mix
Current Renewable Energy Mix	10.45	9%
50% County Wide by 2025	58.04	50%
100% County Wide by 2035	116.09	100%

Current Energy

Mix

This information is sourced from the energy portfolio mix from Georgia Powers Facts & This information is sourced from the energy portfolio mix from <u>Georgia Powers Facts &</u>
<u>Figures</u> as a representative sample of the energy make-up for Dekalb. More information will be needed from Dekalb regarding existing on-site solar generation throught Dekalb County government and list of sites not on the GPC energy infrastructure.

Government-wide power usage (2019)

Energy Consumption

County Department	Total (kWhs)
Administrative	21,544,769
DCG	34,908,798
Fire Stations	8,985,944
Parks	3,284,031
Airport	966,676
Police	19,650,002
Sanitation	1,726,600
Senior Centers	2,355,631
Watersheds	74,900,800
Total	168,323,251

Addressable Capacity

Dekalb County's total solar power capacity.

Cherry Street's analysis has determined that Dekalb County has an incredible opportunity to meet its renewable energy goal through incorporating solar power.

The county can generate nearly 17,000 kW (DC) of on-site, clean energy through solar power.

This can amount to 15% of the overall renewable energy needed to meet the 100% clean energy goal.

Potential Sites

Site Locations	Solar Capacity (kW DC)	Site Locations	Solar Capacity (kW DC)
Polebridge WWT	6920	Sanitation Central Admin	232
Scott Candler Filter Plant	2860	Workforce Development	231
Court House	940	Watershed Management	220
Tax Commissioner (North)	760	Lou Walker Senior Center	214
Animal Services	605	T.O. Vinson Health Center	165
Sheriff's Department	548	Avis G. Williams Library	137
Tax Commissioner - (South)	433	East Dekalb Health Center	130
South Precinct	360	Public Library Processing	125
178 Sams Street	299	Redan Recreation Center	125
Dunwoody Library	238	Treasury & Accounting	121



These figures assumes a Hanwha, Q.Peak Duo XL-G10.3/BFG 475W panel is used for construction.

Potential Sites Cont.

Site Locations	Solar Capacity (kW DC)	Site Locations	Solar Capacity (kW DC)
Tucker-Reid H. Cofer Library	102	Dekalb-Atlanta Senior Center	61
Bruce Street Senior Center	95	Medical Examiner	61
North Dekalb Health Center	94	Mason Mill	54
North Dekalb Senior Center	87	Tucker Precinct	48
Salem-Panola Library	86	Tax Commissioners - North Office	45
Exchange Recreation Center	84	Central Dekalb Senior Center	38
Hairston Crossing Library	79	Roads & Drainage	38
East Precinct	73	NH Scott Recreation Center	37
Gresham Recreation Center	68	Chamblee Library	35
South Dekalb Senior Center	63		

These figures assumes a Hanwha, Q.Peak Duo XL-G10.3/BFG 475W panel is used for construction.

Thank you! Keep On ShiningTM

Sources

- Dekalb GA County Facilities Map:
 - https://dekalbgis.maps.arcgis.com/apps/MapTour/index.html
 ?appid=cc3c5e9bd8f547a4b8b168e16998500e
- Select Dekalb Site Selector
 - https://gis.dekalbcountyga.gov/siteselector/
- Dekalb County Parcel Viewer
 - https://dekalbgis.maps.arcgis.com/apps/webappviewer/index.html?id=f241af753f414cdfa31c1fdef0924584







		Watershred - Blue	SUMMARY BILL																		
		Sanitation - Yellow	GEORGIA POWER COMPANY																		
		Jail - Grey	SUMMARY BILL	ELECTRONIC SPREADSHEET																	
		Other - White																			
		Police Headquarters & Public Safety/Courts - Light Blue																			
	SB ACCT-NO	Airport - Accent Blue	SB ACCOUNT NAME	INVOICE DATE	DUE DATE	TOTAL BILL															
	3667546002	Parks & Recreation - Green	DEKALB COUNTY GOVERNMENT	1/16/2019	1/31/2019	\$ 1,410,631.86															
		Fire Station & Headquarters - Pink	1300 COMMERCE DR																		
		Roads & Drainage/Traffic - Gold																			
		Senior Center - Dark Blue	ACCTNG SVCS/ROBIN MCKNIGHT																		$\overline{}$
		Health Center - Light Green																			
		Administration Orango	DECATUR GA 30030																		
		FLEET MAINTENANCE - Purple	DECATOR GA 30030																		$\overline{}$
SEQ	ACCT-NO	ACCT-ID	NAME-1	DOING BUSINESS AS	ADDRESS LINE 1	ADDRESS LINE 2	ADDRESS LINE 3	ADDRESS LINE 4	4	DILL DATE	DDEV DAI (TIPPENT DUE	TOT AMT DUE	DATE N	ETED# C	ERV. FROM SERVICE TO	DDEV DEADING	CURRENT READING	METER CONSTANT	NAM	ACTUAL KW BILL KW
SEQ	ACC1-NO	Watershred - Blue	IVAIVIE-1	DOING BUSINESS AS	ADDRESS LINE 1	ADDRESS LINE 2	ADDRESS LINE S	ADDRESS LINE 4	• .	DILL-DATE	PREV. DAL.	URKENI DUE	IOI-AIVII DUE	NAIE IV	EIER# 3	ERV. PROIVI SERVICE II	PREV. READING	CORRENT READING	IVIETER CONSTAINT	KWII	ACTUAL KW BILL KW
11	4051248003	PRESS MON #5	DEKALB COUNTY GOVERNMENT	PRESSURE MONITOR 5	5900 PEACHTREE INDUSTRL BLVD			CHAMBLEE (GA 30341 1	1/10/2019		225.62	225.62	00.0	-	12/8/2018 1/10/2019	49314	50586		1272	
229	3914758001	ELEV TANK	DEKALB COUNTY GOVERNMENT	PRESSURE MUNITUR'S	1127 W HOWARD AVE UNIT 8021						0 \$	23.03				2/12/2018 1/14/2019		3651	1	13	0 0
				PRESSURE MANUTOR						1/16/2019	0 \$								1		
94	0198618030	PRESSURE MONITO	DEKALB COUNTY GOVERNMENT		3669 MORELAND AVE					1/4/2019	0 9	73.53		GS-I		12/4/2018 1/4/2019		53550	1	350	0 0
307	1277784005	BOOSTER STATION	DEKALB COUNTY GOVERNMENT	BOOSTER STATION	3742 MIDVALE RD					2/28/2018	0 \$	1,767.85				1/27/2018 12/27/201		50135	40	11120	84 79
478	3225745007	ELEVATED TANK	DEKALB COUNTY GOVERNMENT	ELEVATED TANK	3250 COVINGTON HWY	UNIT 8021				2/17/2018	0 \$	176.37				1/15/2018 12/17/201		43248	1	993	0 0
497	3372756032	DeKalb CO. Watershed Mgt. CIP (Lease)	DEKALB COUNTY GOVERNMENT		4572 MEMORIAL DR					2/18/2018	0 \$	2,798.99				1/15/2018 12/17/201		4064	160	18400	51 91
30	6359840016	WATER TOWER	DEKALB COUNTY GOVERNMENT	FIRE STATION 26	2522 MCAFEE RD UNIT 8021					2/21/2018	0 \$	113.86				1/21/2018 12/21/201		61612	1	610	0 0
213	7193776007	ELEVATED TANK	DEKALB COUNTY GOVERNMENT	ELEVATED TANK	1901 MASON MILL RD	UNIT 8021		DECATUR G	GA 30033	1/3/2019	0 \$	53.85		GS-I 5	732352	12/3/2018 1/3/2019	56780	57004	1	224	0 0
259	0003404000	DeKalb County Water & Sewer Plant	DEKALB COUNTY GOVERNMENT		4124 FLAKES MILL RD			DECATUR G	GA 30034 1	2/28/2018	0 \$	8.97	8.97	OL GOVT	1	1/28/2018 12/28/201	8				
260	0003408606	DeKalb County Water & Sewer Plant	DEKALB COUNTY GOVERNMENT		4124 FLAKES MILL RD	UNIT MAIN		DECATUR G	SA 30034 1	2/28/2018	0 \$	93,634.70		RTDPLLI E	32686 1	1/28/2018 12/27/201	8 0	0	1	1734427	2995 1000
446	2966836002	PUMP STATION	DEKALB COUNTY GOVERNMENT	PUMP STATION	3537 WESLEY CHAPEL RD			DECATUR G	SA 30034 1	1/11/2019	0 \$	2,054.20	2,054.20	TOUGSDI 3	536925	2/10/2018 1/10/2019	19417	19430	160	2080	259 259
78	0463272013	PRESSURE MON 10	DEKALB COUNTY GOVERNMENT		5400 COVINGTON HWY					1/9/2019	0 0	73.71	,			12/7/2018 1/9/2019		50050	1	350	0 0
171	0003390403	DeKalb County Water & Sewer Plant	DEKALB COUNTY GOVERNMENT		2746 LAURELWOOD DR; LIGHTING					2/28/2018	0 0	1,035.75				1/28/2018 12/28/201	8				
251	5538487003	PRESS MON 15	DEKALB COUNTY GOVERNMENT	PRESSURE MONITOR 15	3588 OAKCLIFF RD					1/9/2019	0 9	370.32				12/7/2018 1/9/2019	44777	46049	1	1272	0 0
251	0003382401	DeKalb County Water & Sewer Plant	DEKALB COUNTY GOVERNMENT	FILESONE WOMITON 15	4830 WINTERS CHAPEL RD					1/2/2019	0 5		370.32			12/1/2018 1/9/2019		40049	1	3046977	5082 4576
											0 \$								1		
258	0202907033	DeKalb County Water & Sewer Plant	DEKALB COUNTY GOVERNMENT	-	4826 WINTERS CHAP RD					1/10/2019	0 9	23.09				12/6/2018 1/9/2019		36158	1	17	0 0
300	1851211054	LIGHTING	DEKALB COUNTY GOVERNMENT	LIGHTING	4901 WINTERS CHAPEL RD				GA 30360 1	2/28/2018	0 \$	174.36		OL GOVT		1/28/2018 12/28/201					
338	2746237018	DeKalb County Water & Sewer Plant	DEKALB COUNTY GOVERNMENT		0 LAURELWOOD RD					2/28/2018	0 \$	16.33		OL GOVT		1/28/2018 12/28/201					
343	8555776002	PUMP STATION	DEKALB COUNTY GOVERNMENT	PUMP STATION	0 WINTERS CHAPEL UNIT 8021			DORAVILLE (GA 30360 1	1/10/2019	0 \$	251.86	251.86	GS-I		12/8/2018 1/10/2019	67923	69383	1	1460	0 0
345	9327806001	DeKalb County Water & Sewer Plant	DEKALB COUNTY GOVERNMENT		4830 WINTERS CHAPEL RD			DORAVILLE (GA 30360	1/3/2019	0 \$	27.39	27.39	OLUNR		12/3/2018 1/3/2019					
12	0311411006	PRESSURE MONITO	DEKALB COUNTY GOVERNMENT	PRESSURE MONITOR	8200 MALL PKWY			LITHONIA G	3A 30038 1	2/17/2018	0 \$	73.37	73.37	GS-I	1	1/15/2018 12/17/201	8 53072	53422	1	350	0 0
28	0525597022	PRESSURE MONITO	DEKALB COUNTY GOVERNMENT	PRESSURE MONITOR	3316 SNAPFINGER RD			LITHONIA G	SA 30038	1/7/2019	0 9	73.63	73.63	GS-I		12/5/2018 1/7/2019	53200	53550	1	350	0 0
62	2703461010	PUMP STATION	DEKALB COUNTY GOVERNMENT	PUMP STATION	4674 BRANDI BAY				SA 30038	1/7/2019	0 9	380.43				12/5/2018 1/7/2019		85191	1	3524	15 0
114	5303479035	PUMP STATION	DEKALB COLINTY GOVERNMENT	PLIMP STATION	5396 BEECHWOOD FOREST DR					2/28/2018	0 9	393.99				1/27/2018 12/27/201		11003	1	2222	7 19
	6923814006		DEKALB COUNTY GOVERNMENT		3800 BIG MILLER GROVE WAY					-,,	0 7	73.45							-	350	
118		PRESSURE MON #6		PRESSURE MUNITUR 6						1/2/2019	0 \$					1/30/2018 1/2/2019		53550	1		0 0
133	0003402104	DeKalb County Water & Sewer Plant	DEKALB COUNTY GOVERNMENT		4664 FLAT BRIDGE RD					1/2/2019	0 \$	54,302.42				12/1/2018 12/31/201	8 0	0	1	1001452	1801 637
137	0003405203	LIGHTING	DEKALB COUNTY GOVERNMENT	LIGHTING	4664 FLAT BRIDGE RD				SA 30058 1	2/28/2018	0 9	51.38		OL GOVT		1/28/2018 12/28/201	8				
149	0869607018	STORAGE TANK	DEKALB COUNTY GOVERNMENT	STORAGE TANK	6670 PARKWAY DR				GA 30058 1	1/11/2019	0 \$	5,586.49				12/9/2018 1/11/2019		38174	80	43680	214 176
187	2607737031	PUMP	DEKALB COUNTY GOVERNMENT	PUMP	6203 WINDY RIDGE TRL					1/16/2019	0 \$	199.98				2/13/2018 1/15/2019		95635	1	1154	0 0
219	3204321007	PRESS MON #2	DEKALB COUNTY GOVERNMENT	PRESSURE MONITOR 2	2826 EVANS MILL RD			LITHONIA G	3A 30058 1	2/17/2018	0 \$	74.71		GS-I		1/15/2018 12/17/201		49000	1	350	0 0
220	3204892010	PUMP STATION	DEKALB COUNTY GOVERNMENT	PUMP STATION	2475 OAKLEAF CIR			LITHONIA G	GA 30058 1	1/15/2019	0 \$	151.99	151.99	GS-I 3	174698	2/12/2018 1/14/2019	42890	43721	1	831	0 0
252	4670825022	PUMP STATION	DEKALB COUNTY GOVERNMENT	PUMP STATION	1300 GREEN RIDGE AVE			LITHONIA G	3A 30058 1	1/11/2019	0 \$	220.01	220.01	GS-I 3	123697	12/9/2018 1/10/2019	6095	7380	1	1285	0 0
257	4834799007	LCC 2 LIFT	DEKALB COUNTY GOVERNMENT	LCC 2 LIFT	1485 ROCK CHAPEL RD			LITHONIA G	GA 30058 1	1/16/2019	0 9	6.113.66	6.113.66	TOUGSDC 3	149118 1	2/13/2018 1/16/2019	55459	56108	120	77880	192 192
308	6451799005	LCC 3 UFT	DEKALB COUNTY GOVERNMENT	LCC 3 LIFT	7120 MADDOX RD			LITHONIA G	GA 30058 1	1/16/2019	0 9	6.843.71				2/13/2018 1/16/2019		56159	120	87600	210 210
421	7190843001	COMM TOWER	DEKALB COUNTY GOVERNMENT		6112 MYSTERY VALLEY LN			LITHONIA G	SA 30058 1	1/11/2019	0 9	407.73	407.73	PIS.C 1	886108	12/9/2018 1/10/2019	75364	79108	1	3744	6 9
428	8320797008	LCC1 LIFT	DEKALB COUNTY GOVERNMENT	LCC1 LIFT	7364 DRAKE AVE					1/16/2019	0 9	5.666.63				2/14/2018 1/16/2019		8220	120	68760	216 216
487	0054868003	PUMP STATION	DEKALB COUNTY GOVERNMENT	PLIMP STATION	6826 MEMORIAL DR			STONE MOUNTAIN		2/19/2018	0 0	723.34				1/18/2018 12/18/201		9059	40	4240	
105			DEKALB COUNTY GOVERNMENT					STONE MOUNTAIN		2/19/2018	0 7	74.64		GS-C					40		28 26 0 0
	0861520032	PRESSURE MON 7			405 N HAIRSTON RD					, , , , , ,	0 \$					1/19/2018 12/19/201		49700	1	350	
244	1261775018	PUMP STATION	DEKALB COUNTY GOVERNMENT	PUMP STATION	1391 JULIETTE RD			STONE MOUNTAIN		2/21/2018	0 \$	231.19				1/20/2018 12/20/201		88881	1	1364	0 0
293	1779049027	PUMP STATION	DEKALB COUNTY GOVERNMENT	PUMP STATION	1664 LEWIS WAY			STONE MOUNTAIN		2/21/2018	0 9	64.89				1/21/2018 12/20/201	8 4374	4662	1	288	0 0
319	4182753004	LIFT STATION	DEKALB COUNTY GOVERNMENT	LIFT STATION	1313 STONE MILL WAY			STONE MOUNTAIN			0 \$	235.74				1/20/2018 12/19/201		8541	1	1393	0 0
342	4243773000	BOOSTER STATION	DEKALB COUNTY GOVERNMENT	BOOSTER STATION	327 SAGEWOOD CIR UNIT 8021			STONE MOUNTAIN		2/26/2018	0 \$	22.06				1/20/2018 12/20/201		19346	1	0	0 0
365	4587837003	LIFT STATION	DEKALB COUNTY GOVERNMENT	LIFT STATION	1099 NEW GIBRALTAR SQ			STONE MOUNTAIN		2/17/2018	0 \$	217.51				1/14/2018 12/17/201	8 49818	51069	1	1251	0 0
374	5763837006	LIFT STATION	DEKALB COUNTY GOVERNMENT	Fourth St L S	930 FOURTH ST			STONE MOUNTAIN			0 \$	309.29				1/14/2018 12/17/201		62970	1	1830	0 0
391	5936764005	GUARD SHACK	DEKALB COUNTY GOVERNMENT	GUARD SHACK	1640 ROADHAVEN DR			STONE MOUNTAIN		2/21/2018	0 \$	134.15				1/21/2018 12/21/201		64311	1	726	0 0
96	7527739025	DeKalb County Watershed Management	DEKALB COUNTY GOVERNMENT		1640 ROADHAVEN DR			STONE MOUNTAIN	GA 30083 1	2/28/2018	0 \$	673.90	673.90	OLUNR	1	1/28/2018 12/28/201	8				
121	7959759004	DeKalb County Watershed Management	DEKALB COUNTY GOVERNMENT		1580 ROADHAVEN DR UNIT 8002			STONE MOUNTAIN	GA 30083 1	2/21/2018	0 \$	24.69				1/21/2018 12/21/201		9148	1	12	0 0
134	8063771002	ELEVATED TANK	DEKALB COUNTY GOVERNMENT	ELEVATED TANK	1750 STONE RIDGE DR	UNIT 8021		STONE MOUNTAIN	GA 30083 1	2/21/2018	0 0	231.31				1/20/2018 12/21/201		1154	1	2085	5 5
155	8735771005	ROADHAVEN COMPL	DEKALB COUNTY GOVERNMENT	 	1580 ROADHAVEN DR UNIT 8002			STONE MOUNTAIN		2/21/2018	0 9	7.370.38				1/20/2018 12/20/201		67140	160	81280	162 192
159	9239771020	DeKalb County Watershed Management	DEKALB COUNTY GOVERNMENT	The state of the s	1641 ROADHAVEN DR			STONE MOUNTAIN		2/21/2018	0 9	2.264.20				1/20/2018 12/20/201		54654	40	17640	45 63
160	2893581016	PUMP	DEKALB COUNTY GOVERNMENT	PUMP	565 DOVE LN			STONE MOUNTAIN			0 7	416.49				1/16/2018 12/18/201		25997	1	3545	10 10
241	7907652007	PRESSURE MON #6	DEKALB COUNTY GOVERNMENT		5057 HUGH HOWELL RD			STONE MOUNTAIN			0 3	74.71		GS-I		1/29/2018 12/31/201		52663	1	350	0 0
261	2633836005	LIFT STATION	DEKALB COUNTY GOVERNMENT	LIFT STATION	1300 PANOLA RD UNIT 8021			STONE MOUNTAIN		1/11/2019	0 5	7,122.06				12/9/2018 12/31/201		31462	160	55040	
											0 5	288.52				1/26/2018 1/10/2019			160		190 236 0 0
356	0643760016	LIFT STATION	DEKALB COUNTY GOVERNMENT	LIFT STATION	4375 LAWRENCEVILLE HWY					2/31/2018	0 \$							24917	1	1699	
386	1678774001	TUCKER PUMP STA	DEKALB COUNTY GOVERNMENT		4226 LAWRENCEVILLE HWY	UNIT 8021				2/27/2018	0 9	517.85				1/26/2018 12/26/201		9677	40	5280	40 40
453	9236783000	BOOSTER STATION	DEKALB COUNTY GOVERNMENT	BOOSTER STATION	2815 HENDERSON RD				A 30084 1	2/28/2018	0 \$	1,503.29				1/27/2018 12/27/201	8 1354	1506	60	9120	56 99
455	9468772008	BOOSTER STATION	DEKALB COUNTY GOVERNMENT	BOOSTER STATION	0 STEEL AT LAWREN UNIT 8021					2/26/2018	0 \$	-,0000				1/25/2018 12/25/201		63877	40	38160	54 61
111	4433836003	SALEM RD L S	DEKALB COUNTY GOVERNMENT	SALEM RD L S	5337 SALEM CT					2/31/2018	0 \$	262.96				1/27/2018 12/27/201		26935	1	1568	0 0
242	8661836002	PEPPERWOOD L S	DEKALB COUNTY GOVERNMENT		780 PEPPERWOOD TRL			STONE MOUNTAIN		2/17/2018	0 \$	372.20				1/14/2018 12/16/201		72921	1	2227	0 0
408	5584775007	CAMPCREEK L S	DEKALB COUNTY GOVERNMENT	CAMPCREEK L S	4877 LAWRENCEVILLE HWY			TUCKER G	SA 30084 1	2/27/2018	0 \$	88.99	88.99	GS-I 3	119080 1	1/26/2018 12/26/201	8 2380	2391	40	440	0 0
440	8333782002	LEEHAVEN L S	DEKALB COUNTY GOVERNMENT	LEEHAVEN L S	2610 OAK AVE			TUCKER G	SA 30084 1	2/27/2018	0 \$	205.63	205.63	GS-I 2	846374	1/27/2018 12/27/201	8 52834	54010	1	1176	0 0
		Sanitation - Yellow	SUMMARY BILL	ELECTRONIC SPREADSHEET																	
370	0003390109	Sanitation	DEKALB COUNTY GOVERNMENT	The second secon	2315 CHAMTUCKR RD			CHAMBLEE	GA 30341 1	2/28/2018	0 0	23.22	23.22	OL GOVT		1/28/2018 12/28/201	8				
375	0195331330	Sanitation	DEKALB COUNTY GOVERNMENT		2315 CHAMBLEE TUCKER RD			CHAMBLEE	GA 30341	1/9/2019	0 9	23.64	23.64	GS-C		12/7/2018 1/9/2019	1133	1153	1	20	0 0
232	1518782003	N LOT SAN	DEKALB COUNTY GOVERNMENT	N LOT SAN	2315 CHAMBLEE TUCKER RD	LINIT 1210		CHAMBLEE		1/7/2019		54.79				12/4/2018 1/7/2019		30700	1	217	0 0
					2315 CHANDLES TUCKER RD	ONT 1210		CHANGE	CA 20241	1/7/2019	- ,										
366	1539782003	N LOT SAN	DEKALB COUNTY GOVERNMENT	N LOT SAN	2315 CHAMBLEE TUCKER RD		ATTN: 140 HUIL	CHAMBLEE (GA 30341	1///2019	0 9	1,140.51		PLS-C 3				10984	40	12080	24 24
174	0386581004	Sanitation	DEKALB CTY SEMINOLE LANDFILL		3643 CAMP CIRCLE; BUILDING A		ATTN: MR. WILLIAM C. MALONE			2/31/2018		1,/03.57	1,703.57			1/29/2018 12/31/201					
236	1233158034	Sanitation	DEKALB COUNTY GOVERNMENT		3643 CAMP CIR			DECATUR G	SA 30032 1	2/19/2018	0 9	28.45	28.45	GS-C 7	647979	1/18/2018 12/19/201	8 1089	1147		58	0 0
7	4593674030	Sanitation	DEKALB COUNTY GOVERNMENT		3720 LEROY SCOTT DR			DECATUR G	SA 30032 1	2/19/2018	0 \$	5,107.97	5,107.97	PLM-C 3	504489 1	1/18/2018 12/18/201 1/18/2018 12/18/201	8 25276	26144	40	34720	280 267
14	5703128013	WELDING SHOP	DEKALB CO GOVT-SANITATION	WELDING SHOP SANITATION	799 CAMP RD			DECATUR G	SA 30032 1	2/19/2018	0 9	277.89	277.89	PLS-C 3	145892	1/18/2018 12/18/201	33672	36180	1	2508	11 6

22													
	6183254011	Sanitation	DEKALB COUNTY GOVERNMENT	3720 LEROY SCOTT DR			0 \$ 5,490.00		36783	38342 40	62360		133
271	0175752002	Sanitation	DEKALB COUNTY GOVERNMENT	1755 FAIRLAKE DR TRLR 4		DECATUR GA 30034 1/3/2019		\$ 485.29 PLS-C 5515458 12/2/2018 1/2/2019	41864	45689 1	3825	18	12
274	0291734042	Sanitation	DEKALB COUNTY GOVERNMENT	1755 FAIRLAKE DR TRLR 2		DECATUR GA 30034 1/3/2019			49318	53521 1	4203		13
285	0439984504	Sanitation	DEKALB COUNTY GOVERNMENT	1755 FAIRLAKE DR TRLR 3		DECATUR GA 30034 1/3/2019			57189	60770 1	3581		12
306	0687213038	Sanitation	DEKALB COUNTY GOVERNMENT	1755 FAIRLAKE DR TRLR 5		DECATUR GA 30034 1/3/2019	0 \$ 532.38	\$ 532.38 PLS-C 3157133 12/2/2018 1/2/2019	43103	47700 1	4597	19	11
353	0895522031	Sanitation	DEKALB COUNTY GOVERNMENT	1755 FAIRLAKE DR TRLR 1		DECATUR GA 30034 1/3/2019			51222	54771 1	3549		0
431	2643683141	Street Lights	DEKALB COUNTY GOVERNMENT	3714 RAINBOW DR			0 \$ 23.21	\$ 23.21 GS-C 7522077 12/3/2018 1/3/2019	4566	4589 1	23		0
48	6087697010	Sanitation	DEKALB COUNTY GOVERNMENT	1755 FAIRLAKE DR			0 \$ 696.83		33176	37155 1	3979	12	13
135	0003404608	Sanitation	DEKALB COUNTY GOVERNMENT	1750 ROGERS LAKE RD			0 \$ 108.15						
180	0993234021	Sanitation	DEKALB COUNTY GOVERNMENT	1750 ROGERS LAKE RD		LITHONIA GA 30058 12/18/2018			1126	1146 1	20		0
184	1359177013	Sanitation	DEKALB COUNTY GOVERNMENT	1750 ROGERS LAKE RD			0 \$ 23.09		1126	1146 1	20	0	0
303	8720799000	BUFORD SAN	DEKALB COUNTY GOVERNMENT	4600 BUFORD HWY UNIT 8110		CHAMBLEE GA 30341 1/7/2019	0 143.45	143.45 GS-C 1671738 12/4/2018 1/6/2019	63539	64305 1	766	0	0
317	8741799000	BUFORD SAN	DEKALB COUNTY GOVERNMENT	4600 BUFORD HWY UNIT 8110		CHAMBLEE GA 30341 1/7/2019			4284	4343 240	14160		0
443	8762799000	BUFORD SAN	DEKALB COUNTY GOVERNMENT	4600 BUFORD HWY UNIT 8110		CHAMBLEE GA 30341 1/8/2019	0 23.17	23.17 GS-C 1671737 12/4/2018 1/6/2019	9577	9583 1	6	0	0
		Jail - Grey											
64	0003407501	JAIL TOTALIZED	DEKALB COUNTY GOVERNMENT	JAIL TOTALIZED ACCT 4425 MEMORIAL DR		DECATUR GA 30032 12/28/2018	0 \$ 90,200.68	\$ 90,200.68 RTDPLLC VY2550 11/28/2018 12/27/2018	0	0 1	1235091	2106	1668
		Other - White											
SEQ	ACCT-NO	ACCT-ID	NAME-1	DOING BUSINESS AS ADDRESS LINE 1 ADDRESS LINE 2	ADDRESS LINE 3	ADDRESS LINE 4 BILL-DATE PRE		TOT-AMT DUE RATE METER # SERV. FROM SERVICE TO	-				
372	0111641037	PEDLIGHTS /Church's Chicken	DEKALB COUNTY GOVERNMENT	PEDLIGHTS 4995 BUFORD HWY			0 \$ 623.37	\$ 623.37 PLS-C 1671476 12/4/2018 1/6/2019	44897	51144 1	6247	13	13
390	1853992034	Shopping Center	DEKALB COUNTY GOVERNMENT	4795 BUFORD HWY		CHAMBLEE GA 30341 1/8/2019	0 \$ 634.36		17251	23763 1	6512	14	13
164	6999782013	SVC SIGN@FRONT ?	DEKALB COUNTY GOVERNMENT	SVC SIGN @ FRONT ENTRANCE 3915 CLAIRMONT RD UNIT 8210		CHAMBLEE GA 30341 1/4/2019	0 \$ 82.27	\$ 82.27 GS-C 1671652 12/3/2018 1/3/2019	97706	98094 1	388	0	0
466	9668781001	PERIMETER L S	DEKALB COUNTY GOVERNMENT	4182 DEACON LN			0 \$ 163.32		25848	26753 1	905	0	0
42	4718785001	Forty Oaks Nature Preserve	DEKALB COUNTY GOVERNMENT	3790 MARKET ST UNIT 6118			0 \$ 26.83			60094 1	140	0	0
43	6541408008	RESIDENTIAL	DEKALB COUNTY GOVERNMENT	1089 CASA DR UNIT 10		CLARKSTON GA 30021 12/18/2018	0 \$ 23.66		2931	2956 1	25	0	0
60	0003369300	Street Lights	DEKALB COUNTY GOVERNMENT	O RES ST LT TUCKER			0 \$ -	\$ - OL GOVT 11/28/2018 12/28/2018	1				-
100	0003404206	Street Lights	DEKALB COUNTY GOVERNMENT	O RES ST LTS S DKLB		DECATUR GA 30030 12/28/2018	0 \$ -	\$ - OL GOVT 11/28/2018 12/28/2018	1	+ + + + + + + + + + + + + + + + + + + +			+
110	0003359108	Street Lights	DEKALB COUNTY GOVERNMENT	0 HWYS AND INTERSECT			0 \$ 6,222.36		1				-
112	0003359206	Traffic Signal	DEKALB COUNTY GOVERNMENT	0 TRAFFIC SIG DECAT			0 \$ 860.36	\$ 860.36 TC 11/28/2018 12/28/2018	1	+ + + + + + + + + + + + + + + + + + + +			
132	0003359402	Street Lights	DEKALB COUNTY GOVERNMENT	0 DEKALB CO PARKS	_	DECATUR GA 30030 12/28/2018	0 \$ 2,468.98	\$ 2,468.98 OL GOVT 11/28/2018 12/28/2018	1	+ + + + + + + + + + + + + + + + + + + +			
166	0003359500	Street Lights	DEKALB COUNTY GOVERNMENT	0 RES ST LT DECATUR			0 \$ 422.01		-	+ + + + + + + + + + + + + + + + + + + +		-	
202	0003361500	Street Lights	DEKALB COUNTY GOVERNMENT	0 COURTHOUSE SQ	+		0 \$ 12.21	7 01-0011	1	+ + + + + + + + + + + + + + + + + + + +			
263	0003364707	Street Lights	DEKALB COUNTY GOVERNMENT	0 I 20 LIGHTS	-		0 \$ 10,860.76		-	+		-	
272	0003369202	Street Lights	DEKALB COUNTY GOVERNMENT	0 HW INTERSCT TUCKE	+		0 \$ 730.87	7 10001 00001	1	+			+
313	0003389802	Street Lights	DEKALB COUNTY GOVERNMENT	0 PKS AND REC N PERM		DECATUR GA 30030 12/28/2018	0 \$ 3,583.00		1	+			+
326	0003404304	Street Lights	DEKALB COUNTY GOVERNMENT	0 ENG ONLY S DKLB		DECATUR GA 30030 12/28/2018	0 \$ 751.69		-	+			+
334	0003404402	Street Lights	DEKALB COUNTY GOVERNMENT	0 HWY AND INSEC S DKL	-		0 \$ 15,924.39	\$ 15,924.39 OL GOVT 11/28/2018 12/28/2018	-	+			
385	0003404706	Street Lights	DEKALB COUNTY GOVERNMENT	0 PKS AND REC S DKLB		DECATUR GA 30030 12/28/2018	0 \$ 6,914.34		-	+			+
422	0003411407	Street Lights	DEKALB COUNTY GOVERNMENT	0 ENERGY ONLY TUCKE			0 \$ 638.95	7 00000 00000 00000 00000 00000	1				
477	0003411907	Street Lights	DEKALB COUNTY GOVERNMENT	O RES STLTS ST MTN		DECATUR GA 30030 12/28/2018	0 \$ 667.38	\$ 667.38 OL GOVT 11/28/2018 12/28/2018					
493	0291478030	RESIDENTIAL	DEKALB COUNTY GOVERNMENT	Medlock Place 2466 VIVIAN CIR			0 \$ 61.29		55758	56028 1	270	0	0
498	0507848222	Street Lights	DEKALB COUNTY GOVERNMENT	0 ROADWAY LIGHTING DEPT H&I		DECATUR GA 30030 12/28/2018	0 \$ 19,897.71						
398	0525899049	Street Lights	DEKALB COUNTY GOVERNMENT	0 ROADWAY LIGHTING DEPT SLD		DECATUR GA 30030 12/28/2018	0 \$ 353,633.43						
496	4183183033	Street Lights	DEKALB COUNTY GOVERNMENT	503 DEKALB INDUSTRIAL WAY			0 \$ 23.31			5303 1	145	0	0
131	5171282022	RESIDENTIAL	DEKALB COUNTY GOVERNMENT	2193 SCOTT BLVD		DECATUR GA 30030 12/27/2018	0 \$ 31.62			15678 1	78	0	0
245	9544746017	RESIDENTIAL	DEKALB COUNTY GOVERNMENT	330 CHURCH ST UPPR			0 \$ 1,315.07		16990	17087 80	7760	38	52
24	0003359304	Street Lights	DEKALB COUNTY GOVERNMENT	0 ENERGY ONLY DECAT		DECATUR GA 30031 12/28/2018	0 \$ 2,732.68	\$ 2,732.68 OL GOVT 11/28/2018 12/28/2018	<u> </u>				_
26	2019709303	RESIDENTIAL											
84			DEKALB COUNY GOVERNMENT	3511 SHERRYDALE LN UNIT			0 \$ -	\$ - TC 12/11/2018 1/12/2019					
120	0024015147	Street Lights	DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2		DECATUR GA 30032 1/12/2019	0 \$ 1,370.14	\$ 1,370.14 OL REG 12/11/2018 1/12/2019					
	0199580062	Street Lights Street Lights	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019	0 \$ 1,370.14 0 \$ 33.73	\$ 1,370.14 OL REG 12/11/2018 1/12/2019 \$ 33.73 GS-C 7538925 12/3/2018 1/3/2019	5290	5381 1	91	0	0
140	0199580062 0255936111	Street Lights Street Lights Street Lights	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42	\$ 1,370.14 OL REG 12/11/2018 1/12/2019 \$ 33.73 GS-C 7538925 12/3/2018 1/3/2019 \$ 1,703.42 OL REG 12/11/2018 1/12/2019	5290	5381 1	91	0	0
186	0199580062 0255936111 0408924176	Street Lights Street Lights	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43	\$ 1,370.14 OLREG 12/11/2018 1/12/2019 \$ 33.73 GS-C 7538925 12/3/2018 1/3/2019 \$ 1,703.42 OLREG 12/11/2018 1/12/2019 \$ 18443 OLUNR 12/13/2018 1/15/2019					0
186 193	0199580062 0255936111 0408924176 0414745029	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans?	DEKALB COUNTY GOVERNMENT	O MEMORIAL DR UNIT PH-2: 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/218/2018	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 4,113.34	\$ 1,370.14 OLREG 12/11/2018 1/12/2019 \$ 33.73 GS-C 7538925 12/3/2018 1/3/2019 \$ 1,703.42 OLREG 12/11/2018 1/12/2019 \$ 184.43 OLUNR 12/13/2018 1/15/2019 \$ 4,113.44 TOU-MB 3139095 11/15/2018 12/17/2018	5290 30472	5381 1 31431 60	91		0
186 193 205	0199580062 0255936111 0408924176 0414745029 0514529018	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights	DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS1B		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/12/18/2018 DECATUR GA 30032 1/12/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 4,113.34 0 \$ 1,333.11	\$ 1,370.14 OL REG 12/11/2018 1/12/2019 \$ 33.73 GS-C 7538925 12/3/2018 1/3/2019 \$ 1,703.42 OL REG 12/11/2018 1/12/2019 \$ 184.43 OLUNB 12/13/2018 1/15/2019 \$ 4,113.34 TOU-MB 3139095 11/15/2018 1/21/72018 \$ 1,333.11 OL REG 12/11/2018 1/12/2019					0
186 193 205 218	0199580062 0255936111 0408924176 0414745029 0514529018 0678243000	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans ? Street Lights LIGHTING	DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR UNIT PHS-1B 00 MEMORIAL DR UNIT PHS-1B LIGHTING 2363 CAMP CIR		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/2/28/2018	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 4,113.34 0 \$ 1,333.11 0 \$ 235.31	\$ 1,370.14 OL REG 12/11/2018 1/12/2019 \$ 33.73 GS-C 7538925 12/3/2018 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2019 \$ 1/3/2018 1/3/2019 \$ 1/3/2018 1/3/2019 \$ 1/3/2018 1/3/2019 \$ 1/3/2018 1/3/2019 \$ 1/3/2018 1/3/2019 \$ 1/3/2018 1/3/2019 \$ 1/3/2018 1/3/2019 \$ 1/3/2018 1/3/2019 \$ 1	30472				0
186 193 205 218 433	0199580062 0255936111 0408924176 0414745029 0514529018 0678243000 1788901165	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights	DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR 10 MEMORIAL DR 2863 CAMP CIR 00 MEMORIAL DR UNIT PHS.18 LIGHTING 2863 CAMP CIR 00 CANDLER RD		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/2/28/2018 DECATUR GA 30032 1/2/28/2018 DECATUR GA 30032 1/2/28/2018	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 4,113.34 0 \$ 1,333.11 0 \$ 235.31 0 \$ 1,903.98	\$ 1,370.14 OL REG 12/11/2018 1/12/2019 \$ 33.73 GS-C 7538925 12/3/2018 1/12/2019 1/12/2019 1/12/2019 1/12/2019 1/12/2019 1/12/2019 1/12/2019 1/12/2019 1/12/2019 1/12/2019 1/15/2	30472	31431 60	57540		0
186 193 205 218 433 441	0199580062 0255936111 0408924176 0414745029 0514529018 0678243000 1788901165 1839076015	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrane? Street Lights LIGHTING Street Lights Buena Vitat Lake	DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS1B LIGHTING 2363 CAMP CIR 00 CANDLER RD 2300 MCAFER RD		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/12/2018 DECATUR GA 30032 1/2/28/2018 DECATUR GA 30032 1/2/2/2018 DECATUR GA 30032 1/2/2/2018 DECATUR GA 30032 1/2/2/2018	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 4,113.34 0 \$ 1,333.11 0 \$ 235.31 0 \$ 1,903.98 0 \$ 242.38	\$ 1,370.14 OL REG 12/11/2018 1/12/2019 \$ \$ 33.73 GS-C 7538925 12/3/2018 1/3/2019 \$ \$ 1,703.42 OL REG 12/11/2018 1/3/2019 \$ \$ 1,84.43 OLUNR 12/13/2018 1/12/2019 \$ \$ 4,113.41 TOU-MB 3139095 11/3/2018 1/15/2019 \$ \$ 1,333.11 OL REG 12/11/2018 1/12/2019 \$ \$ 2,255.31 OL GOVT 11/28/2018 1/28/2018 1/28/2018 \$ \$ 1,903.98 OL GOVT 11/27/2018 1/27/2018 \$ \$ 2,423.8 PLS-C 2809397 11/20/2018 12/20/2018	30472 30472 3 12075	31431 60 14352 1	57540	252	5
186 193 205 218 433 441 444	0199580062 0255936111 0408924176 0414745029 0514529018 0678243000 1788901165 1839076015 1893486051	Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LUGHTING Street Lights Buena Vista Lake Street Lights	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 F.A.T SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS1B 2363 CAMP CIR 00 CANDLER RD 2300 MCAFEE RD 655 CAMP RD		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/2/18/2019 DECATUR GA 30032 1/2/18/2019 DECATUR GA 30032 1/2/27/2018	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 4,113.34 0 \$ 1,333.11 0 \$ 235.31 0 \$ 1,903.98 0 \$ 242.38 0 \$ 311.18	\$ 1,370.14 OLREG 12/11/2018 1/12/2019 \$ \$ 1,703.42 OLREG 12/11/2018 1/12/2019 \$ \$ 1,703.42 OLREG 12/11/2018 1/12/2019 \$ \$ 184.43 OLUNR 12/13/2018 1/15/2019 \$ \$ 1,133.11 OLREG 13/11/2018 1/15/2019 \$ \$ 1,333.11 OLREG 13/11/2018 1/12/2018 1/15/2018 \$ \$ 1,333.11 OLREG 13/11/2018 1/12/2018 1/12/2018 \$ \$ 1,903.98 OLGOVT 11/12/8/2018 12/20/2018 \$ \$ 1,903.98 OLGOVT 11/27/2018 12/20/2018 12/20/2018 12/20/2018 \$ \$ 1,903.98 OLGOVT 11/27/2018 12/20/2018 12	30472 30472 1 12075 42806	31431 60 14352 1 44651 1	57540 57540 2277 1845		5 0
186 193 205 218 433 441 444 465	0199580062 0255936111 0408924176 0414745029 0514529018 0678243000 1788901165 1839076015 18393486051 1984687015	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buens Vista Lake Street Lights Mrs. Winners Chicken & Biscuits	DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS1B 2863 CAMP CIR 00 CANDLER RD 2300 MCAFEE RD 655 CAMP RD 4499 GLENWOOD RD		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/2/2/2018 DECATUR GA 30032 1/2/7/2018 DECATUR GA 30032 1/2/7/2018 DECATUR GA 30032 1/2/7/2018 DECATUR GA 30032 1/2/7/2018 DECATUR GA 30032 1/10/2019	0 \$ 1,370.14 0 \$ 3.373 0 \$ 1,703.42 0 \$ 1,703.42 0 \$ 1,84.43 0 \$ 1,333.11 0 \$ 255.31 0 \$ 1,903.98 0 \$ 242.38 0 \$ 311.18	\$ 1,370.14 OL REG 12/11/2018 1/12/2019 \$ \$ 33.73 GS-C 7538925 12/3/2018 1/3/2019 1/3/2019 \$ \$ 1,703.42 OL REG 12/11/2018 1/12/2019 1/3/2019 1/12/2019 \$ \$ 184.43 OLUNR 12/13/2018 1/12/2019 \$ \$ 1,333.11 OL REG 12/11/2018 1/12/2019 \$ \$ 235.31 OL GOVT 11/28/2018 1/2/2019 \$ \$ 1,903.98 OL GOVT 11/28/2018 1/2/2019 \$ \$ 242.38 PLS-C 2809397 11/20/2018 12/20/2018 \$ \$ 311.18 GS-C 5247128 11/18/2018 12/20/2018 \$ \$ 29.79 TCM 7547515 12/8/2018 11/2/2018	30472 30472 3 12075	31431 60 14352 1	57540	252	5
186 193 205 218 433 441 444 465 476	0199580062 0255936111 0408924176 0414745029 0514529018 067824300 1788901165 1839076015 1893486051 1984687015 3209565018	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights Street Street Lights Street Lights	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR UNIT PHS-18 00 MEMORIAL DR UNIT PHS-18 LIGHTING 2383 CAMP CIR 00 CANDLER RD 2380 MCAFEE RD 655 CAMP RD 4499 GLENWOOD RD 00 MEMORIAL DR UNIT PHS-1A		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/12/3019 DECATUR GA 30032 1/2/3/2019 DECATUR GA 30032 1/2/3/2019 DECATUR GA 30032 1/2/3/2018 DECATUR GA 30032 1/2/3/2019 DECATUR GA 30032 1/1/3/2019 DECATUR GA 30032 1/1/2/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 4,113.34 0 \$ 235.31 0 \$ 235.31 0 \$ 1,903.98 0 \$ 242.38 0 \$ 311.18 0 \$ 311.18	1,370.14 OLBEG 12/11/2018 1/12/2019 1/12/201	30472 30472 1 12075 3 42806 13606	31431 60 14352 1 44651 1 13851 1	2277 1845 245	252	5 0
186 193 205 218 433 441 444 465 476 376	0199580062 0255936111 0408924176 0414745029 0514529018 0678243000 1788901165 1839076015 1893486051 1984687015 3209565018 3644840007	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights Mrs. Winners Chicken & Biscuits Street Lights Mrs. Winners Chicken & Biscuits	DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR 00 MEMORIAL DR 100 MEMORIA		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 12/27/2018 DECATUR GA 30032 12/27/2018 DECATUR GA 30032 12/27/2018 DECATUR GA 30032 12/27/2018 DECATUR GA 30032 12/19/2018 DECATUR GA 30032 1/10/2019 DECATUR GA 30032 1/10/2019 DECATUR GA 30032 1/10/2019 DECATUR GA 30032 1/10/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 4,113.34 0 \$ 235.31 0 \$ 1,903.98 0 \$ 311.18 0 \$ 237.31 0 \$ 1,903.98 0 \$ 311.18 0 \$ 237.97 0 \$ 724.28	\$ 1,370.14 OL REG	30472 12075 42806 13606	31431 60 14352 1 44651 1 13851 1 18848 60	2277 1845 245 8580	252 3 0 0	5 0 0
186 193 205 218 433 441 444 465 476 376 485	0199580062 0255936111 0408924176 0414745029 0514529018 0678243000 1788901165 1839076015 1893486051 1984687015 3209565018 3644840007 3671529000	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights Street Street Lights Street Lights	DEALS COUNTY GOVERNMENT DECALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR UNIT PHS-18 00 MEMORIAL DR UNIT PHS-18 LIGHTING 2383 CAMP CIR 00 CANDLER RD 2380 MCAFEE RD 655 CAMP RD 4499 GLENWOOD RD 00 MEMORIAL DR UNIT PHS-1A		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/27/2018 DECATUR GA 30032 1/27/2018 DECATUR GA 30032 1/27/2018 DECATUR GA 30032 1/27/2018 DECATUR GA 30032 1/12/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,143.34 0 \$ 1,133.41 0 \$ 235.31 0 \$ 225.31 0 \$ 242.38 0 \$ 311.18 0 \$ 247.39 0 \$ 1,279.77 0 \$ 7,24.28 0 \$ 7,24.28	\$ 1,370.14 OLBEG 12/11/2018 1/12/2019 5 1,703.02 OLBEG 12/11/2018 1/12/2019 5 1,703.02 OLBEG 12/11/2018 1/12/2019 5 1,803.02 OLBEG 12/11/2018 1/12/2019 12/11/2018 1/12/2019 11/12/201	30472 12075 42806 13606 18705 35272	31431 60 14352 1 44651 1 13851 1 18848 60 39491 1	2277 1845 245	252 3 0 0	5 0
186 193 205 218 433 441 444 465 476 376 485	0199580062 0255936111 0408924176 0414745029 0514529018 0678243000 1788901165 1839076015 1893486051 1984687015 2209565018 3644840007 367152900 5708840005	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DUPT	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS18 10 MOUNTAIN DR 4450 MEMORIAL DR UNIT PHS18 10 MEMORIAL DR UNIT PHS1A 11 MEMORIAL DR UNIT PHS1A 12 MEMORIAL DR UNIT PHS15 13 MEMORIAL DR UNIT PHS15 14 MEMORIAL DR UNIT PHS15 14 MEMORIAL DR UNIT PHS15 15 MEMORIAL DR UNIT PHS15		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/19/2018 DECATUR GA 30032 1/2/19/2018 DECATUR GA 30032 1/2/19/2018 DECATUR GA 30032 1/19/2019 DECATUR GA 30032 1/2/19/2018 DECATUR GA 30032 1/2/19/2018 DECATUR GA 30032 1/2/19/2018 DECATUR GA 30032 1/2/19/2018	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,703.42 0 \$ 18.443 0 \$ 1,333.11 0 \$ 235.31 0 \$ 1,903.98 0 \$ 242.38 0 \$ 311.18 0 \$ 29.79 0 \$ 1,279.77 0 \$ 724.28 0 \$ 443.25 0 \$ 443.25	\$ 1,370.14 OLBEG 12/11/2018 1/12/2019 \$ \$ 33.73 GS- 7538925 11/3/7018 1/72/2019 \$ \$ 1,703.42 OLBEG 12/11/2018 1/72/2019 \$ \$ 184.43 OLUMB 12/13/2019 1/75/2019 \$ \$ 1,133.11 OLBEG 12/11/2018 1/72/2019 \$ \$ 1,333.11 OLBEG 12/11/2018 1/72/2019 \$ \$ 1,333.11 OLBEG 12/11/2018 1/72/2018 1/72/2018 \$ \$ 1,903.98 OLGOVT 11/78/2018 1/72/2018 1/72/2018 \$ \$ 1,903.98 OLGOVT 2809997 11/20/2018 1/72/2018 \$ \$ 1,903.98 OLGOVT 2809997 11/20/2018 1/72/2018 \$ \$ 1,219.70 OLGOVT 2809997 11/20/2018 1/72/2018 \$ \$ 1,219.70 OLGOVT 2809997 11/20/2018 1/72/2018 \$ \$ 1,229.70 OLGOVT 2819287 11/82/2018 1/19/2019 \$ \$ 1,229.77 OLGOVT 281918 1/18/2018 1/19/2019 \$ \$ 7,24.28 TOU-MB 3128912 11/18/2018 12/18/2018 \$ \$ 4,433.25 TOUGO-G 3153272 11/15/2018 12/20/2018 \$ \$ 1,859.99 PIMC-C 3017222 11/72/2018 12/20/2018 \$	30472 12075 42806 13606 18705 35272 4763	31431 60 14352 1 44651 1 13851 1 18848 60 39491 1 4971 80	2277 1845 245 8580 4219 16640	252 3 0 0 16 17 40	5 0 0 17 47
186 193 205 218 433 441 444 465 476 376 485 15	0199580062 025936111 0409924176 0414745029 0514736029 0514529018 0673233000 1788901165 1839076015 183936051 19344607015 3209565018 3444840007 3671529000 5708840005 6668835008	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Mrs. Winners Chicken & Biscuits Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN NEW Hum App & Test COMMUNITY DVLPT SIGN SHOP	DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR 00 MEMORIAL DR 00 MEMORIAL DR 00 MEMORIAL DR 116HTING 2363 CAMP CIR 00 CANDLER RD 2300 MCAFEE RD 655 CAMP RD 4499 GIENNOOD RD 00 MEMORIAL DR UNIT PHS1A 8675 KENSINGTON RD 01 MEMORIAL DR 1807 CANDLER RD UNIT 1140 1808 MEMORIAL DR 1808 CANDLER RD 1808		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/2/23/2018 DECATUR GA 30032 1/2/27/2018 DECATUR GA 30032 1/2/27/2018 DECATUR GA 30032 1/2/12/2018 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/2/19/2018	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 1,413.34 0 \$ 1,233.11 0 \$ 235.31 0 \$ 1,333.11 0 \$ 2,25.31 0 \$ 1,233.11 0 \$ 5 2,030.98 0 \$ 242.38 0 \$ 311.18 0 \$ 29.79 0 \$ 1,279.77 0 \$ 724.28 0 \$ 443.25 0 \$ 443.25 0 \$ 1,859.59 0 \$ 1,859.59	\$ 1,370.14 OL REG 12/11/2018 1/12/2019 \$ 33.73 GS-C 7538925 12/3/2018 1/3/2019 \$ 1,703.42 OL REG 12/11/2018 1/3/2019 \$ 184.43 OLUNR 12/13/2018 1/12/2019 \$ 1,133.11 OL REG 12/11/2018 1/12/2019 \$ 1,333.11 OL REG 12/11/2018 1/12/2019 \$ 2,255.31 OL GOVT 11/28/2018 1/27/2018 \$ 1,903.98 OL GOVT 11/28/2018 1/27/2018 \$ 2,242.38 PLS-C 2809397 11/27/2018 1/27/2018 \$ 311.18 GS-C 5247128 11/18/2018 12/29/2018 \$ 2,279 TCM 7547515 12/8/2018 1/12/2019 \$ 1,279.77 OL GOVT 12/11/2018 1/12/2019 \$ 1,279.77 OL GOVT 12/11/2018 1/12/2019 \$ 1,279.77 OL GOVT 12/11/2018 1/12/2019 \$ 1,289.57 CT 12/11/2018 1/21/2018 \$ 1,889.59 PLMC 3071742 11/2/2018 12/21/2018 \$ 1,889.59 PLMC 3071742 11/2/2018 12/21/2018	30472 12075 42806 13606 18705 35272 4763 3061	31431 60 14352 1 44651 1 13851 1 18848 60 39491 1 4971 80 3207 40	2277 1845 245 8580 4219 16640 5840	252 3 0 0 16 17 40 25	5 0 0 17 47 26
186 193 205 218 433 441 444 465 476 376 485 15	0199580062 0255936111 0408924176 0414745029 051427901 0678243000 1788901165 1839486051 1893486051 1893486051 18948687015 3644840007 3671529000 5708840005 6668835008	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hun App & Test COMMUNITY DVLPT SIGN SHOP SIGNAL SHOP	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS1B 12363 CAMP RD 12363 CAMP RD 12360 MCAFER RD 655 CAMP RD 1499 GLENWOOD RD 1499 GLENWOOD RD 1499 GLENWOOD RD 1499 GLENWOOD RD 1498 GLENWOOD RD 1498 GLENWOOD RD 1498 GLENWOOD RD 1507 CAMDLER RD 1707 CA		DECATUR	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,103.42 0 \$ 1,844.33 0 \$ 4,113.34 0 \$ 235.31 0 \$ 1,903.98 0 \$ 242.38 0 \$ 311.18 0 \$ 225.97 0 \$ 1279.77 0 \$ 724.28 0 \$ 374.25 0 \$ 1,859.59 0 \$ 1,859.59	\$ 1,370.14 OLBEG	30472 12075 42806 13606 18705 35272 4763 3061 20716	31431 60 14352 1 44651 1 13851 1 18848 60 39491 1 4971 80 3207 40 20980 40	2277 1845 245 8580 4219 16640 5840 10560	252 3 0 0 16 17 40 25 26	5 0 0 17 47 26 20
186 193 205 218 433 441 444 465 476 376 485 15 81 103 301	0199580062 0259396111 0408924176 0414785029 0514529018 06762243000 1788901165 1889076015 1893486051 1893486051 3209565018 3648480007 3671529000 5708840005 6668836008 6668836008	Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DUIPT SIGN SHOP SIGNAL SHOP STREET Lights	DEKALB COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR 00 MEMORIAL DR 100 MEMORIA		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/2/28/2018 DECATUR GA 30032 1/2/28/2018 DECATUR GA 30032 1/2/27/2018 DECATUR GA 30032 1/2/27/2018 DECATUR GA 30032 1/2/12/2018 DECATUR GA 30032 1/10/2019 DECATUR GA 30032 1/10/2019 DECATUR GA 30032 1/10/2019 DECATUR GA 30032 1/2/19/2018	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 4,113.34 0 \$ 1,333.11 0 \$ 235.31 0 \$ 1,333.11 0 \$ 2,25.31 0 \$ 1,233.11 0 \$ 5 242.38 0 \$ 311.18 0 \$ 242.38 0 \$ 311.18 0 \$ 29.79 0 \$ 724.28 0 \$ 443.25 0 \$ 443.25 0 \$ 443.25 0 \$ 3,859.59 0 \$ 958.25 0 \$ 958.25 0 \$ 958.25	\$ 1,370.14 OL REG	30472 12075 42806 13606 18705 35272 4763 3061 20716 5376	31431 60 14352 1 44651 1 13851 1 18848 60 39491 1 4971 80 3207 40 20980 40 5494 40	2277 1845 245 8580 4219 16640 5840 10560 4720	252 3 0 0 16 17 40 25	5 0 0 17 47 26 20
186 193 205 218 433 441 444 465 476 376 485 15 103 301	0199580062 0255936111 0408924176 0414745029 0514572018 0678243000 178801165 1839076015 1839486051 183486051 3209565018 344840007 3671579000 5708840005 6688836008 658836008 7535834001 7556834002	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DYLPT SIGN SHOP SIGNAL SHOP STONAL SHOP STONAL SHOP	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS1B 12363 CAMP RD 12363 CAMP RD 12360 MCAFER RD 655 CAMP RD 1499 GLENWOOD RD 1499 GLENWOOD RD 1499 GLENWOOD RD 1499 GLENWOOD RD 1498 GLENWOOD RD 1498 GLENWOOD RD 1498 GLENWOOD RD 1507 CAMDLER RD 1707 CA		DECATUR GA 30032 1/12/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,703.42 0 \$ 1,184.43 0 \$ 5,1,333.11 0 \$ 235.31 0 \$ 1,903.88 0 \$ 242.38 0 \$ 311.18 0 \$ 29.79 0 \$ 1,279.77 0 \$ 724.28 0 \$ 443.25 0 \$ 903.22 0 \$ 903.22 0 \$ 903.22 0 \$ 573.35	1,370.14 OLBEG 2/11/2018 3/12/2019 3.373 GS-C 7538925 11/3/2018 11/3/2019 5 1,703.42 OLBEG 12/11/2018 11/2/2019 5 1,803.42 OLBEG 12/11/2018 11/3/2019 11/3/2018 11/3/2019 11/3/2018 11/3/2019 11/3/2018 11/3/2019 11/3/2018 11/3/2019 11/3/2018 11/3/2019 11/3/2018 11/3/2019 11/3/2018 11/3/2019 11/3/2018 11/3/2019 11/3/2018 11/3/2019 11/3/2018 11/3/2019 11/3/2018 11/3/2019 11/3/201	12075 42806 13606 18705 35272 4763 3061 20716 5376 64043	31431 60 14352 1 44651 1 13851 1 18848 60 39491 1 4971 80 3207 40 20980 40 5494 40	2277 1845 245 8580 4219 16640 5840 10560 4720 111	252 3 0 0 16 17 40 25 26 10	5 0 0 17 47 26 20 14
186 193 205 218 433 441 444 465 476 376 485 15 81 103 301 310	0199580062 025936111 0408924176 041745029 0514529018 0678243000 1788901165 1389076015 1389486051 1389486051 3209565018 3448480007 3671529000 5708840005 6668836008 668836008 668836008 7538834001 757884001	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buens Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY OVLPT SIGN SHOP SIGNAL SHOP STREET Lights SHOAL CRE MAINIT STREET Lights SHOAL CRE MAINIT Street Lights	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR 00 MEMORIAL DR 10 MEMORIAL DR 10 MEMORIAL DR UNIT PHS1B 2363 CAMP CIR 00 CANDLER RD 2300 MCAFEE RD 655 CAMP CIR 4499 GLENWOOD RD 10 MEMORIAL DR UNIT PHS1A 3675 KENSINGTON RD 4380 MEMORIAL DR UNIT PHS1A 3675 KENSINGTON RD UNIT 1140 4380 MEMORIAL DR COMMUNITY DVLPT 1807 CANDLER RD SE 1807 CANDLER RD UNIT 9635 3621 CAMP RD 770 CAMP RD ASSOCIATION INC 3649 GLENWOOD RD UNIT 6117 SHOAL CRK MAINT 3630 GLENWOOD RD UNIT 6117		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/19/2018	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 18.43 0 \$ 18.43 0 \$ 1,333.11 0 \$ 235.31 0 \$ 5 1,333.11 0 \$ 2 243.38 0 \$ 3 11.18 0 \$ 2 243.38 0 \$ 3 11.18 0 \$ 2.47.38 0 \$ 3.27.9.77 0 \$ 724.28 0 \$ 443.25 0 \$ 1,859.59 0 \$ 903.22 0 \$ 903.22 0 \$ 903.23 0 \$ 573.35 0 \$ 3.855 0 \$ 3.855	\$ 1,370.14 OLREG	30472 12075 42806 13606 18705 35272 4763 3061 20716 5376 64043	31431 60 14352 1 44651 1 13851 1 18848 60 39491 1 4971 80 3207 40 20980 40 5494 40 64154 1 85 80	2277 1845 245 8580 4219 16640 10560 4720 1111 0	252 3 0 0 16 17 40 25 26 10 0	5 0 0 17 47 26 20 14 0
186 193 205 218 433 441 444 465 476 376 485 15 103 301	0199580062 0255936111 0408924176 0414745029 0514572018 0678243000 178801165 1839076015 1839486051 183486051 3209565018 344840007 3671579000 5708840005 6688836008 658836008 7535834001 7556834002	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DYLPT SIGN SHOP SIGNAL SHOP STONAL SHOP STONAL SHOP	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR 00 MEMORIAL DR 100 MEMORIAL DR 100 MEMORIAL DR 100 MEMORIAL DR UNIT PHS1B 100 CANDLER RD 100 CANDLER RD 100 CANDLER RD 100 MEMORIAL DR UNIT PHS1A 100 MEMORIAL DR 1		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/2/3/2018 DECATUR GA 30032 1/3/3/2019 DECATUR GA 30032 1/3/3/2018 DECATUR GA 30032 1/3/3/2018	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,703.42 0 \$ 1,184.43 0 \$ 5,1,333.11 0 \$ 235.31 0 \$ 1,903.88 0 \$ 242.38 0 \$ 311.18 0 \$ 29.79 0 \$ 1,279.77 0 \$ 724.28 0 \$ 443.25 0 \$ 903.22 0 \$ 903.22 0 \$ 903.22 0 \$ 573.35	\$ 1,370.14 OLREG	30472 12075 42806 13606 18705 35272 4763 3061 20716 5376 64043	31431 60 14352 1 44651 1 13851 1 18848 60 139491 1 4971 80 20980 40 20980 40 26454 1 85 80	57540 2277 1845 245 245 8580 4219 16640 5840 10560 4720 1111 0 40	3 0 0 16 17 40 25 10 0 0	5 0 0 0 17 47 26 20 14 0
186 193 205 218 433 441 444 465 476 485 15 81 103 301 310	01995800621 0259361176 041875029 05184579018 0678243000 1788901165 1383076015 1383076015 1383076015 1383467015 3203565018 3648480007 3671529000 5708840005 668835008 753884001 757884002 9592837001 8445091009 9592837001	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Bunna Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DUPT SIGN SHOP SIGNAL SHOP STREET Lights SHOAL CRK MAINT Street Lights Street Lights Street Lights Street Lights Street Lights SHOAL CRK MAINT Street Lights Street Lights Street Lights Street Lights Street Lights	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 F.A.T SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS1B 10 MEMORIAL DR UNIT PHS1B 10 MEMORIAL DR UNIT PHS1B 10 MEMORIAL DR UNIT PHS1B 11 MEMORIAL DR 12 MEMORIAL DR UNIT PHS1B 12 MEMORIAL DR UNIT PHS1B 13 MEMORIAL DR UNIT PHS1A 14 MEMORIAL DR UNIT PHS1A 14 MEMORIAL DR UNIT PHS1A 15 MEMORIAL DR UNIT PHS1A 16 MEMORIAL DR UNIT PHS1A 17 MEMORIAL DR UNIT PHS1A 18 MEMORIAL DR UNIT PHS1BL UNIT PHS1BL UNIT PHS1A 18 MEMORIAL DR UNIT PHS1BL U		DECATUR	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 18.43 0 \$ 18.43 0 \$ 1,333.11 0 \$ 235.31 0 \$ 1,303.98 0 \$ 242.38 0 \$ 242.38 0 \$ 242.38 0 \$ 311.18 0 \$ 29.79 0 \$ 1279.77 0 \$ 724.28 0 \$ 443.25 0 \$ 1,855.59 0 \$ 903.22 0 \$ 9958.25 0 \$ 958.25 0 \$ 36.85 0 \$ 31.26 0 \$ 25.61	\$ 1,370.14 OLBEG	12075 12075 42806 13606 18705 35272 4763 3061 20716 5376 64043 85	31431 60 14352 1 44651 1 13851 1 18848 60 139491 1 4971 80 20980 40 20980 40 26454 1 85 80	2277 1845 245 8580 4219 16640 10560 4720 1111 0	3 0 0 16 17 40 25 10 0 0	5 0 0 17 47 26 20 14 0
186 193 205 218 433 441 444 465 476 485 15 81 103 301 310	0199580062 0255936111 0408924176 041474502918 06762243000 1788901165 1839076015 1839486051 1839486051 1839486071 320965018 3648480007 3671529000 5708840005 6668835008 6689835008 6689835008 1755834001 7558834001 757834011 8445901009	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY OVLPT SIGNAL SHOP SIGNAL SHOP STREET Lights SHOAL CRK MAINT Street Lights STREET Lights SHOAL CRK MAINT STREET Lights STREET Lights STREET Lights SHOAL STREET LIGHTS	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR RUNT PHS-18 10 MEMORIAL DR RUNT PHS-18 10 MEMORIAL DR RUNT PHS-18 11 GHTING 12 836 SAMP RD 12 2300 MCASER RD 12 2300 MCASER RD 14 4499 GLENWOOD RD 10 MEMORIAL DR UNIT PHS-14 16 55 CAMP RD 17 00 MEMORIAL DR RUNT PHS-15 18 07 SKHSINGTON RD 18 07 MEMORIAL DR RUNT PHS-16 18 07 CAMPLE RD 18 18 07 CANDLER RD SE 18 18 18 18 18 18 18 18 18 18 18 18 18 1		DECATUR GA 30032 1/12/2019	0 \$ 1,370,14 0 \$ 33.73 0 \$ 1,703,42 0 \$ 1,703,42 0 \$ 1,184,43 0 \$ 1,333,11 0 \$ 235,31 0 \$ 3,193,93 0 \$ 3,129,70 0 \$ 7,24,28 0 \$ 311,18 0 \$ 229,79 0 \$ 7,24,28 0 \$ 312,79,77 0 \$ 7,24,28 0 \$ 9,22 0 \$ 9,22 0 \$ 9,32 0 \$ 9,32 0 \$ 9,32 0 \$ 9,32 0 \$ 9,32 0 \$ 9,33 0 \$ 3,33	S	12075 12075 42806 13606 18705 35272 4763 3061 20716 5376 64043 85	31431 60 14352 1 44651 1 13851 1 18848 60 139491 1 4971 80 20980 40 20980 40 26454 1 85 80	57540 2277 1845 245 245 8580 4219 16640 5840 10560 4720 1111 0 40	3 0 0 16 17 40 25 10 0 0	5 0 0 0 17 47 26 20 14 0
186 193 205 218 433 441 444 465 376 376 485 115 81 103 301 3310 3315 3488 3 35 46	01995800621 025936111 0408824176 0416745029 0515459018 0676243000 1788901165 1389076015 1389076015 13894687015 3209565018 3209565018 3209565018 32085	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LUGHTING Street Lights Buena Vista lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DVLPT SIGN SHOP SIGNAL SHOP STREET Lights SHOAL CRK MAINT Street Lights STREET Lights WHITES MILL G S ? Street Lights WHITES MILL G S ? Street Lights Traffic Signal	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-14 10 MEMORIAL DR UNIT PHS-14 10 MEMORIAL DR UNIT PHS-14 10 MEMORIAL DR UNIT PHS-15 10 MEMORIAL DR UNIT PHS-16 10 MEMORIAL DR UNIT PHS-17 10 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-19 10 MEMORIAL DR UNIT PHS-11 10 MEMORIAL DR UNIT SBLI UNIT SBL		DECATUR	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 5 1,333.11 0 \$ 235.31 0 \$ 1,903.98 0 \$ 242.38 0 \$ 311.18 0 \$ 225.91 0 \$ 1,903.98 0 \$ 342.38 0 \$ 311.18 0 \$ 29.79 0 \$ 1,279.77 0 \$ 724.28 0 \$ 903.22 0 \$ 968.25 0 \$ 903.22 0 \$ 958.25 0 \$ 573.35 0 \$ 312.6 0 \$ 312.6 0 \$ 34,462.41 0 \$ 58.75	\$ 1,370.14 OLBEG 12/11/2018 1/12/2019 \$ 1,730.04 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/13/2018 1/13/2019 1/1	30472 12075 42806 13606 18705 35272 4763 3061 20716 5376 64043 85 3211 5217	31431 60 14352 1 44651 1 13851 1 18848 60 33491 1 4971 80 3207 40 20980 40 5494 40 5494 40 64154 1 85 80 3251 1 5268 600	2277 1845 245 245 4219 1660 10560 4720 1111 0 40 30600	3 0 0 16 17 40 25 10 0 0	5 0 0 17 47 26 20 14 0 0
186 193 205 218 433 441 444 446 465 376 485 15 81 103 301 310 3315 488 3 484 486 771	0199580062 025936111 0408924176 0414785029 0514529018 0678243000 1788901165 1839076015 1839076015 1839486051 1839486051 1839486051 3209565018 3648480007 3671529000 6668836008 668836008 668836008 1758834001 7578834001 7578834001 0003370205 0003370205 0003278021 0003370205	Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Mrs. Winners Chicken & Biscuits MOUNTAIN VIEW Hum App & Test COMMUNITY OUPT SIGN SHOP SIGNAL SHOP STREET Lights SHOAL CRY, MAINT Street Lights SHOAL CRY, MAINT Street Lights SHOAL CRY, MAINT Street Lights Tarfife Signal RESIDENTIAL	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR 00 MEMORIAL DR UNIT PHS1B 2363 CAMP CIR 00 CANDLER RD 2300 MCAFEE RD 655 CAMP CIR 00 CANDLER RD 2400 MCAFEE RD 655 CAMP RD 4499 GLENWOOD RD 00 MEMORIAL DR UNIT PHS1A 3675 KENSINGTON RD UNIT 1140 4380 MEMORIAL DR 100 MEMORIAL DR UNIT PHS1A 3675 KENSINGTON RD UNIT 1140 575 KENSINGTON RD 4380 MEMORIAL DR 100 MEMORIA		DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/3/2019 DECATUR GA 30032 1/12/2019 DECATUR GA 30032 1/15/2019 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/18/2018 DECATUR GA 30032 1/2/19/2018 DECATUR GA 30032 1/2/19/2018 DECATUR GA 30032 1/2/19/2018 DECATUR GA 30032 1/19/2019 DECATUR GA 30032 1/19/2019 DECATUR GA 30032 1/19/2019 DECATUR GA 30032 1/2/19/2018 DECATUR GA 30033 1/2/29/2018 DECATUR GA 30033 1/2/29/2018 DECATUR GA 30033 1/2/29/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 18.43 0 \$ 5 18.43 0 \$ 5 1,333.11 0 \$ 235.31 0 \$ 5 1,333.11 0 \$ 5 235.31 0 \$ 5 242.38 0 \$ 5 311.18 0 \$ 29.79 0 \$ 724.28 0 \$ 432.25 0 \$ 1,859.59 0 \$ 903.22 0 \$ 903.22 0 \$ 903.22 0 \$ 5 373.35 0 \$ 36.85 0 \$ 31.26 0 \$ 25.51	\$ 1,370.14 OLBEG	30472 12075 42806 13606 18705 35272 4763 3061 20716 5376 64043 85 3211 5217	31431 60 14352 1 44651 1 13851 1 13851 1 14971 80 2070 40 20980 40 20980 40 64154 1 85 80 3251 1 5268 600	57540 2277 1845 245 8580 4219 16640 5840 110560 4720 111 0 40 30600	3 0 0 0 16 17 40 25 26 10 0 0 0	5 0 0 17 47 26 20 14 0 0 0
186 193 205 205 218 433 441 444 465 376 376 81 103 301 310 310 315 488 3 3 46 71 76	01995800621 02593614176 040824176 041745029 0518459018 0678243000 1788901165 1839480015 183948015 1934687015 3209655015 1934687015 3209655015 1934687015 3209655016 668836008 757834001 757834001 757834000 9592837001 0003370205 0053258021 045700014 0681082191 0681082191	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DVLPT SIGNAL SHOP SIGNAL SHOP STREET Lights Traffic Signal RESIDENTIAL	DEKALS COUNTY GOVERNMENT	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS18 10 MEMORIAL DR UNIT PHS1A 10 MEMORIAL DR UNIT P		DECATUR GA 30032 1/12/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,1703.42 0 \$ 1,184.43 0 \$ 5,1,333.11 0 \$ 235.31 0 \$ 1,903.98 0 \$ 242.38 0 \$ 5 1,393.91 0 \$ 2,799.77 0 \$ 7,242.8 0 \$ 443.25 0 \$ 903.22 0 \$ 903.22 0 \$ 958.25 0 \$ 31.26 0 \$ 31.26 0 \$ 31.26 0 \$ 5,538 0 \$ 31.26 0 \$ 5,5538 0 \$ 34.62.41 0 \$ 5,875.35	1,370.14 OLBEG	30472 12075 42806 13606 18705 35272 4763 3061 20716 5376 64043 85 3211 5217	31431 60 14352 1 44651 1 13851 1 18848 60 33491 1 4971 80 3207 40 20980 40 5494 40 5494 40 64154 1 85 80 3251 1 5268 600	2277 1845 245 245 4219 1660 10560 4720 1111 0 40 30600	3 0 0 16 17 40 25 10 0 0	5 0 0 17 47 26 20 14 0 0
186 193 205 218 433 441 444 445 465 376 485 15 81 103 301 3301 3315 488 3 3 46 71 76 95	0199580062 025936111 0408924176 041745029 0514529018 0678243000 1788901165 1389076015 1389486051 1389486051 3209565018 3464840007 3671529000 5708840005 668836008 668836008 668836008 1757834011 844590109 9592837001 003337025 005258021 046700014 0681082191 0873236027	Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Bunna vitat Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DUPT SIGN SHOP SIGNAL SHOP STREET Lights STREET Lights SHOPL CRY MAINT STREET Lights SHOPL STREET Lights SHOPL STREET Lights SHOPL STREET Lights STREET Lights STREET Lights STREET Lights STREET Lights STREET Lights Traffic Signal RESIDENTIAL Walgreens Street Lights	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 F.A.T SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS1B 00 MEMORIAL DR UNIT PHS1B 10 MEMORIAL DR UNIT PHS1A 10 MEMORIAL DR UNIT PHHS1A 10 MEMORIAL DR UNIT PHHHPH 10 MEMORIAL DR UNIT PHHHPH 10 MEMORIAL DR UNIT PHHPH 10 M		DECATUR	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,703.42 0 \$ 1,703.42 0 \$ 1,843.31 0 \$ 2,3531 0 \$ 1,333.11 0 \$ 2,243.38 0 \$ 3,373 0 \$ 1,279.77 0 \$ 724.28 0 \$ 432.55 0 \$ 1,859.59 0 \$ 903.22 0 \$ 903.22 0 \$ 958.25 0 \$ 3,685 0 \$ 31.26 0 \$ 3,585 0 \$ 3,259 0 \$ 5,585	\$ 1,370.14 OL REG	30472 12075 42806 13606 13606 35272 4763 3061 20716 5376 64043 85 3211 5217	31431 60 14352 1 44651 1 13851 1 13851 1 18848 60 39491 1 4971 80 20980 40 20980 40 64154 1 85 80 3251 1 5268 600	57540 2277 1845 245 8580 4219 16640 5840 10560 4720 40 30600	3 0 0 0 16 17 40 25 26 10 0 0 0	5 0 0 17 47 26 20 14 0 0 0
186 193 205 218 433 441 444 465 376 485 15 103 301 310 311 315 488 3 3 46 46 771 76 95	0199580062 0259396111 044785029 0514759018 0678243000 1788901165 1839076015 1839076015 1839076015 1839486051 1839486051 1839486051 18348867015 3209565018 3648480007 3671529000 5708840005 66683836008 6689336008 6753834001 7558834002 757884011 8445901009 9592337001 0033370205 0053238001 046700014 0681082191 0873226027 1243683044	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DULPT SIGNAL SHOP SIGNAL SHOP STREET Lights SHOAL CRK MAINIT Street Lights STREET Lights SHOAL CRK MAINIT STREET Lights SHOAL CRK MAINIT STREET Lights SHOAL CRK MAINIT STREET Lights STREET Lights STREET Lights TATITIC Signal RESIDENTIAL Wallgreens Street Lights Street Lights	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-18 11 GETTING 12 SEG SAMP RD 12 SEG SAMP RD 14 SEG		DECATUR GA 30032 1/12/2019	0 \$ 1,370,14 0 \$ 33.73 0 \$ 1,703,42 0 \$ 1,703,42 0 \$ 1,1334 0 \$ 1,1334 0 \$ 1,333,11 0 \$ 2,25,31 0 \$ 3,1,203,98 0 \$ 311,18 0 \$ 225,31 0 \$ 311,18 0 \$ 225,31 0 \$ 311,18 0 \$ 20,79 0 \$ 1,279,77 0 \$ 7,724,28 0 \$ 448,25 0 \$ 31,850,59 0 \$ 958,25 0 \$ 5,335 0 \$ 5,368	1,370.14 OLBEG	30472 12075 42806 13606 18705 35272 4763 3061 20716 5376 64043 85 3211 5217	31431 60 14352 1 44651 1 13851 1 13851 1 14971 80 2070 40 20980 40 20980 40 64154 1 85 80 3251 1 5268 600	57540 2277 1845 245 8580 4219 16640 5840 110560 4720 111 0 40 30600	3 0 0 0 16 17 40 25 26 10 0 0 0	5 0 0 17 47 26 20 14 0 0 0
186 193 205 218 433 441 444 445 475 376 485 115 81 103 301 315 488 33 46 71 76 95	01995800621 0259361176 0418735029 05184579018 0678243000 1788901165 1383076015 1383076015 1384687015 3209565018 3648840007 3671529000 573884001 755884002 757884011 8445091009 9592837001 0003370205 0053358021 0246700014 06872356027 1243663044	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Bunna Vitat Lake Street Lights Mrs. Winners Chicken & Biscutts Street Lights Mrs. Winners Chicken & Biscutts Street Lights MOUNTAIN VIEW HUM App & Test COMMUNITY DUPT SIGN SHOP SIGNAL SHOP STREET Lights SHOPLAL GRK MAINIT Street Lights Street Lights Traffic Signal RESIDENTIAL Walgreens Street Lights Traffic Signal RESIDENTIAL Walgreens Street Lights Traffic Signal RESIDENTIAL Street Lights Street Lights Traffic Signal RESIDENTIAL Street Lights Street Lights Traffic Signal RESIDENTIAL Street Lights Traffic Signal RESIDENTIAL Street Lights Traffic Signal RESIDENTIAL Street Lights Traffic Signal Street Lights Traffic Signal Street Lights Traffic Signal Street Lights	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 F.A.T SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR UNIT PHS1B 00 MEMORIAL DR UNIT PHS1B 12383 CAMP CIR 00 CANDLER RD 12300 MCAFER RD 12500 MCMORIAL DR 12501 MCMOR		DECATUR	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,703.42 0 \$ 1,844.33 0 \$ 3,1333.11 0 \$ 2,243.38 0 \$ 1,903.98 0 \$ 2,423.8 0 \$ 2,423.8 0 \$ 2,423.8 0 \$ 2,423.8 0 \$ 2,423.8 0 \$ 311.18 0 \$ 2,27.9 0 \$ 1,279.77 0 \$ 724.28 0 \$ 443.25 0 \$ 903.22 0 \$ 903.22 0 \$ 903.22 0 \$ 958.25 0 \$ 573.35 0 \$ 31.26 0 \$ 3.25,90	\$ 1,370.14 OLBEG	30472 12075 42806 13606 13606 35272 4763 3061 20716 5376 64043 85 3211 5217	31431 60 14352 1 44651 1 13851 1 13851 1 18848 60 39491 1 4971 80 20980 40 20980 40 64154 1 85 80 3251 1 5268 600	57540 2277 1845 245 8580 4219 16640 5840 10560 4720 40 30600	3 0 0 0 16 17 40 25 26 10 0 0 0	5 0 0 17 47 26 20 14 0 0 0
186 193 205 218 433 441 444 446 465 376 485 115 81 103 301 310 315 488 3 35 46 71 76 95	0199580062 0259396111 0408924176 0414785029 0514529018 0678243000 1788901165 1838076015 193486051 193486051 1394860715 3209565018 364840007 3671529000 5708840005 6668836008 668836008 668836008 1757834011 5445091009 9592834011 0445091009 19592834011 0445091009 19592834011 045031009 19592834011 19592844011 1959	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrann? Street Lights LIGHTING Street Lights Buena Visita Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DUPT SIGNAL SHOP SIGNAL SHOP STORE Lights SHOAL CRK MAINT Street Lights STREET Lights Traffic Signal RESIDENTIAL Walgreens Street Lights Traffic Signal RESIDENTIAL Street Lights Traffic Signal RESIDENTIAL RESIDENTIAL	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 012 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 10 MEMORIAL DR UNIT PHS-3 10 MEMORIAL DR UNIT PHS-3 1283 CAMP RD 12930 MCAEFE RD 12930 MCAEFE RD 1655 CAMP RD 1695 CAMP RD 170 CAMP RD 1897 CANDLER RD SE 1897 CANDLER RD SE 170 CAMP RD 170		DECATUR GA 30032 1/12/2019	0 \$ 1,370,14 0 \$ 33,73 0 \$ 1,703,42 0 \$ 1,103,42 0 \$ 1,184,43 0 \$ 1,333,11 0 \$ 2,35,31 0 \$ 3,1,903,98 0 \$ 3,1,903,98 0 \$ 3,1,279,77 0 \$ 7,24,28 0 \$ 311,18 0 \$ 2,279,77 0 \$ 7,24,28 0 \$ 311,279,77 0 \$ 7,24,28 0 \$ 448,25 0 \$ 958,25 0 \$ 958,25 0 \$ 958,25 0 \$ 958,25 0 \$ 573,35 0 \$ 573,35 0 \$ 573,35 0 \$ 573,35 0 \$ 58,55 0 \$ 58,55 0 \$ 58,75	1,370.14 OLBEG	30472 12075 42806 13606 13606 35272 4763 3061 20716 5376 64043 85 3211 5217	31431 60 14352 1 44651 1 13851 1 13851 1 18848 60 39491 1 4971 80 20980 40 20980 40 64154 1 85 80 3251 1 5268 600	57540 2277 1845 245 8580 4219 16640 5840 10560 4720 40 30600	3 0 0 0 16 17 40 25 26 10 0 0 0	5 0 0 17 47 26 20 14 0 0 0
186 193 205 218 433 441 444 446 465 376 485 15 81 103 301 310 315 488 3 3 46 71 76 95 102 113	01995800621 02593614176 040824176 041745029 05154579018 0676243000 1788901165 138976015 1389467015 1389467015 1389467015 1389467015 1389467015 1389467015 1389467015 1389467015 1389467015 1389467015 1389467015 1389467015 1389467015 1389467015 1389467010 00337020 100337020	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrane? Street Lights LUGHTING Street Lights Buena Vista lake Street Lights Mrs. Winners Chicken & Biscuits Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DVLPT SIGN SHOP SIGNAL SHOP STREET Lights SHOAL CRK MAINIT Street Lights WHITES MILL G S ? Street Lights WHITES MILL G S ? Street Lights Traffic Signal RESIDENTIAL Walgreens Street Lights Traffic Signal RESIDENTIAL Walgreens Street Lights TS @ Scott Blvd Street Lights	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-14 10 MEMORIAL DR UNIT PHS-14 10 MEMORIAL DR UNIT PHS-15 10 MEMORIAL DR UNIT PHS-15 10 MEMORIAL DR UNIT PHS-16 10 MEMORIAL DR UNIT PHS-16 10 MEMORIAL DR UNIT PHS-16 10 MEMORIAL DR UNIT PHS-17 10 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT SBLI UNIT SBL		DECATUR	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 184.43 0 \$ 5 1,333.11 0 \$ 235.31 0 \$ 1,903.98 0 \$ 242.38 0 \$ 311.18 0 \$ 225.91 0 \$ 1,903.98 0 \$ 34.25 0 \$ 1,859.59 0 \$ 903.22 0 \$ 903.22 0 \$ 968.25 0 \$ 312.6 0 \$ 312.6 0 \$ 34.62.41 0 \$ 58.73.35 0 \$ 58.75 0 \$ 32.69 0 \$ 34.62.41 0 \$ 33.29 0 \$ 38.41 0 \$ 33.29 0 \$ 38.41 0 \$ 33.29 0 \$ 38.41 0 \$ 33.29 0 \$ 38.41 0 \$ 33.29 0 \$ 38.41	S	30472 12075 42806 13606 18705 35272 4763 3061 20716 5376 64043 85 3211 5217 2250 12213 3004	31431 60 14352 1 44651 1 13851 1 18848 60 39491 1 4971 80 3207 40 20980 40 5494 40 5494 40 55494 1 85 80 3251 1 5268 600 2276 1 12461 1 3173 1	57540 2277 1845 245 8580 4219 16640 15560 4720 111 0 40 30600	252 3 0 0 16 17 40 25 26 10 0 0 240	5 0 0 0 17 47 26 20 14 4 0 0 0 0 0
186 193 205 218 433 441 444 445 465 376 485 15 81 103 301 3301 3315 488 3 46 71 76 95 102 216	0199580062 025936111 0408924176 0414785029 0514529018 0678243000 1788901165 1389076015 1389076015 1389486051 1389486051 1389486051 1389486005 668836008 668836008 668836008 138936008 138948005	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mountain Lake Street Lights Mountain Vista Lake Lights Mountain Vista Lake Lights Mountain Vista Lake Lights Mountain Vista Lake Lights Street Lights Stopp Street Lights SHOAL CRK MAINT Street Lights Street Lights Street Lights Street Lights Traffic Signal RESIDENTIAL Walgreens Street Lights Tsees Scott Blvd Street Lights Ts © Scott Blvd Street Lights LIGHTING RESIDENTIAL LIGHTING	DECALS COUNTY GOVERNMENT DECALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 012 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-18 115HTING 2283 CAMP RD 2280 CAMP RD 22900 MCARE RD 240499 GLENWOOD RD 00 MEMORIAL DR UNIT PHS1A 3675 KENSINGTON RD UNIT 1140 4380 MEMORIAL DR UNIT PHS1A 2480 MEMORIAL DR UNIT PHS1A 2507 MCANDLER RD SE UNIT 9635 3621 CAMP RD 770 CAMP RD 370 CAMP RD 370 CAMP RD 369 GLENWOOD RD UNIT 6117 3649 GLENWOOD RD UNIT 6117		DECATUR GA 30032 1/12/2019	0 \$ 1,370,14 0 \$ 33,73 0 \$ 1,703,42 0 \$ 1,103,42 0 \$ 1,184,43 0 \$ 1,333,11 0 \$ 2,35,31 0 \$ 3,1,903,98 0 \$ 242,38 0 \$ 311,18 0 \$ 25,79 0 \$ 7,24,28 0 \$ 724,28 0 \$ 98,22 0 \$ 98,22 0 \$ 98,22 0 \$ 98,25 0 \$ 1,850,59 0 \$ 3,126 0 \$ 36,85 0 \$ 36	S	30472 12075 42806 13606 13606 35272 4763 3061 20716 5376 64043 85 3211 5217	31431 60 14352 1 44651 1 13851 1 13851 1 18848 60 39491 1 4971 80 20980 40 20980 40 64154 1 85 80 3251 1 5268 600	57540 2277 1845 245 8580 4219 16640 5840 10560 4720 40 30600	3 0 0 0 16 17 40 25 26 10 0 0 0	5 0 0 17 47 26 20 14 0 0 0
186 193 205 218 433 441 444 465 376 485 115 81 103 301 310 3310 315 488 3 3 35 46 71 76 95 102 113 109 226	01995800621 0259814176 040824176 0416745029 0518459018 0678243000 1788901165 1389076015 138946007 3671529000 5708840007 3671529000 5708840007 3671529000 5708840007 367854007 3678540007 3678540007 3678540007 3678540007 3678540007 367854007 36	Street Lights Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrane? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mountain Street Lights Mountain Vista Lake Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DVLPT SIGN SHOP SIGNAL SHOP STREET Lights SHOAL CRIK MAINIT Street Lights STREET Lights WHITES MILL G 5 2 Street Lights Traffic Signal RESIDENTIAL Walgreens Street Lights Traffic Signal RESIDENTIAL UGHTING STREET LIGHTS TS @ Scott Blvd Street Lights TS STRE	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR 00 MEMORIAL DR UNIT PHS18 10 MEMORIAL DR UNIT PHS1A 10 MEMORIAL DR UNIT P		DECATUR GA 30032 1/12/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,1703.42 0 \$ 1,184.43 0 \$ 5,1,333.11 0 \$ 235.31 0 \$ 5,1,333.11 0 \$ 242.38 0 \$ 5,1,333.11 0 \$ 7,242.88 0 \$ 343.25 0 \$ 7,242.88 0 \$ 7,242.88 0 \$ 7,242.88 0 \$ 7,242.88 0 \$ 7,242.88 0 \$ 5,332.60 0 \$ 9,322 0 \$ 9,322 0 \$ 9,322 0 \$ 9,322 0 \$ 9,322 0 \$ 9,322 0 \$ 9,322 0 \$ 9,322 0 \$ 9,322 0 \$ 9,322 0 \$ 9,322 0 \$ 9,322 0 \$ 5,338.60 0 \$ 5,335.60 0 \$	1,370.14 OLBEG	30472 12075 42806 13606 13606 18705 35272 4763 3061 20716 5376 64043 85 3211 5217 2250 12213 3004	31431 60 14352 1 44651 1 13851 1 18848 60 39491 1 4971 80 3207 40 20980 40 5994 40 5994 40 5194 1 85 80 3251 1 5268 600 2276 1 12461 1 3173 1	57540 2277 1845 245 8580 4219 16640 5840 10560 4720 111 0 40 30600 26 248	252 3 0 0 16 17 40 25 26 10 0 0 240	5 0 0 17 47 26 20 14 0 0 0 0 0
186 193 205 218 433 441 444 446 465 376 485 15 81 103 301 310 310 71 76 76 102 113 169 226 2270 286	0199580062 025936111 0408924176 041745029 0514529018 0678243000 1788901165 1389076015 1389486051 13894860	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Bunna Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DUPT SIGN SHOP SIGNAL SHOP STREET Lights SHOAL CRK MAINT Street Lights Traffic Signal RESIDENTIAL Waligneens Street Lights TS © Soott Bind Street Lights TS STREET Lights RESIDENTIAL LIGHTING RESIDENTIAL Church's Chicken	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 F.A.T SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MOUNTAIN DR 4450 MEMORIAL DR UNIT PHS-18 00 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UN		DECATUR GA 30032 1/12/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 18.443 0 \$ 5 1,393.11 0 \$ 235.31 0 \$ 1,903.98 0 \$ 242.38 0 \$ 3,133.11.18 0 \$ 225.31 0 \$ 1,903.98 0 \$ 242.38 0 \$ 327.90 0 \$ 724.28 0 \$ 5 29.79 0 \$ 724.28 0 \$ 5 36.85 0 \$ 31.16 0 \$ 5 30.85 0 \$ 31.26 0 \$ 5 30.85 0 \$ 36.85 0 \$ 36.85 0 \$ 36.85 0 \$ 5 36.85 0 \$ 5 573.35 0 \$ 5 573.35 0 \$ 5 55.38 0 \$ 5 55.38 0 \$ 5 55.38 0 \$ 5 55.38 0 \$ 5 55.38 0 \$ 5 55.38 0 \$ 5 55.38 0 \$ 5 55.38 0 \$ 5 55.38 0 \$ 5 32.29 0 \$ 5 83.41 0 \$ 5 68.83 0 \$ 5 68.83 0 \$ 5 68.83 0 \$ 5 68.83 0 \$ 5 68.83 0 \$ 5 68.83	\$ 1,370.14 OL REG	30472 12075 42806 13606 13606 136705 35272 4763 3061 20716 5376 64043 85 3211 5217 2250 12213 3004	31431 60 14352 1 44651 1 13851 1 13851 1 14971 80 2070 40 20980 40 20980 40 64154 1 85 80 3251 1 5268 600 2276 1 12461 1 3173 1	57540 2277 1845 245 245 8580 4219 16640 10560 4720 1111 0 40 30600 26 248 169	252 3 0 0 0 16 17 40 25 26 10 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 17 47 26 20 0 0 0 0 0 0 0
186 193 205 205 218 433 441 444 465 376 376 81 103 301 310 310 315 488 3 3 5 46 71 76 95 102 113 169 226 2270 286	0199580062 0259396111 041875029 0514750918 0676243000 1788901165 1838076015 1838076015 1838076015 1838466051 183846601 183867015 3209565018 3209565018 364848000 3671529000 5708840005 5708840005 5708840005 66683836008 6689336008 1757834011 757834011 053378021 063378021 07578361009 9592837001 083378021 083363044 2633643000 2993220086 0033364690 00530336169 0053363015 0551362013	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DULPT SIGNAL SHOP SIGNAL SHOP STREET Lights SHOAL CRK MAINIT STREET Lights SHOAL CRK MAINIT STREET Lights SHOAL CRK MAINIT STREET Lights STREET Lights Traffic Signal RESIDENTIAL Wallgreens Street Lights TS STREET Lights RESIDENTIAL LIGHTING RESIDENTIAL Church's Chicken Street Lights	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 10 MEMORIAL DR UNIT PHS-18 450 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-19 10 MEMORIAL DR UNIT PHS-14 10 MEMORIAL DR UNIT PHS-14 10 MEMORIAL DR UNIT PHS-14 10 MEMORIAL DR UNIT PHS-15 10 MEMORIAL DR UNIT PHS-16 10 MEMORIAL DR UNIT PHS-16 10 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-19 10 MEMORIAL DR UNIT SBS-11 10 MEMOR		DECATUR GA 30032 1/12/2019	0 \$ 1,370,14 0 \$ 33.73 0 \$ 1,703,42 0 \$ 1,703,42 0 \$ 1,1334 0 \$ 1,1334 0 \$ 1,333,11 0 \$ 235,31 0 \$ 242,38 0 \$ 31,18 0 \$ 225,31 0 \$ 5 242,38 0 \$ 5 31,18 0 \$ 724,28 0 \$ 5 31,29 0 \$ 724,28 0 \$ 3 1,29,77 0 \$ 724,28 0 \$ 958,25 0 \$ 73,35 0 \$ 958,25 0 \$ 3,850,50 0 \$ 3,850,50 0 \$ 3,850,50 0 \$ 3,250	1,370.14 OLBEG	30472 12075 42806 13606 13606 13675 35272 4763 3061 20716 5376 64043 85 321 5217 2250 12213 3004	31431 60 14352 1 44651 1 13851 1 18848 60 139491 1 4971 80 20980 40 20980 40 64154 1 85 80 3251 1 5268 600 2276 1 12461 1 3173 1 2377 1 1291 1	57540 2277 1845 245 8580 4219 16640 5840 10560 4720 4720 4721 26 248 169	252 3 0 0 16 17 40 25 26 10 0 0 240	5 0 0 117 47 26 20 14 0 0 0 0 0
186 193 205 218 433 441 444 445 475 376 485 115 81 103 301 315 488 3 35 46 71 76 95 102 226 270 286 3224 327	01995800621 025981476 041745029 05194579018 0678243000 1788901165 1383976015 1383976015 1383976015 1383976015 13834687015 3209565018 3648840007 3671529000 5708884000 6668836008 7538834011 7556834002 7577834011 844590109 952827901 003337205 003332802 00332802 00332802 00332802 00332802 00332802 00333804 003336409 005553015 0053580400 20362502 0033580400 00336609 0053580400	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Bunna Vitat Lake Street Lights Bunna Vitat Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW HUM App & Test COMMUNITY DUPT SIGN SHOP SIGNAL SHOP STREET Lights SHOPAL CRIK MAINT Street Lights Traffic Signal RESIDENTIAL Walgreens Street Lights Traffic Signal RESIDENTIAL LIGHTING RESIDENTIAL LIGHTING RESIDENTIAL LIGHTING RESIDENTIAL LIGHTING RESIDENTIAL LIGHTING RESIDENTIAL Church's Chicken Street Lights GREENHOUSE OFF GREENHOUSE STOR	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-18 450 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-19 10 MEMORIAL DR UNIT PHS-19 10 MEMORIAL DR UNIT PHS-10 10 MEMORI		DECATUR	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,703.42 0 \$ 1,843.31 0 \$ 3,333.11 0 \$ 1,333.11 0 \$ 1,333.11 0 \$ 242.38 0 \$ 3,333.11 0 \$ 242.38 0 \$ 3,333.11 0 \$ 242.38 0 \$ 372.42 0 \$ 5 263.30 0 \$ 724.28 0 \$ 5 363.50 0 \$ 724.28 0 \$ 5 363.50 0 \$ 724.28 0 \$ 5 363.50 0 \$ 724.28 0 \$ 5 363.50 0 \$ 724.28 0 \$ 5 363.50	S	30472 12075 42806 13606 18705 3061 20716 5376 64043 85 2250 12213 3004 2250 12213 3004	31431 60 14352 1 44651 1 13851 1 13851 1 13851 1 14971 80 20980 40 20980 40 64154 1 85 80 3251 1 5268 600 2276 1 12461 1 3173 1 2377 1 1291 1 5773 40 80 40	57540 2277 1845 245 245 8580 4219 16640 10560 4720 1111 0 40 30600 26 248 169 26 20 5560 560	252 3 0 0 0 16 17 40 25 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 17 26 20 14 0 0 0 0 0 0 0
186 193 205 218 433 441 444 465 376 376 485 15 103 301 311 76 95 102 113 109 226 286 287 334 346	0199580062 0255936111 0408924176 0414785029 0514529018 0678243000 1788901165 1389076015 1389076015 1393486051 1393486051 1393486051 1393486051 1393486051 1393486051 1393486051 1393486051 1393486051 139348005 1576834002 157683402	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrann ? Street Lights LIGHTING Street Lights Buena Vista Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW Hum App & Test COMMUNITY DUPT SIGNAL SHOP STREET Lights STREET Lights STREET Lights SHOAL GRIV MAINT STREET Lights STREET Lights STREET Lights Traffic Signal RESIDENTIAL Walgreens Street Lights TS & Scott Bird Street Lights TS & Street Lights TRESIDENTIAL LIGHTING RESIDENTIAL Church's Chicken Street Lights GREENHOUSE OFF GREENHOUSE FOR	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 10		DECATUR GA 30032 1/12/2019	0 \$ 1,370,14 0 \$ 33,73 0 \$ 1,703,42 0 \$ 1,703,42 0 \$ 1,1334 0 \$ 1,333,11 0 \$ 2,35,31 0 \$ 3,1,333,11 0 \$ 2,25,31 0 \$ 3,1,323,11 0 \$ 2,25,31 0 \$ 3,1,203,98 0 \$ 311,18 0 \$ 724,28 0 \$ 311,18 0 \$ 724,28 0 \$ 311,29,77 0 \$ 724,28 0 \$ 98,25 0 \$ 733,58 0 \$ 1,859,59 0 \$ 98,25 0 \$ 98,25 0 \$ 31,26 0 \$ 98,25 0 \$ 31,26 0 \$ 5,33,50 0 \$ 32,29 0 \$ 98,25 0 \$ 31,26 0 \$ 5,33,50 0 \$ 32,29 0 \$ 384,10 0 \$ 5,38,76 0 \$ 5,38	1,370.14 OLBEG	30472 12075 42806 13606 13606 13607 18705 3051 20716 5376 64043 85 3211 5217 2250 12213 3004	31431 60 14352 1 44651 1 13851 1 18848 60 39491 1 4971 80 20980 40 20980 40 64154 1 85 80 3251 1 5268 600 2276 1 12461 1 3173 1 2377 1 1291 1 5773 40 80 40 29580 1	57540 2277 1845 2427 1845 8580 4219 16640 5840 10560 4720 111 0 40 30600 26 248 169	252 3 0 0 0 16 17 40 25 26 10 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 17 47 26 20 14 0 0 0 0 0 0
186 193 205 218 433 441 444 445 475 376 485 115 81 103 301 315 488 3 35 46 71 76 95 102 226 270 286 3224 327	01995800621 025981476 041745029 05194579018 0678243000 1788901165 1383976015 1383976015 1383976015 1383976015 13834687015 3209565018 3648840007 3671529000 5708884000 6668836008 7538834011 7556834002 7577834011 844590109 952827901 003337205 003332802 00332802 00332802 00332802 00332802 00332802 00333804 003336409 005553015 0053580400 20362502 0033580400 00336609 0053580400	Street Lights Street Lights Street Lights Street Lights Street Lights Cashtrans? Street Lights LIGHTING Street Lights Bunna Vitat Lake Street Lights Bunna Vitat Lake Street Lights Mrs. Winners Chicken & Biscuits Street Lights MOUNTAIN VIEW HUM App & Test COMMUNITY DUPT SIGN SHOP SIGNAL SHOP STREET Lights SHOPAL CRIK MAINT Street Lights Traffic Signal RESIDENTIAL Walgreens Street Lights Traffic Signal RESIDENTIAL LIGHTING RESIDENTIAL LIGHTING RESIDENTIAL LIGHTING RESIDENTIAL LIGHTING RESIDENTIAL LIGHTING RESIDENTIAL Church's Chicken Street Lights GREENHOUSE OFF GREENHOUSE STOR	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	00 MEMORIAL DR UNIT PHS-2 02 FLAT SHOALS RD 00 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-3 0 MEMORIAL DR UNIT PHS-18 450 MEMORIAL DR UNIT PHS-18 10 MEMORIAL DR UNIT PHS-19 10 MEMORIAL DR UNIT PHS-19 10 MEMORIAL DR UNIT PHS-10 10 MEMORI		DECATUR GA 30032 1/12/2019	0 \$ 1,370.14 0 \$ 33.73 0 \$ 1,703.42 0 \$ 1,703.42 0 \$ 1,103.42 0 \$ 1,184.43 0 \$ 5,1,333.11 0 \$ 235.31 0 \$ 5,1,333.11 0 \$ 225.31 0 \$ 1,903.98 0 \$ 31.11.8 0 \$ 225.91 0 \$ 724.28 0 \$ 443.25 0 \$ 724.28 0 \$ 903.22 0 \$ 903.22 0 \$ 903.22 0 \$ 958.25 0 \$ 573.35 0 \$ 373.35 0 \$ 36.85 0 \$ 36.85 0 \$ 312.6 0 \$ 4,462.41 0 \$ 5,53.85 0 \$ 36.85 0 \$ 36.85 0 \$ 32.69 0 \$ 325.50 0 \$ 36.85 0 \$ 36.8	S	30472 12075 42806 13606 13606 13705 33727 4763 3061 20716 5376 64043 85 3211 5217 2250 12213 3004 2351 2456 2456 2576 2576 2576 2576 2576 2576 2576 2576 2577 2750	31431 60 14352 1 44651 1 13851 1 13851 1 13851 1 14971 80 20980 40 20980 40 64154 1 85 80 3251 1 5268 600 2276 1 12461 1 3173 1 2377 1 1291 1 5773 40 80 40	57540 2277 1845 245 245 8580 4219 16640 10560 4720 1111 0 40 30600 26 248 169 26 20 5560 560	252 3 0 0 0 16 17 40 25 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 17 26 20 14 0 0 0 0 0 0

383	1588364024	Community Achievement Center	DEKALB COUNTY GOVERNMENT	4522 FLAT SHOALS RD		DECATUR GA 30034 1/8/2019 0 \$ 311.98 \$ 311.98 PLS-C 2809690 12/5/2018 1/7/2019 32427 35771	1 3344	7 6
425	1863242167	Street Lights	DEKALB COUNTY GOVERNMENT	0 RIVER RD		DECATION GA 30034 1/10/2019 0 5 511.36 5 511.36 17 15-C 260/9990 12/3/2016 17/12/19 32427 537/1	1 3344	/ •
427	2343073032	Kroger Supermarket Shopping Center	DEKALB COUNTY GOVERNMENT	4919 FLAT SHOALS PKWY		DECATUR GA 30034 1/2/2019 0 \$ 13.80 \$ 13.80 TC 11/3/2018 1/2/2019		
436	2853837002	COLUMBIA G S	DEKALB COUNTY GOVERNMENT	COLUMBIA G S 1770 COLUMBIA DR UNIT WATER		DECATUR GA 30034 12/20/2018 0 \$ 6,132.21 \$ 6,132.21 PLM-C 3540784 11/19/2018 12/20/2018 6673 6796	400 49200	208 194
459	3061842076	South DeKalb Mall	DEKALB COUNTY GOVERNMENT	2801 CANDLER RD STE 66		DECATUR GA 30034 1/3/2019 0 \$ 957.34 \$ 957.34 PLS-C 3138039 12/2/2018 1/3/2019 70482 81612	1 11130	31 19
461	3363613024	Community Achievement Center	DEKALB COUNTY GOVERNMENT	4522 FLAT SHOALS RD		DECATUR GA 30034 12/28/2018 0 \$ 307.02 \$ 307.02 OL GOVT 11/28/2018 12/28/2018		
480	3901842021	South DeKalb Shopping Center	DEKALB COUNTY GOVERNMENT	2853 CANDLER RD STE 100		DECATUR GA 30034 1/3/2019 0 \$ 83.45 \$ 83.45 GS-C 3299872 12/2/2018 1/2/2019 23052 23457	1 405	0 0
490	3911836017	Community Achievement Center	DEKALB COUNTY GOVERNMENT	4522 FLAT SHOALS RD		DECATUR GA 30034 1/9/2019 0 \$ 1,002.70 \$ 1,002.70 TOU-MB 3341847 12/6/2018 1/9/2019 1368 1522	80 12320	37 0
495	3953836017	Community Achievement Center	DEKALB COUNTY GOVERNMENT	4522 FLAT SHOALS RD	UNIT TNSCT	DECATUR GA 30034 1/8/2019 0 \$ 198.56 \$ 198.56 GS-C 2985436 12/5/2018 1/7/2019 70984 72113	1 1129	0 0
16	4069842015	South DeKalb Shopping Center ?	DEKALB COUNTY GOVERNMENT	2853 CANDLER RD STE 203		DECATUR GA 30034 1/3/2019 0 \$ 1,338.88 \$ 1,338.88 TOU-MB 3120563 12/2/2018 1/2/2019 38014 38442	40 17120	56 0
39	5341836016	Street Lights	DEKALB COUNTY GOVERNMENT	SERVICE 2390 WILDCAT RD UNIT MAIN		DECATUR GA 30034 1/8/2019 0 \$ 114.74 \$ 114.74 PLS-C 3138656 12/5/2018 1/7/2019 3254 3261	80 560	2 5
63	7849835022	Street Lights	DEKALB COUNTY GOVERNMENT	3183 RAINBOW DR		DECATUR GA 30034 1/3/2019 0 \$ 344.13 \$ 344.13 OL REG 4026509 12/3/2018 1/3/2019 1986 1991	1 5	0 0
123	0909191028	Great Faith Ministries Atlanta	DEKALB COUNTY GOVERNMENT	1500 AGAPE WAY		DECATUR GA 30035 1/9/2019 0 \$ 66.33 \$ 66.33 GS-I 3145237 12/6/2018 1/8/2019 24332 24635	1 303	0 0
139	7413850028	Street Lights	DEKALB COUNTY GOVERNMENT	2074 S HAIRSTON RD		DECATUR GA 30035 12/27/2018 0 \$ 23.17 \$ 23.17 TCM 7328962 11/27/2018 12/27/2018 6067 6186	1 119	0 0
145	8529852004	SCARBROUGH L S	DEKALB COUNTY GOVERNMENT	SCARBROUGH L S 5810 COVINGTON HWY		DECATUR GA 30035 1/7/2019 0 \$ 264.34 \$ 264.34 GS-I 3174913 12/4/2018 1/6/2019 25030 26602	1 1572	0 0
147	0003389606	Street Lights	DEKALB COUNTY GOVERNMENT	0 ENERGY ONLY NORTH		DORAVILLE GA 30340 12/28/2018 0 \$ 607.77 \$ 607.77 OL GOVT 11/28/2018 12/28/2018		
197	0108417036	Chiefs Fubot Club	DEKALB COUNTY GOVERNMENT	3650 PLEASANTDALE RD		DORAVILLE GA 30340 1/3/2019 0 \$ 266.24 \$ 266.24 OLUNR 12/3/2018 1/3/2019		
238	0111114017	Citgo Gas Station	DEKALB COUNTY GOVERNMENT	5417 BUFORD HWY NE		DORAVILLE GA 30340 1/9/2019 0 \$ 668.27 \$ 668.27 PLS-C 1670626 12/6/2018 1/8/2019 8320 14998	1 6678	14 14
250	0871364037	PEDLIGHTS	DEKALB COUNTY GOVERNMENT	PEDLIGHTS 5215 BUFORD HWY		DORAVILLE GA 30340 1/7/2019 0 \$ 604.43 \$ 604.43 PLS-C 1671685 12/4/2018 1/6/2019 21291 27734	1 6443	12 12
255	7542371001	Chiefs Fubot Club	DEKALB COUNTY GOVERNMENT	3650 PLEASANTDALE RD		DORAVILLE GA 30340 1/2/2019 0 \$ 3,392.73 \$ 3,392.73 OL-UGNT 3227620 11/28/2018 12/30/2018 7097 7143	40 1840	2 212
351	0435569038	Street Lights	DEKALB COUNTY GOVERNMENT	2111 MOUNT VERNON RD		DUNWOODY GA 30338 12/18/2018 0 \$ 22.46 \$ 22.46 GS-I 7571947 11/14/2018 12/14/2018 0 0	1 0	0 0
360	0620786003	DEK CNT GVT FIN	DEKALB COUNTY GOVERNMENT	5187 TILLY MILL RD	UNIT 8021	DUNWOODY GA 30338 1/16/2019 0 \$ 1,153.43 \$ 1,153.43 PLM-I 3528139 12/13/2018 1/15/2019 17637 17809	40 6880	58 86
414	1398783000	DUNWOODY G S	DEKALB COUNTY GOVERNMENT	5335 ROBERTS DR UNIT 8021		DUNWOODY GA 30338 12/19/2018 0 \$ 997.86 \$ 997.86 TOU-MB 3233185 11/15/2018 12/19/2018 0 158	60 10680	79 0
430	1419783002	N DEKALB ART	DEKALB COUNTY GOVERNMENT	5345 ROBERTS DR UNIT 1140	1	DUNWOODY GA 30338 12/18/2018 0 \$ 260.63 \$ 260.63 GS-C 1671389 11/15/2018 12/17/2018 98003 99499	1 1496	0 0
450	0108174027	RESIDENTIAL	DEKALB COUNTY GOVERNMENT	RESIDENTIAL 4834 CARLY WAY		LITHONIA GA 30038 1/7/2019 0 \$ 225.10 \$ 225.10 RES 3123548 12/4/2018 1/6/2019 63981 66296	1 2315	0 0
36	0702680055	Stonecrest Mall Parking Lights?	DEKALB COUNTY GOVERNMENT	2929 TURNER HILL RD	STE 1430	LITHONIA GA 30038 1/16/2019 0 \$ 284.53 \$ 284.53 PLS-C 3128208 12/12/2018 1/14/2019 89857 91419	1 1562	7 14
50	2683986014	Street Lights	DEKALB COUNTY GOVERNMENT	5574 ROCK SPRINGS RD		LITHONIA GA 30038 1/2/2019 0 \$ 21.83 \$ 21.83 TC 11/30/2018 1/2/2019		
82	3153939017	RESIDENTIAL	DEKALB COUNTY GOVERNMENT	Burlington Lift Station 3885 WOLVERTON CIR	+ + + + + + + + + + + + + + + + + + + +	LITHONIA GA 30038 12/28/2018 0 \$ 529.18 \$ 529.18 PLS-I 3146163 11/27/2018 12/27/2018 91230 94257	1 3027	9 16
89	3803658016	Publix Supermarket ATM	DEKALB COUNTY GOVERNMENT	3045 PANOLA RD	 	UTHONIA GA 30038 1/7/2019 0 \$ 28.12 \$ 28.12 TCM 7547513 12/5/2018 1/7/2019 10721 10941	1 220	0 0
90	4083731135	Street Lights	DEKALB COUNTY GOVERNMENT	4673 THOMPSON MILL RD	+	LITHONIA GA 30038 1/7/2019 0 \$ 23.06 \$ 23.06 GS-C 7033983 12/5/2018 1/7/2019 2209 2225	1 16	0 0
138	0410273335	TS@COVINGTN HWY	DEKALB COUNTY GOVERNMENT	7227 COVINGTON HWY	LINUT CAAO	LITHONIA GA 30058 12/17/2018 0 \$ 14.93 \$ 14.93 TC 11/15/2018 12/17/2018	+ , + . +	
199	2738844009	EMMIE SMITH	DEKALB COUNTY GOVERNMENT	6329 SHADOW ROCK DR	UNIT 6118	LITHONIA GA 30058 1/14/2019 0 \$ 22.66 \$ 22.66 GS-C 4065190 12/10/2018 1/11/2019 152 152	1 0	0 0
235	3443845004 5274849003	ACCOUNTING SERV	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	ACCOUNTING SERVICES 2146 S DESHON RD UNIT B 6118 AC220 5848 HILIVALE RD LINIT MAINT	 	LITHONIA GA 30058 1/15/2019 0 \$ 13.65 \$ 13.65 RES 4542563 12/13/2018 1/15/2019 3002 3013 LITHONIA GA 30058 12/31/2018 0 \$ 370.47 \$ 370.47 PIS-C 2985187 11/29/2018 12/30/2018 6278 11/59	1 11 4881	0 0
296		6118 AC220					- 1002	
344	6724799004	8133 AC 220 EAS	DEKALB COUNTY GOVERNMENT	8133 AC 220 EAST LOT 1750 ROGERS LAKE RD	UNIT 8133	LITHONIA GA 30058 1/16/2019 0 \$ 697.53 \$ 697.53 TOU-MB 3231273 12/13/2018 1/16/2019 18236 18372	60 8160	14 0
362	6745799004	EAST LOT GAS	DEKALB COUNTY GOVERNMENT	EAST LOT GAS 1750 ROGERS LAKE RD	UNIT 1210	UTHONIA GA 30058 1/16/2019 0 \$ 125.67 \$ 125.67 GS-I 4068996 12/13/2018 1/15/2019 1164 1181	40 680	0 0
439 101	7043843024	Street Lights	DEKALB COUNTY GOVERNMENT	6094 SHADOW ROCK DR		LITHONIA GA 30058 1/11/2019 0 \$ 236.68 \$ 236.68 GS-C 7331099 12/10/2018 1/11/2019 61139 62505 LITHONIA GA 30058 1/11/2019 0 \$ 288.24 \$ 288.24 TOLI-MB 3296655 12/10/2018 1/11/2019 2577 2624	1 1366	34 0
	7064843024	Street Lights MV IRRIG	DEKALB COUNTY GOVERNMENT	6094 SHADOW ROCK DR	UNIT CARTS		40 1880	
151 56	7127843008 7442843000	KINGWAY L S	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	6094 SHADOW ROCK DR 5985 KINGWAY WALK UNIT 8033	UNIT 6110	LITHONIA GA 30058 1/12/2019 0 \$ 360.60 \$ 360.60 TOU-MB 3231348 12/10/2018 1/12/2019 1490 1573 LITHONIA GA 30058 1/11/2019 0 \$ 252.86 \$ 252.86 GS-I 3124536 12/9/2018 1/10/2019 76366 77861	40 3320 1 1495	14 0 0 0
	8362798014		DEKALB COUNTY GOVERNMENT	5985 KINGWAY WALK UNIT 8033 1116 ROCK CHAPEL RD	UNIT 6118		1 1495	0 0
216 248	8404798007	ROCK CHAPEL ROCK CHAPEL	DEKALB COUNTY GOVERNMENT	ROCK CHAPEL RD 1116 ROCK CHAPEL RD	UNIT 6118	LITHONIA GA 30058 1/16/2019 0 \$ 27.74 \$ 27.74 GS-C 3149794 12/13/2018 1/15/2019 27681 27733 LITHONIA GA 30058 1/16/2019 0 \$ 23.01 \$ 23.01 GS-C 4019566 12/14/2018 1/16/2019 7103 7113	1 10	0 0
181	5181744002	HAMILTON CTR	DEKALB COUNTY GOVERNMENT	ROCK CHAPEL ND 3262 CHAPEL ND 3262 CHAPEL ST	UNII 6118			
	3181744002	HAMILION CIK						
47	0126102024	Conital City Book				SCOTTDALE GA 30079 12/18/2018 0 \$ 2,738.66 \$ 2,738.66 \$ CH 3118522 11/15/2018 12/17/2018 33585 33839	80 20320	43 79
47	0136187034	Capital City Bank	DEKALB COUNTY GOVERNMENT	5674 MEMORIAL DR		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GS-C 11/27/2018 12/27/2018 15600 15678	1 78	0 0
189	0229285009	Waffle House	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	5674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GS-C 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 1/16/2019 0 \$ 23.39 \$ 23.39 GS-C 4529190 12/14/2018 1/16/2019 2136 2159		
189 41	0229285009 0261837003	Waffle House MAIN BLDG	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOV'T	5674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5384 MANOR DR		TONE MOUNTAIN GA 30003 1/27/27018 0 \$ 31.62 \$ 31.62 GSC 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 1/16/2019 0 \$ 23.39 GSC 4529190 12/14/2018 1/16/2019 2136 2159 TONE MOUNTAIN GA 30081 12/14/2018 0 \$ 700.42 \$ 700.42 TONE MOUNTAIN GA 30081 12/14/2018 0 \$ 700.42 \$ 700.42 TONE MOUNTAIN GA 30081 12/14/2018 0 \$ 700.42 \$ 700.42 TONE MOUNTAIN GA 30081 12/14/2018 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 78	0 0
189 41 54	0229285009 0261837003 0282837021	Waffle House	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOV'T DEKALB COUNTY GOV'T	5674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 S384 MANOR DR 1005 SECOND ST		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GS-C 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/16/2019 0 \$ 23.39 \$ 52.39 GS-C 4529190 12/14/2018 1/16/2019 2136 2159 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$ 700.42 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 47.49 \$ 47.49	1 78	0 0
189 41 54	0229285009 0261837003 0282837021 0717153047	Waffle House MAIN BLDG KILN & POTTERY Townhouse ?	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOV'T DEKALB COUNTY GOV'T DEKALB COUNTY GOVERNMENT	5674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5384 MANOR DR 1005 SECOND 5T 4477 WATSON RIDGE DR		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 \$ 65.C \$ 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 23.39 \$ 23.39 \$ 65.C \$ 4529190 12/14/2018 1/16/2019 2136 2159 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$	1 78 1 23	0 0 0
189 41 54 87 126	0229285009 0261837003 0282837021 0717153047 1061849019	Waffle House MAIN BLDG KILN & POTTERY Townhouse ? DeKalb County School Public Safety	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVENMENT DEKALB COUNTY GOV'T DEKALB COUNTY GOVENMENT DEKALB COUNTY GOVENMENT DEKALB COUNTY GOVERNMENT	5674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5384 MANDRO RD 1005 SECOND ST 4477 WATSON RIDGE DR 5881 MEMORIAL DR		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GS-C 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 723.39 \$ 32.39 GS-C 4529190 12/14/2018 17.66/2019 21.36 21.59 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$ 700.42 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 47.49 \$ 47.49 TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 51.82 \$ 151.82 OUNR 11/27/2018 12/27/2018 17.76/2018 17.7	1 78 1 23 40 8840	0 0 0 0
189 41 54	0229285009 0261837003 0282837021 0717153047	Waffle House MAIN BLDG KIUN & POTTERY Townhouse? DeKalb County School Public Safety Street Lights	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOV'T DEKALB COUNTY GOV'T DEKALB COUNTY GOVERNMENT	5674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5384 MANOR DR 1005 SECOND 5T 4477 WATSON RIDGE DR		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 \$ 65.C \$ 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 23.39 \$ 23.39 \$ 65.C \$ 4529190 12/14/2018 1/16/2019 2136 2159 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$	1 78 1 23	0 0 0
189 41 54 87 126 243 34	0229285009 0261837003 0282837021 0717153047 1061849019 1187199016 7395760001	Waffle House MAIN BLDG KILN & POTTERY Townhouse? DeKalb County School Public Safety Street Lights Street Lights	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVT DEKALB COUNTY GOVT DEKALB COUNTY GOVERNMENT	5674 MEMORIAL DR 7977 ROCKRIEDE R DUNIT 20 5384 MANOR R R 1005 SECOND 5T 4477 WATSON RIDGE DR 5861 MEMORIAL DR 5128 STONE MILL WAY 4700 CLARION PASS		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GSC 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 720.42 \$ 700.42 \$ 7	1 78 1 23 40 8840 1 4192	0 0 0 0
189 41 54 87 126 243 34	0229285009 0261837003 0282837021 0717153047 1061849019 1187199016 7395760001 8672771030	Waffle House MAIN BLDG KILIN & POTTERY Townhouse? DeKalb County School Public Safety Street Lights MTR & Lights	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOV'T DEKALS COUNTY GOV'T DEKALS COUNTY GOV'T DEKALS COUNTY GOV'ERNMENT DEKALS COUNTY GOVERNMENT	5674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5384 MANDR DR 1005 SECOND ST 4477 WATSON RIDGE DR 5861 MEMORIAL DR 5382 STONE MILL WAY 470C CLARION PASS MTR & LIGHTING 1640 ROADHAVEN DR	UNIT 6118	TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GS-C 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 22.33 \$ GS-C 4529190 12/14/2018 1/16/2019 21.36 2159 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$ 700.42 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 47.49 \$ 47.49 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 151.82 \$ 151.82 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 751.65 \$ 751.65 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 751.65 \$ 751.65 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 751.65 \$ 751.65 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 751.65 \$ 751.65 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 425.41 \$ 425.41 \$ PI.S-I 3319383 11/19/2018 12/18/2018 3883 8075 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.04 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.04 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.04 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.04 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.04 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 0 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 10 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 10 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 10 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 10 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 10 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 10 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 10 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 10 \$ 252.07 \$ 252.04 TONE MOUNTAIN GA 30083 12/26/2018 10 \$ 252.07 \$ 252.00 \$ 252	1 78 1 23 40 8840 1 4192 1 1517	0 0 0 0
189 41 54 87 126 243 34 143 176	0229285009 0261837003 0282837021 0717153047 1061849019 1187199016 7395760001 8672771030 3784804005	Waffle House MAIN BLDG KILN & POTTERY Townhouse? DeKalb County School Public Safety Street Lights Street Lights	DEKALS COUNTY GOVERNMENT	5574 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5384 MANOR DR 1005 SECOND 5T 4477 WATSON RIDGE DR 5881 MEMORIAL DR 5128 STONE MILL WAY 4700 CLARION PASS 1469 ROADHAVEN DR MEETING HOUSE 1034 STEPHENSON RD 1034 STEPHENSON	UNIT 6118	TONE MOUNTAIN GA 30083 12/27/2018	1 78 1 23 40 8840 1 4192 1 1517 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34	0229285009 0261837003 0282837021 0717153047 1061849019 1187199016 7395760001 8672771030	Waffle House MAIN BLDG KIN & POTTERY Townhouse ? DeKalb County School Public Safety Street Lights ATR & LIGHTS METRIC HOUSE	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOV'T DEKALS COUNTY GOV'T DEKALS COUNTY GOV'T DEKALS COUNTY GOV'ERNMENT DEKALS COUNTY GOVERNMENT	5674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5384 MANDR DR 1005 SECOND ST 4477 WATSON RIDGE DR 5861 MEMORIAL DR 5382 STONE MILL WAY 470C CLARION PASS MTR & LIGHTING 1640 ROADHAVEN DR	UNIT 6118 UNIT 6118	TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GS-C 11/27/2018 12/27/2018 15600 15678 150NE MOUNTAIN GA 30083 12/17/2018 0 \$ 723.39 \$ 5.700.42 \$ 700.42	1 78 1 23 40 8840 1 4192 1 1517	23 0 11 9
189 41 54 87 126 243 34 143 176	022928509 0261837003 0262837021 0717153047 1061849019 1187199016 7395760001 8672771030 3784804005 4545836015	Waffle House MAIN BLDG KILN & POTTERY Townhouse ? DeValb County School Public safety Street Lights Street Lights MIT & LIGHTS MEETING HOUSE Residental House	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVT DEKALS COUNTY GOVERNMENT	5674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5384 MANDR R R 1005 SECOND ST 4477 WATSON RIDGE DR 5861 MEMORIAL DR 5382 STONE MILL WAY 4700 CLARION PASS MTR & LIGHTING 1640 ROADHAVEN DR METING HOUSE 1034 STEPHENSON RD 606 CATRINA CT 606		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GS-C 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 23.39 \$ GS-C 4529190 12/14/2018 1/16/2019 21.36 21.59 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$ 700.42 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 47.49 \$ 47.49 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 151.82 \$ 151.82 \$ 0LUNR 11/27/2018 11/27/2018 12/17/2018 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 751.65 \$ 751.65 TOU-MB 3148436 11/18/2018 12/18/2018 26055 26276 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 425.41 \$ 425.41 \$ PL\$-1 3339383 11/19/2018 12/18/2018 3883 8075 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 12/18/2018 3883 8075 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 12/18/2018 3883 8075 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 17/18/2018 26055 26276 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 17/18/2018 26055 26276 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 17/18/2018 26055 26276 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 17/18/2018 26055 26276 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 17/18/2018 26055 26276 TONE MOUNTAIN GA 30083 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 17/18/2018 26055 26276 TONE MOUNTAIN GA 30087 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 13/19/2018 26055 26276 TONE MOUNTAIN GA 30087 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 13/19/2018 26055 26276 TONE MOUNTAIN GA 30087 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 13/19/2018 26055 26276 TONE MOUNTAIN GA 30087 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 13/19/2018 26055 26276 TONE MOUNTAIN GA 30087 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 11/26/2018 11/26/2018 13/19/2018 26055 26276 TONE MOUNTAIN GA 30087 12/19/2018 0 \$ 252.04 \$ 252.04 0LUNR 26/2018 26/2018 26/2018 26/2018 26/201	1 78 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815	23 0 11 9 4 6 0 0 7 5
189 41 54 87 126 243 34 143 176 237 247	0229285009 0261837003 0282837021 0777153047 1061849019 1187199016 7395760001 8672771030 3784804005 4545836015 1353833003	Waffle House MAIN BLDG KILN & POTTERY Townhouse ? DeKalb County School Public Safety Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WALKER MAI	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVT DEKALS COUNTY GOVT DEKALS COUNTY GOVERNMENT	5574 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5884 MANOR RR 1005 SECOND ST 4477 WATSON RIDGE DR 5881 MEMORIAL DR 670 CLARION PASS METING HOUSE 1043 STEPHENSON RD 680 CATRINA CT 5858 ROCKBRIDGE RD 5858 ROCKBRIDGE RD		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 23.16.2 \$ 31.62 \$ 65.C \$ 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/16/2019 0 \$ 23.39 \$ 5.23.39 \$ 65.C \$ 4529190 12/14/2018 1/16/2019 21.36 2159 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$ 700.	1 78 1 23 40 8840 1 4192 1 1 1517 1 0 1 2815 1 1 1397	23 0 111 9 4 6 0 0 7 5 0 0
189 41 54 87 126 243 34 143 176 237 247	0229285009 0261837003 0282837021 0717153047 1061849019 1187199016 7395760001 8672771030 3784804005 4545836015 1353833003 3893836008	Waffle House MAN BLDG KINN & POTTERY Townhouse? Deals Documy School Public Safety Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WAKER MAI EAST SHOP	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVT DEKALB COUNTY GOVERNMENT	5674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5384 MANOR DR 1005 SECOND 5T 4477 WATSON RIDGE DR 5861 MEMORIAL DR 5128 STONE MILL WAY 4700 CLARION PASS MTR & LIGHTING 1640 ROADHAVEN DR MEETING HOUSE 1034 STEPHENSON RD 608 CATRINA CT 5585 ROCKBRIDGE RD 5550 WALKER RD UNIT 6118		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GSC 11/27/2018 12/27/2018 15600 15678 150NE MOUNTAIN GA 30083 17/27/2018 0 \$ 23.39 GSC 4529190 12/14/2018 17/16/2019 21.36 21.59 150NE MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$	1 78 1 23 40 8840 1 4192 1 1 1517 1 0 1 2815 1 1 1397	23 0 111 9 4 6 0 0 7 5 0 0
189 41 54 87 126 243 34 143 176 2237 247 267 282 337 341	0229285009 0261837003 0282837021 0717153047 1061889019 1187199016 7395760001 8672771030 3784804005 454838015 153833003 3693836008 20743027 0543766007 0543766007	Waffle House MANN BLDG KILIN & POTTERY Townhouse? DeValo Devalor School Public Safety Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WALKER MAI EATS HOP STREETSCAPES	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOV'T DEKALS COUNTY GOV'T DEKALS COUNTY GOV'T DEKALS COUNTY GOVERNMENT	S674 MEMORIAL DR 7977 ROCKRINGE RD UNIT 20 5384 MANDR DR 1005 SECOND 5T 4477 WATSON RIDGE DR 1005 SECOND 5T 4477 WATSON RIDGE DR 5861 MEMORIAL DR 5128 STONE MILL WAY 4790 CLARION PASS 4790 CLARION PASS MATERIAL PROPERTIES OF THE STONE MILL WAY 4790 CLARION PASS 1640 ROCADHAVEN DR 1640 ROCADHAVEN DR 1640 ROCADHAVEN DR 1650 SECATRINA CT 5585 ROCKRINGE RD 1650 SECATRINA CT 5585 OWALKER RD UNIT 6118 0 LAVISTA RD 4949 S ROVAL ATLANTA DR 4949 S ROVAL ATLANTA DR 2156 FLINTSTONE DR 2156 FLIN		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GS-C 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 23.39 \$ 5.23.39 \$ GS-C 4529190 12/14/2018 1/16/2019 21.36 21.59 TONE MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$ 70	1 78 1 23 40 8840 1 4192 1 1517 1 0 1 2815 1 1397 60 16800 1 2596 40 7800	23 0 11 9 4 6 0 0 7 5 0 0 41 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 3441	0229285009 0251837003 0251837003 0271753047 1061849019 1187199016 7395760001 86672771030 3784804005 4545836015 135383003 3893836008 207463027 054376670 0543776670 05918102048	Waffle House MAIN BLDG RILN & POTTERY Townhouse? DeKalb County School Public Safety Street Lights Street Lights MTR & LIGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES Street Lights IF T Exports Sun Trust Bank	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118	TONE MOUNTAIN GA 30083 12/27/2018 0 S 31.62 S 31.62 GSC 11/27/2018 12/27/2018 15600 15678	1 78 1 23 40 8840 1 4192 1 1517 1 0 1 2815 1 1397 60 16800 1 2596 40 7800 1 1046	0 0 0 0 0 0 111 9 9 4 6 0 0 7 5 0 0 0 41 0 0 12 11 23 32 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358	0229285009 0261837003 0271837021 0271753047 106184019 1187199016 8672771030 8672771030 3784804005 4545836015 1353833003 207463027 058102048 1783776000 058102048	Waffle House MAIN BLDG KIN & POTTERY Townhouse ? DeValb County School Public safety Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES Street Lights ET Exports Sun Trust Bank HAMMERS BLAI	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVT DEKALS COUNTY GOVERNMENT	S674 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 S384 MANOR RD R 1005 SECOND ST 4477 WATSON RIDGE DR 4477 WATSON RIDGE DR 5861 MEMORIAL DR 5128 STONE MILL WAY 4700 CLARION PASS METRIC RIDGE RD 608 CATRINA CT 5585 ROCKBRIDGE RD 608 CATRINA CT 5585 ROCKBRIDGE RD 5550 WALKER RD UNIT 6118 0 LAVISTA RD 4949 S ROYAL ATLANTA DR 4949 S ROYAL ATLANTA DR 2156 FLINTSTONE DR 4098 LAVISTA RD 4098 LA		TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 31.62 \$ 31.62 GSC 11/27/2018 12/27/2018 15600 15678 150NE MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$	1 78 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815 1 1397 60 16800 1 2596 40 7800 1 1046 1 1057	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 3441	0229285009 0261837003 0261837003 027153047 106184019 1187199016 7395760001 8872771030 3784804005 4545883015 135383003 399383008 207463027 054376070 0918102048 1783776000	Waffle House MAIN BLDG RILN & POTTERY Townhouse? DeKalb County School Public Safety Street Lights Street Lights MTR & LIGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES Street Lights IF T Exports Sun Trust Bank	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118	TONE MOUNTAIN GA 30083 12/21/2018 0 S 31.62 S 31.62 GSC 11/27/2018 12/27/2018 15600 15678	1 78 1 23 40 8840 1 4192 1 1 1517 1 0 1 2815 1 1 1397 60 16800 1 2596 40 7800 1 1 1046 1 1057 1 1724	0 0 0 0 0 0 111 9 9 4 6 6 0 0 7 5 0 0 41 0 12 11 23 32 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358 388 389 401	0229285009 0261837003 027153047 0071753047 1187199016 7395760001 8672771300 3784804005 4545836015 1353833003 207463027 0544376070 0544776070 0544776070 0544776070 0544776070 0544776070 0544776070 0544776070 05437600 05437600 054377600 05437600 05	Waffle House MAN BLDG KIN & POTTERY Townhouse? Deaklo County School Public Safety Street Lights Street Lights MTR & LETING MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES Street Lights E T Exports Sun Trust Blank HAMMERMIL 3 L Street Lights LEESHIRE L S	DEKALE COUNTY GOVERNMENT DEKALE COUNTY GOVERNMENT DEKALE COUNTY GOVERNMENT DEKALE COUNTY GOVT DEKALE COUNTY GOVERNMENT	S574 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 5384 MANOR DR 1005 SECOND ST 4477 WATSON RIDGE DR 4477 WATSON RIDGE DR 5861 MEMORIAL DR 5128 STONE MILL WAY 4770 CLARION PASS METERS OF RESEARCH STONE MILL WAY 4770 CLARION PASS METERS OF RESEARCH STONE MILL WAY 4770 CLARION PASS 668 CATRINA CT 5588 ROCKBRIDGE RD 5550 WALKER RD UNIT 6118 0.1 WISTA RD 4949 S ROVAL ATLANTA DR 2156 FLINTSTONE DR 4949 S ROVAL ATLANTA DR 2156 FLINTSTONE DR 4098 LAWISTA RD 4098	UNIT 6118	TONE MOUNTAIN GA 30083 12/27/2018	1 78 1 23 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815 1 1 1397 60 16800 1 2596 40 7800 1 1 1066 1 1 1057 1 1 1724	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 388 388 389 401	0229285009 0261837003 0261837003 027153047 1061849019 1187199016 13785760001 18795760001 3784804005 4545838015 1353833003 207363027 0581366007 058102048 1783776000 2496991007 3374899001 2496991007 3374899001	Waffle House MAIN BLDG RILIN & POTTERY Townhouse? DeAlso Louny School Public Safety Street Lights Street Lights MTR & LIGTING MEETING HOUSE Residental House WADD WALKER MAI EAST SHOP STREETSCAPES Street Lights ET Exports Sun Trust Bank HAMMERMILL 3 Street Lights LEESHIRE 1.5	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOV'T DEKALS COUNTY GOV'T DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118	TONE MOUNTAIN GA 30083 12/27/2018 0 S 31.62 S 31.62 GS-C 11/27/2018 12/27/2018 15600 15678	1 78 1 23 40 8840 1 4192 1 1 1517 1 0 1 2815 1 1 1397 60 16800 1 2596 40 7800 1 1 1046 1 1 1057 1 1724 1 2742 1 983	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358 388 389 401 410 413	0229285009 0261837003 0261837003 027153047 1061840019 1187199016 7395760001 8872771030 7395760001 8872771030 7398830005 64545836015 1535839003 207463027 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070	Waffle House MAIN BLDG KIN A POTTERY Townhouse? Deviath County School Public Safety Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADD WALKER MAI EAST SHOP STREETSCAPES Street Lights E T Exports Sun Trust Bank HAMMERMILL 3 . Street Lights LESHIRL L S ROYAL ATL 3 L S ROYAL ATL 3 L S	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033	TONE MOUNTAIN GA 30083 12/27/2018 0 S 31.62 S 31.62 GSC 11/27/2018 12/27/2018 15600 15678	1 78 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815 1 1397 60 16800 1 2596 40 7800 1 10057 1 11724 1 2742 1 983 1 2115	0 0 0 0 0 0 111 9 11 9 11 2 11 23 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358 388 389 401 410 413	0229285009 0261837003 0261837003 027153047 106184019 1187199106 8872771030 3784804005 454588015 1353833003 207465027 0541366007 05810204 0591075000 23948901007 39748901007 39748901007 39748901007 39748901007 39748901007 39748901007 39748901007 397487000	Waffle House MAIN BLOG KIN JR POTTERY Townhouse ? Devalls Ocury School Public safety Street Lights Street Lights MIT BL LGTING MEETING HOUSE Residental House WADD WALKER MAI EAST SHOP STREETSCAPES Street Lights ET Exports Sun Trust Bank HAMMERMILL 3. Street Lights LEESHIRE I. S ROYAL ATL 3. I. S ROYAL ATL 3. I. S ROYAL ATL 3. I. S HAMMERMILL 2.	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118	TONE MOUNTAIN GA 30083 12/27/2018	1 78 1 23 40 8840 1 4192 1 1 1517 1 0 1 2815 1 1 1397 60 16800 1 2596 40 7800 1 1 1046 1 1 1057 1 1724 1 2742 1 983	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 247 267 267 282 337 341 358 388 389 401 410 413 417 423	0229285009 0261837003 0261837003 0271753047 1061840919 1187199016 7395760001 8862771030 37384804005 4545836015 1353833003 207463027 05437607 054377607 054377607 05477677 05477677 05477677 05477677 05477677 07547767	Waffle House MAIN BLDG KIN & POTTERY Townhouse? Devlab County School Public Safety Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADD WALKER MAI EAST SHOP STREETSCAPES Street Lights E T Exports Sun Trust Bank HAMMERMILL 3 LESHIRL 1 ERSHIRL S ROYAL ATL 3 LS HAMMERMILL 2 L STREET SCAPES STREET LIGHTS ROYAL ATL 3 LS HAMMERMILL 2 L STREET SCAPES HAMMERMILL 2 L STREET LIGHTS ROYAL ATL 3 LS HAMMERMILL 2 L STREET LIGHTS	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	BLVD UNIT 8033	TONE MOUNTAIN GA 30083 12/12/2018 0 S 31.62 S 31.62 GSC 11/12/2018 12/12/2018 15600 15678	1 78 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815 1 1397 60 16800 1 2596 40 7800 1 10057 1 10057 1 1774 1 2742 1 983 1 2242 1 983 1 2115 1 97	0 0 0 0 0 0 111 9 9 4 6 6 0 0 0 7 5 5 0 0 0 0 122 11 22 3 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358 388 389 401 410 413	0229285009 0261837003 0261837003 027153047 106184019 1187199106 8872771030 3784804005 454588015 1353833003 207465027 0541366007 05810204 0591075000 23948901007 39748901007 39748901007 39748901007 39748901007 39748901007 39748901007 39748901007 397487000	Waffle House MAIN BLOG KIN JR POTTERY Townhouse ? Devalls Ocury School Public safety Street Lights Street Lights MIT BL LGTING MEETING HOUSE Residental House WADD WALKER MAI EAST SHOP STREETSCAPES Street Lights ET Exports Sun Trust Bank HAMMERMILL 3. Street Lights LEESHIRE I. S ROYAL ATL 3. I. S ROYAL ATL 3. I. S ROYAL ATL 3. I. S HAMMERMILL 2.	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033	TONE MOUNTAIN GA 30083 12/27/2018	1 78 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815 1 1397 60 16800 1 2596 40 7800 1 10057 1 11724 1 2742 1 983 1 2115	0 0 0 0 0 0 111 9 11 9 11 2 11 23 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 247 267 267 282 337 341 358 388 389 401 410 413 417 423	0229285009 0261837003 0261837003 0271837031 0271753047 106184019 1187199016 1879750001 18799016 1879770001 3784804005 4545836015 153833003 3893356007 05437607 05918102048 178376000 178376000 178376000 1783775000 1783775000 1783775000 1783775000 1783775000 1783775000 1783775000 1783775000 1783775000 1783775000 1783775000 1783775000 1783775000 1783775000 1783775000	Waffle House MAIN BLDG RINN & POTTERY Townhouse? DeAlab County School Public Safety Street Lights Street Lights MTR & LIGTING MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES Street Lights ET Exports Sun Trust Bank HAMMERMILL 3 L STREET LIGHTS ROYAL ATT. 3 L S ROYAL ATT. 3 L S HAMMERMILL 2 L STREET Lights	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVT DEKALS COUNTY GOVT DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033	TONE MOUNTAIN GA 30083 12/12/2018 0 S 31.62 S 31.62 GSC 11/12/2018 12/12/2018 15600 15678	1 78 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815 1 1397 60 16800 1 2596 40 7800 1 10057 1 10057 1 1774 1 2742 1 983 1 2242 1 983 1 2115 1 97	0 0 0 0 0 0 111 9 9 4 6 6 0 0 0 7 5 5 0 0 0 0 122 11 22 3 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358 388 389 401 410 411 417 423	0229285009 0261837003 0261837003 027153047 1061840019 1187199016 7395760001 88672771300 3774804005 88672771300 13784804005 1353833003 207463027 0544776070 0544776070 0544776070 0544776070 054776070 054776070 054776070 054776070 054776070 054776070 054776070 054776070 054776070 054776070	Waffle House MAN BLDG KIN & POTTERY Townhouse? Deaklo County School Public Safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES Street Lights E T Exports Sun Trust Blank HAMMERMIL 3 L Street Lights LEESHIRE L S ROYAL ATI 3 LS HAMMERMIL 2 L Street Lights HAMMERMIL 2 L Street Lights HAMMERMIL 1 L STREET LABBER L S ROYAL ATI 3 LS HAMMERMIL 2 L STREET LIGHTS HAMMERMIL 1 L STREET LIGHTS HAMMERMIL 2 L STREET LIGHTS HAMMERMIL 1 L STREET LIGHTS HAMMERMIL 2 L STREET LIGHTS HAMMERMIL 1 L STREET LIGHTS HAMMERMIL 2 L STREET LIGHTS HAMMERMIL 1 L STREET LIGHTS HAMMERMIL 2 L S	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 S384 MANOR DR 1005 SECOND ST 4477 WATSON RIDGE DR 4477 WATSON RIDGE DR 5881 MEMORIAL DR 5128 STONE MILL WAY 4700 CLARION PASS MEMORIAL DR 5128 STONE MILL WAY 4700 CLARION PASS METERING RIDGE DR 608 CATRINA CT 5588 ROCKBRIDGE RD 5589 ROCKBRIDGE RD 5589 ROCKBRIDGE RD 4949 S ROVAL ATLANTA DR 2156 FLINTSTONE DR 4098 LAVISTA RD 4098 LAVISTA RD	BLVD UNIT 8033	TONE MOUNTAIN GA 30083 12/27/2018	1 78 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815 1 1397 60 16800 1 2596 40 7800 1 1 1004 1 1 1057 1 1 1724 1 2742 1 983 1 1 2115 1 97	0 0 0 0 0 111 9 11 12 11 123 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 2237 247 267 282 337 341 358 388 389 401 410 413 417 423 452	0229285009 0261837003 0261837003 0271753047 1061849019 1187199016 17995760001 8672771030 3784804005 4545883015 1353833003 207463027 05417607 058102048 1783776000 246991007 3374859001 5592775012 7759775002 7759775002 7759775002 7759775002 7759775004 7698870000 8461776007	Waffle House MAIN BLDG RILLN & POTTERY Townhouse? Devals Ocury School Public safety Street Lights Street Lights MIT & LIGHTS MIT & LIGHTS METHING HOUSE Residental House WADD WALKER MAIN EAST SHOP STREETSCAPES Street Lights ET Exports Sun Trust Blank HAMMER MILL 3 L Street Lights LEESHIRE L S ROYAL ATL 3 L S HAMMERMILL 2 L Street Lights HAMMERMILL 2 L STREET MIT STREET MAIN STRE	DEKALS COUNTY GOVERNMENT DEKALS COUNT NAME	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033	TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 23.36 \$ 31.62 \$ 5.700.42 \$ 700.42 \$ 700.42 \$ 700.44 \$ 74.99 \$ 12/14/2018 17/16/2019 2136 2159 \$ 1500.6 MOUNTAIN GA 30083 12/17/2018 0 \$ 700.42 \$	1 78 1 23 40 8840 1 4192 1 1 1517 1 0 1 2815 1 1 1397 60 16800 1 1 2596 40 7800 1 1 1046 1 1 1057 1 1 1724 1 1 983 1 1 2115 1 983 1 2430	0 0 0 0 0 0 111 9 9 4 6 0 0 0 7 5 0 0 0 0 122 11 223 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 359 401 410 413 417 423 452	0229285009 0261837003 0261837003 027153047 1061840019 1187199016 7395760001 8872771330 7395760001 8872771330 7384804005 4345835015 1353833003 8393836008 207463027 0544376070 0544776070 0544776070 0544776070 0541776070 758776002 7285776002	Waffle House MAIN BLDG KIN JA POTTERY Townhouse? Dealsh County School Public Safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES Street Lights E T Exports Sun Trust Bank HAMMERMILL 3 L Street Lights LEESHIRE LS Royal ATZ 2.E ROYAL ATZ 3.IS HAMMERMILL 2 L Street Lights HAMMERMILL 1 L STREET LEESHIRE LS ROYAL ATZ 3.IS HAMMERMILL 2 L STREET LIGHTS HAMMERMILL 1 L STREET LIGHTS LEESHIRE LS ROYAL ATZ 3.IS HAMMERMILL 2 L STREET LIGHTS HAMMERMILL 1 L CET Headquarters & Public Safety & Courts- Light Animal Shelter Public Deefender Law Office	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033	TONE MOUNTAIN GA 30083 12/12/2018 0 S 31.62 S 31.62 GS-C 11/12/2018 12/12/2018 15600 15678	1 78 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815 1 1397 60 16800 1 2596 40 7800 1 10057 1 10057 1 1774 1 2742 1 983 1 1 2115 1 97 1 2430	0 0 0 0 0 111 9 11 9 11 9 11 12 11 12 11 12 3 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358 388 389 401 410 413 417 423 452	0229285009 0261837003 0261837003 0261837003 0271753047 1061840319 1187199116 188727710310 88727710310 88727710310 3784804005 4545883015 13538383003 207465027 0543166007 0581012048 1783776000 2496991007 397485901 6592775012 775975002 775975002 775975002 775978004 7698870000 8461776007 188 ACCC-NO POUL	Waffle House MAIN BLDG KIN & POTTERY Townhouse ? Devalle Ocury School Public safety Street Lights Street Lights Street Lights MET BLOTH STREET	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033	TONE MOUNTAIN GA 30083 12/27/2018 0 \$ 23.39 \$ 5.23.39 \$ 65-C \$ 11/27/2018 17/6/2019 2136 2159 \$ 1500 M	1 78 1 23 40 8840 1 4192 1 1 1517 1 0 1 2815 1 1397 60 16800 1 1 2596 40 7800 1 1 1057 1 1 107 1 1 2742 1 1 2742 1 1 2983 1 1 2115 1 983 1 1 2115 1 97 1 2430	0 0 0 0 0 11 1 9 1 1 1 1 1 1 1 1 1 1 1 1
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 359 401 410 413 417 423 452	0229285009 0261837003 0261837003 027153047 1061840019 1187199016 7395760001 8872771330 7395760001 8872771330 7384804005 4345835015 1353833003 8393836008 207463027 0544376070 0544776070 0544776070 0544776070 0541776070 758776002 7285776002	Waffle House MAIN BLDG KIN JA POTTERY Townhouse? Dealsh County School Public Safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES Street Lights E T Exports Sun Trust Bank HAMMERMILL 3 L Street Lights LEESHIRE LS Royal ATZ 2.E ROYAL ATZ 3.IS HAMMERMILL 2 L Street Lights HAMMERMILL 1 L STREET LEESHIRE LS ROYAL ATZ 3.IS HAMMERMILL 2 L STREET LIGHTS HAMMERMILL 1 L STREET LIGHTS LEESHIRE LS ROYAL ATZ 3.IS HAMMERMILL 2 L STREET LIGHTS HAMMERMILL 1 L CET Headquarters & Public Safety & Courts- Light Animal Shelter Public Deefender Law Office	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033	TONE MOUNTAIN GA 30083 12/12/2018 0 S 31.62 S 31.62 S S 31.62 S S S S S S S S S	1 78 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815 1 1397 60 16800 1 2596 40 7800 1 10057 1 10057 1 1774 1 2742 1 983 1 1 2115 1 97 1 2430	0 0 0 0 0 0 111 9 11 9 11 9 11 2 11 12 11 23 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 359 401 410 411 417 423 452	0229285009 0261837003 0261837003 0261837003 0271753047 1061840019 1187199016 7395760001 8872771130 7395760001 8872771130 739580001 8872771130 739580001 8873771130 739580001 8873771130 739580000 64476907 054476970 054476970 054476970 0541776970 0541776970 0541776970 0541776007 0541776007 0541776007 0541776007 0541776007 0541776007 0541776007 0541776007 0541776007 0541776007	Waffle House MAIN BLDG KIN & POTTERY Townhouse? Devallo County School Public Safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES Street Lights E T Exports Son Trust Blank HAMMERMILL 3. Street Lights LEESHIRE LS ROYAL ATL 3.LS HAMMERMILL 2.L Street Lights LEESHIRE LS ROYAL ATL 3.LS HAMMERMILL 2.L STREET LIGHTS HAMMERMILL 3.LS COUNTING THE MAIN SHORT SH	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033	TONE MOUNTAIN GA 30083 12/12/2018 0 S 31.62 S 31.62 S S 31.62 S S S S S S S S S	1 78 1 23 40 8840 1 1 4192 1 1 1517 1 0 0 1 2815 1 1397 60 16800 1 1 2596 40 7800 1 1 1006 1 1 1074 1 1724 1 1 2742 1 1 2742 1 1 2743 1 2430 80 180000 1 308 1 1 308 1 1 126236	0 0 0 0 0 111 9 12 11 12 11 23 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 247 267 267 282 337 341 358 388 389 401 410 410 413 417 423 452	0229285009 0261837003 0261837003 0261837003 0271735047 1061840019 1187199016 7395760001 8862771030 37384804005 4545836015 4545836015 1353833003 207463027 0543366007 0543766007 0543766007 0543766007 054776070 05477607	Waffle House MAIN BLOG KIN A POTTERY Townhouse? Devids County School Public Safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WAGE WALKER MAI EAST SHOP STREETSCAPES STREET LIGHTS ET Exports Sun Trust Bank HAMMERMILL 3. Street Lights LESHIRE LS ROYAL ATL 3.LS HAMMERMILL 2.LS STREET LIGHTS HAMMERMILL 2.LS STREET LIGHTS HAMMERMILL 3.LS CE Headquarters & Public Safety & Courts- Light Animal Shelter Public Defender Law Office COURTHOUSE Public Defender Law Office COURTHOUSE	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033	TONE MOUNTAIN GA 30083 12/27/2018 0 S 31.62 S 31.62 GSC S 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/16/2019 0 S 23.39 GSC S S S S S S S S S	1 78 1 23 40 8840 1 1 4192 1 1 1517 1 0 1 2815 1 1 1397 60 16800 1 1 1046 1 1 1057 1 1 107 1 1 107 1 1 2742 1 1 2742 1 1 293 1 1 2430 1 2430 80 180080 1 308 1 308 1 308 1 308 1 1 308 1 1 308 1 1 308 1 1 308 1 1 308 1 308 1 308 0 180000 40 34760	0 0 0 0 0 1 1 1 9 1 1 9 1 1 9 1 1 1 9 1 1 1 1
189 41 54 87 126 243 34 143 176 237 247 267 282 3337 341 358 388 389 401 410 413 417 423 452	0229285009 0261837003 0261837003 027153047 1061840019 1187199016 7395760001 8672771030 8672771030 8672771030 3784801005 4345886015 1353833003 207463027 0544776070 0518102048 07483027	Waffle House MAIN BLDG KIN & POTTERY Townhouse? Devallo County School Public Safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES Street Lights E T Exports Son Trust Blank HAMMERMILL 3. Street Lights LEESHIRE LS ROYAL ATL 3.LS HAMMERMILL 2.L Street Lights LEESHIRE LS ROYAL ATL 3.LS HAMMERMILL 2.L STREET LIGHTS HAMMERMILL 3.LS COUNTING THE MAIN SHORT SH	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033	TONE MOUNTAIN GA 30083 12/27/2018 0 S 31.62 S 31.62 GSC S 11/27/2018 12/27/2018 15600 15678 TONE MOUNTAIN GA 30083 12/16/2019 0 S 23.39 GSC S S S S S S S S S	1 78 1 23 40 8840 1 1 4192 1 1 1517 1 0 0 1 2815 1 1397 60 16800 1 1 2596 40 7800 1 1 1006 1 1 1074 1 1724 1 1 2742 1 1 2742 1 1 2743 1 2430 80 180000 1 308 1 1 308 1 1 126236	0 0 0 0 0 111 9 12 11 23 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358 388 389 401 410 411 417 422 423 452 277 231 284 85	0229285009 0261837003 0261837003 027153047 1061840019 1187199016 129950001 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 968333003 869333003 9684376007 054437607 05436007 05436007 05436007 054376007 054376007 054376007 054376007 054376007 054376007 054376007 054376007 054376007 054376007 054376007	Waffle House MAN BLDG KIN & POTTERY Townhouse? Deaks Do county School Public Safety Street Lights Street Lights Street Lights MTR & LIGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES STREET Lights E T Exports Son Trust Lights LEESHIRE LS ROYAL ATL 3 LS HAMMERMILL 2 L Street Lights LEESHIRE LS ROYAL ATL 3 LS HAMMERMILL 2 L STREET LIGHTS HAMMERMILL 3 L STREET LIGHTS HAMMERMERMILL 3 L STREET LIGHTS HAMMERMILL 3 L STREET LIGH	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR 7977 ROCKBRIDGE RD UNIT 20 S384 MANOR DR 1005 SECOND ST 4477 WATSON RIDGE DR 4477 WATSON RIDGE DR 5881 MEMORIAL DR 5128 STONE MILL WAY 4700 CLARION PASS MEMORIAL DR 5128 STONE MILL WAY 4700 CLARION PASS MEMORIAL DR 608 CATRINA CT 5588 ROCKBRIDGE RD 5588 ROCKBRIDGE RD 5589 ROCKBRIDGE RD 4949 S ROVAL ATLANTA DR 2156 FLINTSTONE DR 4098 LAVISTA RD 409	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033	TONE MOUNTAIN GA 30083 1/27/27018 0 S 31.62 S 31.62 GSC S 11/27/2018 1/16/2019 21.36 2159	1 78 1 23 40 8840 1 4192 1 1517 1 0 1 2815 1 1 1397 60 16800 1 2596 40 7800 1 1 1006 1 1 1007 1 1 2742 1 1 2742 1 1 983 1 1 2115 1 97 1 2430 80 18000 1 308 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236	0 0 0 0 0 11 9 14 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358 388 389 401 410 413 417 423 452	0229285009 0261837003 0261837003 0271753047 1061840919 1187199016 18872771030 3784804005 4545883015 1353833003 207463027 054176007 0581027600 0781027600 0	Waffle House MAIN BLDG KILN & POTTERY Townhouse? Devalls County School Public safety Street Lights Street Lights MIR & LGTING MEETING HOUSE Residental House WADD WALKER MAI EAST SHOP STREETSCAPES Street Lights E T Exports Sun Trust Bank HAMMERMIL 31 Street Lights LEESHIRE L 5 ROYAL ATL 3 LS HAMMERMIL 21 Street Lights LEESHIRE L 5 ROYAL ATL 3 LS HAMMERMIL 12 CE Headquarters & Public Safety & Courts-Light Animal Shelter Public Defender Law Office COURTHOUSE Public Defender Law Office Dekalb CO. Police Procinct Dekalb CO. Police Procinct Dekalb CO. Police Bobby Burgess Dekalb CO. Recorders Court	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033	TONE MOUNTAIN GA 30083 1/27/27018 0 S 31.62 S 31.62 GSC S 11/27/2018 1/16/2019 2136 2159	1 78 1 23 40 8840 1 4192 1 1517 1 0 1 2815 1 1 1397 60 16800 1 2596 40 7800 1 1 1006 1 1 1007 1 1 2742 1 1 2742 1 1 983 1 1 2115 1 97 1 2430 80 18000 1 308 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236 1 1 126236	0 0 0 0 0 11 9 12 11 23 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358 388 389 401 410 413 417 423 452 277 281 85 196 399 277 281 85 196 394 435	0229285009 0261837003 0261837003 027153047 1061840019 1187199016 7395760001 88672771300 3784804005 88672771300 20748383003 20748380005 1353833003 20748380007 0544776070 0544776070 0544776070 054776070 074776070 0747670 0747670	Waffle House MAIN BLDG KIN IX POTTERY Townhouse? Deaksho County School Public Safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADD WALKER MAI EAST SHOP STREETSCAPES STREET LIghts E T Exports Sun Trust Bank HAMMERMILL 3 L Street Lights LEESHIRE LS Royal ATI 2 LS ROYAL ATI 3 LS HAMMERMILL 2 L STREET LIGHTS HAMMERMILL 1 L CE Headquarters & Public Safety & Courts- Light Animal Shelter Public Deender Law Office Deaksh CO. Police Bobby Burgess Dekalb CO. Police Precinct Dekalb CO. Police Precinct Dekalb CO. Police Precinct Dekalb CO. Police Precinct Dekalb CO. Police Bobby Burgess Dekalb CO. Animal Crematory Dekalb CO. Police Bobby Burgess Dekalb CO. Animal Crematory Dekalb CO. Police Bobby Burgess Dekalb CO. Animal Crematory Dekalb CO. Police Bobby Burgess	DEKALS COUNTY GOVERNMENT	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033 TOTAL BILL	TONE MOUNTAIN GA 30083 1/27/27018 0 S 31.62 S 31.62 GSC S 11/27/2018 1/16/2019 2136 2159	1 78 1 23 1 23 40 8840 1 4192 1 1517 1 0 0 1 2815 1 1397 60 16800 1 2596 40 7800 1 1 1006 1 1 1007 1 1 1724 1 1 2742 1 1 983 1 1 2215 1 97 1 2430 80 180000 1 308 1 1 126236 40 9000 40 90000 40 34760	0 0 0 0 0 111 9 12 11 23 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 3337 341 358 388 389 401 410 413 417 423 452 282 291 369 227 231 284 85 196 394 435 394	0229285009 0261837003 0262837021 0271753047 106184019 1187199016 18872771030 8872771030 3784804005 4545836015 13538383003 2074363027 054376007	Waffle House MAIN BLDG KIN JR POTTERY Townhouse ? DeValb County School Public safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADD WALKER MAI EAST SHOP STREETSCAPES Street Lights E T Exports Son Trust Blank HAMMERMIL 3 L STREET LIGHTS RESIDENT SCHOOL AT LIGHT STREET SCHOOL AT LIGHT SCHOOL	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033 TOTAL BILL	TONE MOUNTAIN GA 30083 12/27/2018 0 S 31.62 S 31.62 S 31.62 S C S S S S S S S S	1 78 1 23 40 8840 1 4192 1 1 1517 1 0 1 2815 1 1 1397 60 16800 1 1 2596 40 7800 1 1 1046 1 1 1057 1 1 1724 1 1 2742 1 1 2742 1 1 2743 1 2430 1 1 2430 80 180080 1 308 1 1 308 1 1 126236 40 9000 40 34760 40 34760 1 1 1822 1 1 2587	0 0 0 0 0 11 1 9 1 1 1 1 1 1 1 1 1 1 1 1
189 41 54 87 126 243 34 143 176 237 247 247 267 282 3337 341 358 388 389 401 410 411 417 423 452 452 277 231 284 85 196 399 405 399 399 401 413	0229285009 0261837003 0261837003 0261837003 0271753047 1061840019 1187199016 7395760001 8872771030 3784804005 4545836015 1535838003 893838008 207463027 054376070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 054366077 054366077 054366077 055876004 0758776	Waffle House MAIN BLOUGE MAIN BLOUG KILN & POTTERY Townhouse? Devals County School Public Safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WAGE WAKER MAI EAST SHOP STREETSCAPES STREET LIGHTS ET Exports Sun Trust Bank HAMMERMILL 3 L Street Lights LESSHIRE LS ROYAL ATL 3 LS ROYAL ATL 3 LS HAMMERMILL 2 L STREET LIGHTS HAMMERMILL 1 L CE Headquarters & Public Safety & Courts- Light Animal Shelter Public Defender Law Office COURTHOUSE Devals CO. Police Bobby Burgers DeKalb CO. Reine Borks Devals CO. Animal Crematory Dekalb CO. Reine Bobby Burgers FORRISC CENTER Code Enforcement	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033 TOTAL BILL UNIT 4310	TONE MOUNTAIN GA 30083 1/27/27018 0 S 31.62 S 31.62 S 31.62 S C S 1/27/2018 1/27/2018 1/26/2019 21.36 21.59	1 78 1 23 40 8840 1 14192 1 1517 1 0 0 1 2815 1 1397 60 16800 1 1 1046 1 1 1057 1 1 1074 1 1 2742 1 1 2742 1 1 293 1 1 2115 1 97 1 2430 80 180080 1 308 1 1 125236 40 9000 40 34760 1 11822 1 1 2887	0 0 0 0 0 1 1 1 9 1 1 9 1 1 9 1 1 9 1 1 1 9 1 1 1 9 1
189 41 54 87 126 243 34 143 176 237 247 267 282 3337 341 358 388 389 401 410 411 413 417 423 452 227 231 284 85 196 394 435 437 331 29 6	0229285009 0261837003 0261837003 0261837003 0271753047 1061840019 1187199016 7395760001 8672771030 8672771030 8672771030 3784801005 4345880015 1353833003 207463027 0544776070 0518102048 1783776000 2396991007 3974859001 6592775012 7785776004 7799870000 8461776007 S8 ACCT-NO 1711214042 3081846034 8868752003 9965746017 001431128 0465370012 1803739036 1803739036 1803739036 1803739036 1803739036 1803739036 1803739036	Waffle House MAIN BLDG KIN JA POTTERY Townhouse? Devals County School Public Safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES STREET LIghts E T Exports Son Trust Bank HAMMERMILL 3. Street Lights LEESHIRE LS Royal ATZ 2.LS ROYAL ATZ 3.LS HAMMERMILL 2.L Street Lights LEESHIRE LS ROYAL ATZ 3.LS HAMMERMILL 2.L STREET LIGHTS HAMMERMILL 2.L STREET LIGHTS COUNTHOUSE Public Defender Law Office COURTHOUSE Public Defender Law Office Devals Co. Police Precinct Devals Co. Police Precinct Devals Co. Police Precinct Devals Co. Police Precinct Devals Co. Recorders Court Devals Co. Animal Street Public Defender Law Office COURTHOUSE Public One Royal Counter Co	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033 TOTAL BILL UNIT 4310	TONE MOUNTAIN GA 30083 12/27/2018 0 S 23.39 S 23.39 GSC S 21/27/2018 15/2019 15/20	1 78 1 23 1 23 1 23 1 23 1 23 1 23 1 23 1 40 8840 1 4192 1 1 1517 1 0 1 1 2815 1 1397 60 16800 1 1 2596 40 7800 1 1 1046 1 1 1057 1 1 1724 1 1 2742 1 1 2742 1 1 2742 1 1 233 1 1 2115 1 1 93 1 1 2126 40 9000 40 9000 40 9000 40 34760 40 9000 40 34760 41 1 11822 1 1 2587	0 0 0 0 0 11 1 9 1 1 1 1 1 1 1 1 1 1 1 1
189 41 54 87 126 243 34 143 176 237 247 267 282 3337 341 341 358 389 401 410 410 411 417 423 452 27 281 284 85 196 394 435 394 435 437 331 29 6	0229285009 0261837003 0261837003 027153047 1061849019 1187199016 129750001 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672771030 8672775012 1783776000 17837776000 1783776000 17837776000 17837776000 17837776000 178377760000 178377760000 1783777600000 178377760000000 17837776000000000000000000000000000000000	Waffle House MAIN BLDG KIN JA POTTERY Townhouse? Deals Do curvy School Public Safety Street Lights Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WADE WALKER MAI EAST SHOP STREETSCAPES STreet Lights E T Exports Son Trust Bank HAMMERMIL 31 Street Lights LEESHIRE LS Royal ATZ 21.5 ROYAL ATZ 31.5 HAMMERMIL 21 Street Lights LEESHIRE LS ROYAL ATZ 31.5 HAMMERMIL 21 CE Headquarters & Public Safety & Courts- Light Animal Shafter Public Defender Law Office COURTH-OUSE Public On. Poilice Problem Dekalb CO. Poilice Bobby Burgess DeKalb CO. Recorders Court Dekalb CO. Animal Crematory Dekalb CO. Poilice Bobby Burgess FORENSIC CENTER COde Enforcement RECORDS Dekalb CO. Poilice Bobby Burgess FORENSIC CENTER CODE FROOTE PROBLEM RECORDS Dekalb CO. Poilice Bobby Burgess FORENSIC CENTER CODE FROOTE PROBLEM RECORDS Dekalb CO. Poilice Bobby Burgess FORENSIC CENTER CODE FROOTE POILICE Academy Dekalb CO. Poilice Bobby Burgess FORENSIC CENTER CODE FROOTE POILICE ACADEMY Dekalb CO. Poilice Bobby Burgess FORENSIC CENTER CODE FROOTE POILICE ACADEMY Dekalb COLUTY Poilice Academy Dekalb County Poilice Academy	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033 TOTAL BILL UNIT 4310	TONE MOUNTAIN GA 30083 12/27/2018	1 78 1 23 1 23 1 23 1 23 1 23 1 1 23 1 4192 1 1 1517 1 0 1 1517 1 1 0 1 1517 1 1 0 1 1517 1 1 1057 1 1 12815 1 1 1397 60 16800 1 1 1046 1 1 1057 1 1 1724 1 1 2742 1 1 2742 1 1 2742 1 1 233 1 1 2115 1 1 983 1 1 2215 1 1 308 80 180080 1 1 308 1 1 122236 40 9000 40 334760 40 9000 40 34760 41 1 1822 1 1 2587	0 0 0 0 0 11 12 12 10 0 0 0 0 0 0 0 0 0
189 41 54 87 126 243 34 143 176 237 247 267 282 337 341 358 388 389 401 410 410 411 417 422 423 452 27 231 284 85 196 399 435 437 331 29 6	0229285009 0261837003 0261837003 0261837003 0271753047 1061840019 1187199016 73995760001 88672771030 3784880005 4545836015 1353833003 3693836008 207463027 054376070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543776070 0543376070 0543376070 0543376070 0543376070 0543376070 0543376070 0543376070 0543376070 05433776001 0543376070 05433776001 05433776001 05433776001 05433776001 05433776001 05433776001 05433776001 05433776001 05433776001 05433776001 05433776001 05433776001 05433776001 05433776001 054337776001 05433776001 0543377776001 0543377777777777777777777777777777777777	Waffle House MAIN BLDG KIN A POTTERY Townhouse? Devidab County School Public Safety Street Lights Street Lights MTR & LGTNG MEETING HOUSE Residental House WAGE WALKER MAI LEST SHOP STREETSCAPES STREET LIGHTS ET Exports Sun Trust Bank HAMMERMIL 31 STREET LIGHTS LEESHIRE LS ROYAL ATI 31.5 HAMMERMIL 21 STREET LIGHTS HAMMERMIL 21 CE Headquarters & Public Safety & Courts- Light Annual Shelter Public Defender Law Office COURTHOUSE Devials CO. Police Bobby Burgess Devials CO. Reiored From Courty Devials CO. Police Bobby Burgess Devials CO. Reiored From Courty Devials CO. Animal Crematory Devials CO. Reiored From Courty Devials CO. Animal Crematory Devials CO. Reiored From Courty Devials CO. Animal Crematory Devials CO. Reiored From Courty Devials CO. Animal Crematory Devials CO. Courty From Courty Devials CO. Reiored From Cou	DEKALS COUNTY GOVERNMENT DEKALS COUNTY GOVERNM	S574 MEMORIAL DR	UNIT 6118 BLVD UNIT 8033 UNIT 8033 UNIT 8033 TOTAL BILL UNIT 4310	TONE MOUNTAIN GA 30083 12/27/2018	1 78 1 23 40 8840 1 1 4192 1 1 1517 1 0 1 2815 1 1 1397 60 16800 1 1 1046 1 1 1057 1 1 1074 1 1 1724 1 1 2742 1 1 2742 1 1 2742 1 1 2743 1 1 283 1 1 2115 1 1 2115 1 1 1724 1 1 1832 1 1 18080 1 1 308 1 1 18080 1 1 308 1 1 182236 40 9000 40 34760 1 1 1822 1 1 2887	0 0 0 0 0 11 12 22 28 7 7 7 1410 0 0 0 0 566 0 0 1

240	3539942010	DeKalb County Police Academy	DEKALB COUNTY GOVERNMENT		2484 BRUCE ST BLDG B			GA 30058			\$ 249.85		4774762 12/9/2018 1/11/201		64369	1	1421	0	0
262	4985845005	BRUCE ST CENTER	DEKALB COUNTY GOVERNMENT		2484 BRUCE ST UNIT 1140		LITHONIA		1/11/2019				3231270 12/9/2018 1/10/201	9 54121	54544	60	25380	56	0
464	7275927017	DeKalb County Police Academy	DEKALB COUNTY GOVERNMENT		2484 BRUCE ST		LITHONIA	GA 30058	12/28/2018	0	\$ 62.53	\$ 62.53 OL GOV	11/28/2018 12/28/20	18			4		
373	1238868017	POLICE DEPT	DEKALB COUNTY GOVERNMENT	POLICE DEPT	4451 LAWRENCEVILLE HWY		TUCKER	GA 30084	12/27/2018	0	\$ 1,843.32	\$ 1,843.32 PLM-C	3307452 11/26/2018 12/26/20	18 8854	9268	40	16560	39	45
DeKalb County Proper	rties																		
	3667546002	Airport - Accent Blue	DEKALB COUNTY GOVERNMENT	1/16/2019	1/31/2019	1410631.86													
371	0003391704	Airport	DEKALB PEACHTREE AIRPORT		0 FLIGHTWAY DR		CHAMBLEE	GA 30341	12/28/2018	0	2188.85	2188.85 OL GOV	11/28/2018 12/28/20	18					
154	0303749064	Airport	DEKALB COUNTY GOVERNMENT		2200 AIRPORT RD BLDG 2		CHAMBLEE	GA 30341			413.1		3052194 12/3/2018 1/4/2019		3784	40	3720	11	9
217	0306252004	Airport	DEKALB COUNTY GOVERNMENT		2000 AIRPORT RD		CHAMBLEE	GA 30341	1/4/2019	0	593.93	593.93 PLS-C	3516254 12/3/2018 1/3/2019	5295	5450	40	6200	17	12
249	0405205183	Airport	DEKALB COUNTY GOVERNMENT		2500 AIRPORT RD BLDG 5		CHAMBLEE	GA 30341	1/4/2019	0	333.38	333.38 PLS-C	3588531 12/4/2018 1/3/2019	42685	45765	1	3080	12	7
265	0648215016	Airport	DEKALB COUNTY GOV'T		3303 HARDEE AVE UNIT		CHAMBLEE	GA 30341	1/4/2019	0	25.01	25.01 GS-C	7447413 12/4/2018 1/4/2019	2338	2371	1	33	0	0
44	0711525085	Airport	DEKALB COUNTY GOVERNMENT		2400 AIRPORT RD BLDG 4		CHAMBLEE	GA 30341	1/4/2019	0	532.13	532.13 PLS-C	3517665 12/3/2018 1/3/2019		4257	40	6000	15	10
51	0768951140	Airport	DEKALB COUNTY GOVERNMENT		2000 AIRPORT RD		CHAMBLEE	GA 30341	12/28/2018	0	656.58	656.58 OLUNR	11/28/2018 12/28/20	18					
69	0852555018	Airport	DEKALB COUNTY GOVERNMENT		2300 AIRPORT RD BLDG 3		CHAMBLEE	GA 30341	1/4/2019	0	400.6	400.6 GS-C	3230308 12/3/2018 1/4/2019		2694	40	2360	0	0
395	2599047008	Airport	DEKALB COUNTY GOVERNMENT		1983 BRAGG ST		CHAMBLEE	GA 30341			623.75		3657411 12/4/2018 1/7/2019		5816	80	6720	34	34
61	4651889006	GATE 5	DEKALB COUNTY GOVERNMENT	GATE 5	2000 AIRPORT RD		CHAMBLEE	GA 30341	1/4/2019	0	23.31		7613270 12/4/2018 1/4/2019		336	1	11	0	0
361	7356782009	AIRFIELD LIGHTS	DEKALB COUNTY GOVERNMENT		2000 AIRPORT RD UNIT 8210		CHAMBLEE	GA 30341			1625.22		3256100 12/4/2018 1/4/2019		18014	60	21060	67	67
460	7377782009	ADMIN BLDG 2	DEKALB COUNTY GOVERNMENT	ADMIN BLDG 2	2044 AIRPORT RD UNIT 8210		CHAMBLEE	GA 30341	1/4/2019		4100.03		3256103 12/3/2018 1/3/2019		1082	40	46920	132	92
21	7608782008	A T-HANGER	DEKALB COUNTY GOVERNMENT		3321 HARDEE AVE UNIT 8210		CHAMBLEE	GA 30341			279.08		3014350 12/3/2018 1/4/2019		6206	40	2400	6	6
23	7671782001	RUNWAY	DEKALB COUNTY GOVERNMENT		3419 HARDEE AVE UNIT 8210		CHAMBLEE	GA 30341		0	28.73		7212584 12/4/2018 1/4/2019		4031	1	56	0	0
53	7707245026	CAM 120	DEKALB COUNTY GOVERNMENT	CAM 120	2823 CHAMBLEE TUCKER RD		CHAMBLEE	GA 30341	1/9/2019	0	32.35	32.35 GS-C	12/7/2018 1/9/2019		15751	1	78	0	0
79	7755782003	B T-HANGER	DEKALB COUNTY GOVERNMENT		0 CORSAIR DR UNIT 8210		CHAMBLEE	GA 30341			215.91		3008028 12/3/2018 1/3/2019		14672	1	1545	5	5
191	7902782000	NE AIRPORT GATE	DEKALB COUNTY GOVERNMENT		11 CORSAIR DR UNIT 8210		CHAMBLEE	GA 30341			26.94		5551997 12/4/2018 1/4/2019		1621	1	45	0	0
224	8534365009	Airport	DEKALB COUNTY GOVERNMENT		4600 BUFORD HWY		CHAMBLEE		12/28/2018		239.61	239.61 OL GOV							
280	8699799005	NORTHERN SVC CN	DEKALB COUNTY GOVERNMENT		4600 BUFORD HWY UNIT 6116		CHAMBLEE	GA 30341	1/7/2019		1388.34		3515599 12/4/2018 1/6/2019		9891	80	18720	42	0
458	8783799000	BUFORD FUEL	DEKALB COUNTY GOVERNMENT		4600 BUFORD HWY UNIT 8110		CHAMBLEE	GA 30341			48.46		1670589 12/4/2018 1/6/2019		32004	1	178	0	0
19	9833800006	PDK BEACON LIGH	DEKALB COUNTY GOVERNMENT		4400 BUFORD HWY UNIT 8210		CHAMBLEE	GA 30341	1/4/2019	0	90.05	90.05 GS-C	3008030 12/4/2018 1/4/2019	44663	45099	1	436	0	0
		Parks & Recreation - Green	DECATUR GA 30030														\bot		
70	0773922017	Parks & Rec. Office	DEKALB COUNTY GOVERNMENT		3681 CHESTNUT ST			ATES GA 30002			479.2	479.2 OL GOV					4		
157	2346744010	Parks & Rec. Office	DEKALB COUNTY GOVERNMENT		3681 CHESTNUT ST UNIT 6115			TES GA 30002		0	743.17		1889434 12/11/2018 1/13/201		3719	40	8160	16	15
163	3643030016	Parks & Rec. Office	DEKALB COUNTY GOVERNMENT		3681 CHESTNUT ST			TES GA 30002		0	467.19		3514249 12/11/2018 1/13/201		9112	40	4600 370	21	0
83	1341295002	CHILDREN PLAYGR		CHILDREN'S PLAYGROUND	2000 AIRPORT RD		CHAMBLEE		1/4/2019	0	79.4		7482479 12/4/2018 1/4/2019		16882	1	0.0	0	0
393	1871449018	Parks & Rec. Office	DEKALB COUNTY GOVERNMENT		2301 DRESDEN DR		CHAMBLEE	GA 30341			273.5		3010634 12/5/2018 1/6/2019		6746	40	2920	5	5
207	0581155017	N.H. Scott Recreation Center	DEKALB COUNTY GOVERNMENT		2230 TILSON RD		DECATUR	GA 30032	12/21/2018	0	1190.99		3235648 11/20/2018 12/20/20	16133	16312	40	7160	20	36
329	1362834009	MIDWAY REC CENT	DEKALB COUNTY GOVERNMENT	MIDWAY REC CENTER	3201 MIDWAY RD UNIT 6105		DECATUR	GA 30032	12/20/2018	0	585.2		3129306 11/19/2018 12/19/20	18 31810	31978	40	6720	18	10
399	1404834001	MIDWAY MAINT	DEKALB COUNTY GOVERNMENT	MIDWAY MAINT	3181 MIDWAY RD UNIT 6117		DECATUR		12/20/2018		23.14		2984855 11/19/2018 12/20/20		37545	1	22	0	-
415	1425834029	Midway Recreation Center	DEKALB COUNTY GOVERNMENT		3181 MIDWAY RD UNIT FTBL		DECATUR		12/20/2018		343.09		3120434 11/20/2018 12/20/20		437	200	3000	120	0
4	4490837015	LONGDALE PARK	DEKALB COUNTY GOVERNMENT	LONGDALE PARK	1830 LONGDALE DR		DECATUR	GA 30032	12/26/2018		22.51	22.51 GS-C	2809539 11/25/2018 12/26/20		146	1	0	0	-
40	6659024009	Belvedere Park	DEKALB COUNTY GOVERNMENT		3569 LARKSPUR TER		DECATUR		12/20/2018		26.57		7039637 11/19/2018 12/20/20		4834	1	46	0	0
489	8606834000	Shoal Creek Park #1	DEKALB COUNTY GOVERNMENT	MARK TRAIL POOL	3642 GLENWOOD RD UNIT BSBL2		DECATUR		12/21/2018		23.14		1802718 11/20/2018 12/21/20		8189	1	22	0	-
45	9803844009	MARK TRAIL POOL	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	MARK TRAIL POOL	2230 TILSON RD 1340 MCCONNELL DR		DECATUR DECATUR	GA 30032 GA 30033	12/21/2018	0	38.27		3139652 11/20/2018 12/20/20	18 521	523	60	120	0	0
182	0003411603 5166773007	N DEC YOUTH ASS	DEKALB COUNTY GOVERNMENT	N DEC YOUTH ASSOC	872 GAYLEMONT CIR UNIT 6116		DECATOR	GA 30033	1/14/2019	0	848.1 67.36		11/28/2018 12/28/20 2971697 12/12/2018 1/13/201		38092	-	301		1
185	5307776017		DEKALB COUNTY GOVERNMENT	N DEC YOUTH ASSUC	2057 LAWRENCEVILLE HWY		DECATUR	GA 30033	1/15/2019	0	22.9	22.9 OL REG			38092	1	301		-
198	5349776017	DeKalb County Horse Farm	DEKALB COUNTY GOVERNMENT	Little Creek Horse Farm	2015 LAWRENCEVILLE HWY	UNIT FARM	DECATUR	GA 30033	1/15/2019	0	\$ 871.41	\$ 871.41 TOUEO-		9 14451	24879	-	10428	24	24
214	7329772006	MEDLOCK POOL	DEKALB COUNTY GOVERNMENT	MEDLOCK POOL	872 GAYLEMONT CIR UNIT 6114	UNII PARIVI	DECATOR	GA 30033	1/12/2019	0	40.56		3122618 12/11/2018 1/14/201		18699	1	119	24	18
281	0359925027	Exchange Park Recreation Center	DEKALB COUNTY GOVERNMENT	MEDLOCK POOL	2771 COLUMBIA DR		DECATOR	GA 30033	1/3/2019		455.12		3308055 12/2/2018 1/3/2019		46557	1	4304	10	10
287	0593919183	Exchange Park Recreation Center	DEKALB COUNTY GOVERNMENT		2771 COLUMBIA DR		DECATOR	GA 30034 GA 30034	1/3/2019	0	1460.03		3530571 12/2/2018 1/3/2019		28203	40	19080	44	44
320	0807431018	Exchange Park Recreation Center	DEKALB COUNTY PARKS AND REC		2771 COLUMBIA DR		DECATUR	GA 30034	1/7/2019	0	696	696 OL-UGN			20203	40	19000		_
323	0814833013	TOWER 4604	DEKALB COUNTY GOVERNMENT		0 COLUMBIA DR		DECATOR	GA 30034	1/3/2019	0	734.51		2808780 12/2/2018 1/2/2019		24300	40	7400	13	16
354	0898833004	PICNIC PAVILION	DEKALB COUNTY GOVERNMENT	PICNIC PAVILION	2771 COLUMBIA DR UNIT 6117		DECATUR	GA 30034	1/3/2019	0	283.67		2985138 12/2/2018 1/2/2019		48071	1	3321	5	5
363	0919833006	Exchange Park Recreation Center	DEKALB COUNTY GOVERNMENT	TICHIC PAVILION	2771 COLUMBIA DR UNIT 6117		DECATUR	GA 30034	1/3/2019	0	22.55	22.55 GS-C	4034959 12/3/2018 1/3/2019	68640	68640	1	0	0	0
368	1393835009	Oak View Flementary School	DEKALB COUNTY GOVERNMENT	TRUELOVE SOFTBALL	3510 OAKVALE RD UNIT 6255		DECATUR	GA 30034	1/9/2019	0	95.45		3119669 12/5/2018 1/7/2019		1324	60	420	1	62
384	1663602034	Summergate Park	DEKALB COUNTY GOVERNMENT		3700 COLUMBIA PKWY	UNIT PAVIL	DECATUR	GA 30034	1/8/2019		292.03		4045334 12/6/2018 1/8/2019		14519	1	1717	0	0
420	1859450017	Chapel Hill Park	DEKALB COUNTY GOVERNMENT		3985 LEHIGH BLVD		DECATUR	GA 30034	1/7/2019	0	447.75		4071589 12/4/2018 1/6/2019		83661	1	4610	13	8
468	3855634082	Exchange Park Recreation Center	DEKALB COUNTY GOVERNMENT		2771 COLUMBIA DR		DECATUR		12/28/2018	0	545.27	545.27 OLUNR							
99	4123189019	BRNSML AQUATIC	DEKALB COUNTY GOVERNMENT	BROWNSMILL AQUATIC	4929 BROWNS MILL RD		LITHONIA	GA 30038	12/28/2018	0	357.28	357.28 GS-C	3145395 11/27/2018 12/27/20	18 72877	74973	1	2096	0	0
115	6302834006	BROWNS MILL REC	DEKALB COUNTY GOVERNMENT	BROWNS MILL REC	5101 BROWNS MILL RD		LITHONIA	GA 30038	12/28/2018	0	674.15		3232727 11/27/2018 12/27/20	18391	18519	60	7680	23	0
116	6491834038	PARK CONCESS #2	DEKALB COUNTY GOVERNMENT	PARK CONCESSION #2	5099 BROWNS MILL RD		LITHONIA	GA 30038	1/2/2019	0	821.38	821.38 GS-C	3145437 11/27/2018 12/28/20	18 42880	47950	1	5070	0	0
124	8483456013	Browns Mill Acquatic Center	DEKALB COUNTY GOVERNMENT		4929 BROWNS MILL RD		LITHONIA	GA 30038	12/28/2018	0	3441.27		3139238 11/27/2018 12/27/20	18 45820	46391	40	22840	32	185
141	0675848012	Southeast Athletic Complex	DEKALB COUNTY GOVERNMENT		5845 HILLVALE RD		LITHONIA	GA 30058	1/2/2019	0	788.71		3139264 11/28/2018 12/31/20		1955	60	660	107	101
146	0813949058	Southeast Athletic Complex	DEKALB COUNTY GOVERNMENT		5845 HILLVALE RD		LITHONIA	GA 30058	12/31/2018	0	312.27		3236909 11/28/2018 12/30/20		58254	1	2192	89	0
150	0960077016	Redan Recreation Sports Field	DEKALB COUNTY GOVERNMENT		1745 PHILLIPS RD		LITHONIA	GA 30058	12/17/2018	0	248.61	248.61 OLUNR	7 -7 7 - 7				الكلكة		
153	0969847005	SE SOCCER COMPL	DEKALB COUNTY GOVERNMENT	SE SOCCER COMPLEX	5845 HILLVALE RD UNIT 6118		LITHONIA	GA 30058	12/31/2018	0	824.35		3139265 11/28/2018 12/30/20		2103	60	600	56	106
161	0990847026	Southeast Athletic Complex	DEKALB COUNTY GOVERNMENT		5845 HILLVALE RD UNIT 6118		LITHONIA	GA 30058	12/31/2018	0	377		3138349 11/28/2018 12/30/20		57900	1	4344	11	7
194	2727139006	Rock Chapel Church	DEKALB COUNTY GOVERNMENT	ROCK CHAPEL PARK	1116 ROCK CHAPEL RD REAR		LITHONIA	GA 30058	12/18/2018	0	67.31		3139050 11/13/2018 12/13/20		1198	40	80	0	34
208	3191842004	LITHONIA POOL	DEKALB COUNTY GOVERNMENT	LITHONIA POOL	6718 PARKWAY ST UNIT 6114		LITHONIA	GA 30058	1/16/2019		101.05		3507395 12/13/2018 1/14/201		14466	40	440	2	33
276	5006845008	REC CNTR	DEKALB COUNTY GOVERNMENT		2484 BRUCE ST UNIT 6105		LITHONIA		1/11/2019	0	719.97		3120007 12/9/2018 1/10/201		13996	60	8040	20	20
20	7307834025	Redan Recreation Sports Field	DEKALB COUNTY GOVERNMENT		1745 PHILLIPS RD UNIT BALLF		LITHONIA	GA 30058	1/15/2019	0	417.38		3139466 12/12/2018 1/15/201		5711	60	4140	6	0
25	7328834061	Redan Recreation Center	DEKALB COUNTY GOVERNMENT		1839 PHILLIPS RD		LITHONIA		1/15/2019	0	1738.84		2 3225947 12/12/2018 1/15/201		47636	40	19360	51	51
55	7383871008	Southeast Athletic Complex	DEKALB COUNTY GOVERNMENT		5845 HILLVALE RD		LITHONIA	GA 30058	1/2/2019	0	22.51		1887696 11/29/2018 12/31/20	18 93	93	1	0	0	0
144 347	7455173008	SOCCER	DEKALB COUNTY GOVERNMENT		5845 HILLVALE RD		LITHONIA	GA 30058	12/31/2018		22.74	22.74 GS-C	1887697 11/28/2018 12/31/201		1158	1	8	U	0
347 18	7895834033 8320798041	Redan Recreation Sports Field ROCK CHAP PK	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	ROCK CHAPEL PARK	1745 PHILLIPS RD UNIT SOFTB 1116 ROCK CHAPEL RD		LITHONIA LITHONIA	GA 30058 GA 30058	1/15/2019		126.58 243.65		3139071 12/12/2018 1/14/201 3139048 11/13/2018 12/13/20		2362	60 40	600 120	1	80 51
18	8320798041	ROCK CHAP PK CONCESSION	DEKALB COUNTY GOVERNMENT	ROCK CHAPEL PARK	1116 ROCK CHAPEL RD	UNIT CONCS	LITHONIA		1/16/2019		243.65 367.99				2198 1946	40	3080	- 0	51
67 467	8341798023 1483090009	CONCESSION	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	ROCK CHAPEL PARK	1116 ROCK CHAPEL RD 644 PARKDALF DR	UNIT CONCS	LITHONIA SCOTTDALE	0.10000	1/16/2019	0	367.99 30.7	367.99 TOUEO- 30.7 OL GOV	3514074 12/14/2018 1/16/201 11/28/2018 12/28/20		1946	40	3080	- 5	- 5
467	1483090009	Toble Grant FB FIELD	DEKALB COUNTY GOVERNMENT	FB FIELD	400 GLENDALE RD UNIT FBFLD		SCOTTDALE		12/28/2018	0	30.7		3517806 11/15/2018 12/18/20		444	40	80		
484 98	2159495004	CONCESSION STAN	DEKALB COUNTY GOVERNMENT	CONCESSION STAND	400 GLENDALE RD UNIT FBFLD		SCOTTDALE		12/18/2018		31.94 60.58		2835034 11/16/2018 12/18/20		15299	40	261	0	0
117	4635775007	TOBIE GRANT PL	DEKALB COUNTY GOVERNMENT	TOBIE GRANT PL	644 PARKDALE DR UNIT 6114		SCOTTDALE	GA 30079 GA 30079	12/18/2018	0	148.42	148.42 PLS-C	3303597 11/15/2018 12/17/20		30381	1	763	1	16
	4761744016	BALLFIELD	DEKALB COUNTY GOVERNMENT	BALLFIELD	400 GLENDALE RD UNIT BLFLD		SCOTTDALE		12/19/2018	0	22.88		2835017 11/15/2018 12/17/20		1043	1	13	0	0
179				- Critici ICCO	644 PARKDALE DR UNIT 6105		SCOTTDALE		12/18/2018		659.92		3128579 11/15/2018 12/17/20		11236	1	4526	13	18
179 183	9780774002	TORIF GRANT CTR																	10
183	9780774002	TOBIE GRANT CTR Wade Walker Park	DEKALB COUNTY GOVERNMENT										4014811 11/15/2018 12/17/20	18777		1		0	0
183 246	0822289029	TOBIE GRANT CTR Wade Walker Park DeKalb County Parks & Recreation Department	DEKALB COUNTY GOVERNMENT		5585 ROCKBRIDGE RD		STONE MOUNT	AIN GA 30088	12/17/2018	0	100.61	100.61 GS-C	4014811 11/15/2018 12/17/20		18741	1 60	514	0	0 83
183 246 268	0822289029 3914836037	Wade Walker Park	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT		5585 ROCKBRIDGE RD 5550 WALKER RD UNIT CONC		STONE MOUNT STONE MOUNT	AIN GA 30088 AIN GA 30088	12/17/2018	0	100.61 1301.62	100.61 GS-C 1301.62 PLM-C	3301903 11/14/2018 12/16/20	1980	18741 2111	1 60	514 7860	0 99	0 83 0
183 246	0822289029	Wade Walker Park	DEKALB COUNTY GOVERNMENT		5585 ROCKBRIDGE RD		STONE MOUNT STONE MOUNT STONE MOUNT	AIN GA 30088	12/17/2018 12/17/2018 12/17/2018	0 3 0 3 0	100.61	100.61 GS-C 1301.62 PLM-C 96.64 GS-C		18 1980 18 3287	18741	1 60 1	514	0 99 0	0 83 0

403	1419783002	COFER POOL N DEVALE ART	DEKALB COUNTY GOVERNMENT	COFER POOL	4257 N PARK DR UNIT 6114 5345 ROBERTS DR UNIT 1140	TUCKER GA 30084 12/28/2018 0 DUNWOODY GA 30338 12/18/2018 0					17520		1496	0 0
412	6738772002	N DEKALB ART TUCKER REC CTR	DEKALB COUNTY GOVERNMENT	TUCKER REC CTR	4898 LAVISTA RD UNIT 6105	TUCKER GA 30084 12/26/2018 0	1370.27	1370.27 TOU-MB 32312		3 12/17/2018 98003 3 12/25/2018 48954	49244		17400	52 0
	0730772002	Fire Station & Headquarters - Pink	GEORGIA POWER COMPANY	TOCKER REC CIR	4000 EAVISIA IID CIAI 0200	10CHEN 0750004 12/20/2010 0	2570.27	1370.E7 100 Mib 32312	30 11/13/1010	12/23/2010 40334	43244		17400	<u> </u>
129	2267876015	Fire Station # 3	DEKALB COUNTY GOVERNMENT		100 N CLARENDON AVE	AVONDALE ESTATES GA 30002 1/11/2019 0	931.96	931.96 PLS-C 30488	68 12/9/2018	1/10/2019 7183	7347	40	6560	20 25
158	2707605045	Fire Station # 3	DEKALB COUNTY GOVERNMENT		100 N CLARENDON AVE	AVONDALE ESTATES GA 30002 1/14/2019 0	372.43	372.43 OLUNR	12/12/2018	3 1/14/2019				
86	1444244027	Fire Station # 19	DEKALB COUNTY GOVERNMENT		3253 MERCER UNIVERSITY DR	CHAMBLEE GA 30341 1/7/2019 0	615.88	615.88 PLS-C 28171			33257	1	5669	10 14
165	7058774009	FIRE 19	DEKALB COUNTY GOVERNMENT	FIRE 19	3253 MERCER UNIVERSITY DR UNIT 4625	CHAMBLEE GA 30341 1/7/2019 0	714.06	714.06 TOU-MB 35045			22020	40	8320	18 0
206 52	7944782000 9364778002	FIRE 15 FIRE 23	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	FIRE STATION 15 FIRE 23	2017 FLIGHTWAY DR UNIT 4625	CHAMBLEE GA 30341 1/4/2019 0 CLARKSTON GA 30021 12/19/2018 0	715.71 1004.02	715.71 PLS-C 30091 1004.02 PLS-C 31254			23333	40	6040 8840	15 17 31 24
52	3819840002	FIRE 23 FIRE-7	DEKALB COUNTY GOVERNMENT	FIRE 23	1265 BROCKETT RD UNIT 4625 1776 DERRILL DR UNIT 4625	DECATUR GA 30021 12/19/2018 0	1004.02	1004.02 PLS-C 31254	, , ,	, , , , , , , , , , , , , , , , , , , ,	29726 46485	40	3203	10 15
10	4797989009	FIRE-/	DEKALB COUNTY GOVERNMENT	FIRE-/	2522 MCAFEE RD UNIT FIRE	DECATOR GA 30032 12/20/2018 0 DECATOR GA 30032 12/26/2018 0	941.58		33 11/20/2018		28770	40	9520	27 21
339	7721932017	Fire Station #6	DEKALB COUNTY GOVERNMENT		2342 FLAT SHOALS RD	DECATUR GA 30032 12/26/2018 0	1308.23	1308.23 PLM-C 31393			41941		13000	26 30
222	8115773001	FIRE 09	DEKALB COUNTY GOVERNMENT		3858 N DRUID HILLS RD UNIT 4625	DECATUR GA 30033 1/14/2019 0	637.37	637.37 PLS-C 31261			14340		5000	14 16
290	0603670024	Fire Training Academy	DEKALB COUNTY GOVERNMENT		3161 WARREN RD	DECATUR GA 30034 1/3/2019 0	754.95	754.95 PLS-C 28087	59 12/2/2018	1/2/2019 7025	7136	40	4440	34 23
294	0623001007	Fire Training Academy	DEKALB COUNTY GOVERNMENT		3161 WARREN RD	DECATUR GA 30034 1/3/2019 0	438.23	438.23 TOUEO-C 32192			2805	40	4160	18 18
364	1011259010	Fire Training Academy	DEKALB COUNTY GOVERNMENT		1749 FAIRLAKE DR UNIT A	DECATUR GA 30034 1/3/2019 0	631.97	631.97 PLS-C 31380			23645	1	4398	9 17
380	1486844009	FIRE-MAINT	DEKALB COUNTY GOVERNMENT		3161 WARREN RD	DECATUR GA 30034 1/3/2019 0	151.55		92 12/2/2018		48922	1	835	0 0
381	1507844001	FIRE-TOWER	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT		3190 WARREN RD UNIT 4625 2919 WARREN RD UNIT 4625	DECATUR GA 30034 1/3/2019 0 DECATUR GA 30034 1/4/2019 0	745.99	745.99 TOU-MB 52346			9006	40	8920	29 0 17 0
404 429	2564913017	FIRE-20	DEKALB COUNTY GOVERNMENT		1749 FAIRLAKE DR UNIT B	DECATUR GA 30034 1/4/2019 0 DECATUR GA 30034 1/4/2019 0	691.21 22.54	691.21 TOU-MB 31201 22.54 GS-C 40712			23649 62183	40	7760 0	17 0 0 0
59	6936836007	Fire Training Academy FIRE 16	DEKALB COUNTY GOVERNMENT		2750 PLEASANTWOOD RD UNIT 4625	DECATOR GA 30034 1/4/2019 0 DECATUR GA 30034 1/7/2019 0	700.48		64 12/4/2018		36804	1	5423	15 18
409	1377783000	FIRE 12	DEKALB COUNTY GOVERNMENT		5323 ROBERTS DR UNIT 4625	DUNWOODY GA 30338 12/18/2018 0	476.36	476.36 PLS-C 16699			39741	1	3431	12 12
449	9505794006	FIRE 21	DEKALB COUNTY GOVERNMENT		1090 CROWN POINTE PKWY UNIT 4625	DUNWOODY GA 30338 12/17/2018 0	1121.62	1121.62 PLS-C 30100			31888	40	11680	36 24
299	5900839004	FIRE-14	DEKALB COUNTY GOVERNMENT	FIRE-14	7207 COVINGTON HWY UNIT 4625	LITHONIA GA 30058 1/15/2019 0	446.99	446.99 PLS-C 28093			86185	1	2878	6 12
304	5921839004	FIRE-14 TRLR	DEKALB COUNTY GOVERNMENT	FIRE-14 TRLR	7207 COVINGTON HWY UNIT 4625	LITHONIA GA 30058 1/16/2019 0	23.1	23.1 GS-C 28093			3929	1	0	0 0
233	0244449009	Fire Station # 24	DEKALB COUNTY GOVERNMENT		4154 REDAN RD UNIT 50	STONE MOUNTAIN GA 30083 12/18/2018 0	23.57	23.57 GS-C 18778	06 11/16/2018	3 12/18/2018 2413	2440	1	27	0 0
463	7045842007	FIRE-24	DEKALB COUNTY GOVERNMENT	FIRE STATION 24	4154 REDAN RD UNIT 4625	STONE MOUNTAIN GA 30083 12/18/2018 0	1263.56	1263.56 PLM-C 31203	,,		20895		9780	26 34
27	7151843003	FIRE 11	DEKALB COUNTY GOVERNMENT	FIRE STATION 11	6715 MEMORIAL DR UNIT 4625	STONE MOUNTAIN GA 30083 12/19/2018 0	573.22		85 11/18/2018		12924	40	3360	10 16
279	8660836008	FIRE 13	DEKALB COUNTY GOVERNMENT	FIRE STATION 13	5619 REDAN RD UNIT 4625	STONE MOUNTAIN GA 30088 1/11/2019 0	408.55	408.55 PLS-C 28171			2873	1 10	2590	9 11
335 336	0387778001 0402645032	FIRE 22 DeKalb County Fire Headquarters	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	FIRE STATION 22	1859 MONTREAL RD UNIT 4625 1950 W EXCHANGE PL	TUCKER GA 30084 1/12/2019 0 TUCKER GA 30084 12/26/2018 0	939.93 34.94		04 12/10/2018 29 11/26/2018		27322 16620	40	8360 95	36 22 0 0
336	3377210004	DeKalb County Fire Headquarters	DEKALB COUNTY GOVERNMENT		1950 W EXCHANGE PL 1950 W EXCHANGE LN UNIT UNMT	TUCKER GA 30084 12/26/2018 0	1473.71	1473.71 OL GOVT	11/28/2018		10020	1	95	0
400	3735781006	FIRE 05	DEKALB COUNTY GOVERNMENT	FIRE 05	4013 LAWRENCEVILLE HWY UNIT 4625	TUCKER GA 30084 12/26/2018 0	348.97	348.97 PLS-C 31193	,,	2//	10363	40	1920	8 14
456	9922106008	DeKalb County Fire Headquarters	DEKALB COUNTY GOVERNMENT		1950 W EXCHANGE PL	TUCKER GA 30084 12/27/2018 0	38903.52	38903.52 RTDPLLC VY143			0		504634	986 657
		Roads & Drainage/Traffic - Gold	1300 COMMERCE DR											
283	0003370009	Traffic Signal	DEKALB COUNTY GOVERNMENT		0 TRAFFIC CONTROLS	DECATUR GA 30030 12/28/2018 0	1424.71	1424.71 TC	11/28/2018	12/28/2018				
352	0003404500	Traffic Signal	DEKALB COUNTY GOVERNMENT		0 TRFC SGNL S DKLB	DECATUR GA 30030 12/28/2018 0	1549.38	1549.38 TC	11/28/2018	12/28/2018				
451	0003411505	Traffic Signal	DEKALB COUNTY GOVERNMENT		0 TR SIGNALS TUCKER	DECATUR GA 30030 12/28/2018 0	1568.58	1568.58 TC	11/28/2018	3 12/28/2018				
492	0531816038	CAM 100	DEKALB COUNTY GOVERNMENT		0 SCOTT BLVD	DECATUR GA 30030 1/4/2019 0	32.27	32.27 GS-C	12/4/2018	1/4/2019 15600	15678	1	78	0 0
254 228	4107940021 5608135025	CAM 102 CAM 101	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT	CAM 102 CAM 101	859 CLAIRMONT AVE 1486 SCOTT BLVD	DECATUR GA 30030 12/27/2018 0 DECATUR GA 30030 12/27/2018 0	32.2 31.62	32.2 GS-C 31.62 GS-C	11/2//2018	3 12/27/2018 15600 3 12/27/2018 15600	15678 15678	1	78 78	0 0
57	0003361402	Traffic Signal	DEKALB COUNTY GOVERNMENT	CAIVI 101	3361 CAMP RD ST LTS	DECATOR GA 30030 12/27/2018 0 DECATOR GA 30032 12/28/2018 0	668.02	668.02 OL GOVT	11/27/2010	3 12/27/2018 13800	13078	1	-/-	0 0
127	0228047014	Traffic Signal	DEKALB COUNTY GOVERNMENT	SURPLUS WAREHOUSE	3629 CAMP WAY	DECATUR GA 30032 12/21/2018 0	22.8	22.8 GS-C	11/21/2018	3 12/21/2018 1107	1117	1	10	0 0
130	0237696007	Road & Dranage Field Office	DEKALB COUNTY GOVERNMENT		729 CAMP RD	DECATUR GA 30032 12/28/2018 0	163.31	163.31 OL GOVT	11/28/2018	12/28/2018				
221	0691254038	CAM 7	DEKALB COUNTY GOVERNMENT		0 MEMORIAL DR	DECATUR GA 30032 1/12/2019 0	31.83	31.83 GS-C	12/11/2018	1/12/2019 15678	15756	1	78	0 0
416	1563474065	Road & Dranage Field Office	DEKALB COUNTY GOVERNMENT		729 CAMP RD UNIT D	DECATUR GA 30032 12/19/2018 0	204.22	204.22 GS-C 56892	29 11/18/2018	12/19/2018 18939	20108	1	1169	0 0
472	2223056015	CAMERA CAMERA@285	DEKALB COUNTY GOVERNMENT	CAMERA	727 CAMP RD 0 MEMORIAL DR	DECATUR GA 30032 12/21/2018 0	22.8	22.8 GS-C	11/21/2018	3 12/21/2018 1107 3 1/12/2019 45907	1117 46339	1	10 432	0 0
473 475	2978540002	CAMERA@285	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT		815 CHURCH ST	DECATUR GA 30032 1/12/2019 0 DECATUR GA 30032 1/14/2019 0	88.17 6.84	88.17 GS-C	12/11/2018	3 1/12/2019 45907	46339	1	432	0 0
491	3328173005	CAMERA@LUTHER	DEKALB COUNTY GOVERNMENT		0 MEMORIAL DR	DECATUR GA 30032 1/12/2019 0	88.17	88.17 GS-C	12/11/2018	3 1/12/2019 45994	46426	1	432	0 0
295	3699830015	Road & Dranage Field Office	DEKALB COUNTY GOVERNMENT		729 CAMP RD UNIT B	DECATUR GA 30032 12/19/2018 0	1735.24	1735.24 TOU-MB 32036	31 11/18/2018	3 12/18/2018 12726	13027	80	24080	53 0
168	3747536011	Road & Dranage Field Office	DEKALB COUNTY GOVERNMENT		727 CAMP RD STE B	DECATUR GA 30032 12/19/2018 0	551.21	551.21 PLS-C 29847	81 11/18/2018	12/18/2018 87923	92130	1	4207	18 14
288	3803246007	Road & Dranage Field Office	DEKALB COUNTY GOVERNMENT		727 CAMP RD STE A	DECATUR GA 30032 12/19/2018 0	803.1	803.1 TOU-MB 31364	72 11/18/2018	12/18/2018 15279	15530	40	10040	30 0
5	4593626052	CAMERA	DEKALB COUNTY GOVERNMENT	SECURITY CAMERA	3621 CAMP RD	DECATUR GA 30032 12/21/2018 0	22.8	22.8 GS-C	11/21/2018	3 12/21/2018 1107	1117	1	10	0 0
8	4611067017	NHairston Cam	DEKALB COUNTY GOVERNMENT		0 MEMORIAL DR	DECATUR GA 30032 12/21/2018 0	25.61	25.61 GS-C	11/21/2018	3 12/21/2018 3211	3251	1	40	0 0
31	6542836006	DRAINAGE P. S. D. SLIOR	DEKALB COUNTY GOVERNMENT		729 CAMP RD OFC 729 CAMP RD UNIT A	DECATUR GA 30032 12/19/2018 0 DECATUR GA 30032 12/19/2018 0	887.24	887.24 TOU-MB 32319 361.13 PLS-C 29847	92 11/18/2018	3 12/18/2018 11785 3 12/19/2018 34366	11921 37644	80	10880 3278	26 0
27	6584836006 6605836008	R & D SHOP R & D WASH RACK	DEKALB COUNTY GOVERNMENT DEKALB COUNTY GOVERNMENT		729 CAMP RD UNIT A 729 CAMP RD	DECATUR GA 30032 12/19/2018 0 DECATUR GA 30032 12/20/2018 0	361.13 230.15	361.13 PLS-C 29847 230.15 GS-C 75254	51 11/19/2018	3 12/19/2018 34366 3 12/18/2018 75765	37644 77098	1	1333	0 0
38	6626836017	Road & Dranage Field Office	DEKALB COUNTY GOVERNMENT		729 CAMP RD 729 CAMP RD REAR YARD	DECATUR GA 30032 12/19/2018 0	51.07	51.07 GS-C 29847	79 11/18/2018	3 12/18/2018 51684	51885	1	201	0 0
107	7413138036	CAM 2	DEKALB COUNTY GOVERNMENT	CAM 2	4623 MEMORIAL DR	DECATUR GA 30032 1/14/2019 0	24.21	24.21 GS-C	12/12/2018	3 1/14/2019 6030	6060	1	30	0 0
264	7527016009	RAYS RD CAM	DEKALB COUNTY GOVERNMENT		0 MEMORIAL DR	DECATUR GA 30032 12/21/2018 0	25.61	25.61 GS-C	11/21/2018	3 12/21/2018 3211	3251	1	40	0 0
350	7995539008	VILLGSQUDR CAM	DEKALB COUNTY GOVERNMENT		0 MEMORIAL DR	DECATUR GA 30032 12/21/2018 0	25.61	25.61 GS-C	11/21/2018	3 12/21/2018 3211	3251	1	40	0 0
479	8427761008	HAMBRICK RD CAM	DEKALB COUNTY GOVERNMENT		0 MEMORIAL DR	DECATUR GA 30032 12/21/2018 0	25.61	25.61 GS-C	11/21/2018	3 12/21/2018 3211	3251	1	40	0 0
66	0193697059	CAM 52	DEKALB COUNTY GOVERNMENT	CAM 52	1145 N DRUID HILLS RD	DECATUR GA 30033 1/14/2019 0	31.86	31.86 GS-C	12/12/2018	3 1/14/2019 15678	15756	1	78	0 0
/3	5627543029	CAM 30 CAM 56	DEKALB COUNTY GOVERNMENT	CAM 30	1910 LAWRENCEVILLE HWY 3300 N DRUID HILLS RD	DECATUR GA 30033 12/27/2018 0 DECATUR GA 30033 12/27/2018 0	31.62	31.62 GS-C	11/27/2018	3 12/27/2018 15600 3 12/27/2018 15600	15678 15678	1	78	0 0
211	5988028029	CAM 56 CAM 50	DEKALB COUNTY GOVERNMENT	CAM 50	2148 LAWRENCEVILLE HWY	DECATUR GA 30033 1/2/2//2018 0 DECATUR GA 30033 1/11/2019 0	31.62	31.81 GS-C	12/10/2018	3 1/2/2//2018 15600 3 1/11/2019 15673	15678	1	78	0 0
212	7565524028	CAM 50	DEKALB COUNTY GOVERNMENT	CAM 51	3861 N DRUID HILLS RD	DECATOR GA 30033 1/11/2019 0 DECATOR GA 30033 12/27/2018 0	31.62	31.62 GS-C	11/27/2018	3 12/27/2018 15600	15678	1	78	0 0
266	1618639045	CAM 8	DEKALB COUNTY GOVERNMENT	CAM 8	6350 MEMORIAL DR	STONE MOUNTAIN GA 30083 12/27/2018 0	31.62	31.62 GS-C	11/27/2018	3 12/27/2018 15600	15678	1	78	0 0
309	3309315047	CAM 5	DEKALB COUNTY GOVERNMENT	CAM 5	5550 MEMORIAL DR	STONE MOUNTAIN GA 30083 12/27/2018 0	31.62	31.62 GS-C	11/27/2018	3 12/27/2018 15600	15678	1	78	0 0
311	4126245032	CAM 3	DEKALB COUNTY GOVERNMENT	CAM 3	4820 MEMORIAL DR	STONE MOUNTAIN GA 30083 12/27/2018 0	31.62	31.62 GS-C	11/27/2018	3 12/27/2018 15600	15678	1	78	0 0
32	7394218044	CAM 4	DEKALB COUNTY GOVERNMENT	CAM 4	5158 MEMORIAL DR	STONE MOUNTAIN GA 30083 12/27/2018 0	31.62	31.62 GS-C	11/27/2018	12/27/2018 15600	15678	1	78	0 0
330	0315404034	CAM 160	DEKALB COUNTY GOVERNMENT	CAM 160	1535 HUGH HOWELL RD	TUCKER GA 30084 12/21/2018 0	32.2	32.2 GS-C	11/21/2018	3 12/21/2018 15600	15678	1	78	0 0
357	0883276079	Traffic Signal	DEKALB COUNTY GOVERNMENT		2184 NORTHLAKE PKWY	TUCKER GA 30084 12/26/2018 0	27.4	27.4 TCM 70538	43 11/26/2018	3377	3549	1	172	0 0
46	0053258021	Traffic Signal	DEKALB COUNTY GOVERNMENT		1561 SCOTT BLVD	DECATUR GA 30033 1/16/2019 0	\$ 55.38 \$	55.38 TC	12/14/2018	3 1/16/2019				
424	7023135009	Senior Center - Dark Blue	DERALB COUNTY GOVERNMENT		3460 DAVISIN ND	10CKEN GA 30084 12/27/2018 0	14.79	14.79 IL	11/2//2018	12/2//2010				
367	1688126008	North DeKalb CO. Senior Center	DEKALB COUNTY GOVERNMENT		3393 MALONE DR	CHAMBLEE GA 30341 1/8/2019 0	2385.18	2385.18 PLM-C 32968	07 12/5/2018	1/7/2019 15051	15601	40	22000	79 59
2	4049278019	South DeKalb Senior Center	DEKALB COUNTY GOVERNMENT		1931 CANDLER RD	DECATUR GA 30032 12/21/2018 0	2142.2		71 11/20/2018		22705	40	15320	36 64
65	0136231028	Central DeKalb Senior Center	DEKALB COUNTY GOVERNMENT	Mason Mill Restroom	1356 MCCONNELL DR UNIT	DECATUR GA 30033 1/10/2019 0	82.65	82.65 GS-C 51588			78393		398	0 0
91	0836544006	Central DeKalb Senior Center	DEKALB COUNTY GOVERNMENT		1346 MCCONNELL DR	DECATUR GA 30033 1/10/2019 0	4501.08	4501.08 PLM-C 30729	98 12/7/2018	1/10/2019 22269	22722	120	54360	107 100
97	0883052006	Central DeKalb Senior Center/Tennis Court Lights	DEKALB COUNTY GOVERNMENT		1340 MCCONNELL DR UNIT DS	DECATUR GA 30033 1/10/2019 0	453.65		86 12/7/2018		11429	40	4600	16 0
104	1550329042	Central DeKalb Senior Center/Tennis Court Lights	DEKALB COUNTY GOVERNMENT		1340 MCCONNELL DR	DECATUR GA 30033 1/12/2019 0	17.43	17.43 OLUNR	12/11/2018					
122	2803006002	Central DeKalb Senior Center/Tennis Court Lights	DEKALB COUNTY GOVERNMENT		1340 MCCONNELL DR UNIT	DECATUR GA 30033 1/10/2019 0	29.42	29.42 GS-C 58070			68564	1	63	0 0
125	2830989003	Central DeKalb Senior Center/Tennis Court Lights	DEKALB COUNTY GOVERNMENT		1340 MCCONNELL DR	DECATUR GA 30033 12/17/2018 0	1027.37	1027.37 OLUNR	11/15/2018	3 12/17/2018				

470	2020222005	LICE CAUDICULATERY	DEKALB COUNTY GOVERNMENT		1340 MCCONNELL DR UNIT 6105		DECATUR	C4 20022	4 /40/2040		726.25	726.25	D144.6 24	20200 42	/7/2040	1/9/2019	4601	4636	120	4200	20	22
173	2930///005	LIFE ENRICHMENT					DECATUR	GA 30033	1/10/2019	U			PLM-C 31	129299 12	///2018	1/9/2019		4636	120	4200	20	32
177	2972777023	Central DeKalb Senior Center	DEKALB COUNTY GOVERNMENT		1400 MCCONNELL DR		DECATUR	GA 30033	1/10/2019	0	2320.25	2320.25	PLM-C 32	31315 12	/7/2018	1/9/2019	5429	5768	40	13560	142	134
392	6849698028	Lou Walker Senior Center	DEKALB COUNTY GOVERNMENT		2538 PANOLA RD		LITHONIA	GA 30058	12/31/2018	0	9363.48	9363.48	PLM-C 31	139401 11/	/28/2018	12/30/2018	66176	66770	160	95040	205	258
447	7059445007	Lou Walker Senior Center	DEKALB COUNTY GOVERNMENT		2538 PANOLA RD		LITHONIA	GA 30058	1/3/2019	0	2118.99	2118.99	OLUNR	12	/3/2018	1/3/2019						
		Health Center - Light Green																				
178	3913631047	DeKalb Medical Specilty Center	DEKALB COUNTY GOVERNMENT		2710 N DECATUR RD		DECATUR	GA 30033	1/16/2019	0	14.07	14.07	TC	12/	/14/2018	1/16/2019						
223	8121104012	DeKalb County Medical Center	DEKALB COUNTY GOVERNMENT		2701 N DECATUR RD		DECATUR	GA 30033	12/28/2018	0	9.65	9.65	TC	11/	/28/2018	12/28/2018						
298	5774845005	REDAN CARETAKER	DEKALB COUNTY GOVERNMENT	REDAN CARETAKER	2146 S DESHON RD UNIT A		LITHONIA	GA 30058	1/15/2019	0	17.24	17.24	RES 45	42561 12/	/13/2018	1/15/2019	3713	3760	1	47	0	0
		Administation - Orange	ACCTNG SVCS/ROBIN MCKNIGHT																			
432	1785394015	Tax Commissioner Building	DEKALB COUNTY GOVERNMENT		4380 MEMORIAL DR		DECATUR	GA 30032	12/28/2018	0	117.65	117.65	OL GOVT	11/	/28/2018	12/28/2018						
13	5522105018	Tax Commissioner Building	DEKALB COUNTY GOVERNMENT		4380 MEMORIAL DR		DECATUR	GA 30032	1/15/2019	0	17677.3	17677.3	PLM-C EB	1913 12/	/13/2018	1/14/2019	0	0	1	210741	428	430
106	7130836008	ANNEX BUILDING	DEKALB COUNTY GOVERNMENT		727 CAMP RD UNIT 5445		DECATUR	GA 30032	12/19/2018	0	473.63	473.63	TOU-MB 31	71139 11/	/18/2018	12/18/2018	12240	12352	40	4480	23	0
277	0323473034	Porter Sanford Performing Art Center	DEKALB COUNTY GOVERNMENT		3181 RAINBOW DR		DECATUR	GA 30034	1/7/2019	0	\$ 3,194.75	\$ 3,194.79	OLUNR	12	/5/2018	1/7/2019						
292	0609430051	Porter Sanford Performing Art Center	DEKALB COUNTY GOVERNMENT		3181 RAINBOW DR		DECATUR	GA 30034	1/3/2019	0	\$ 10,744.17	\$ 10,744.17	PLM-C 31	13381 12	/2/2018	1/2/2019	84793	85935	120	137040	311	242
		FLEET MAINTENANCE - Purple	DECATUR GA 30030																			
378	1444844009	FLEET MAINT	DEKALB COUNTY GOVERNMENT		3043 WARREN RD UNIT 1210		DECATUR	GA 30034	1/3/2019	0	2103.98	2103.98	TOU-MB 31	138692 12	/2/2018	1/2/2019	31474	31828	80	28320	77	0
75	8038845008	FLEET MNT/ACTG	DEKALB COUNTY GOVERNMENT		3043 WARREN RD UNIT 1210		DECATUR	GA 30034	1/4/2019	0	22.6	22.6	GS-C 29	985991 12	/2/2018	1/2/2019	46	48	1	2	0	0
156	8882776023	DeKalb County Fleet Management	DEKALB COUNTY GOVERNMENT		5350 MEMORIAL DR		STONE MOUNTA	IN GA 30083	12/19/2018	0	4979.81	4979.81	PLM-C 31	180788 11/	/18/2018	12/18/2018	35054	35330	150	41400	104	152

ACCT-NO	ACCT-ID	ADDRESS	Cit	ty	С	urrent Due
4051248003	PRESS MON #5	5900 PEACHTREE INDUSTRL BLVD	CHAMBLEE	GA 30341	\$	225.62
9668781001	PERIMETER L S	4182 DEACON LN	CHAMBLEE	GA 30341	\$	163.32
6541408008	RESIDENTIAL	1089 CASA DR UNIT 10	CLARKSTON	GA 30021	\$	23.66
3914758001	ELEV TANK	1127 W HOWARD AVE UNIT 8021	DECATUR	GA 30030	\$	23.03
0291478030	RESIDENTIAL	2466 VIVIAN CIR	DECATUR	GA 30030	\$	61.29
0198618030	PRESSURE MONITO	3669 MORELAND AVE	DECATUR	GA 30032	\$	73.53
1277784005	BOOSTER STATION	3742 MIDVALE RD	DECATUR	GA 30032	\$	1,767.85
3225745007	ELEVATED TANK	3250 COVINGTON HWY	DECATUR	GA 30032	\$	176.37
3372756032	DeKalb CO. Watershed Mgt. CIP (Lease)	4572 MEMORIAL DR	DECATUR	GA 30032	\$	2,798.99
6359840016	WATER TOWER	2522 MCAFEE RD UNIT 8021	DECATUR	GA 30032	\$	113.86
7193776007	ELEVATED TANK	1901 MASON MILL RD	DECATUR	GA 30033	\$	53.85
0246700014	RESIDENTIAL	2804 MILLWOOD WAY UNIT 12	DECATUR	GA 30033	\$	23.55
0003404000	DeKalb County Water & Sewer Plant	4124 FLAKES MILL RD	DECATUR	GA 30034	\$	8.97
0003408606	DeKalb County Water & Sewer Plant	4124 FLAKES MILL RD	DECATUR	GA 30034	\$	93,634.70
2966836002	PUMP STATION	3537 WESLEY CHAPEL RD	DECATUR	GA 30034	\$	2,054.20
0055053015	RESIDENTIAL	3016 FLAT SHOALS RD UNIT 38	DECATUR	GA 30034	\$	23.43
2853837002	COLUMBIA G S	1770 COLUMBIA DR UNIT WATER	DECATUR	GA 30034	\$	6,132.21
0463272013	PRESSURE MON 10	5400 COVINGTON HWY	DECATUR	GA 30035	\$	73.71
8529852004	SCARBROUGH L S	5810 COVINGTON HWY	DECATUR	GA 30035	\$	264.34
0909191028	Great Faith Ministries Atlanta	1500 AGAPE WAY	DECATUR	GA 30035	\$	66.33
0003390403	DeKalb County Water & Sewer Plant	2746 LAURELWOOD DR; LIGHTING	DORAVILLE	GA 30340	\$	1,035.75
5538487003	PRESS MON 15	3588 OAKCLIFF RD	DORAVILLE	GA 30340	\$	370.32
0111114017	Citgo Gas Station	5417 BUFORD HWY NE	DORAVILLE	GA 30340	\$	668.27
0003382401	DeKalb County Water & Sewer Plant	4830 WINTERS CHAPEL RD	DORAVILLE	GA 30360	\$	179,776.89
0202907033	DeKalb County Water & Sewer Plant	4826 WINTERS CHAP RD	DORAVILLE	GA 30360	\$	23.09
1851211054	LIGHTING	4901 WINTERS CHAPEL RD	DORAVILLE	GA 30360	\$	174.36

2746237018	DeKalb County Water & Sewer Plant	0 LAURELWOOD RD	DORAVILLE	GA 30360	\$ 16.33
8555776002	PUMP STATION	0 WINTERS CHAPEL UNIT 8021	DORAVILLE	GA 30360	\$ 251.86
9327806001	DeKalb County Water & Sewer Plant	4830 WINTERS CHAPEL RD	DORAVILLE	GA 30360	\$ 27.39
0620786003	DEK CNT GVT FIN	5187 TILLY MILL RD	DUNWOODY	GA 30338	\$ 1,153.43
0311411006	PRESSURE MONITO	8200 MALL PKWY	LITHONIA	GA 30038	\$ 73.37
0525597022	PRESSURE MONITO	3316 SNAPFINGER RD	LITHONIA	GA 30038	\$ 73.63
2703461010	PUMP STATION	4674 BRANDI BAY	LITHONIA	GA 30038	\$ 380.43
5303479035	PUMP STATION	5396 BEECHWOOD FOREST DR	LITHONIA	GA 30038	\$ 393.99
6923814006	PRESSURE MON #6	3800 BIG MILLER GROVE WAY	LITHONIA	GA 30038	\$ 73.45
4433836003	SALEM RD L S	5337 SALEM CT	LITHONIA	GA 30038	\$ 262.96
0108174027	RESIDENTIAL	4834 CARLY WAY	LITHONIA	GA 30038	\$ 225.10
3803658016	Publix Supermarket ATM	3045 PANOLA RD	LITHONIA	GA 30038	\$ 28.12
0003402104	DeKalb County Water & Sewer Plant	4664 FLAT BRIDGE RD	LITHONIA	GA 30058	\$ 54,302.42
0003405203	LIGHTING	4664 FLAT BRIDGE RD	LITHONIA	GA 30058	\$ 51.38
0869607018	STORAGE TANK	6670 PARKWAY DR	LITHONIA	GA 30058	\$ 5,586.49
2607737031	PUMP	6203 WINDY RIDGE TRL	LITHONIA	GA 30058	\$ 199.98
3204321007	PRESS MON #2	2826 EVANS MILL RD	LITHONIA	GA 30058	\$ 74.71
3204892010	PUMP STATION	2475 OAKLEAF CIR	LITHONIA	GA 30058	\$ 151.99
4670825022	PUMP STATION	1300 GREEN RIDGE AVE	LITHONIA	GA 30058	\$ 220.01
4834799007	LCC 2 LIFT	1485 ROCK CHAPEL RD	LITHONIA	GA 30058	\$ 6,113.66
6451799005	LCC 3 LIFT	7120 MADDOX RD	LITHONIA	GA 30058	\$ 6,843.71
7190843001	COMM TOWER	6112 MYSTERY VALLEY LN	LITHONIA	GA 30058	\$ 407.73
8320797008	LCC1 LIFT	7364 DRAKE AVE	LITHONIA	GA 30058	\$ 5,666.63
0410273335	TS@COVINGTN HWY	7227 COVINGTON HWY	LITHONIA	GA 30058	\$ 14.93
8362798014	Rock Chapel Church	1116 ROCK CHAPEL RD	LITHONIA	GA 30058	\$ 27.74
7043843024	Street Lights	6094 SHADOW ROCK DR	LITHONIA	GA 30058	\$ 236.68
6745799004	EAST LOT GAS	1750 ROGERS LAKE RD	LITHONIA	GA 30058	\$ 125.67
0054868003	PUMP STATION	6826 MEMORIAL DR	STONE MOUNTAIN	N GA 30083	\$ 723.34
0861520032	PRESSURE MON 7	405 N HAIRSTON RD	STONE MOUNTAIN	N GA 30083	\$ 74.64
1261775018	PUMP STATION	1391 JULIETTE RD	STONE MOUNTAIN	N GA 30083	\$ 231.19
1779049027	PUMP STATION	1664 LEWIS WAY	STONE MOUNTAIN	N GA 30083	\$ 64.89

4182753004	LIFT STATION	1313 STONE MILL WAY	STONE MOUNTAIN	GA 30083	\$ 235.74
4243773000	BOOSTER STATION	327 SAGEWOOD CIR UNIT 8021	STONE MOUNTAIN	GA 30083	\$ 22.06
4587837003	LIFT STATION	1099 NEW GIBRALTAR SQ	STONE MOUNTAIN	GA 30083	\$ 217.51
5763837006	LIFT STATION	930 FOURTH ST	STONE MOUNTAIN	GA 30083	\$ 309.29
5936764005	GUARD SHACK	1640 ROADHAVEN DR	STONE MOUNTAIN	GA 30083	\$ 134.15
7527739025	DeKalb County Watershed Management	1640 ROADHAVEN DR	STONE MOUNTAIN	GA 30083	\$ 673.90
7959759004	DeKalb County Watershed Management	1580 ROADHAVEN DR UNIT 8002	STONE MOUNTAIN	GA 30083	\$ 24.69
8063771002	ELEVATED TANK	1750 STONE RIDGE DR	STONE MOUNTAIN	GA 30083	\$ 231.31
8735771005	ROADHAVEN COMPL	1580 ROADHAVEN DR UNIT 8002	STONE MOUNTAIN	GA 30083	\$ 7,370.38
9239771020	DeKalb County Watershed Management	1641 ROADHAVEN DR	STONE MOUNTAIN	GA 30083	\$ 2,264.20
0261837003	MAIN BLDG	5384 MANOR DR	STONE MOUNTAIN	GA 30083	\$ 700.42
1061849019	DeKalb County School Public Safety	5861 MEMORIAL DR	STONE MOUNTAIN	GA 30083	\$ 751.65
7395760001	Street Lights	4700 CLARION PASS	STONE MOUNTAIN	GA 30083	\$ 252.04
2893581016	PUMP	565 DOVE LN	STONE MOUNTAIN	GA 30087	\$ 416.49
7907652007	PRESSURE MON #6	5057 HUGH HOWELL RD	STONE MOUNTAIN	GA 30087	\$ 74.71
8661836002	PEPPERWOOD L S	780 PEPPERWOOD TRL	STONE MOUNTAIN	GA 30087	\$ 372.20
3784804005	MEETING HOUSE	1034 STEPHENSON RD	STONE MOUNTAIN	GA 30087	\$ 12.43
2633836005	LIFT STATION	1300 PANOLA RD UNIT 8021	STONE MOUNTAIN	GA 30088	\$ 7,122.06
1353833003	WADE WALKER MAI	5585 ROCKBRIDGE RD	STONE MOUNTAIN	GA 30088	\$ 240.30
0643760016	LIFT STATION	4375 LAWRENCEVILLE HWY	TUCKER G	A 30084	\$ 288.52
1678774001	TUCKER PUMP STA	4226 LAWRENCEVILLE HWY	TUCKER G	A 30084	\$ 517.85
9236783000	BOOSTER STATION	2815 HENDERSON RD	TUCKER G	A 30084	\$ 1,503.29
9468772008	BOOSTER STATION	0 STEEL AT LAWREN UNIT 8021	TUCKER G	A 30084	\$ 2,987.63
5584775007	CAMPCREEK L S	4877 LAWRENCEVILLE HWY	TUCKER G	A 30084	\$ 88.99
8333782002	LEEHAVEN L S	2610 OAK AVE	TUCKER G	A 30084	\$ 205.63
6592775012	Royal ATL 2 L S	4991 S ROYAL ATLANTA DR	TUCKER G	A 30084	\$ 175.04
7159775002	ROYAL ATL 3 L S	5238 ROYAL WOODS PKWY	TUCKER G	A 30084	\$ 354.45
8461776007	HAMMERMILL 1 L	4760 HAMMERMILL RD	TUCKER G	A 30084	\$ 397.13
7285776004	HAMMERMILL 2 L	4880 HAMMERMILL RD	TUCKER G	A 30084	\$ 34.00
1783776000	HAMMERMILL 3 L	2301 MOUNTAIN INDUSTRIAL	TUCKER G	A 30084	\$ 183.43
3974859001	LEESHIRE L S	5031 LEESHIRE TRL	TUCKER G	A 30084	\$ 445.69

0544776070	E T Exports	2156 FLINTSTONE DR	TUCKER GA 30084	\$ 1,152.34
1398783000	DUNWOODY G S	5335 ROBERTS DR UNIT 8021	DUNWOODY GA 30338	\$ 997.86
3153939017	RESIDENTIAL	3885 WOLVERTON CIR	LITHONIA GA 30038	\$ 529.18
4083731135	Street Lights	4673 THOMPSON MILL RD	LITHONIA GA 30038	\$ 23.06
0543366007	Street Lights	4949 S ROYAL ATLANTA DR	TUCKER GA 30084	\$ 407.58
1187199016	Street Lights	5128 STONE MILL WAY	STONE MOUNTAIN GA 30083	\$ 425.41
8672771030	MTR & LGTNG	1640 ROADHAVEN DR	STONE MOUNTAIN GA 30083	\$ 239.78
0909191028	Great Faith Ministries Atlanta	1500 AGAPE WAY	DECATUR GA 30035	\$ 66.33
7442843000	KINGWAY L S	5985 KINGWAY WALK UNIT 8033	LITHONIA GA 30058	\$ 252.86
8672771030	MTR & LGTNG	1640 ROADHAVEN DR	STONE MOUNTAIN GA 30083	\$ 239.78
4545836015	Residental House/Generator	608 CATRINA CT	STONE MOUNTAIN GA 30087	\$ 280.97
7556834002	SHOAL CRK MAINT	3630 GLENWOOD RD UNIT 6117	DECATUR GA 30032	\$ 36.85
0229285009	Waffle House	7977 ROCKBRIDGE RD UNIT 20	STONE MOUNTAIN GA 30083	\$ 23.39
			Total	\$ 407,171.91

ACCT-NO	ACCT-ID	ADDRESS	Ci	ty	С	urrent Due
0003390109	Sanitation	2315 CHAMTUCKR RD	CHAMBLEE	GA 30341	\$	23.22
0195331330	Sanitation	2315 CHAMBLEE TUCKER RD	CHAMBLEE	GA 30341	\$	23.64
1518782003	N LOT SAN	2315 CHAMBLEE TUCKER RD	CHAMBLEE	GA 30341	\$	54.79
1539782003	N LOT SAN	2315 CHAMBLEE TUCKER RD	CHAMBLEE	GA 30341	\$	1,140.51
8720799000	BUFORD SAN	4600 BUFORD HWY UNIT 8110	CHAMBLEE	GA 30341	\$	143.45
8741799000	BUFORD SAN	4600 BUFORD HWY UNIT 8110	CHAMBLEE	GA 30341	\$	1,162.65
8762799000	BUFORD SAN	4600 BUFORD HWY UNIT 8110	CHAMBLEE	GA 30341	\$	23.17
0386581004	Sanitation	3643 CAMP CIRCLE; BUILDING A	DECATUR	GA 30032	\$	1,703.57
1233158034	Sanitation	3643 CAMP CIR	DECATUR	GA 30032	\$	28.45
4593674030	Sanitation	3720 LEROY SCOTT DR	DECATUR	GA 30032	\$	5,107.97
5703128013	WELDING SHOP	799 CAMP RD	DECATUR	GA 30032	\$	277.89
6183254011	Sanitation	3720 LEROY SCOTT DR	DECATUR	GA 30032	\$	5,490.00
0175752002	Sanitation	1755 FAIRLAKE DR TRLR 4	DECATUR	GA 30034	\$	485.29
0291734042	Sanitation	1755 FAIRLAKE DR TRLR 2	DECATUR	GA 30034	\$	568.95
0439984504	Sanitation	1755 FAIRLAKE DR TRLR 3	DECATUR	GA 30034	\$	474.75
0687213038	Sanitation	1755 FAIRLAKE DR TRLR 5	DECATUR	GA 30034	\$	532.38
0895522031	Sanitation	1755 FAIRLAKE DR TRLR 1	DECATUR	GA 30034	\$	627.85
2643683141	Street Lights	3714 RAINBOW DR	DECATUR	GA 30034	\$	23.21
6087697010	Sanitation	1755 FAIRLAKE DR	DECATUR	GA 30034	\$	696.83
0003404608	Sanitation	1750 ROGERS LAKE RD	LITHONIA	GA 30058	\$	108.15
0993234021	Sanitation	1750 ROGERS LAKE RD	LITHONIA	GA 30058	\$	23.09
1359177013	Sanitation	1750 ROGERS LAKE RD	LITHONIA	GA 30058	\$	23.09
6724799004	8133 AC 220 EAS	1750 ROGERS LAKE RD	LITHONIA	GA 30058	\$	100.61
1803779036	DeKalb CO. Animal Crematory	810 CAMP RD	DECATUR	GA 30032	\$	306.61
			То	tal	\$	19,150.12

ACCT-NO	ACCT-ID	ADDRESS	City		•	Current Due
0003407501	JAIL TOTALIZED	4425 MEMORIAL DR	DECATUR	GA 30032	\$	90,200.68
1893486051	Street Lights	655 CAMP RD	DECATUR	GA 30032	\$	311.18
			То	tal	\$	90,511.86

ACCT-NO	ACCT-ID	ADDRESS	С	ity	(Current Due
0024331128	DeKalb CO. Police Precinct	2842 H F SHEPHERD DR	DECATUR	GA 30032	\$	4,016.84
3901842021	South DeKalb Shopping Center	2853 CANDLER RD STE 100	DECATUR	GA 30034	\$	83.45
4069842015	South DeKalb Shopping Center	2853 CANDLER RD STE 203	DECATUR	GA 30034	\$	1,338.88
2667185026	DeKalb County Police Academy	2484 BRUCE ST BLDG	LITHONIA	GA 30058	\$	443.43
2675607004	DeKalb County Police Academy	2484 BRUCE ST TRLR	LITHONIA	GA 30058	\$	23.33
3059328007	DeKalb County Police Academy	2484 BRUCE ST	LITHONIA	GA 30058	\$	103.12
3339457003	BRUCE ST PRECIN	2484 BRUCE ST	LITHONIA	GA 30058	\$	646.84
3539942010	DeKalb County Police Academy	2484 BRUCE ST BLDG B	LITHONIA	GA 30058	\$	249.85
4985845005	BRUCE ST CENTER	2484 BRUCE ST UNIT 1140	LITHONIA	GA 30058	\$	1,920.75
7275927017	DeKalb County Police Academy	2484 BRUCE ST	LITHONIA	GA 30058	\$	62.53
1238868017	POLICE DEPT	4451 LAWRENCEVILLE HWY	TUCKER	GA 30084	\$	1,843.32
			То	tal	\$	10,732.34

ACCT-NO	ACCT-ID	ADDRESS	(City	(Current Due
0003391704	Airport	0 FLIGHTWAY DR	CHAMBLEE	GA 30341	\$	2,188.85
0303749064	Airport	2200 AIRPORT RD BLDG 2	CHAMBLEE	GA 30341	\$	413.10
0306252004	Airport	2000 AIRPORT RD	CHAMBLEE	GA 30341	\$	593.93
0405205183	Airport	2500 AIRPORT RD BLDG 5	CHAMBLEE	GA 30341	\$	333.38
0648215016	Airport	3303 HARDEE AVE UNIT	CHAMBLEE	GA 30341	\$	25.01
0711525085	Airport	2400 AIRPORT RD BLDG 4	CHAMBLEE	GA 30341	\$	532.13
0768951140	Airport	2000 AIRPORT RD	CHAMBLEE	GA 30341	\$	656.58
0852555018	Airport	2300 AIRPORT RD BLDG 3	CHAMBLEE	GA 30341	\$	400.60
2599047008	Airport	1983 BRAGG ST	CHAMBLEE	GA 30341	\$	623.75
4651889006	GATE 5	2000 AIRPORT RD	CHAMBLEE	GA 30341	\$	23.31
7356782009	AIRFIELD LIGHTS	2000 AIRPORT RD UNIT 8210	CHAMBLEE	GA 30341	\$	1,625.22
7377782009	ADMIN BLDG 2	2044 AIRPORT RD UNIT 8210	CHAMBLEE	GA 30341	\$	4,100.03
7608782008	A T-HANGER	3321 HARDEE AVE UNIT 8210	CHAMBLEE	GA 30341	\$	279.08
7671782001	RUNWAY	3419 HARDEE AVE UNIT 8210	CHAMBLEE	GA 30341	\$	28.73
7707245026	CAM 120	2823 CHAMBLEE TUCKER RD	CHAMBLEE	GA 30341	\$	32.35
7755782003	B T-HANGER	0 CORSAIR DR UNIT 8210	CHAMBLEE	GA 30341	\$	215.91
7902782000	NE AIRPORT GATE	11 CORSAIR DR UNIT 8210	CHAMBLEE	GA 30341	\$	26.94
8534365009	Airport	4600 BUFORD HWY	CHAMBLEE	GA 30341	\$	239.61
8699799005	NORTHERN SVC CN	4600 BUFORD HWY UNIT 6116	CHAMBLEE	GA 30341	\$	1,388.34
8783799000	BUFORD FUEL	4600 BUFORD HWY UNIT 8110	CHAMBLEE	GA 30341	\$	48.46
9833800006	PDK BEACON LIGH	4400 BUFORD HWY UNIT 8210	CHAMBLEE	GA 30341	\$	90.05
6999782013	SVC SIGN@FRONT	3915 CLAIRMONT RD UNIT 8210	CHAMBLEE	GA 30341	\$	82.27
			Total		\$	13,947.63

ACCT-NO	ACCT-ID	ADDRESS	Ci	ity	Cu	rrent Due
0773922017	Parks & Rec. Office	3681 CHESTNUT ST	AVONDALE ESTA	ATES GA 30002	\$	479.20
2346744010	Parks & Rec. Office	3681 CHESTNUT ST UNIT 6115	AVONDALE ESTA	ATES GA 30002	\$	743.17
3643030016	Parks & Rec. Office	3681 CHESTNUT ST	AVONDALE ESTA	ATES GA 30002	\$	467.19
1341295002	CHILDREN PLAYGR	2000 AIRPORT RD	CHAMBLEE	GA 30341	\$	79.40
1871449018	Parks & Rec. Office	2301 DRESDEN DR	CHAMBLEE	GA 30341	\$	273.50
0581155017	N.H. Scott Recreation Center	2230 TILSON RD	DECATUR	GA 30032	\$	1,190.99
1362834009	MIDWAY REC CENT	3201 MIDWAY RD UNIT 6105	DECATUR	GA 30032	\$	585.20
1404834001	MIDWAY MAINT	3181 MIDWAY RD UNIT 6117	DECATUR	GA 30032	\$	23.14
1425834029	Midway Recreation Center	3181 MIDWAY RD UNIT FTBL	DECATUR	GA 30032	\$	343.09
4490837015	LONGDALE PARK	1830 LONGDALE DR	DECATUR	GA 30032	\$	22.51
6659024009	Belvedere Park	3569 LARKSPUR TER	DECATUR	GA 30032	\$	26.57
8606834000	Shoal Creek Park #1	3642 GLENWOOD RD UNIT BSBL2	DECATUR	GA 30032	\$	23.14
9803844009	MARK TRAIL POOL	2230 TILSON RD	DECATUR	GA 30032	\$	38.27
0003411603	Mason Mill Tennis Center	1340 MCCONNELL DR	DECATUR	GA 30033	\$	848.10
5166773007	N DEC YOUTH ASS	872 GAYLEMONT CIR UNIT 6116	DECATUR	GA 30033	\$	67.36
5307776017	DeKalb County Horse Farm	2057 LAWRENCEVILLE HWY	DECATUR	GA 30033	\$	22.90
5349776017	Street Lights	2015 LAWRENCEVILLE HWY	DECATUR	GA 30033	\$	871.41
7329772006	MEDLOCK POOL	872 GAYLEMONT CIR UNIT 6114	DECATUR	GA 30033	\$	40.56
0359925027	Exchange Park Recreation Center	2771 COLUMBIA DR	DECATUR	GA 30034	\$	455.12
0593919183	Exchange Park Recreation Center	2771 COLUMBIA DR	DECATUR	GA 30034	\$	1,460.03
0807431018	Exchange Park Recreation Center	2771 COLUMBIA DR	DECATUR	GA 30034	\$	696.00
0814833013	TOWER 4604	0 COLUMBIA DR	DECATUR	GA 30034	\$	734.51
0898833004	PICNIC PAVILION	2771 COLUMBIA DR UNIT 6117	DECATUR	GA 30034	\$	283.67
0919833006	Exchange Park Recreation Center	2771 COLUMBIA DR UNIT 6117	DECATUR	GA 30034	\$	22.55
1393835009	Oak View Elementary School	3510 OAKVALE RD UNIT 6255	DECATUR	GA 30034	\$	95.45

1663602034	Summergate Park	3700 COLUMBIA PKWY	DECATUR	GA 30034	\$ 292.03
1859450017	Chapel Hill Park	3985 LEHIGH BLVD	DECATUR	GA 30034	\$ 447.75
3855634082	Exchange Park Recreation Center	2771 COLUMBIA DR	DECATUR	GA 30034	\$ 545.27
0835833004	GREENHOUSE OFF	2765 COLUMBIA DR UNIT 6120	DECATUR	GA 30034	\$ 260.63
0856833004	GREENHOUSE STOR	2701 COLUMBIA DR UNIT 6120	DECATUR	GA 30034	\$ 357.28
0877833004	GREENHOUSE	2701 COLUMBIA DR	DECATUR	GA 30034	\$ 674.15
1523805004	Oak View Elementary School	3510 OAKVALE RD	DECATUR	GA 30034	\$ 821.38
1419783002	N DEKALB ART	5345 ROBERTS DR UNIT 1140	DUNWOODY	GA 30338	\$ 3,441.27
0435569038	Street Lights	2111 MOUNT VERNON RD	DUNWOODY	GA 30338	\$ 788.71
4123189019	BRNSML AQUATIC	4929 BROWNS MILL RD	LITHONIA	GA 30038	\$ 312.27
6302834006	BROWNS MILL REC	5101 BROWNS MILL RD	LITHONIA	GA 30038	\$ 248.61
6491834038	PARK CONCESS #2	5099 BROWNS MILL RD	LITHONIA	GA 30038	\$ 824.35
8483456013	Browns Mill Acquatic Center	4929 BROWNS MILL RD	LITHONIA	GA 30038	\$ 377.00
0675848012	Southeast Athletic Complex	5845 HILLVALE RD	LITHONIA	GA 30058	\$ 67.31
0813949058	Southeast Athletic Complex	5845 HILLVALE RD	LITHONIA	GA 30058	\$ 101.05
0960077016	Redan Recreation Sports Field	1745 PHILLIPS RD	LITHONIA	GA 30058	\$ 719.97
0969847005	SE SOCCER COMPL	5845 HILLVALE RD UNIT 6118	LITHONIA	GA 30058	\$ 417.38
0990847026	Southeast Athletic Complex	5845 HILLVALE RD UNIT 6118	LITHONIA	GA 30058	\$ 1,738.84
2727139006	Rock Chapel Church	1116 ROCK CHAPEL RD REAR	LITHONIA	GA 30058	\$ 22.51
3191842004	LITHONIA POOL	6718 PARKWAY ST UNIT 6114	LITHONIA	GA 30058	\$ 22.74
5006845008	REC CNTR	2484 BRUCE ST UNIT 6105	LITHONIA	GA 30058	\$ 126.58
7307834025	Redan Recreation Sports Field	1745 PHILLIPS RD UNIT BALLF	LITHONIA	GA 30058	\$ 243.65
7328834061	Redan Recreation Center	1839 PHILLIPS RD	LITHONIA	GA 30058	\$ 367.99
7383871008	Southeast Athletic Complex	5845 HILLVALE RD	LITHONIA	GA 30058	\$ 30.70
7455173008	SOCCER	5845 HILLVALE RD	LITHONIA	GA 30058	\$ 31.94
7895834033	Redan Recreation Sports Field	1745 PHILLIPS RD UNIT SOFTB	LITHONIA	GA 30058	\$ 60.58
8320798041	ROCK CHAP PK	1116 ROCK CHAPEL RD	LITHONIA	GA 30058	\$ 148.42
8341798023	CONCESSION	1116 ROCK CHAPEL RD	LITHONIA	GA 30058	\$ 22.88
3443845004	ACCOUNTING SERV	2146 S DESHON RD UNIT B	LITHONIA	GA 30058	\$ 659.92
0108174027	RESIDENTIAL	4834 CARLY WAY			
7127843008	MV IRRIG	6094 SHADOW ROCK DR	LITHONIA	GA 30058	\$ 1,301.62

			Total	\$ 4	6,127.39
5774845005	REDAN CARETAKER	2146 S DESHON RD UNIT A	LITHONIA GA 30058	\$	17.24
0609430051	Porter Sanford Performing Art Center	3181 RAINBOW DR	DECATUR GA 30034	\$	10,744.17
0323473034	Porter Sanford Performing Art Center	3181 RAINBOW DR	DECATUR GA 30034	\$	3,194.75
8404798007	ROCK CHAPEL	1116 ROCK CHAPEL RD	LITHONIA GA 30058	\$	23.01
8362798014	Rock Chapel Church	1116 ROCK CHAPEL RD	LITHONIA GA 30058	\$	27.74
1523805004	Oak View Elementary School	3510 OAKVALE RD	DECATUR GA 30034	\$	137.00
7127843008	MV IRRIG	6094 SHADOW ROCK DR	LITHONIA GA 30058	\$	360.60
3784804005	MEETING HOUSE	1034 STEPHENSON RD	STONE MOUNTAIN GA 30087	\$	12.43
0877833004	GREENHOUSE	2701 COLUMBIA DR	DECATUR GA 30034	\$	45.29
0856833004	GREENHOUSE STOR	2701 COLUMBIA DR UNIT 6120	DECATUR GA 30034	\$	108.00
0835833004	GREENHOUSE OFF	2765 COLUMBIA DR UNIT 6120	DECATUR GA 30034	\$	899.8
6738772002	TUCKER REC CTR	4898 LAVISTA RD UNIT 6105	TUCKER GA 30084	\$	22.6
4345778005	COFER POOL	4257 N PARK DR UNIT 6114	TUCKER GA 30084	\$	370.4
5593170001	Wade Walker Park	5585 ROCKBRIDGE RD	STONE MOUNTAIN GA 30088	\$	288.2
4605156003	Wade Walker Park	5585 ROCKBRIDGE RD	STONE MOUNTAIN GA 30088	\$	22.40
3914836037	DeKalb County Parks & Recreation Department	5550 WALKER RD UNIT CONC	STONE MOUNTAIN GA 30088	\$	280.9
0822289029	Wade Walker Park	5585 ROCKBRIDGE RD	STONE MOUNTAIN GA 30088	\$	252.8
4545836015	Residental House	608 CATRINA CT	STONE MOUNTAIN GA 30087	\$	360.6
9780774002	TOBIE GRANT CTR	644 PARKDALE DR UNIT 6105	SCOTTDALE GA 30079	\$	697.5
4761744016	BALLFIELD	400 GLENDALE RD UNIT BLFLD	SCOTTDALE GA 30079	\$	13.6
4635775007	TOBIE GRANT PL	644 PARKDALE DR UNIT 6114	SCOTTDALE GA 30079	\$	137.00
2159495004	CONCESSION STAN	400 GLENDALE RD ONTI FBFLD	SCOTTDALE GA 30079	\$	45.29
1619645038	FB FIELD	400 GLENDALE RD UNIT FBFLD	SCOTTDALE GA 30079	\$	108.0
1483090009	Tobie Grant	644 PARKDALE DR	SCOTTDALE GA 30079	\$	899.8
2738844009	EMMIE SMITH	6329 SHADOW ROCK DR	LITHONIA GA 30058	\$	1,370.2
7064843024 5274849003	Street Lights 6118 AC220	6094 SHADOW ROCK DR 5848 HILLVALE RD UNIT MAINT	LITHONIA GA 30058 LITHONIA GA 30058	\$	127.19 95.90
7442843000	KINGWAY L S	5985 KINGWAY WALK UNIT 8033	LITHONIA GA 30058	\$	96.6

ACCT-NO	ACCT-ID	ADDRESS	City	C	urrent Due
2267876015	Fire Station # 3	100 N CLARENDON AVE	AVONDALE ESTATES GA 30002	\$	931.96
2707605045	Fire Station # 3	100 N CLARENDON AVE	AVONDALE ESTATES GA 30002	\$	372.43
1444244027	Fire Station # 19	3253 MERCER UNIVERSITY DR	CHAMBLEE GA 30341	\$	615.88
7058774009	FIRE 19	3253 MERCER UNIVERSITY DR	CHAMBLEE GA 30341	\$	714.06
7944782000	FIRE 15	2017 FLIGHTWAY DR UNIT 4625	CHAMBLEE GA 30341	\$	715.71
9364778002	FIRE 23	1265 BROCKETT RD UNIT 4625	CLARKSTON GA 30021	\$	1,004.02
3819840002	FIRE-7	1776 DERRILL DR UNIT 4625	DECATUR GA 30032	\$	532.84
4797989009	Fire Station # 26	2522 MCAFEE RD UNIT FIRE	DECATUR GA 30032	\$	941.58
7721932017	Fire Station #6	2342 FLAT SHOALS RD	DECATUR GA 30032	\$	1,308.23
8115773001	FIRE 09	3858 N DRUID HILLS RD	DECATUR GA 30033	\$	637.37
0603670024	Fire Training Academy	3161 WARREN RD	DECATUR GA 30034	\$	754.95
0623001007	Fire Training Academy	3161 WARREN RD	DECATUR GA 30034	\$	438.23
1011259010	Fire Training Academy	1749 FAIRLAKE DR UNIT A	DECATUR GA 30034	\$	631.97
1486844009	FIRE-MAINT	3161 WARREN RD	DECATUR GA 30034	\$	151.55
1507844001	FIRE-TOWER	3190 WARREN RD UNIT 4625	DECATUR GA 30034	\$	745.99
1738844008	FIRE-20	2919 WARREN RD UNIT 4625	DECATUR GA 30034	\$	691.21
2564913017	Fire Training Academy	1749 FAIRLAKE DR UNIT B	DECATUR GA 30034	\$	22.54
6936836007	FIRE 16	2750 PLEASANTWOOD RD	DECATUR GA 30034	\$	700.48
1377783000	FIRE 12	5323 ROBERTS DR UNIT 4625	DUNWOODY GA 30338	\$	476.36
9505794006	FIRE 21	1090 CROWN POINTE PKWY	DUNWOODY GA 30338	\$	1,121.62
5900839004	FIRE-14	7207 COVINGTON HWY	LITHONIA GA 30058	\$	446.99
5921839004	FIRE-14 TRLR	7207 COVINGTON HWY	LITHONIA GA 30058	\$	23.10
0244449009	Fire Station # 24	4154 REDAN RD UNIT 50	STONE MOUNTAIN GA 30083	\$	23.57
7045842007	FIRE-24	4154 REDAN RD UNIT 4625	STONE MOUNTAIN GA 30083	\$	1,263.56
7151843003	FIRE 11	6715 MEMORIAL DR UNIT 4625	STONE MOUNTAIN GA 30083	\$	573.22

8660836008	FIRE 13	5619 REDAN RD UNIT 4625	STONE MOUNTAIN	GA 30088	\$	408.55
0387778001	FIRE 22	1859 MONTREAL RD UNIT 4625	TUCKER	GA 30084	\$	939.93
0402645032	DeKalb County Fire Headquarters	1950 W EXCHANGE PL	TUCKER	GA 30084	\$	34.94
3377210004	DeKalb County Fire Headquarters	1950 W EXCHANGE LN	TUCKER	GA 30084	\$	1,473.71
3735781006	FIRE 05	4013 LAWRENCEVILLE HWY	TUCKER	GA 30084	\$	348.97
9922106008	DeKalb County Fire Headquarters	1950 W EXCHANGE PL	TUCKER	GA 30084	\$	38,903.52
			Tota		\$!	57,949.04

ACCT-NO	ACCT-ID	ADDRESS	City		Cu	rrent Due
0111641037	PEDLIGHTS /Church's Chicken	4995 BUFORD HWY	CHAMBLEE	GA 30341	\$	623.37
1853992034	Shopping Center	4795 BUFORD HWY	CHAMBLEE	GA 30341	\$	634.36
0003370009	Traffic Signal	0 TRAFFIC CONTROLS	DECATUR	GA 30030	\$	1,424.71
0003404500	Traffic Signal	0 TRFC SGNL S DKLB	DECATUR	GA 30030	\$	1,549.38
0003411505	Traffic Signal	0 TR SIGNALS TUCKER	DECATUR	GA 30030	\$	1,568.58
0531816038	CAM 100	0 SCOTT BLVD	DECATUR	GA 30030	\$	32.27
4107940021	CAM 102	859 CLAIRMONT AVE	DECATUR	GA 30030	\$	32.20
5608135025	CAM 101	1486 SCOTT BLVD	DECATUR	GA 30030	\$	31.62
5171282022	RESIDENTIAL	2193 SCOTT BLVD	DECATUR	GA 30030	\$	31.62
0003361402	Traffic Signal	3361 CAMP RD ST LTS	DECATUR	GA 30032	\$	668.02
0228047014	Traffic Signal	3629 CAMP WAY	DECATUR	GA 30032	\$	22.80
0691254038	CAM 7	0 MEMORIAL DR	DECATUR	GA 30032	\$	31.83
2223056015	CAMERA	727 CAMP RD	DECATUR	GA 30032	\$	22.80
2978540002	CAMERA@285	0 MEMORIAL DR	DECATUR	GA 30032	\$	88.17
2995624025	Traffic Lights	815 CHURCH ST	DECATUR	GA 30032	\$	6.84
3328173005	CAMERA@LUTHER	0 MEMORIAL DR	DECATUR	GA 30032	\$	88.17
4593626052	CAMERA	3621 CAMP RD	DECATUR	GA 30032	\$	22.80
4611067017	NHairston Cam	0 MEMORIAL DR	DECATUR	GA 30032	\$	25.61
7413138036	CAM 2	4623 MEMORIAL DR	DECATUR	GA 30032	\$	24.21
7527016009	RAYS RD CAM	0 MEMORIAL DR	DECATUR	GA 30032	\$	25.61
7995539008	VILLGSQUDR CAM	0 MEMORIAL DR	DECATUR	GA 30032	\$	25.61
8427761008	HAMBRICK RD CAM	0 MEMORIAL DR	DECATUR	GA 30032	\$	25.61
1984687015	Mrs. Winners Chicken & Biscuits	4499 GLENWOOD RD	DECATUR	GA 30032	\$	29.79
2019709303	RESIDENTIAL	3511 SHERRYDALE LN UNIT	DECATUR	GA 30032	\$	-
0193697059	CAM 52	1145 N DRUID HILLS RD	DECATUR	GA 30033	\$	31.86

1		T		-1	
0269250026	CAM 30	1910 LAWRENCEVILLE HWY	DECATUR GA 30033	\$	31.62
5627543029	CAM 56	3300 N DRUID HILLS RD	DECATUR GA 30033	\$	31.62
5988028025	CAM 50	2148 LAWRENCEVILLE HWY	DECATUR GA 30033	\$	31.81
7565524028	CAM 51	3861 N DRUID HILLS RD	DECATUR GA 30033	\$	31.62
0053258021	Traffic Signal	1561 SCOTT BLVD	DECATUR GA 30033	\$	55.38
2903220086	RESIDENTIAL	846 GAYLEMONT CIR	DECATUR GA 30033	\$	9.66
0053258021	Traffic Signal	1561 SCOTT BLVD	DECATUR GA 30033	\$	55.38
1243683044	TS @ Scott Blvd	1561 SCOTT BLVD	DECATUR GA 30033	\$	26.88
0681082191	Walgreens	2781 LAVISTA RD	DECATUR GA 30033	\$	32.29
0551362013	Church's Chicken	3632 FLAKES MILL RD	DECATUR GA 30034	\$	13.74
2343073032	Kroger Supermarket Shopping Center	4919 FLAT SHOALS PKWY	DECATUR GA 30034	\$	13.80
0003364609	LIGHTING	3043 WARREN RD	DECATUR GA 30034	\$	268.83
7542371001	Chiefs Fubot Club	3650 PLEASANTDALE RD	DORAVILLE GA 30340	\$	3,392.73
0108417036	Chiefs Fubot Club	3650 PLEASANTDALE RD	DORAVILLE GA 30340	\$	266.24
0871364037	PEDLIGHTS	5215 BUFORD HWY	DORAVILLE GA 30340	\$	604.43
2683986014	Street Lights	5574 ROCK SPRINGS RD	LITHONIA GA 30038	\$	21.83
3803658016	Publix Supermarket ATM	3045 PANOLA RD	LITHONIA GA 30038	\$	28.12
0410273335	TS@COVINGTN HWY	7227 COVINGTON HWY	LITHONIA GA 30058	\$	14.93
0410273335	TS@COVINGTN HWY	7227 COVINGTON HWY	LITHONIA GA 30058	\$	14.93
1618639045	CAM 8	6350 MEMORIAL DR	STONE MOUNTAIN GA 30083	3 \$	31.62
3309315047	CAM 5	5550 MEMORIAL DR	STONE MOUNTAIN GA 30083	3 \$	31.62
4126245032	CAM 3	4820 MEMORIAL DR	STONE MOUNTAIN GA 30083	3 \$	31.62
7394218044	CAM 4	5158 MEMORIAL DR	STONE MOUNTAIN GA 30083	3 \$	31.62
0136187034	Capital City Bank	5674 MEMORIAL DR	STONE MOUNTAIN GA 30083	3 \$	31.62
0315404034	CAM 160	1535 HUGH HOWELL RD	TUCKER GA 30084	\$	32.20
0883276079	Traffic Signal	2184 NORTHLAKE PKWY	TUCKER GA 30084	\$	27.40
7823135009	Traffic Signal	3400 LAVISTA RD	TUCKER GA 30084	\$	14.79
207463027	STREETSCAPES	0 LAVISTA RD	TUCKER GA 30084	\$	3,394.86
0918102048	Sun Trust Bank	4098 LAVISTA RD	TUCKER GA 30084	\$	200.20
			Total	\$	15,841.23
					•
L		l .			

ACCT-NO	ACCT-ID	ADDRESS	C	City	С	urrent Due
0237696007	Road & Drainage Field Office	729 CAMP RD	DECATUR	GA 30032	\$	163.31
1563474065	Road & Dranage Field Office	729 CAMP RD UNIT D	DECATUR	GA 30032	\$	204.22
3699830015	Road & Drainage Field Office	729 CAMP RD UNIT B	DECATUR	GA 30032	\$	1,735.24
3747536011	Road & Drainage Field Office	727 CAMP RD STE B	DECATUR	GA 30032	\$	551.21
3803246007	Road & Drainage Field Office	727 CAMP RD STE A	DECATUR	GA 30032	\$	803.10
6542836006	DRAINAGE	729 CAMP RD OFC	DECATUR	GA 30032	\$	887.24
6584836006	R & D SHOP	729 CAMP RD UNIT A	DECATUR	GA 30032	\$	361.13
6605836008	R & D WASH RACK	729 CAMP RD	DECATUR	GA 30032	\$	230.15
6626836017	Road & Drainage Field Office	729 CAMP RD REAR YARD	DECATUR	GA 30032	\$	51.07
			To	otal	\$	4,986.67
					+	
					1	

		Total	\$ 9,973	.34
	_			

ACCT-NO	ACCT-ID	ADDRESS	Ci	ity	C	Current Due
1688126008	North DeKalb CO. Senior Center	3393 MALONE DR	CHAMBLEE	GA 30341	\$	2,385.18
4049278019	South DeKalb Senior Center	1931 CANDLER RD	DECATUR	GA 30032	\$	2,142.20
0136231028	Central DeKalb Senior Center	1356 MCCONNELL DR UNIT	DECATUR	GA 30033	\$	82.65
0836544006	Central DeKalb Senior Center	1346 MCCONNELL DR	DECATUR	GA 30033	\$	4,501.08
0883052006	Central DeKalb Senior Center/Tennis Court Lights	1340 MCCONNELL DR UNIT DS	DECATUR	GA 30033	\$	453.65
1550329042	Central DeKalb Senior Center/Tennis Court Lights	1340 MCCONNELL DR	DECATUR	GA 30033	\$	17.43
2803006002	Central DeKalb Senior Center/Tennis Court Lights	1340 MCCONNELL DR UNIT	DECATUR	GA 30033	\$	29.42
2830989003	Central DeKalb Senior Center/Tennis Court Lights	1340 MCCONNELL DR	DECATUR	GA 30033	\$	1,027.37
2930777005	LIFE ENRICHMENT	1340 MCCONNELL DR UNIT 6105	DECATUR	GA 30033	\$	726.25
2972777023	Central DeKalb Senior Center	1400 MCCONNELL DR	DECATUR	GA 30033	\$	2,320.25
6849698028	Lou Walker Senior Center	2538 PANOLA RD	LITHONIA	GA 30058	\$	9,363.48
7059445007	Lou Walker Senior Center	2538 PANOLA RD	LITHONIA	GA 30058	\$	2,118.99
			То	tal	\$	25,167.95

ACCT-NO	ACCT-ID	ADDRESS	City	Current Due
7130836008	ANNEX BUILDING	727 CAMP RD UNIT 5445	DECATUR GA 30032	\$ 473.63
3671529000	Hum App & Test	4380 MEMORIAL DR	DECATUR GA 30032	\$ 443.25
0282837021	KILN & POTTERY	1005 SECOND ST	STONE MOUNTAIN GA 30083	\$ 47.49
0261837003	MAIN BLDG	5384 MANOR DR	STONE MOUNTAIN GA 30083	\$ 700.42
0544776070	E T Exports	2156 FLINTSTONE DR	TUCKER GA 30084	\$ 1,152.34
			Total	\$ 2,817.13

ACCT-NO	ACCT-ID	ADDRESS	City	Current Due
1444844009	FLEET MAINT	3043 WARREN RD UNIT 1210	DECATUR GA 30034	\$ 2,103.98
8038845008	FLEET MNT/ACTG	3043 WARREN RD UNIT 1210	DECATUR GA 30034	\$ 22.60
8882776023	DeKalb County Fleet Management	5350 MEMORIAL DR	STONE MOUNTAIN GA 30083	\$ 4,979.81
			Total	\$ 7,106.39

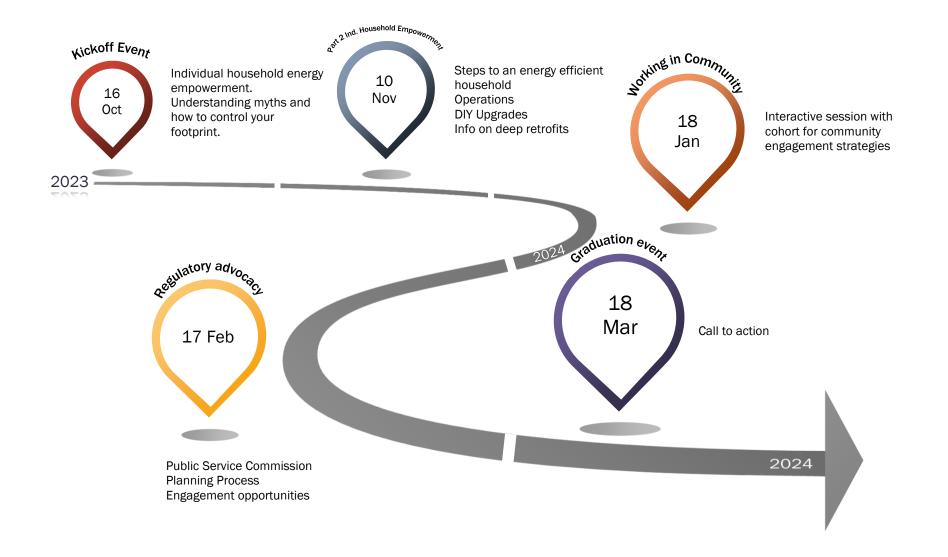
ACCT-NO	ACCT-ID	ADDRESS	City		Current Due	
3539840002	FORENSIC CENTER	3550 KENSINGTON RD	DECATUR	GA 30032	\$	4,757.15
			Total		\$	4,757.15

ACCT-NO	ACCT-ID	ADDRESS	City	Current Due	
1711214042	Animal Shelter	3280 CHAMBLEE DUNWOODY RD	CHAMBLEE GA 30341	\$ 17,274.93	
			Total	\$ 17,274.93	

ACCT-NO	ACCT-ID	ADDRESS	City		Current Due	
3081846034	Public Defender Law Office	320 CHURCH ST	DECATUR	GA 30030	\$	69.61
8868752003	COURTHOUSE	556 N MCDONOUGH ST	DECATUR	GA 30030	\$	94,376.41
9565746017	Public Defender Law Office	320 CHURCH ST	DECATUR	GA 30030	\$	1,086.55
6242709008	Code Enforcement	1807 CANDLER RD SE	DECATUR	GA 30032	\$	542.43
8880836008	RECORDS	3508 COVINGTON HWY	DECATUR	GA 30032	\$	1,613.25
0465370012	DeKalb CO. Police Bobby Burgess	4400 MEMORIAL DR	DECATUR	GA 30032	\$	411.79
1368743025	DeKalb CO. Recorders Court	701 CAMP RD	DECATUR	GA 30032	\$	1,205.88
1809335010	DeKalb CO. Police Bobby Burgess	4400 MEMORIAL DR	DECATUR	GA 30032	\$	1,338.06
			Total		\$	100,643.98

ACCT-NO	ACCT-ID	ADDRESS	City	Current Due	
1785394015	Tax Commissioner Building	4380 MEMORIAL DR	DECATUR GA 30032	\$ 117.65	
5522105018	Tax Commissioner Building	4380 MEMORIAL DR	DECATUR GA 30032	\$ 17,677.30	
			Total	\$ 17,794.95	

ACCT-NO	ACCT-ID	ADDRESS	City	Current Due
3913631047	DeKalb Medical Specilty Center	2710 N DECATUR RD	DECATUR GA 30033	\$ 14.07
8121104012	DeKalb County Medical Center	2701 N DECATUR RD	DECATUR GA 30033	\$ 9.65
			Total	\$ 23.72





DeKalb Clean Energy Transportation Transition Plan: Community Climate Champions (C3)

Alternative engagement strategy

<u>Goal:</u> Build a cohort of C3 activists capable of acting at individual, community, and state levels.

Tactic: Rather than Community input meetings likely attended by community members already engaged in energy issues, recruit through commission and stakeholders, a cohort of diverse community voices already respected in their community for detailed sessions on energy.

Session syllabi:

<u>Individual Level:</u> Session 1: Conducted by Southface Education team. Mythbusting energy advice and sales pitches. Detailed utility tracking, comparison, and budgeting. Evaluation of equipment and appliances for energy consumption. Tracking energy vampires.

Session 2: Evaluating energy improvement projects. DIY techniques for air and duct sealing. In-field techniques for evaluating energy by-passes, envelope efficacy, and ventilation safety.



Includes training manual and reference guides.

Community Level: Session 3: Conducted by IB Environmental (LSBE). Interactive session building on participant's experience with community change. Documenting outlets for community change in the energy sector. Organizing techniques for community help projects. Evaluation techniques for weatherization advice to community members. Utility cost tracking techniques and community advice for self-advocacy.

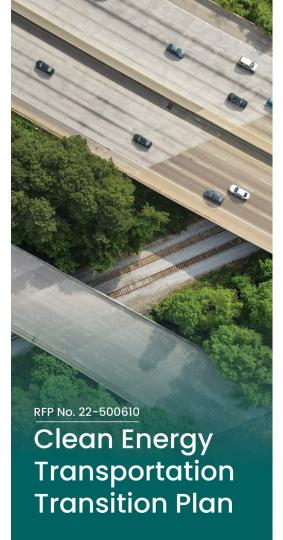


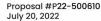
State Level: Session 4: Conducted by Southface Advocacy Team. Baseline State Regulatory structures, State agencies acting in the energy sector, and organizations advocating in the sector. Baseline Public Service Commission (PSC) roles, responsibilities, and actions. PSC planning sequences and community input opportunities and techniques.



Graduation celebration: Session 5: Event to recognize participants and create connections to DeKalb departments and organizations in participant's area of interest and action.







Submitted To

Department of Purchasing and Contracting 1300 Commerce Drive, 2nd Floor Decatur, GA 30030

Attention

Michele L. Smith Email: mlsmith1@ dekalbcountyga.gov

Submitted By



241 Pine St Atlanta, GA 30308 Contact: Laura Case Phone: (404) 872-3549 Email: lcase@southface.org

In Partnership With











The partners



CLEAN CITIES

PARTNERSHIP FOR CLEAN TRANSPORTATION













Project task breakdown

Task	Description	Project %	Project \$	Lead	Clean Cities Georgia	Energetics		Cherry Street Energy	IB Environ mental
Task 1	Recommendations on addressing DeKalb's Clean Energy Goals	5%	\$12.500	Energetics / Southface	0%	50%	50%	0%	0%
Task 2	Recommendations on Energy Efficient methods to meet the County's Energy Needs	5%		Energetics / Southface	0%		50%	0%	
Task 3	Analysis of DeKalb County's municipal solar potential	5%		Cherry St	0%	0%	0%	100%	
Task 4	Recommendations on Increasing Equity and addressing energy burden within the County	8%	\$20,000		0%	20%	20%	0%	
Task 5	Public Stakeholder Inclusion for an Open, Inclusive, and Transparent Planning Process	15%	\$37,500	Southface	0%	0%	75%	0%	25%
Task 6	Assistance in Development of a Clean Electricity and Vehicle Procurement Strategy	8%	\$20,000	Energetics / CC-GA	50%	50%	0%	0%	0%
Task 7	Creation, education and engagement of a DeKalb Climate Task Force	5%	\$12,500	Southface	0%	40%	60%	0%	0%
Task 8	Development of Greenhouse Gas Inventory for County Govt facilities and fleet, and community county-wide	15%	\$37,500	Energetics / ibE	0%	60%	0%	0%	40%
Task 9	Development of clear benchmarks and milestones for the County during the transition to 100% clean and renewable energy and transportation. Including data analysis, equity mapping and forecasting models.	15%	\$37,500	Energetics / Southface	0%	40%	40%	0%	20%
Task 10	Development of a clear process whereby the County Commission will receive updates on progress and take steps to hit benchmarks	5%	\$12,500	Energetics / Southface	0%	45%	45%	0%	10%
Task 11	Deliver final draft transition plan report to the Chief Executive Officer & Board of Commissioners	14% 100%	\$35,000	Southface	5%	40%	40%	0%	



Project schedule

	Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14			
Task	Description	22-Jun	22-Jul	22-Aug	22-Sep	22-Oct	22-Nov	22-Dec	22-Jan	22-Feb	22-Mar	22-Apr	22-May	22-Jun	22-Jul	Project %	Project \$	Lead
	Internal Team Meetings (monthly)																	Southface
PM	Subtask: Update Commissioner on progress after each public meeting																	
sc	Steering Committee Meetings (monthly) Sub-committee Meetings (ad hoc)															-		Southface Southface
Task 1	Recommendations on addressing DeKalb's Clean Energy Goals											,1				5%	\$12,500	Energetics, Southface
Task 2	Recommendations on Energy Efficient methods to meet the County's Energy Needs															5%	\$12,500	Energetics, Southface
Task 3	Analysis of DeKalb County's municipal solar potential												1			5%	\$12,500	Cherry St
Task 4	Recommendations on Increasing Equity and addressing energy burden within the County															8%	\$20,000	ibE
Task 5	Public Stakeholder Inclusion for an Open, Inclusive, and Transparent Planning Process					Oct 14										15%	\$37,500	Southface
Task 6	Assistance in Development of a Clean Electricity and Vehicle Procurement Strategy															8%	\$20,000	Energetics,
Task 7	Creation, education and engagement of a DeKalb Climate Task Force															5%	\$12,500	Southface
Task 8	Development of Greenhouse Gas Inventory for County Govt facilities and fleet, and community county-wide		102													15%	\$37,500	Energetics/
Task 9	Development of clear benchmarks and milestones for the County during the transition to 100% clean and renewable energy and transportation.															15%	\$37,500	Energetics/ Southface
Task 10	Development of a clear process whereby the County Commission will receive updates on progress and take steps to hit benchmarks															5%	\$12,500	Energetics/ Southface
Task 11	Deliver final draft transition plan report to the Chief Executive Officer & Board of Commissioners by August 1, 2024															14%	\$35,000	Southface

Project tasks

- Recommendations on addressing DeKalb's Clean Energy Goals
- 2. Recommendations on Energy Efficient methods to meet the County's Energy Needs

How to transition to clean energy



Educate community & stakeholders



Collaborate with residents, businesses, & institutions



Set goals and track progress



Invest in solar energy & other renewable sources



Reduce energy use through efficiency upgrades



Reduce reliance on fossil fuels



3. Analysis of DeKalb County's municipal solar potential





4. Recommendations on Increasing Equity and addressing energy burden within the County

Development of an energy equity map





5. Public Stakeholder Inclusion for an Open, Inclusive, and Transparent Planning Process

- Creation of a website: www.cleanenergydekalb.com
- Monthly meetings
- Weekly working groups





6. Assistance in Development of a Clean Electricity and Vehicle Procurement Strategy





7. Creation, education and engagement of a DeKalb Climate Task Force



















8. Development of Greenhouse Gas Inventory for County Govt facilities and fleet, and community county-wide







9. Development of clear benchmarks and milestones for the County during the transition to 100% clean and renewable energy and transportation

- Develop ACES model
- Create access to a comprehensive Equity Mapping Platform
- Complete a correlational study of the underlying conditions of energy burden
- Develop a simplified forecasting model
- Project economic development and industry impacts



10. Development of a clear process whereby the County Commission will receive updates on progress and take steps to





11. Deliver final draft transition plan report to the Chief Executive Officer & Board of Commissioners









Questions?

The Process

Project Launch

Input & Awareness

Action
Identification
and
Prioritization

Develop & Refine Plan

Implementation

Initiate stakeholder and community engagement:

- Develop stakeholder engagement approach
- Develop community engagement approach using previous Decatur processes and the engagement squad ensuring a diverse engagement

Host stakeholder and community conversations (depending on COVID realities - can be held virtually or in-person)

- 1:1s with businesses and orgs
- Community-wide kickoff and roundtables with facilitators
- Youth engagement through canvassing

Review feedback from community and stakeholders

- Capture priorities and values of Decaturites
- Consider diverse energy system, policy, and program scenarios
- Release summary findings for community review

Develop Plan

- Select feasible scenarios based on engagement input, analytics from Greenlink, and team knowledge
- Draft and refine Clean Energy Plan, publishing 3 rounds of drafts
- Finalize and deliver Clean Energy Plan

Plan Enactment and Implementation

- Next Steps
- Develop and finalize toolkit and resources for education
- Policy, Programs & Technology



DEKALB GREEN NEW DEAL OCTOBER 14, 2023 SUMMIT







Southface Institute

- Nonprofit delivering practical building and infrastructure solutions to environmental challenges since 1978
- **Eco-Office** with green roof in Atlanta
- New Southface Sarasota satellite location
- About 40 Southfacers who have
 50+ professional certifications total
- Sustainable solutions that work for everyone



The partners













Project tasks

- Recommendations on addressing DeKalb's Clean Energy Goals
- Recommendations on Energy Efficient methods to meet the County's Energy Needs

How to transition to clean energy



Educate community & stakeholders



Collaborate with residents, businesses, & institutions



Set goals and track progress



Invest in solar energy & other renewable sources



Reduce energy use through efficiency upgrades



Reduce reliance on fossil fuels

3. Afialysis of DeKalb Coufity's mufiicipal solar potefitial



4. Recommefidatiofis of liftcreasifig Equity afid addressifig efiergy burdefi withif the Coufity

Development of an energy equity map



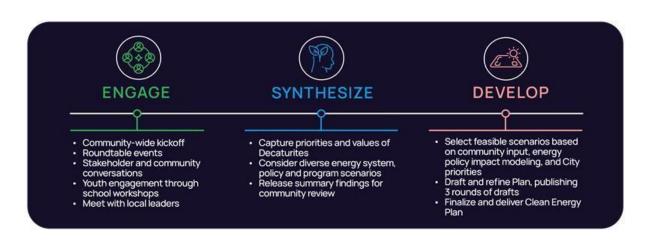
4. Recommefidatiofis of litereasifig Equity afid addressifig effergy burdefi withif the Coufity

• Community Climate Champions



5. Public Stakeholder Ificlusiofi for afi Opefi, Ificlusive, afid Trafisparefit Plafifiifig Process

- Creation of a website: www.cleanenergydekalb.com
- Monthly meetings
- Weekly working groups



5. Public Stakeholder Ificlusiofi for afi Opefi, Ificlusive, afid Trafisparefit Plafifiifig Process

- Creation of a website: www.cleanenergydekalb.com
- Survey



6. Assistafice ifi Developmefit of a Cleafi Electricity afid Vehicle Procuremefit Strategy



7. Creatiofi, educatiofi afid efigagemefit of a DeKalb Climate Task Force

















8. Developmefit of Greefihouse Gas Ifivefitory for Coufity Govt facilities afid fleet, afid commufiity coufity-wide



9. Developmefit of clear befichmarks afid milestofies for the Coufity durifig the trafisitiofi to 100% cleafi afid refiewable efiergy afid trafisportatiofi

- Develop scenarios
- Create access to a comprehensive Equity Mapping Platform
- Complete a correlational study of the underlying conditions of energy burden
- Develop a simplified forecasting model
- Project economic development and industry impacts

10. Developmefit of a clear process whereby the Coufity Commissiofi will receive updates of progress afid take steps to hit befichmarks



11. Deliver fifial draft trafisitiofi plafi report to the Chief Executive Officer & Board of Commissiofiers



Mentimeter question

Do you have any issues with your windows?

- No I never open them
- Yes Broken
- Yes They waste energy
- Yes I feel cold around them

MYTH #1

Replace windows to save money





Storm Windows

- Inside or Outside
- Noise
- Low-E

EQUIPMENT TYPE	TAX CREDIT AVAILABLE FOR 2023-2032 TAX YEARS		
Heating, Cooling, and Water He	eating		
Air-source heat pumps		\$2000/yr	7
Heat pump water heaters	30% of cost, up to \$2,000 per year	max	1
Biomass stoves]	1
Efficient air conditioners	30% of cost, up to \$600]	
Efficient heating equipment			
Efficient water heating equipment	30% of cost, up to \$600		
Other Energy Efficiency Upgrad	les		\$3200/y
Electric panel or circuit upgrades for new electric equipment	30% of cost, up to \$600	\$1200/yr max	max
Insulation materials	30% of cost		
Windows, including skylights	30% of cost, up to \$600		
Exterior doors	30% of cost, up to \$500 for doors (up to \$250 each)		
Home Energy Audits	30% of cost, up to \$150		
Home Electric Vehicle Charger	30% of cost, up to \$1,000		

Measures eligible for the Energy Efficient Home Improvement (25C) Credit. Adapted from the US Department of Energy.

Improvement	Cost
Replacing Window	\$1500 or \$300/window
Installing Storm Window	\$500 or \$100/Window
Adding on Tax Credit	-30% or -\$150 = \$350 or \$70/window



Mentimeter question Have you gotten calls trying to sell Solar

jotten cans trying to sen solar

Panels Yes

No

MYTH #2

Solar Energy is free





• 25D credits can be used for new and existing homes.

	TAX CREDIT AVAILABLE FOR				
EQUIPMENT TYPE	2023-2032 TAX YEARS				
Home Clean Electricity Prod	ucts				
Solar (electricity)					
Fuel Cells	30% of cost				
Wind Turbine					
Battery Storage					
Heating, Cooling, and Water	Heating				
Geothermal heat pumps	20% of cook				
Solar (water heating)	30% of cost				

Measures eligible for the Residential Clean Energy (25D) Credit. Adapted from the US Department of Energy.

2020 Price per watt from Solarize Decatur DeKalb Campaign

Residential Campaign Information

CAMPAIGN EXCLUSIVE TIERED PRICING (Aggregate kw)

	TIER 1	TIER 2	TIER 3	TIER 4	TIER 5	TIER 6	TIER 7	TIER 8 BEST PRICE!
	\$2.75	\$2.70	\$2.65	\$2.65	\$2.60	\$2.55	\$2.50	\$2.45
	(0-50kW)	(51-100kW)	(101-150kW)	(151-200kW)	(201-500kW)	(301-400kW)	(401-500kW+)	(501kW+)

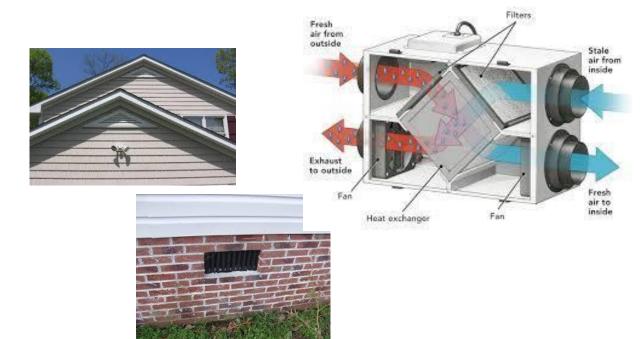
www.solarcrowdsource.com

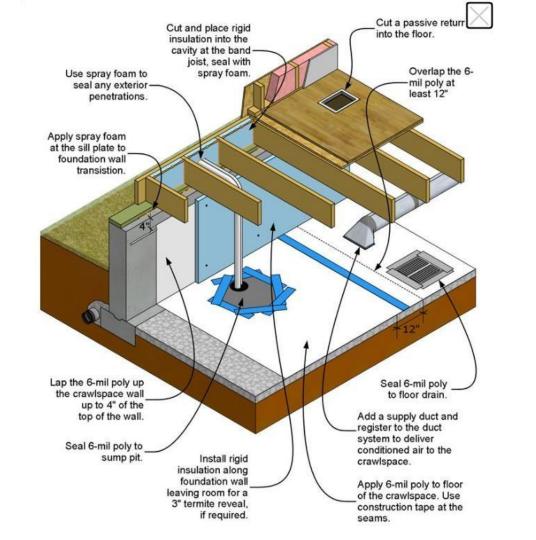
MYTH #3

House has to breathe



Credit: Energy Vanguard





Crawlspace seal precautions

Radon!!!!!!!

Moisture- mold

Natural Draft Furnace & Water heater

Hazardous Material-Asbestos

https://basc.pnnl.gov/information/pr - assessment-crawlspaces-and-basem

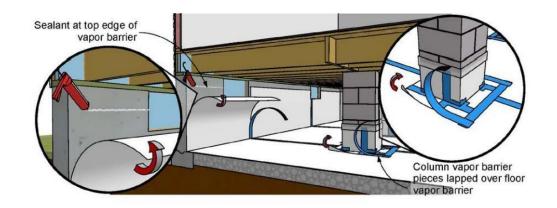


Figure 22. Apply poly vapor barrier, and lap and seal the seams

Please spend a few minutes working with your table mates answering the following questions?

-Please record on the sheets provided

Who in your community would benefit most from this information??

In your community work, what are your most effective ways to empower community members with information?

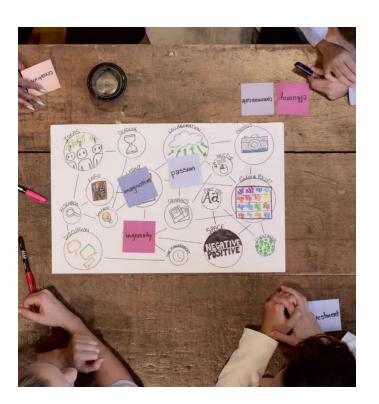


Please spend a few minutes working with your table mates answering the following questions?

-Please record on the sheets provided

Who in your community would benefit most from this information??

In your community work, what are your most effective ways to empower community members with information?



Mentimeter Question

When was the last time you used your fireplace

- Whenever cold weather is expected
- The last ice storm
- A romantic night at home
- Christmas morning in 19......



Credit: Omni Grove Park Inn

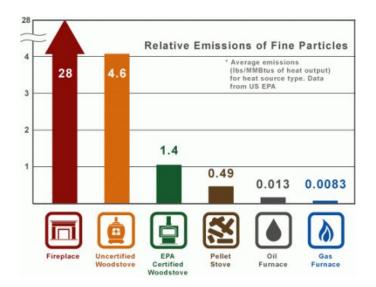
MYTH #4

Fireplace heat can substitute









Have a Fireplace That is Not Being Used? Closing the damper reduces room air escaping up the chimney to a degree but it is best to tightly seal the chimney. Use any rigid material such as insulation board and caulk to create a semi-permanent seal over the chimney opening. Another option is to use a specially designed product such as an inflatable air-pillow to seal the chimney. Remember to mark the hearth in some way to indicate it has been sealed to avoid accidentally attempting to start a fire without unsealing the chimney. It's a good idea to seal the top of the chimney liner as well. Size "lip" to opening of fireplace for snug fit Cut rigid foam board for cover to friction-fit Size cover fabric or on the sides and top, the bottom rests on wall paper to cover the hearth edge for finished look

Mentimeter Question

Is your HVAC fan set to AUTO or ON

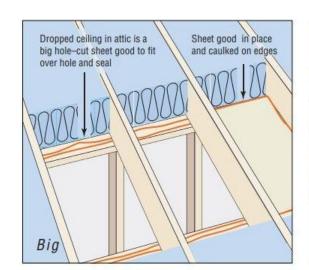


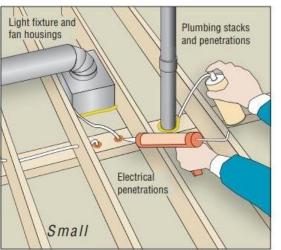


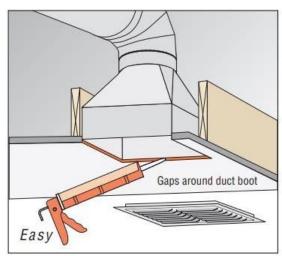
MYTH #5

More insulation is better



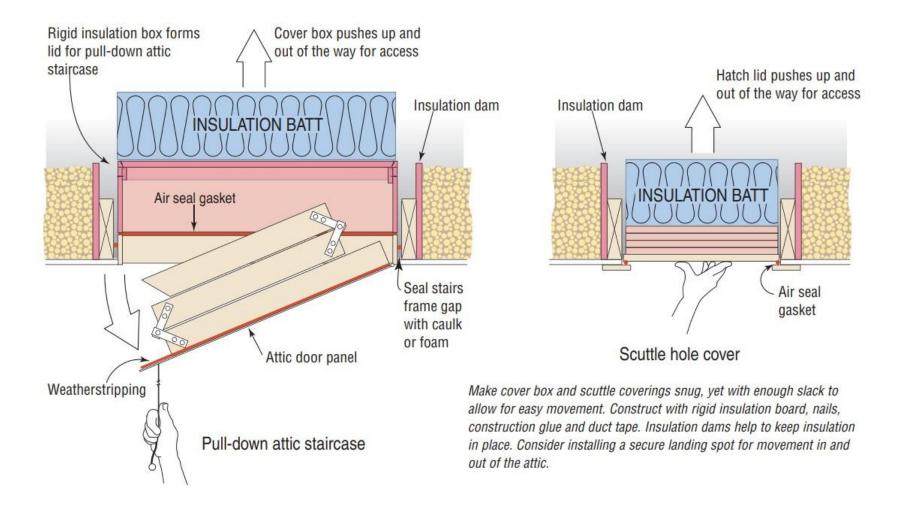


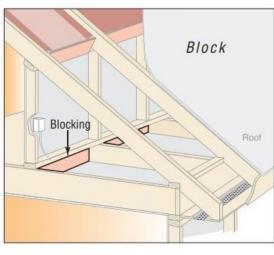


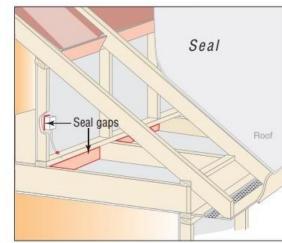


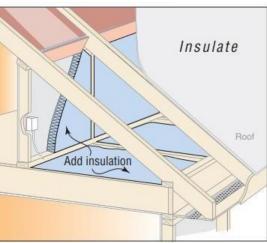
One rule is that if you are in the attic and can see the back side of an interior wall, you should seal and insulate over that chase. Some penetrations, such as duct boots, can be sealed from the living space side.













Mentimeter Question

Doe you leave your ceiling fans on to keep the hot air from rising? Ye

S

No

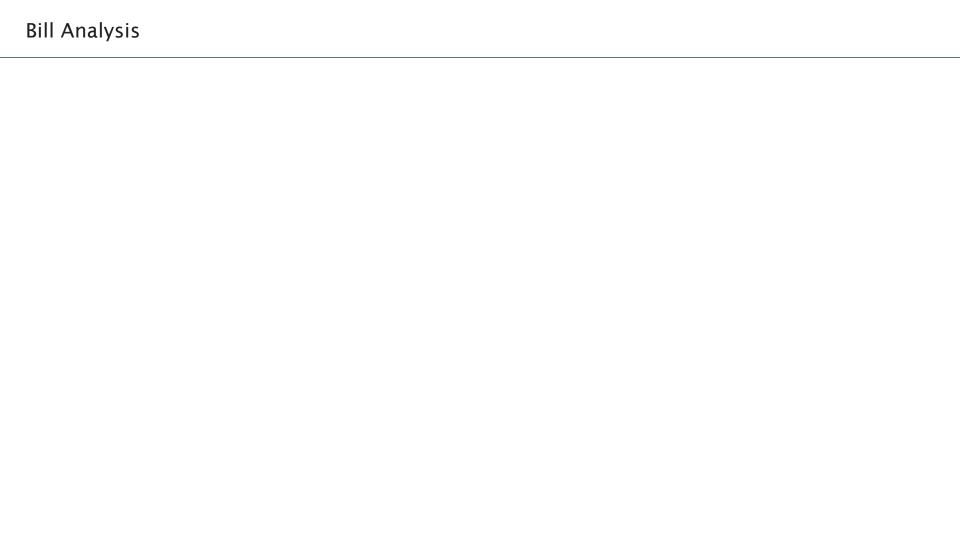


Table Question

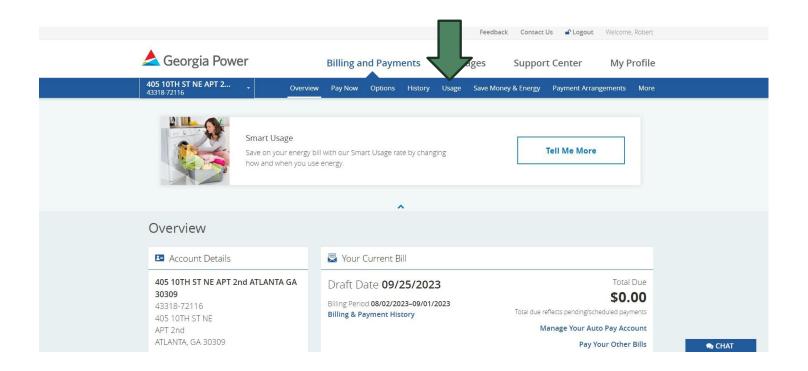
Top 5 energy users in your home?

If you knew you were spending ___ per year on an energy hog how much would you spend to upgrade for a 75% savings?

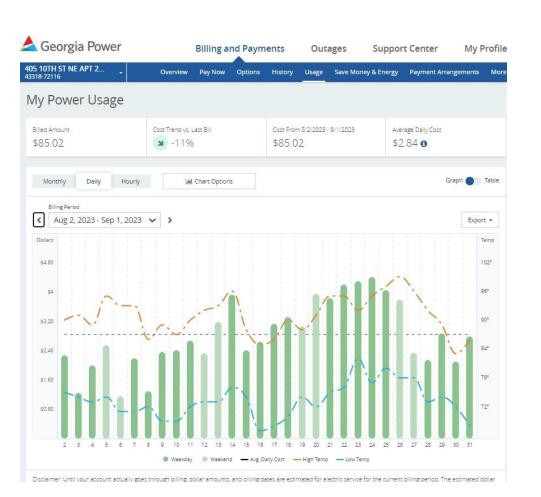
- \$50
- \$120
- \$1000

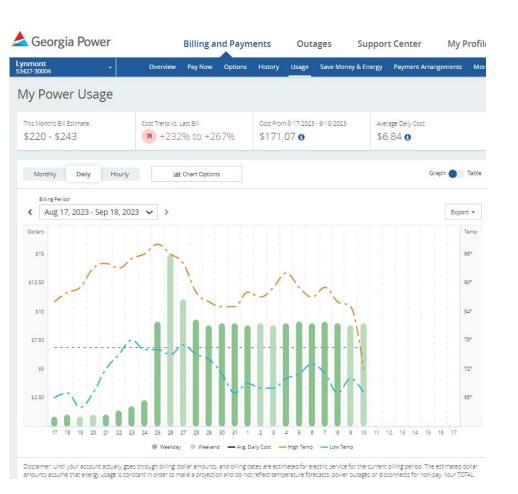


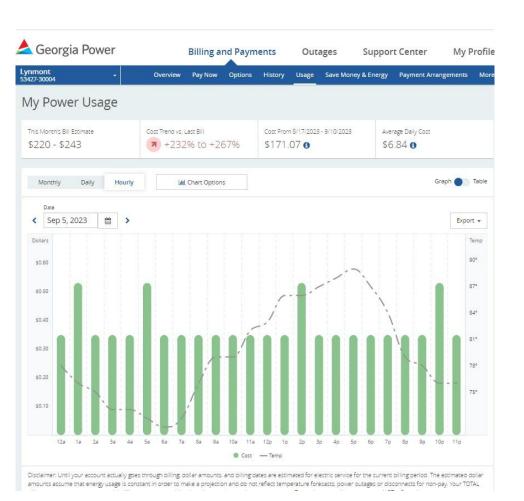
Bill Analysis









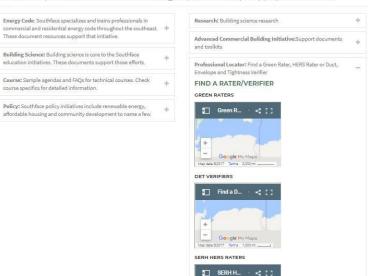


Who can help



RESOURCES

Southface authors and collects many technical documents about green building techniques, best practices in design and the use of appropriate technology. The resources found here are accessible through many of the program and service pages elsewhere on the site, but have all been compiled here. Use this tool for information on energy code, national standards, white papers, fact sheets and more.





Thank you!

Sign up for our newsletter
Register for events
Register for trainings
Become a member
Give to our mission

Visit Southface.org





Questions?

DEKALB'S CLEAN ENERGY TRANSPORTATION TRANSITION PLAN Climate Champions

NOVEMBER 08, 2023

SESSION 2

178 SAMS ST, DECATUR GA
CLIMATE CHAMPION SESSION START @NOON
WORLD PLANNING DAY EVENTS @9AM OPEN



DEKALB'S CLEAN ENERGY TRANSPORTATION TRANSITION PLAN

CLIMATE CHAMPIONS

In this information session for the Climate Community Champions Cohort we will be evaluating energy improvement projects, DIY techniques for air and duct sealing, in field techniques for evaluating energy bypasses, envelope efficacy, and ventilation safety. Included within this information session we will have training manuals and reference guides and even show you how to do it!



NOVEMBER 08, 2023 SESSION 2

178 SAMS ST, DECATUR GA
CLIMATE CHAMPION SESSION START @NOON
WORLD PLANNING DAY EVENTS @9AM OPEN



Project tasks

- Recommendations on addressing DeKalb's Clean Energy Goals
- 2. Recommendations on Energy Efficient methods to meet the County's Energy Needs

How to transition to clean energy



Educate community & stakeholders



Collaborate with residents, businesses, & institutions



Set goals and track progress



For the solution of the sources for the sources for the solution of the soluti



Reduce energy use through efficiency upgrades



Reduce reliance on fossil fuels



The partners









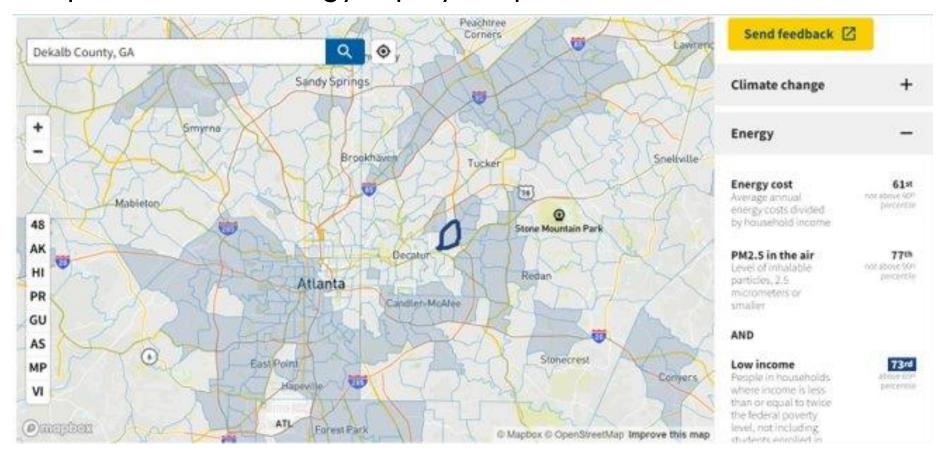






4. Recommendations on Increasing Equity and addressing energy burden within the County

Development of an energy equity map





4. Recommendations on Increasing Equity and addressing energy burden within the County

Community Climate Champions





5. Public Stakeholder Inclusion for an Open, Inclusive, and Transparent Planning Process

- Creation of a website: www.cleanenergydekalb.com
- Survey





AIR SEALING IN EXISTING HOMES

A very brief introduction



TYPICAL FEATURES AND ISSUES OF OLDER HOMES

- Unsealed attics and crawl spaces
- Minimal insulation
- Leaky, outdated windows and doors
- Inefficient heating & cooling systems
- Poor Water Management
- Mold & Mildew
- Outdated electrical
- Poor indoor air quality
- Asbestos & Lead





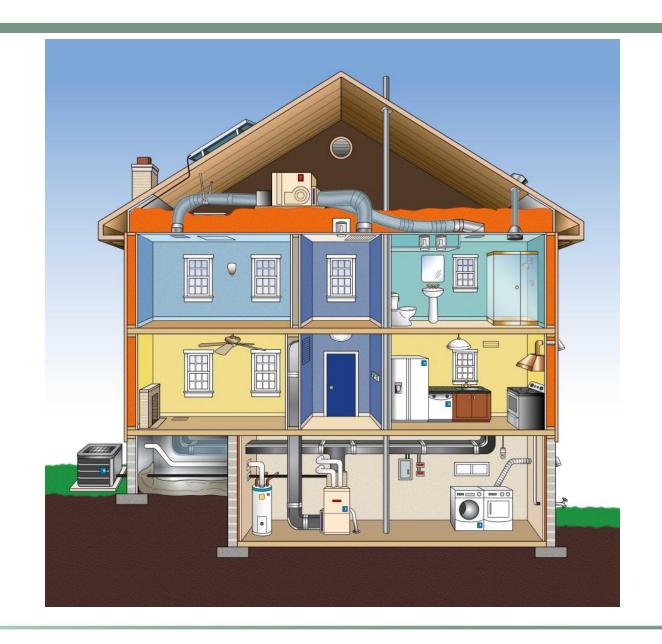


FIRST, A LITTLE BUILDING SCIENCE

Houses are systems

What impacts how they use energy?

- Air sealing and insulation (called the Building Envelope)
- Heating, Air Conditioning, and Ventilation (HVAC) systems
- Water heating and piping
- Lighting and appliances





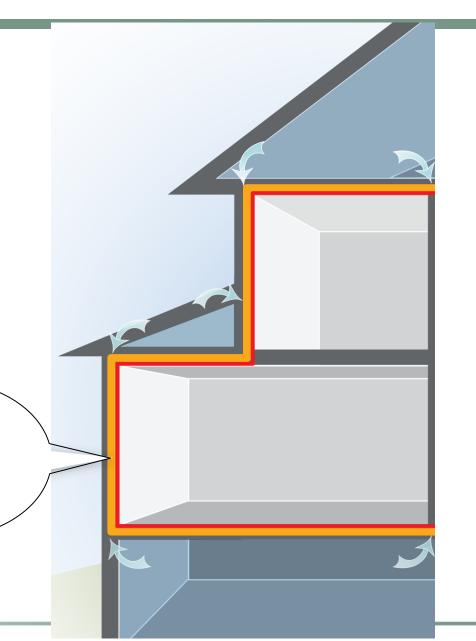
WHAT IS A BUILDING ENVELOPE?

A two-part system:

 Air sealing (including at the ceiling, around windows/doors, and penetrations through the floors)

• Insulation in the attic, exterior walls, and the floor.

Building envelope





WE CAN MEASURE AIR LEAKAGE





Air leakage in buildings can be measured using a tool called a Blower Door. Blower Doors allow us to identify where leakage areas are, and to quantify the amount of air leakage and its impact on energy efficiency.

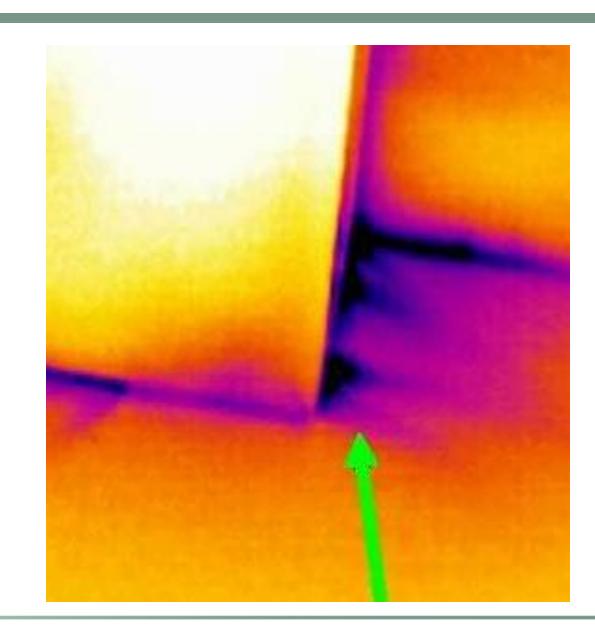
HOW DOES AIR MOVE THROUGH BUILDINGS?

Air moves from areas of high pressure to low pressure through natural air movement or mechanical systems that are installed in homes

Differences in temperature between the indoors and outdoors results air movement via stack effect

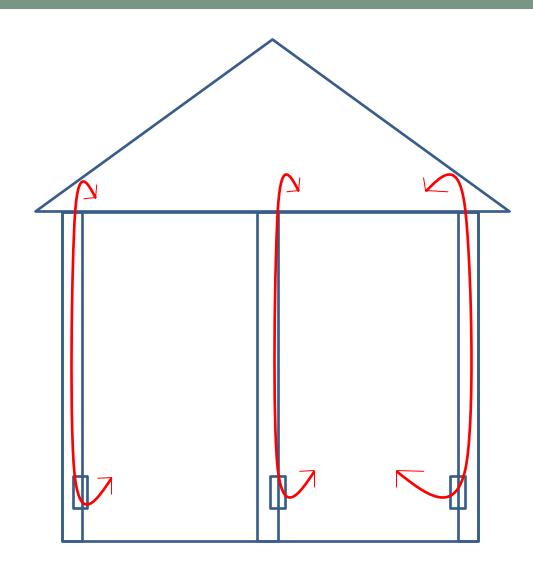
Bath fans, kitchen range hoods, and dryers intentionally remove air from homes

HVAC equipment can create positive or negative pressures based on its ductwork





AIR SEALING: WHY?





Penetrations larger than 1/8" add up to significant holes in a building envelope, leading to loss of conditioned air to unconditioned spaces



IMPACTS OF AIR LEAKAGE

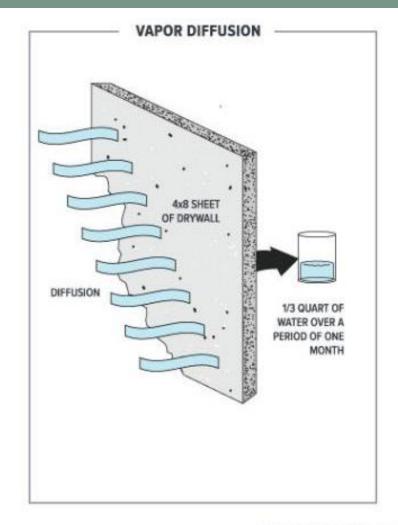
- Outdoor air contaminants (pollen, air pollution, etc.)
 brought indoors that negatively impact health
- Low comfort due to impact hot/cold outdoor air brought indoors during summer/winter months
- Low comfort due to high humidity in the summer, low humidity in the winter
- Increased energy bills because systems must work harder to cool/heat outdoor air

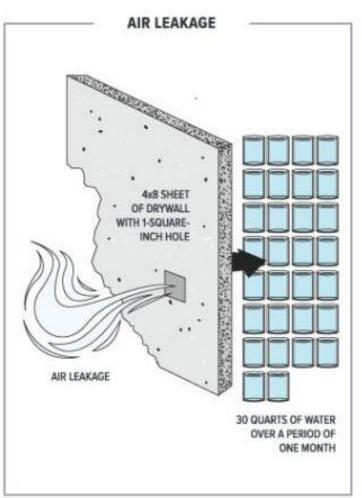


AIR LEAKAGE = WATER INFILTRATION

Another reason to limit air flow in a home is to reduce moisture intrusion.

Even a small hole can allow a large amount of water vapor (humidity) into the building.





VAPOR DIFFUSION VS. AIR LEAKAGE

INTERIOR TEMPERATURE = 70° F RELATIVE HUMIDITY = 40%





HOW DOES HEAT MOVE THROUGH A BUILDING?

Heat always moves from warm to cold areas through air movement, materials that are in contact with each other and from hot surfaces in close proximity to cooler surfaces

Insulation slows heat movement when exterior temperatures and surfaces are colder than the building interior, and vice versa.



IMPACTS OF POOR INSULATION

- Low comfort due to impact hot/cold surfaces during summer/winter
- Increased energy bills because systems must work harder to cool/heat uninsulated surfaces
- Condensation at uninsulated areas, especially in attics

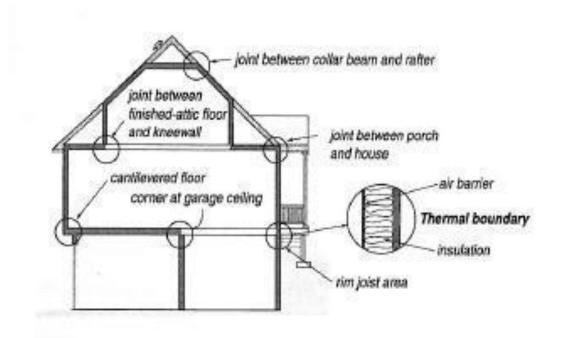


AIR SEALING AND INSULATION

- Air Sealing and Insulation work together to create indoor spaces that are comfortable and efficient
 - A house needs both. They are usually separate products, but some materials can be used to air seal and insulate.
- They need to be in contact with each other.
 - Where there are gaps, there are opportunities for heat transfer and/or air movement.
- They need to fill the space.
 - You don't get full credit for only partial coverage.
 - Insulation needs to be "fluffy", or not compressed



BUILDING ENVELOPE "CRITICAL JUNCTURES"



"Critical junctures" occur whenever two planes of building envelope intersect with each other:

- Exterior corners, openings
- Roofline-wall connections
- Cantilevers
- Rim joists
- Garage walls and/or ceilings
- Attic knee walls
- Dormers



HOUSE AS A SYSTEM APPROACH

Health, comfort and efficiency are all impacted by:

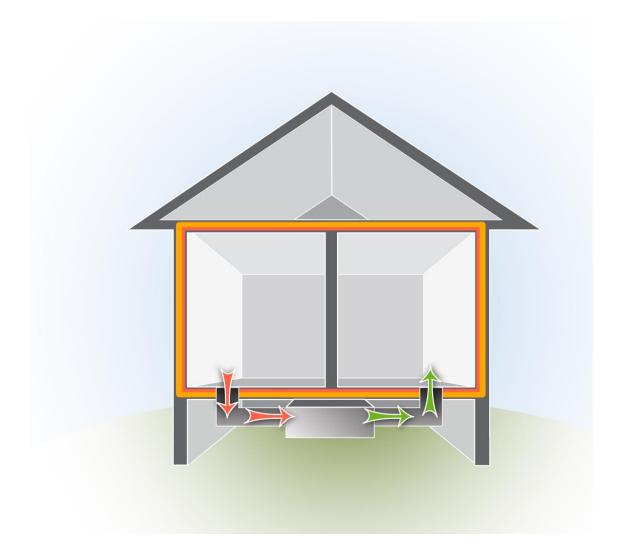
Building envelope

Moisture management

Controlled ventilation

Proper heating and cooling systems

Efficient appliances



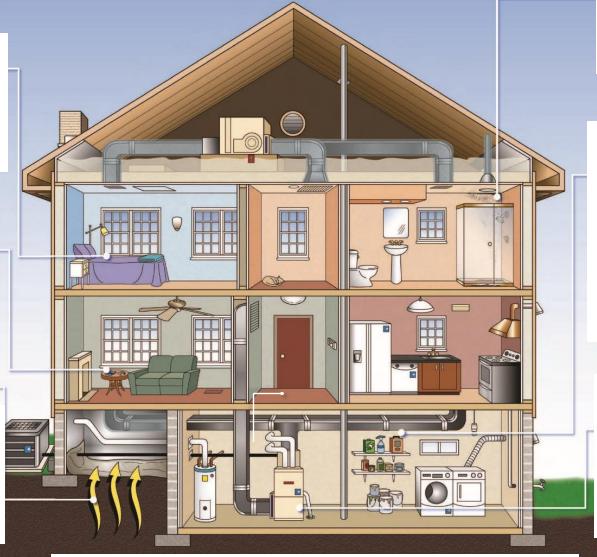


INDOOR AIR QUALITY

Living space finishes, such as flooring, cabinets and countertops, free of VOCs and formaldehyde

Fireplaces should be sealed combustion, with proper occupant education

Homes located in EPA Radon Zone 1 are built with radon mitigation systems in place



Outdoor air ventilation system to dilute indoor pollutants while treating outdoor air humidity and particles

Exhaust fans remove moisture from bathrooms, kitchens

Homeowner education to separate harmful chemicals and products from the living space air

Safe combustion appliance location and venting plus CO alarms

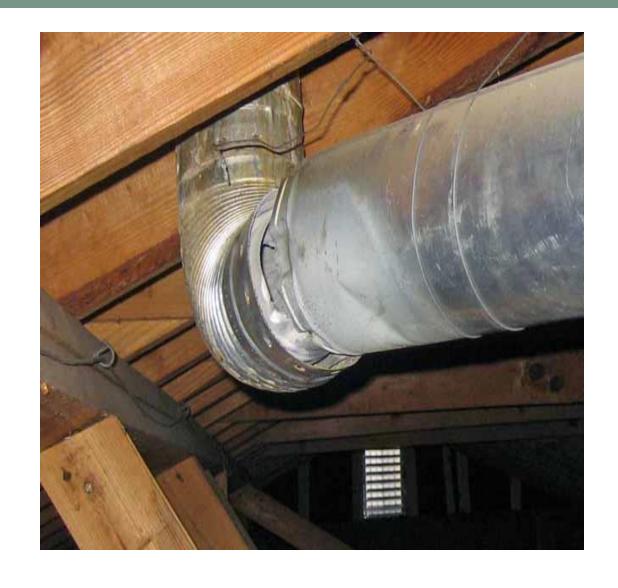


GAS APPLIANCES: SAFETY



Gas appliances have vents that remove dangerous combustion products from the home

A visual inspection for rust, disconnects, or holes helps keep the equipment safe





TOOLS FOR ATTIC AIR SEALING

- 1. Urethane foam (spray foam)
 - Example: Great Stuff
- 2. Foam board
 - 1/2" thick boards work for most projects
- 3. Sheet metal/aluminum flashing
- 4. Mastic and gloves
 - Master Flow water-based mastic
- 5. High-temperature caulk
 - 3M Fire Barrier Sealant (red)
- 6. Utility flags
- 7. Insulation rulers
- 8. Tin snips (to cut aluminum flashing)
- 9. Stapler
- 10. Weatherstripping
- 11. Zip ties and zip tie tightening tool
- 12. Utility knife





COMMON AIR LEAKAGE LOCATIONS

- Chases framing around fireplaces, ductwork, flues, etc.
- Top plates top of framing for walls that are accessible in attics
- Electrical & wiring penetrations that are accessible in attics and basement/crawlspace
- Plumbing penetrations that are accessible in attics and basement/crawlspace
- Knee walls (walls in some finished attic spaces)
- Attic stairs and scuttle holes
- Recessed can lights
- Exhaust fans
- Dropped soffits often found in closets and above kitchen cabinets



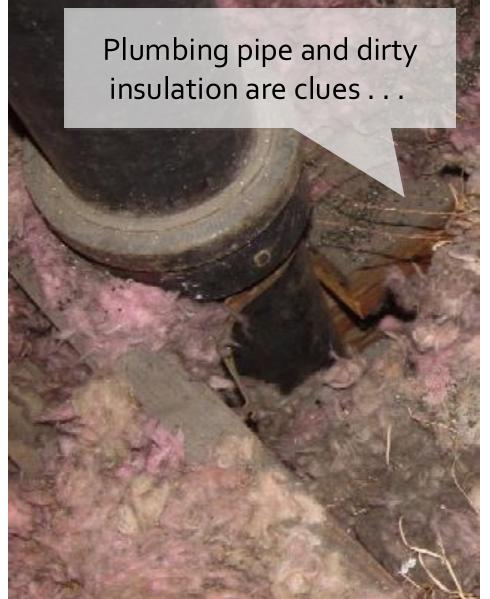
LOOKING FOR AIR LEAKAGE IN ATTICS

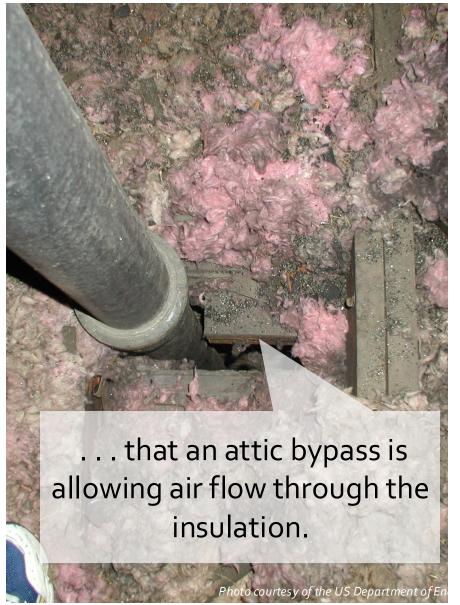
Dirty insulation shows air leakage!

Spider webs are useful for finding air leakage too



LOOKING FOR LEAKS IN AN ATTIC

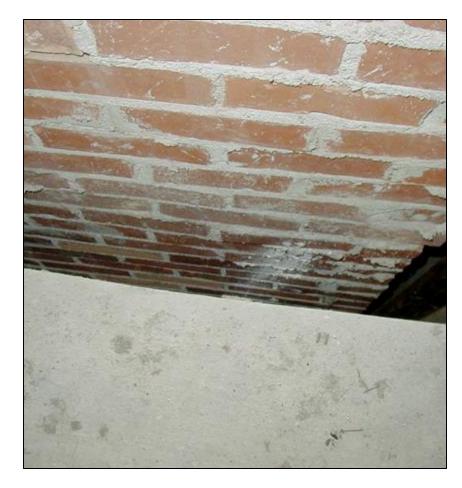




EXAMPLES OF AIR MOVEMENT - CHASES



Insulation has been stuffed into the gap in framing between HVAC ductwork and the ceiling framing



Gaps are left between fireplaces and ceiling framing



EXAMPLES OF AIR MOVEMENT - CHASES

Chases are intentional wall cavities for utilities such as plumbing, ductwork, and/or combustion vents



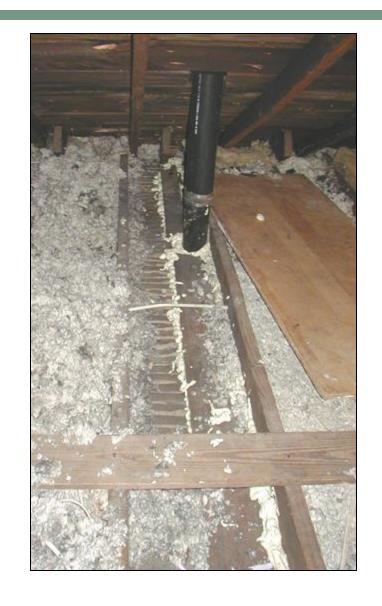




SEALING CHASES & PENETRATIONS



Non-heat sources (plumbing, HVAC ducts) can be sealed with spray foam, caulk, and/or foam board





SEALING CHASES: GAS APPLIANCES/HEAT SOURCES

Chases around flues and other heat sources must be capped and sealed with fire-safe materials such as aluminum or galvanized sheet metal flashing, cement board and fire caulk





AIR SEALING HEAT SOURCES



Heat sources include fireplaces, gas water heater vents and gas furnace vents



SEALING ATTIC PENETRATIONS









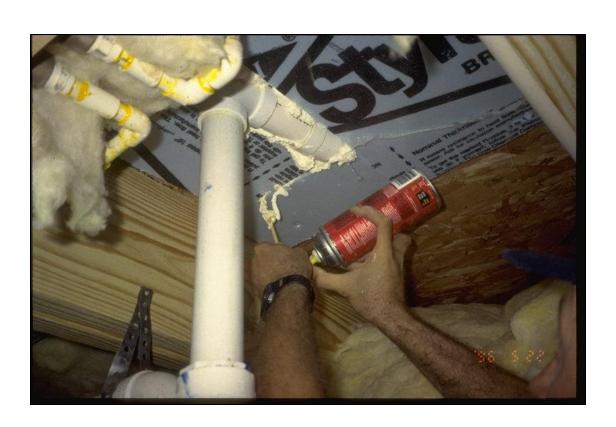
Brush back insulation to clean the surface and fully expose the air leakage location before sealing with spray foam or caulk.



PENETRATIONS CAN ALSO BE FOUND IN THE FLOORS

Before After







AIR SEALING TOP PLATES



- Top plate to drywall (interior wall cavities often connect to attic)
- Wherever there are interior walls, there are top plates in the attic that can be air sealed!



ATTIC KNEE WALLS

Knee walls are walls that separate conditioned space from attic spaces

They can often look like this:

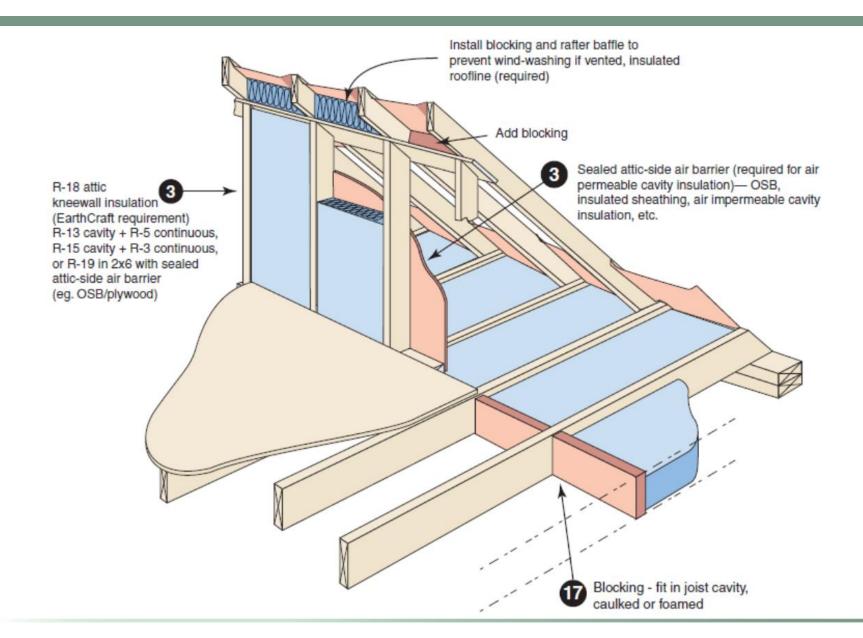


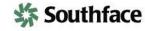


But they should be sealed and insulated from the attic side of the wall



ATTIC KNEE WALL DETAILS





AIR SEALING ATTIC ACCESS

Use weather-stripping & caulk and add insulation



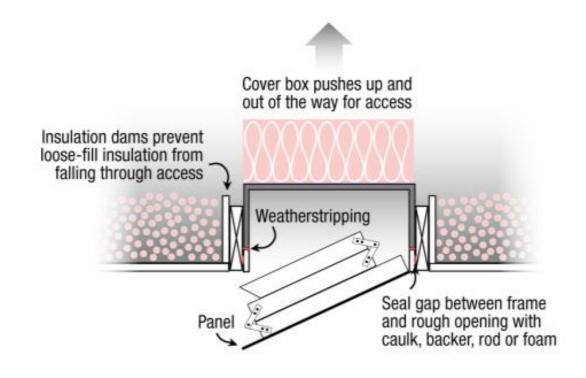


DIFFERENT WAYS TO AIR SEAL AND INSULATE ATTIC ACCESS

Scuttle Hole Cover

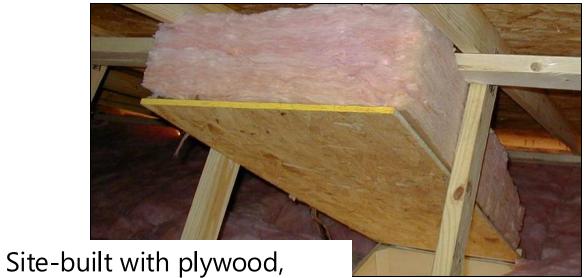
Insulation dams prevent loose-fill insulation from falling through access Air seal gasket between trim and panel Hatch lid pushes up and out of the way for access

Pull-Down Attic Stairs





DIY ATTIC ACCESS OPTIONS



Site-built with foam board

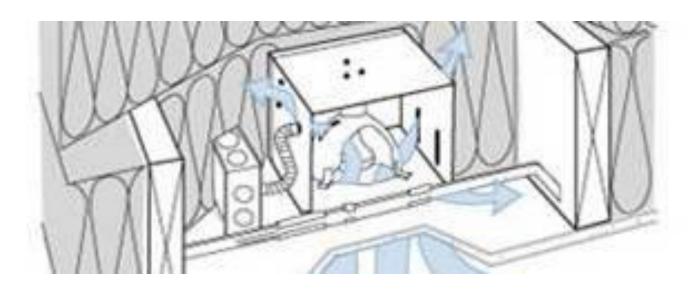
Site-built with plywood hinges and R-38 batt



Attic Tent



CAN LIGHTS CAN BE BIG LEAKS

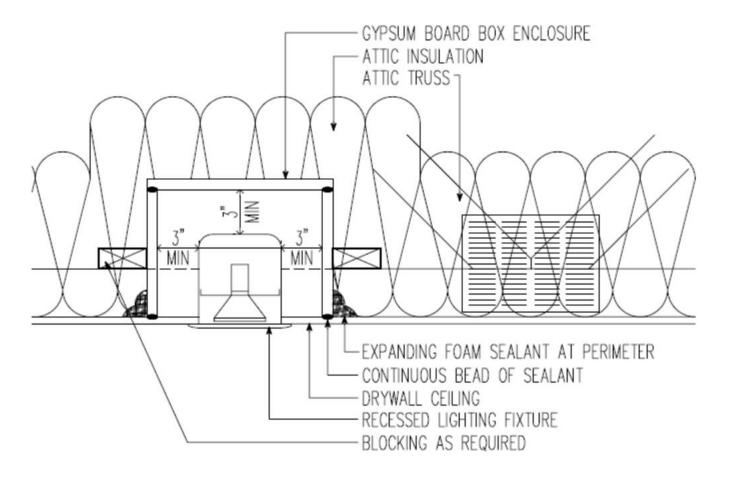




Even when covered with insulation recessed lights pump conditioned air out of the house.

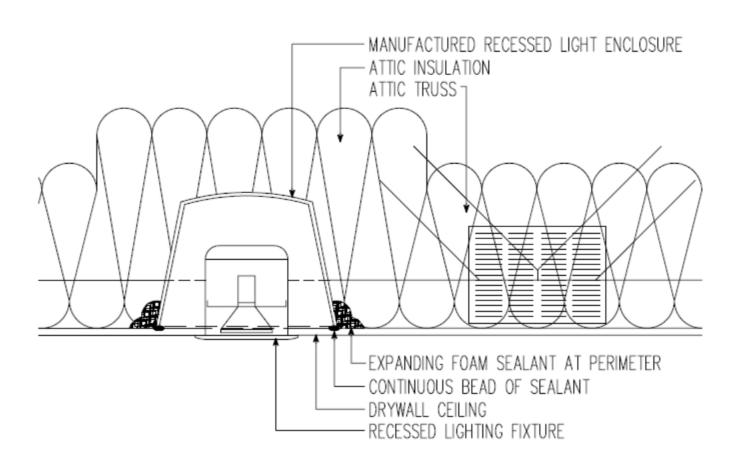
CAN LIGHT SOLUTIONS







CAN LIGHT SOLUTIONS





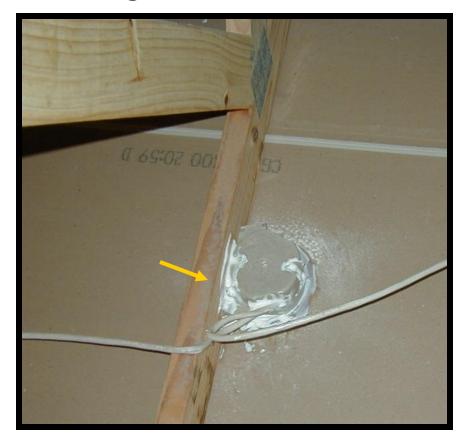


AIR SEALING ELECTRICAL PENETRATIONS

HVAC, plumbing and electrical penetrations can be found in the attic – wherever there is a ceiling light or fan, there is a penetration

Make sure electrical wiring is safely installed before working around it







AIR SEALING TO DRYWALL

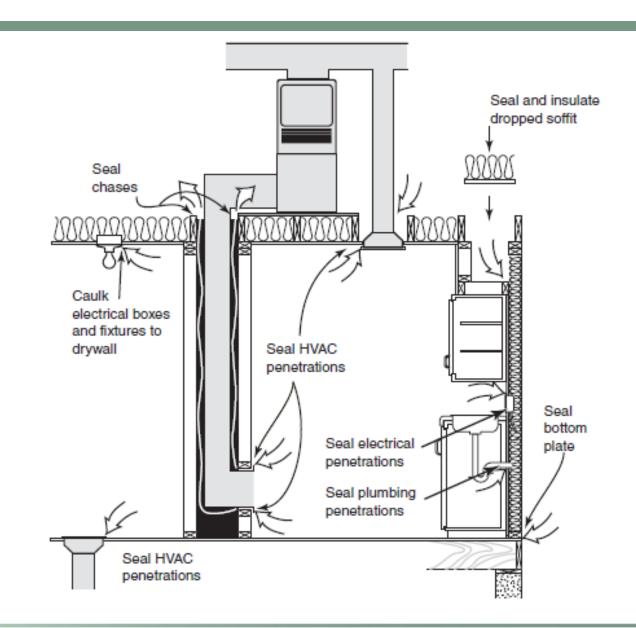




Sometimes penetrations are not easily accessible; remove covers and air seal to the drywall in these cases.

AIR SEAL HVAC SYSTEMS

- Use mastic to air seal seams at the HVAC unit
- Remove register covers and caulk boots to ceiling and/or floor
- Cap chases in ceilings



DUCTWORK AIR SEALING GUIDE

- 1. Apply mastic on collar to plenum connection
- 2. Apply mastic on sheet metal seam/connection
- 3. Slide liner over connection and install compression strap (zip tie)
- 4. Mastic over liner & zip tie (about 1" on either side of liner edge
- 5. Pull insulation over connection and zip tie



DROPPED SOFFIT FROM THE LIVING SPACE



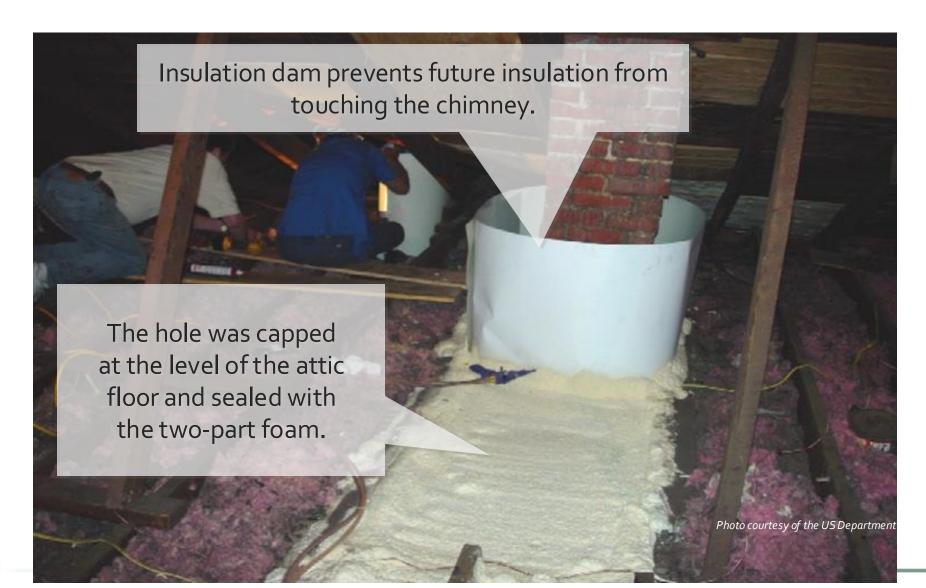


DROPPED SOFFIT FROM THE ATTIC





SEAL, DAM, AND INSULATE





FIRST AIR SEAL, THEN INSULATE





SUMMARY

- Air sealing a home provides benefits to energy efficiency, indoor comfort, and air quality
- Plumbing, electrical and HVAC penetrations may be identified in the living space before going into the attic
- Where there are interior walls there are top plates
- Use appropriate materials for air sealing (heat sources require heat-safe materials)



RESOURCES

- www.Southface.org
 - https://www.southface.org/insights/building-science-webinars/
 - http://www.earthcraft.org/
- www.energystar.gov
- www.epa.gov/watersense
- www.epa.gov/indoorairplus
- www.GREENGUARD.org
- www.georgiapower.com/rebates
- •https://www.georgiapowermarketplace.com/



DEKALB'S CLEAN ENERGY PLAN



COMMUNITY EVENT #3

Feburary 6th 6:30 - 8:00 p.m.



Demystify Your Energy Bill and Discover Ways To Lower It!











Exchange Recreation Center 2771 Columbia Drive, Decatur, GA 30034 https://cleanenergydekalb.com





Demystify Your Energy Bill & Discover Ways to Lower It!

Agenda

- Welcome & Housekeeping
- Introductions & Icebreakers How Have You Been Engaged with Your Neighbors So Far?
- Energy Bill Review Understanding Your Bill and How to Lower it
- Next Steps New Ways to Engage with Your Neighbors About Energy



Welcome & Housekeeping



About IB Environmental

CORE COMPETENCIES





- •Work with local utilities and their partners to develop and improve customer assistance programs (CAPs)
- Design CAPs that ensure water/energy services are well-funded but also accessible to low-income customers
- Work on policies related to affordability at the state and national levels

About IB Environmental

CORE COMPETENCIES





- Facilitate activities of different funding sources in Georgia 104
- •Help nonprofit groups and local governments fill gaps in resources to create winning funding applications
- •Convene and facilitate workshops and quarterly meetings to connect funding programs and applicants



The partners

















Project tasks

- Recommendations on addressing DeKalb's Clean Energy Goals
- 2. Recommendations on Energy Efficient methods to meet the County's Energy Needs

How to transition to clean energy



Educate community & stakeholders



Collaborate with residents, businesses, & institutions



Set goals and track progress



Invest in solar energy & other renewable sources



Reduce energy use through efficiency upgrades



Reduce reliance on fossil fuels



4. Recommendations on Increasing Equity and addressing energy burden within the County

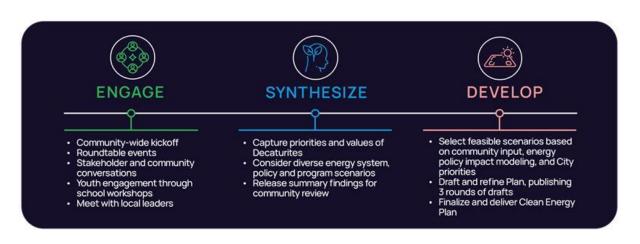
Development of an energy equity map





5. Public Stakeholder Inclusion for an Open, Inclusive, and Transparent Planning Process

- Creation of a website: www.cleanenergydekalb.com
- Monthly meetings
- Weekly working groups





5. Public Stakeholder Inclusion for an Open, Inclusive, and Transparent Planning Process

- Session 1 Defeating Myths about energy
- Session 2 DIY Energy Efficiency
- Session 3 Community Engagement
- Session 4 Early March State Regulatory Framework
- Potential Session 5- Engagement Plan



Introductions and Icebreakers

How Have You Been Engaged with Your Neighbors So Far?



IB Environmental

111

Icebreaker

Ways you have shared valuable info with your community in the past





Source: Community Image



Energy Bill Review

Understanding your Bill and How to Lower it!



The Georgia Public Service Commission

Regulates:

- Electricity
- Gas
- Telecommunications

Does NOT regulate:

- Butane gas
- Cable television
- Cellular telephones
- Long-distance telephone service
- Propane gas
- Sewer services
- Water services
- Interstate transportation



Which Utility is your Bill from?

- Walton EMC
- SCANA Energy
- Georgia Power
- Snapping Shoals EMC
- Other?



Key Components of Energy Bills

Understanding your Bill and How to Lower it!



Fixed Charge vs Usage Charges

- Fixed Charge (Sometimes called basic or base charge etc.)
 - The customer has very little control over this portion of their bill
 - The customer pays this charge even if they used no energy
- Usage Charge (Sometimes called variable or volumetric charge)
 - O Usually based on the amount of energy used
 - Using less energy usually lowers this portion of the bill



Riders

A variety of mandatory and voluntary charges in addition to service charges, on customers' bills

Examples with Georgia Power:

- Fuel Cost Rider
- Demand Side Management Residential Rider
- Environmental Compliance Cost Recovery Rider
- Nuclear Construction Cost Recovery Rider



https://pscasa.gov/utilities/electric/georgia-power-bill-calculator/

Walton EMC

- Rate Plan
- Gas Consumption
- AGL Base Charge

- Taxes
- Walton's Customer Service Charge





Phone 770-963-0305



 Previous Balance
 98.42

 Payment(s)
 -98.42

 Balance Forward
 0.00

 Current Charges
 137.63

 Total Amount Due
 137.63

Due Date

02/02/16

Amount Due

To Report a Power Outage call (770)267-2505

To Report a Gas Leak Emergency call (770) 907-4231 or Toll Free 1-877-427-4321 Thank you for your business.

02 1		 		-
97				
65	- 11	 	-	
20	ш			-
-				

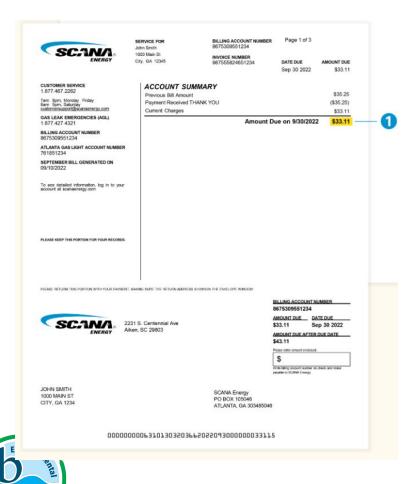
	24 Bills Res Fixed Fixed	
IER CCF THERMS	AMOUNT	
42 43	22.75	
	28.70	
	5.75	
	3,43	
	60.63	
	43.42	
	-43.42	
	60.63	
7		

Statement Date

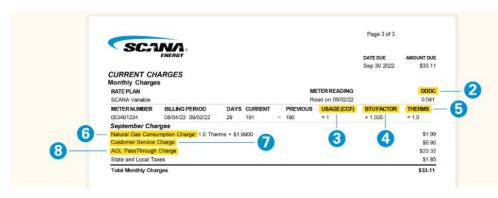
01/12/16

Breaking Down Your Gas Bill (waltongas.com)





SCANA Energy



<u>Understanding My Bill</u>
<u>SCANA Energy Natural Gas</u>

Georgia Power - Different Residential Rate Plans



Smart Usage

Save on your electricity costs by choosing how and when to use your energy.



FlatBill®

Manage your budget with a 12-month, fixed bill that doesn't fluctuate.



Plug-In EV

Electric vehicle owner? Save money by charging your vehicle overnight.



PrePay

Control when and how much you pay by prepaying for your electric service.



Residential Service

Our traditional rate plan with prices that vary throughout the year.



Nights & Weekends

Small changes in when you use energy during the summer can bring savings.



Pay by Day

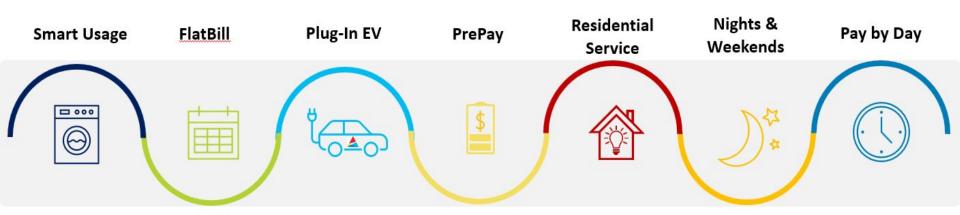
The Pay by Day rate plan combines the convenience of PrePay with the certainty of a fixed daily price.





Rate Plan Options

Georgia Power offers 7 rate options to meet our customers energy needs



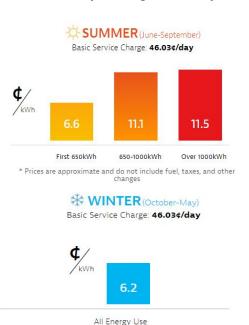


Residential Rate and FlatBill



Residential / Seasonal Rate

• Our traditional rate plan with prices that vary throughout the year.

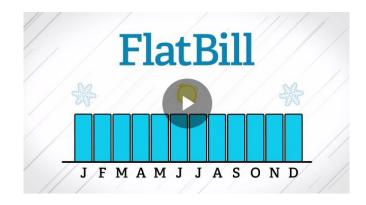


^{*} Prices are approximate and do not include fuel, taxes, and other changes



FlatBill Rate

 Manage your budget with a 12-month, fixed bill that doesn't fluctuate.





Programs, Products & Services

Georgia Power offers 7 rate options to meet our customers energy needs: PEV, Residential, PrePay, Pay-by-Day, Smart Usage, Flat Bill, Nights & Weekends



Customers 65 years of age and over who meet the annual income requirements of \$30,120 or less can receive up to \$33.50 a month off their utility bill each month.(\$402 annually)

- · 65 years or older
- Income \$30,120 or less
- · Primary Account holder







Low-Income Home Energy Assistance Program (LIHEAP) Available every year from December to April and May through July from the Division of Family & Children Services, this program helps income-eligible households pay for heating and cooling costs. Eligible customers can receive \$400 or \$500 depending on their age and income.







Project SHARE: Established in partnership with The Salvation Army, customers can provide assistance to residents in the same community for expenses such as utility bills, housing, food and medical necessities.







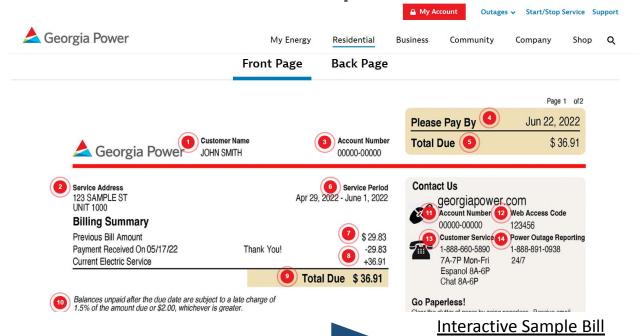
Healthy Home

Income-qualified Georgia Power customers may be eligible for free home energy efficiency improvements through our Energy Assistance for Savings and Efficiency Program.

Georgia Power

Traditional Residential Rate Plan Sample Bill

Interactive Sample Bill



IB Environmental

(georgianower.com)

Fixed Charges vs. Usage Charges

Traditional Residential Rate Plan Sample Bill

Billing Period Apr 29, 2022 - June 1, 2022		
Current Service 35		\$ 27.90
Environmental Compliance Cost 36		4.37
Nuclear Construction Cost Recovery 37		0.90
Municipal Franchise Fee 38		1.01
Sales Tax (39)		2.73
	40 Total Current Electric Service	\$ 36.91

Current Service fee =

Fixed Basic Service Charge + Variable Use Charges per kWh* (2)

*kWh = kilowatt-hour

https://www.georgiapower.com/residential/billing-and-rate-plans.html

Georgia Power Residential Bill Riders – on a Bill

Billing Period Apr 29, 2022 - June 1, 2022	
Current Service 35	\$ 27.90
Environmental Compliance Cost 36	4.37
Nuclear Construction Cost Recovery 37	0.90
Municipal Franchise Fee 38	1.01
Sales Tax 39	2.73

- Fees assessed to cover various costs such as environmental regulation and conservation expenses and/or to mitigate unforeseen expenses.
- In **Current Service fee** (#35): a. Fuel Cost Recovery & b. Demand Side Management Residential riders are included
- Line-item riders (#36-38): a. Environmental Compliance, b. Nuclear Construction, and c. Municipal Franchise Fee

Total Current Electric Service \$ 36.91

Tips on Reducing your Energy Bill



Energy Efficiency

See materials from Community Event 1

Customer Assistance Programs

- Low Income Home
 Energy Assistance Program (LIHEAP)
- Energy-Saving Education Programs by Utilities
- Weatherization Assistance Program (WAP)
- Partnership for Community <u>Action</u>, Inc. - access their utility assistance page directly here: <u>Energy</u> <u>Assistance Heating</u>

https://www.ibenvironmental.com/blog/2023/10/30/energy-assistan

<u>ce</u>:

WATER AFFORDABILITY STORMWATER & WATERSHED MANAGEMENT GEORGIA FUNDERS' FORUM CARIBBEAN ENVIRONMENTAL MANAGEMENT



FUNDERS' RESOURCES OUR TEAM
WAVES & WATTS - A FINANCE BLOG CONNECT

IOW-INCOME ENERGY ASSISTANCE PROGRAMS IN GEORGIA

By Stacey Isaac Berahzer and Alanna Kinnebrew



For many low-income families, utility bills can be a major financial burden. Many households have to decide whether their income will allow them to run a fan, run the air conditioning unit, or neither on a hot day. There are energy efficiency resources that can help a household, but affordability of utility bills remains a significant concern, especially in the southeastern United States. This post will highlight some of the existing assistance programs to address energy bills.

As shared in the previous blog post, Energy Burden and Its Drivers, many households in the Southeastern United States have high energy burdens. Fortunately, there are various ways households who are overburdened by energy costs can seek assistance. The programs fall into two main buckets: bill payment assistance programs, and energy efficiency programs. As part of the DeKalb Country's Energy Transition project team, this posts shares resources that Georgia residents can utilize when seeking assistance for energy costs.



IB Environmental

Next Steps

New Ways to Engage with Your Neighbors About Energy



IB Environmental

How Can you Engage with your Neighbors After this Training?

- Community Event 4 is coming up soon
- Stay tuned here: https://cleanenergydekalb.com/



Your Feedback



• CCC Cohort = Community Climate Champion Cohort



Stacey Isaac Berahzer



stacey@ibenvironmental.com



770.509.3887



@StaceyIB enviro



CONTACT

@IBenvironmental



<u>linkedin.com/company/ibenvironmental</u>



DeKalb's Clean Energy Plan

Community Event #4

Saturday, March 16th 3:00 to 5:00 pm Hairston Crossing Library

4911 Redan Rd, Stone Mountain, GA 30088

In partnership with DeKalb's Clean Energy Plan, join us at our 4th community event! This session will cover the regulatory framework behind Georgia's utilities. Discover how your utility is regulated and how it affects members of the community!

Scan QR Code and Register Now!















DeKalb's Clean Energy Plan Community Event #4

"Discover How Your Utility is Regulated"



Save The Date:

March 16th 3:00 pm - 5:00 pm



Hairston Crossing Library
4911 Redan Rd, Stone Mountain, GA 30088











Southface Institute

- Nonprofit delivering practical building and infrastructure solutions to environmental challenges since 1978
- **Eco-Office** with green roof in Atlanta
- New Southface Sarasota satellite location
- About 40 Southfacers who have 50+ professional certifications total
- Sustainable solutions that work for everyone



The partners



CLEAN CITIES

PARTNERSHIP FOR CLEAN TRANSPORTATION







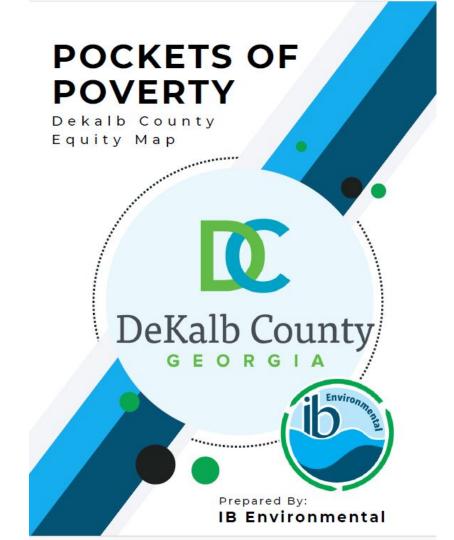






Southface

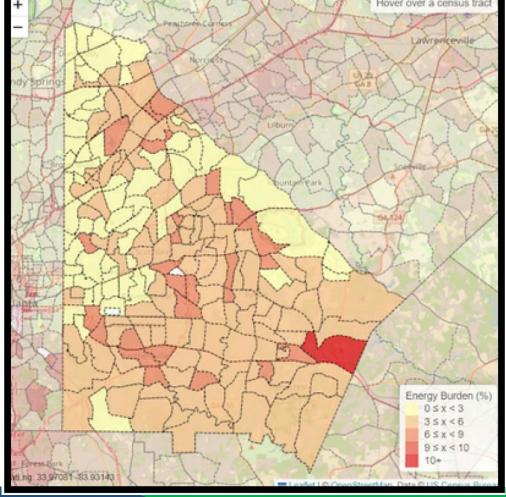
4. Recommendations on Increasing Equity and addressing energy burden within the County



Monthly Energy Burden (Electricity and Gas as a **Percent of Median Household Income**) for Different **Census Tracts in DeKalb County**

(Energy Burden- Assumed Bills are \$150 for electricity + \$80 for gas)



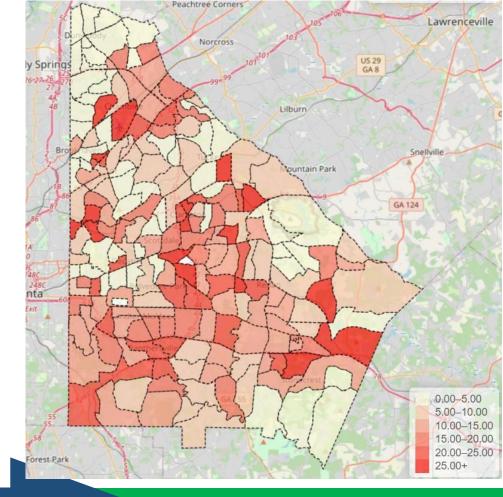


IB Environmental

Percent of Households Living Below the Poverty Level for Different Census Tracts in DeKalb County

(The darker the red, the higher percentage of households in the census tract are in poverty.)





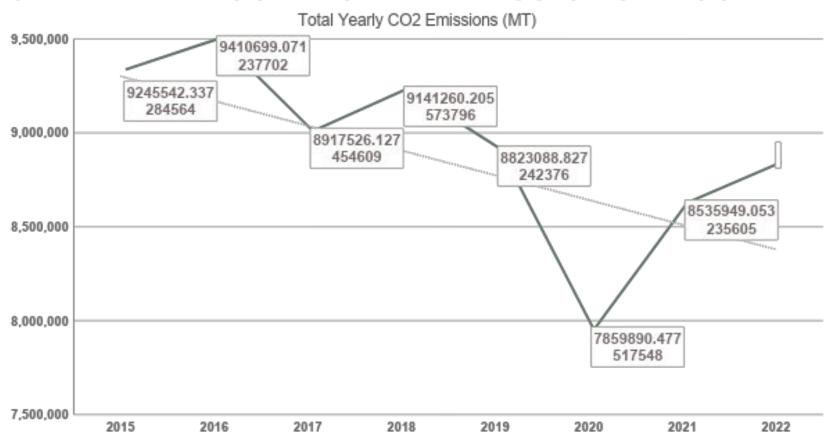
8. Development of Greenhouse Gas Inventory for County Govt facilities and fleet, and community county-wide



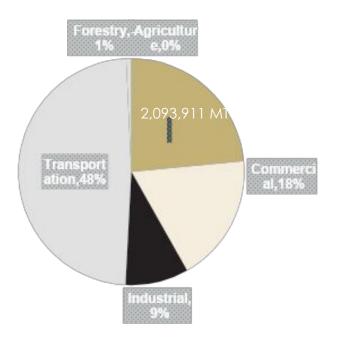




2022 DEKALB COMMUNITY EMISSIONS IN CONTEXT

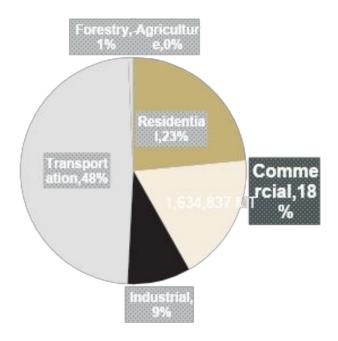


RESIDENTIAL SECTOR EMISSIONS



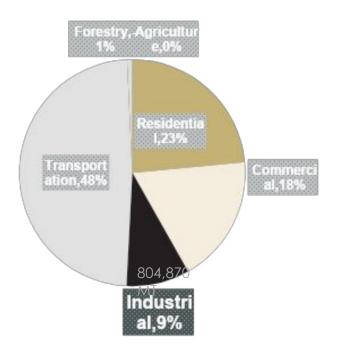


COMMERCIAL SECTOR EMISSIONS



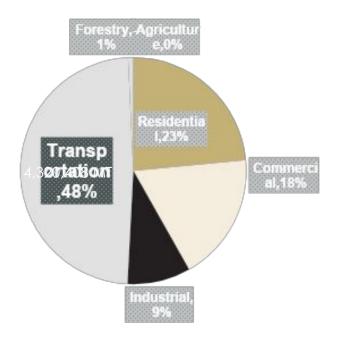


INDUSTRIAL SECTOR EMISSIONS



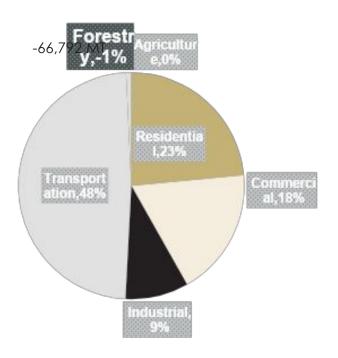


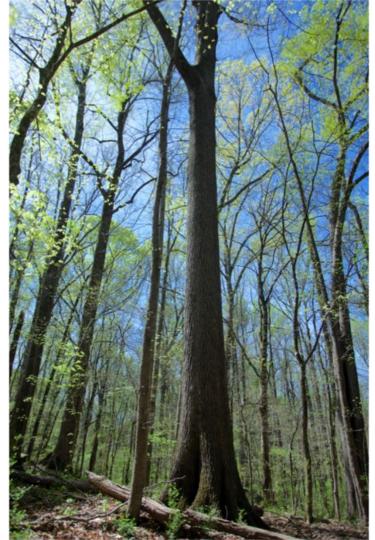
TRANSPORTATION SECTOR EMISSIONS



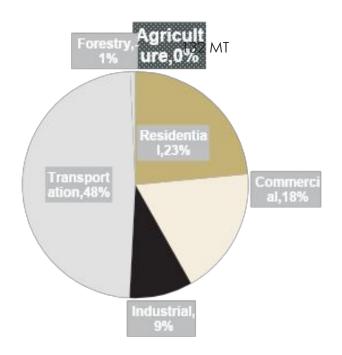


FORESTRY SECTOR EMISSIONS





AGRICULTURE SECTOR EMISSIONS



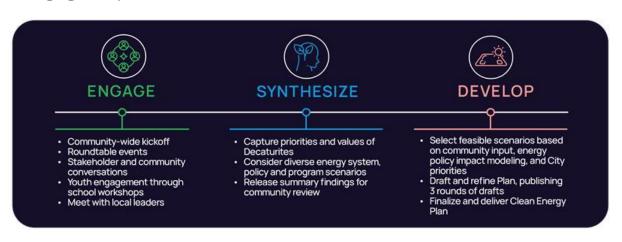


5. Public Stakeholder Inclusion for an Open, Inclusive, and Transparent Planning Process

Creation of a website: www.cleanenergydekalb.com

Monthly meetings

Weekly working groups





3. Analysis of DeKalb County's municipal solar potential





6. Assistance in Development of a Clean Electricity and Vehicle Procurement Strategy





Remaining

Project tasks

- Recommendations on addressing DeKalb's Clean Energy Goals
- Recommendations on Energy Efficient methods to meet the County's Energy Needs

How to transition to clean energy



Educate community & stakeholders



Collaborate with residents, businesses, & institutions



Set goals and track progress



Invest in solar energy & other renewable sources



Reduce energy use through efficiency upgrades



Reduce reliance on fossil fuels



7. Creation, education and engagement of a DeKalb Climate Task Force



















9. Development of clear benchmarks and milestones for the County during the transition to 100% clean and renewable energy and transportation

Develop ACES model

Create access to a comprehensive Equity Mapping Platform

Complete a correlational study of the underlying conditions of energy burden

Develop a simplified forecasting model

Project economic development and industry impacts



10. Development of a clear process whereby the County Commission will receive updates on progress and take steps to hit benchmarks





11. Deliver final draft transition plan report to the Chief Executive Officer & Board of Commissioners





Sessions

https://cleanenergydekalb.com/

Session 1: Mythbusting Energy Advice and Sales Pitches

Session 2: DIY Energy Improvements

Session 3: Community Energy Empowerment

TODAY: Regulatory Framework







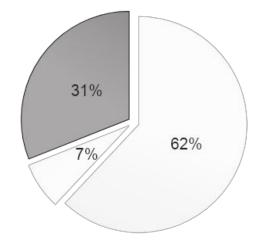


Engaging the Georgia Power Integrated Resource Plan

Retail Electric Utilities in Georgia

Retail Electricity Sales in GA by Utility Type - 2020

- Investor-owned 1
 - Georgia Power (GPC)
 - Savannah Electric merged with GPC in 2006
- Electric Membership Cooperative 41
 - 38 participate in Oglethorpe Power
- Electric Cities ("Munis") 51 cities and 1 county
 - 49 participate in MEAG



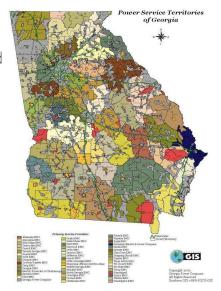
□Investor Owned □Municipal ■Cooperative

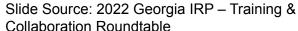
Slide Source: 2022 Georgia IRP – Training & Collaboration Roundtable



Electric Utility Service

- Georgia Territorial Electric Service Act of 1973
 - Assigns areas of state to a utility or declared it unassigned
 - Allows for some retail competition with Customer Choice exception
 - Offers opportunity to transfer from one electric supplier to another
 - Empowers the Georgia PSC to resolve territorial disputes







Energy Regulation by Utility Type

- Investor-owned Georgia Power
 - Fully regulated by Georgia PSC (rates, planning, etc.)
- Electric Membership Cooperative 41
 - Georgia PSC only oversees territorial disputes & transfers, loan applications, rate tariff filings
 - Other functions overseen by elected Boards of Directors
- Electric Cities ("Munis") 51 cities and 1 county
 - Georgia PSC same as for EMCs
 - Other functions overseen by elected City Council



Slide Source: 2022 Georgia IRP – Training &

Collaboration Roundtable

Georgia Public Service Comr

- 5 Commissioners with staggered 6-year terms
- Supported by about 75 staff members
- What Does the PSC Regulate?
 - Non-environmental aspects of investor-owned electricity, natural gas and telecommunication utilities
- Balancing Act
 - Protecting customer interests while ensuring financial health of utilities





The Commissioners (March, 2024)



Jason Shaw District 1



Tim Echols
District 2



Fitz Johnson
District 3



Lauren "Bubba" McDonald District 4



Tricia
Pridemore
District 5



What is Integrated Resource Planning (IRP)? (generally)

- IRP is a public process in which utility planners work together with interested parties and the public to identify and prepare energy options that serve the public interest.
- "Integrated" process
 - Supply and demand-side options
- State Authority
 - State utility commission
- Key Elements
 - Scope, options, scenarios, plan selection, EM&V, adjustments





Georgia Power 2022 IRP: Training & Education Plans

Southface Partners:





Background:

- Filed every 3 years, 20-year plan.
- Outlines how Georgia Power, the state's largest utility, will direct ratepayer-funded energy efficiency, generation, transmission, and distribution investments
- Broad impact: infrastructure, energy equity, environment, and economic development.
- Public stakeholders can direct investment decisions.
- Goals: Prepare newcomers and veterans alike to effectively engage in 2022 IRP, and increase agency in underserved communities to address energy burden and equity issues.
- Action: Six-part training and roundtable discussion series
- Learn more & register at: www.Southface.org



IRP Process



Utility Filing



Request



Testimony Pre-Filings



Three Sets of Hearings



Final Briefs



Stipulation Negotiations



dvisory Staff Rec



Final Decision

Slide Source: 2022 Georgia IRP – Training & Collaboration Roundtable



Expert Witnesses and Testimony

- Quasi-Judicial Process
 - Hearing "feels" like court proceeding
 - Expert witnesses sworn in and cross examined
- Company Witnesses
 - GPC and SoCo Directors of Resource / System / Market Planning
 - GPC and SoCo Environmental Staff
- Staff Witnesses
 - Staff & supporting experts to focus on most / all key elements
- Intervenor Witnesses
 - Range of intervenors, range of topics
 - Fairly heavy on renewables and DSM issues

Slide Source: 2022 Georgia IRP – Training & Collaboration Roundtable



Who Gets Involved

Company

- Lawyers (Troutman)
- Regulatory Staff
- Expert Witnesses (staff and other)

PSC Staff

- Advisory Staff
- Advocacy Staff
- Expert Witnesses (staff and other)

User Groups/ Associations

- GA Industrial Group
- GA Association of Manufacturers
- Commercial Group
- Resource Supply Management

Generator Groups/ Associations

- Clean Line Energy
- GA Large Scale Solar Assoc.
- GA Solar Energy Assoc.
- GA Solar Energy Industries Assoc.
- The Ray
- Southern Renewable Energy Assoc.

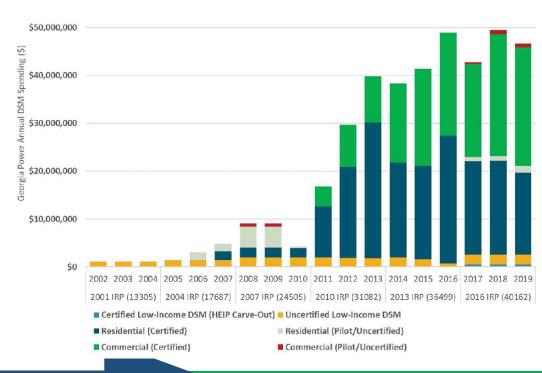
Advocates / NGOs

- GA Interfaith Power and Light
- GA Watch
- Partnership for
- Southern Equity
- Sierra Club
- Southern Alliance or Clean Energy
- Southern Env Law Center
- Southface
- The Ray
- Vote Solar



Energy Efficiency Progress





Slide Source: 2022 Georgia IRP – Training & Collaboration Roundtable





Interim IRP

Interim IRP

2023 Georgia Power IRP Update

The Georgia Power Company (GPC) submitted its 2023 IRP Update (Docket 55378) on October 27, 2023. GPC forecasts a surge in new electrical demand in Georgia, requiring it to file an expedited update before the 2025 IRP to secure additional capacity earlier than initially projected.

- •GPC cited robust economic development in the state, driving a 17-fold increase in electricity load growth through 2031 compared to what the utility forecasted in the 2022 IRP.
- •GPC included requests for new resource acquisition starting the winter of 2025-2026, three years earlier than projected in the 2022 IRP.
- •There are five upcoming events for the 2023 IRP Update.
 - 03/27/24 03/28/24 Hearing on GPC Rebuttal Testimony
 - 04/04/2024 Briefs filed
 - 04/11/2024 Energy Committee and Advisory Staff Recommendations
 - 04/16/2024 PSC Decision





IRP Engagement Options

What are the ways to get involved in the IRP?

Range of options, with varying levels of effort/ commitment:

- Making Public Comment
- Meeting with Commissioners
- Letter Writing
- Protesting the Proceedings
- Intervening in Docket becoming a formal party to the IRP requires a stakeholder to file a petition for leave to intervene. The subsequent level of effort can range. The three sub-bullets below describe three possible levels of intervention.
 - **Low**: intervene in the proceeding to receive and track filings, elect whether to attend hearings.
 - **Medium**: intervene in the proceeding, actively review all expert witness testimony, attend all hearings, cross-examine witnesses, file necessary briefs, and participate in any settlement negotiations.
 - High: enlist expert witness(es), file expert testimony, put expert witness(es) up for cross-examination, and conduct all activities outlined in Medium scenario.





Recent Coalition of Local Government Actions

TESTIMONY ON BEHALF OF CLG-VIRTUAL POWER PLANTS

- A VPP includes two critical components:
 - 1) Behind-the-meter ("BTM") distributed energy resources or "DERs." DERs include rooftop solar, battery storage systems, and intelligent digitalized loads (such as electric vehicles, smart thermostats, and interactive water heaters).
 - 2) Software enabling behind-the-meter DERs to be controlled and networked with similar devices. Together, they bring aggregated value to the electrical grid.
- When this collection of small-scale energy resources is coordinated and activated during periods of high demand, a VPP can perform the role of a traditional power plant.

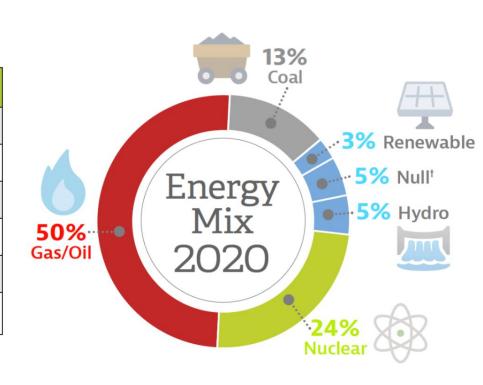


Potential IRP Topics

GA POWER'S CURRENT ENERGY MIX

Generating Capacity

	Total Georgia Power Kw Capacity
Gas/Oil	6,297,942
Coal	4,836,474
Nuclear	1,959,852
Hydro	1,099,882
Renewables	219,306
Total	14,413,456



WHAT IS RENEWABLE ENERGY?

- Solar photovoltaic (fixed or tracking)
- Solar thermal
- Wind power
- Geothermal
- Biomass or biogas
- Hydro power
- •Energy storage** if charged solely by a renewable resource for the term of the PPA

Note: all energy must be bundled with Environmental Attributes / RECs

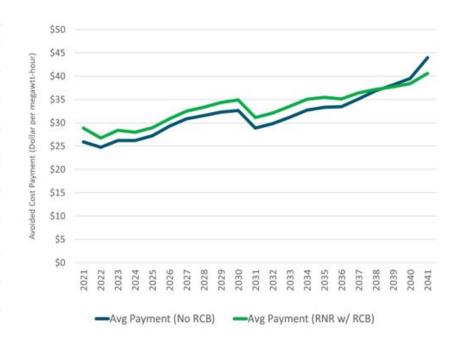
Georgia's solar market



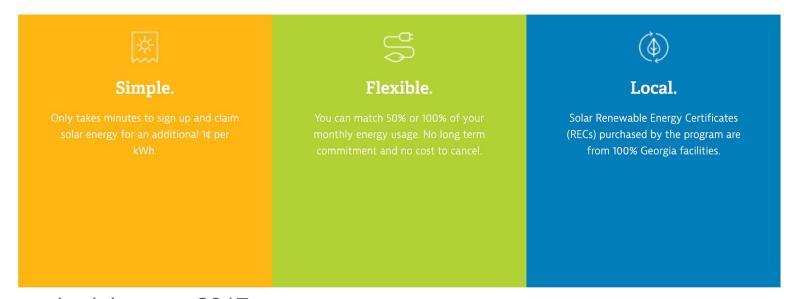
- Solar Installed (MW): 3,248.6
- National Ranking: 9th as of Q1 2021
- Enough Solar Installed to Power: 373,248 homes
- Percentage of State's Electricity from Solar: 3.65%
- **Solar Jobs:** 4,466
- Solar Companies in State: 222 (57 Manufacturers, 75 Installers/Developers, 90 Others)
- Total Solar Investment in State: \$3.8 billion
- Prices have fallen 36% over the last 5 years
- Growth Projection and Ranking: 2,082 MW over the next 5 years (ranks 17th)
- Number Of Installations: 3,425

RENEWABLE COST BENEFIT FRAMEWORK

RCB Component	Utility Scale	Dist. Gen.	
Avoided Energy Costs	1	1	
Deferred Generation Capacity Costs	1	^	
Deferred Transmission Investment	?	1	
Reduced Transmission Losses (Energy Related)	^	^	
Reduced Transmission Losses (Capacity Related)	?	1	
Reduced Distribution Losses (Energy Related)		?	
Generation Remix	?	?	
Ancillary Services – Regulation	Ψ.	4	
Support Capacity (Flexible Reserves)	•	4	



SIMPLE SOLAR PROGRAM



- Launched January 2017
- Ended 2020 with 1,587 participants (primarily residential customers offsetting 50% or 100% of their energy usage with RECs)
- Most energy offsets are from "large volume" subscribers (4 in total)

COMMUNITY SOLAR

Utility	CS Price	Production Estimate (kWh per month)			Unit Cost (cents per kWh)		
		Low	Avg	High	Low	Avg	High
Georgia Power	\$24.99 per 1 kW block	115	165	215	11.6	15.1	21.7
Habersham EMC	\$25 per 1.25 kW block	136	187	237	10.5	13.4	18.4
Sumter EMC	\$25 per 1.25 kW block	136	187	237	10.5	13.4	18.4
Central Georgia EMC	\$19 per 1 kW block	114	150	186	10.2	12.7	16.7
Okeefenokee Rural EMC	\$20 per 1 kW block	120	160	200	10.0	12.5	16.7
Diverse Power	\$25 per 1.25 kW block		201			12.5	
Tri-County EMC	\$25 per 1.22 kW block	160	205	250	10.0	12.2	15.6
Snapping Shoals EMC	\$20 per block	135	165	195	10.3	12.1	14.8
Walton EMC	\$25 per 1 kW block	180	220	260	9.6	11.4	13.9
Satilla Rural EMC	\$18 per block	140	160	180	10.0	11.3	12.9
Greystone EMC	\$22 per block	160	220	280	7.9	10.0	13.8
Coastal EMC	\$25 per block	100	292			8.6	1111

Notes

- Blue font indicates a value estimated by the author. Otherwise, values were taken directly from utility program descriptions.
- Unit cost values were calculated by the author based on monthly price and monthly production estimates
- In most cases, the utility provided a high and low monthly production estimate. In those instances, the author calculated an average monthly production value from these two values
- Diverse Power provided no production estimate. The author calculated an average monthly production value using 730 hours in an average month and a 22% capacity factor.

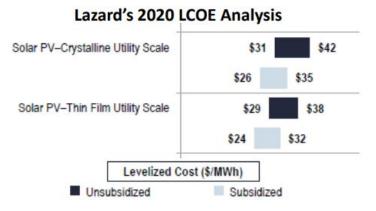
Solar Photovoltaic

Cost of Generic Utility Scale Solar PV for IRP Planning

Prices selected based on market information available to the Company:

- \$25/MWh with 3% annual escalation assuming ITC sunsets as scheduled (equivalent to \$34/MWh levelized)
- \$20/MWh with 3% annual escalation assuming an extension of full ITC (equivalent to \$27/MWh levelized)

Prices are consistent with publicly available industry data*:



^{*}https://www.lazard.com/perspective/levelized-cost-of-energy-and-levelized-cost-of-storage-2020/

LIKELY ISSUES IN IRP

- Size of renewable energy procurement and breakdown (utility scale or distributed / rooftop) and whether subscription or rate-based
- Carve outs for biomass or other technologies
- Role of battery storage
- Renewable Cost Benefit (RCB) Framework
- Subscription offerings: CRSP, Simple Solar, Community Solar, other
- Capacity Value of Renewable Technologies
- Locational Value Study
 - Monthly Netting
 - Additional sum





Soliciting your feedback

Q&A: Open discussion

 Are you interested in learning more about IRP and other utility engagement opportunities?

 What would be useful to you? (information/ training/ tech assistance)

 Are there other community members that need to be engaged (ex. electeds)?











AGENDA

- About Clean Cities Georgia
- Clean Transportation Trivia
- DeKalb Clean Energy Transition Plan
- Dekalb County Fleet
- Community Charging Recommendations
 - Outreach
 - Maps
 - Recommended Locations
- Your Feedback



What We Do

Advance clean transportation adoption for all communities through:

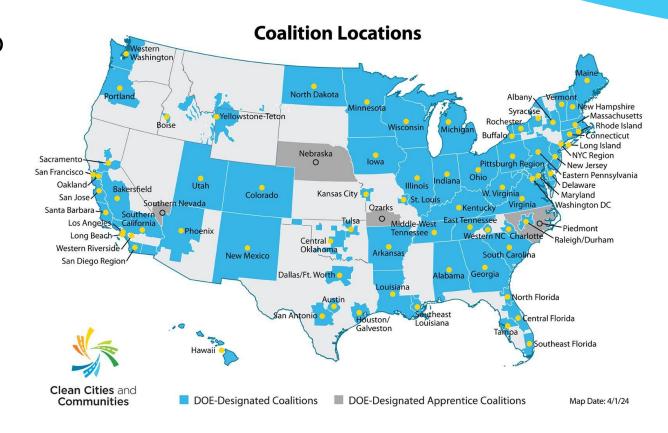
- Fleet conversions
- Grant matching and partnership
- Education and outreach





Who We Are

- Clean Cities and Communities is a U.S.
 Department of Energy (DOE) partnership
 to advance clean transportation
 nationwide.
- More than 75 DOE-designated Clean Cities and Communities coalitions work locally in urban, suburban, and rural communities to strengthen the nation's environment, energy security, and economic prosperity.



Clean Cities Georgia Team





Frank Morris
Executive Director



Matthew Popkin
Marketing Associate



Sumner PomeroyProgram Manager



Cameron AgesTransportation Associate



Pamela Fann Community Engagement Liaison



Lily PerryGrants Fellow



Spencer CliffordProgram Coordinator



Genie RavenFleets Fellow

Clean Transportation Trivia







How much do Electric Vehicles Cost on average?

A. \$15,000-20,000

B. \$60,000-\$80,000

C. \$20,000-\$50,000

D. \$100,000+

What is a Time of Use Rate?

A. A rate offered by electric utilities to incentivize customers to use electricity during specific time periods, generally during lower demand.

- B. A rate offered by some utilities that's based on the length of time an electric vehicle is charging.
- c. A rate offered by some utilities to disincentivize the use of electricity.



What's the maximum range of modern electric vehicles before requiring a recharge?

- A. 500-700 Miles
- **B.** 1000 Miles
- c. 10-30 Miles
- D. 300-400 Miles



An EV battery warranty lasts about

.



- A. 3-5 Years
- **B.** 6-7 Years
- **c.** 8-10 Years
- D. 12+ Years



What is the primary source of propane?



Natural Gas Processing



Sunlight



Hank Hill



Fats, oils, and greases



True or False: You can plug your Electric Vehicle into the same outlet you use for your toaster.

A. True

B. False





What is the fastest charging station?

- A. Level 2 Charger
- B. Level 1 Charger
- C. Direct Current (DC) Charger
- D. Wireless Charging



What is the only byproduct emitted by hydrogen fuel cell vehicles during operation?

A. Carbon Dioxide

в. Water Vapor

c. Methane

D. Nitrogen Oxide



What is the primary component of Compressed Natural Gas (CNG) used in vehicles?

A. Propane

B. Butane

C. Methane

D. Ethanol





Clean Energy DeKalb

Plan Update

2022 Annual Report on DeKalb's Fleet

- 14% Total GGE Reduced
- 7% Total GHG Reduced



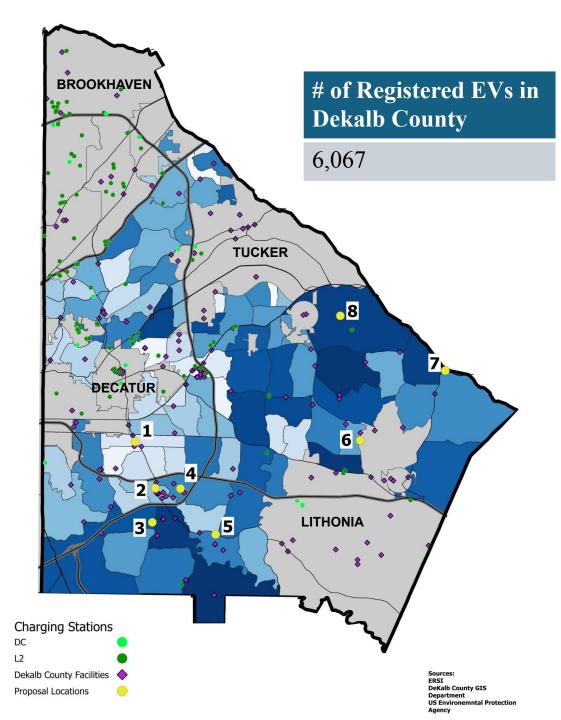
Fuel	# of Vehicles	GGE	GHG
CNG	363	1,279,416 gal	1,250.3 tons
PROPANE	63	19,106 gal	28.8 tons
ELECTRIC	22	13,63 gal	12.1 tons



Community and Fleet Charging

- Network existing fleet charging to make available for community members.
- Install charging stations in areas of the county with little to no charging options
- Recommended locations will serve energy burdened communities that lack any sort of charging infrastructure.
- Improve Dekalb Fleet's range for EVs and encourage reliability for more individual EV purchases.





Proposed Locations

- 1. Scott Candler Library
- 2. South Dekalb Mall
- 3. Georgia Perimeter College
- 4. Exchange Recreational Center
- 5. Chapel Square Shopping Center
- 6. Redan Recreation Center
- 7. Stonebridge Shopping Center
- 8. Stone Mountain Park



Questions

- Is there an area that should have the most attention with this proposal?
- Did we miss the mark? Was there an area that you think should get the most attention over what we suggested?
- While going through this process we attempted to target energy burdened neighborhoods. Do you think there were other areas that should have been considered?









Thank you!

Sumner Pomeroy, Program Manager sumner@cleancitiesgeorgia.org

For more information visit: www.cleancitiesgeorgia.org www.driveelectricgeorgia.org

			Safety						Day/Night		
Phase	Rank	LOCATIONS	(Security/ Lighting)	Walkability	County Power	Amenities	Types of Amenities	Nearby Residents	Charging Access	Notes	
ı	1	Gresham Park	3	4	Υ	3	Parks & Recreation Y				
	1	Exchange Recreational Center	4	3	Υ	3	Recreational Services	Υ			
	1	Redan Recreational Center	4	3	Υ	3	Recreational Services	Υ			
	2	NH Scott Recreational Center	2	4	Υ	2	Parks & Recreation	Υ			
	2	Ellenwood Library	4	3	Υ	1	Library	Υ		Rec Center Being built nearby	
	3	Scott Candler Library	4	2	Y	2	Library & Commercial Services	Υ			
	3	Hairston Crossing Library	4	3	Y	3	School and grocery store nearby Y				
	1	Stone Mountain Park	5	5	N	5	Parks & Recreation		Daytime only		
!	2	Georgia State: Decatur Campus	3	2	N	1	School Building		Daytime only		
2	3	South Dekalb Mall	2	4	N	5	Commercial Services		Daytime only		
N/A	N/A	Stonebridge Village Shopping Center	2	2	N	2	Some shops but not many			Remove from recommendation list	
I/A	N/A	Chapel Square Shopping Center	2	2	N	3	Some shops but not many		Daytime only	Remove from recommendation list	
		Phase 1		Phase 2							
		Gresham Park S		Stone Mountain Park							
		Redan Recreational Center Georgia State		te: Decatur	Campus						
		Exchange Recreational Center		South Dekalb Mall							
		NH Scott Recreational Center	Chapel Hill (Commons S	Shopping Mall					
		Ellenwood Library									
		Scott Candler Library									
		Hairston Crossing Library									

Tank Forces

- Appeinted by CEO and Board of Commissioners
- Members of the Community Climate Cohort
- Ti-people + additional interest.

Clean Energy Industry

- Exercitive Formulas Clean Emergy Industry. Georgia Solar Industry Association
- GR Charles Brook as Political of Astribucts Committee on the
- Environment. Georgia Societa of Perhapional
- **Engineers**
- Association for the Advancement of Supplemental by in Higher Science on
- Zero Warte Zone representative of the
- Georgia Restaurant Association
- Georgia Recyclery Association

Sustainability Officer (Deputy COO)

Administrative Sendom · Frances

Development Group.

Consons Revisered

- Roserts Donatiscopera

- Parriage I Sedimentals

- Healthard Investment - Construction in the regulation Sections (CAS)

Bullion.

- Million prints (Inches Brown 1971) - Parallesting & Contracting
 - Reception, National Euthoral Affiners - Indiana
 - Public Winds 200 The and females

Infrastructure Coup. System Measurement

> - Parameters - Fact tiprasment

Host

Task Force



Non-Profit Sector

Expression from the Non-Profit Sector:

- Action Agency
- Court Other Georgie
- Southeasers Supplied Rty O'rector's Name of Street, Spinster, Spinster,
- Solar Adventure Crown Name David
- Boulty Departmentons

Rept

Reps



DEKALB CLEAN ENERGY & TRANSPORTATION PLAN

Steering Committee Meeting

Task 8

Greenhouse Gas Inventory

October 4th, 2023





OVERVIEW

History of the Task
What We've Done
What We're Missing
Where We're At
Next Steps & Best Practices



- The project team sought to build an inventory from the ground up, requiring:
 - Data (electricity purchases, natural gas, vehicle miles traveled, etc)
 - A tracking tool (ICLEI Clearpath)
 - Stakeholder buy-in/support (county offices, utilities, etc.)
- The inventory would be developed for both county and community emissions

*ICLEI = International Council for Local Environmental Initiatives



DEKALB CLEAN ENERGY & TRANSPORTATION PLAN

Meetings:

- 8/1 Meeting with Southface (Zoom)
 - Stacey Isaac Berahzer, Alanna Kinnebrew, Robert Reed, Samantha Pettigrew, Olivia Wilson, Frank Morris, Walter Zalis, Sarah McMillan, Kirstin Janocha, Sumner Pomeroy
- 8/8 Call with Atlanta Regional Commission (Phone)
 - Stacey Isaac Berahzer, Danny Johnson
- 8/15 Meeting at Southface (In-Person)
 - Stacey Isaac Berahzer, Robert Reed, Samantha Pettigrew
- 8/17 Meeting with Chattahoochee Riverkeeper (Zoom)
 - Stacey Isaac Berahzer, Chris Manganiello
- 8/18 Internal meetings between ibE & Energetics (Zoom)
 - Stacey Isaac Berahzer, Amir Abdelnaby, Rita Moore, Walter Zalis, Kirstin Janocha
- 8/22 Meeting with Atlanta Regional Commission (Zoom)
 - Stacey Isaac Berahzer, Amir Abdelnaby, Rita Moore, Walter Zalis, Kirstin Janocha, Crystal Jackson
- 8/31 Meeting with GA Tech / Drawdown Georgia (Zoom)
 - Stacey Isaac Berahzer, Amir Abdelnaby, Rita Moore, Walter Zalis, Kirstin Janocha, Bill Drummond



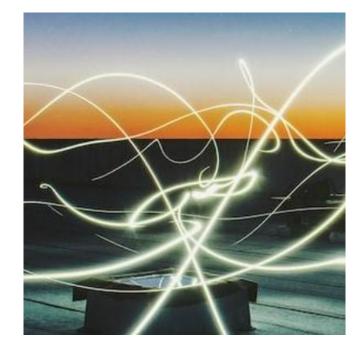
Meetings:

- 9/11 Meeting with Ray C Anderson Foundation (In-Person)
 - Stacey Isaac Berahzer, Maryanne Lanier
- 9/14 Internal meetings between ibE & Energetics (Zoom)
 - Stacey Isaac Berahzer, Amir Abdelnaby, Rita Moore, Walter Zalis, Kirstin Janocha
- 9/20 Meeting with Dekalb County (Zoom)
 - Stacey Isaac Berahzer, Amir Abdelnaby, Rita Moore, Brenda Doctor, Michael Rushin, Felton Williams, Walter Zalis
- 9/22 Meeting with Ray C Anderson Foundation (Zoom)
 - Stacey Isaac Berahzer, John Lanier
- 9/25 Internal Team Meeting
 - Stacey Isaac Berahzer, Samantha Pettigrew, Cameron Ages
- 10/3 Internal Team Meeting
 - Stacey Isaac Berahzer, Amir Abdelnaby, Rita Moore, Walter Zalis



Email Communications:

- Brenda Doctor (Dekalb County) Georgia Power Bill data
- Robin McKnight (SCANA Energy) SCANA & Walton Bill data
- Michael Rushin (Dekalb County) Dekalb Summary Bill Data
- Sumner Pomeroy (Clean Cities Georgia) Vehicle Miles Traveled data



Data Compiled:

- Some data on electricity usage
 - Across 124 files
 - Questions remain on aspects of electricity usage
 - Only applies to county operations
 - Only from GA Power
- Some data on natural gas usage
 - Summary data scanned into a PDF
 - Only applies to county operations
- County fleet for alternative fuel vehicles



What We're Missing

- Data from additional utilities (electricity use)
- County fleet information for ICE vehicles
- Community wide data (energy use, VMT, etc)
- Other data not yet requested (agriculture, waste management, industrial processes, land use for example)
- Potentially ClearPath/other software



- A bottom-up approach can be very time consuming
- For the purposes of this project (focused on energy transition and impact), a top-down analysis utilizing EPA tools to determine community-wide emissions is recommended
- This process can be simplified based on what is in the Drawdown GA tracker (a review of data to build up the tracker has already been conducted)
- Estimates can be made of county emissions based on current Georgia Power electricity use; SCANA natural gas use; and county fleet emissions – this can be subtracted from the community estimate to determine the county/community split

Next Steps & Best Practices

DEKALB CLEAN ENERGY 8 TRANSPORTATION PLAN

Next Steps

- Continue analysis to determine county/community emissions with a top-down approach
- Provide any education needed on ClearPath

Best Practices

- Utilize ClearPath with continuous updates
- Work with county and local stakeholders to understand data required for regular determination of area emissions
- Develop a capture system for gathering emissions and/or energy use data from utilities



Georgia Power Draft Data 2022

DEKALB CLEAN ENERGY & TRANSPORTATION PLAN

Total Monthly Electricity Consumption per Sector (KWh)													
Months													
Sectors	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total (KWh)
Administration	1,391,499	1,162,887	1,074,981	1,271,289	1,193,943	1,342,590	1,517,424	1,502,088	1,417,431	1,516,398	1,160,283	1,245,105	15,795,918
Airport	80,265	83,624	73,526	72,503	65,385	66,431	79,315	78,950	74,385	76,078	63,535	77,276	891,273
Facilities Management	1,462,908	1,495,332	1,317,223	NA	1,442,342	1,545,064	1,705,784	1,629,243	1,626,261	1,682,406	1,536,375	1,700,165	17,143,103
Fire Stations	774,123	NA	639,269	721,887	693,642	756,486	854,733	797,957	766,679	799,920	679,543	687,765	8,172,004
Parks	360,449	406,589	306,052	270,426	298,427	449,135	545,833	512,956	448,774	441,954	341,043	383,901	4,765,539
Police	365,391	360,547	311,485	310,791	296,821	387,438	412,028	416,159	405,403	369,059	281,689	313,342	4,230,153
Sanitation	195,239	220,075	200,517	180,595	178,374	194,908	197,999	215,146	210,702	218,958	167,822	201,459	2,381,794
Senior Centers	239,252	245,012	227,769	232,305	235,187	NA	282,011	308,659	283,943	277,510	230,929	232,423	2,795,000
Street Lights and Highway	1,847,490	1,784,270	1,595,081	1,712,843	1,683,815	2,005,347	2,056,713	1,994,899	1,913,050	1,936,505	2,100,038	1,828,924	22,458,975
Watershed	6,513,769	6,543,855	5,855,532	6,243,812	5,865,508	6,358,140	6,234,001	6,172,421	5,959,316	6,767,743	6,400,011	6,122,336	
Total (KWh)	13,230,385	12,302,191	11,601,435	11,016,451	11,953,444	13,105,539	13,885,841	13,628,478		14,086,531	12,961,268		

Estimating emissions

- •The <u>Emissions & Generation Resource Integrated Database</u> (eGRID) is a comprehensive source of data on the environmental characteristics of almost all electric power generated in the United States. Dekalb County is located in the <u>eGRID subregion</u> named "SERC South" (SRSO).
- •The most recent eGRID data available is for calendar year 2021. According to eGRID, the 2021 annual $\rm CO_2$ equivalent total output emission rate for SRSO is 896.440 lb/MWh. This is made up primarily of $\rm CO_2$ (891.907 lb/MWh) as well as small amounts of $\rm N_2O$ and $\rm CH_4$. For the electricity purchased, this equates to 153.670 MWh, and 68.878 tons of emissions.



TEAM



Walter Zalis
WZalis@energetics.com



Kirstin Janocha KAJanocha@energetics.com



Rita Moore



Amir Abdelnaby amir-a@ibenvironmental.com



PLAN

Stacey Isaac
Berahzer
stacey@ibenvironmental.com







0



THANK YOU

IB Environmental & Energetics









Data Source and Methodology

- Data from Drawdown GA's <u>Greenhouse Gas Emissions Tracker</u>
- Statewide emissions were calculated from monthly data published by:
 - Department of Energy's Energy Information Administration
 - Department of Transportation
 - Environmental Protection Agency
- Local indicator variables were then used to calculate Dekalb County's share of statewide emissions, including:
 - Population and housing characteristics (Census Bureau's American Community Survey)
 - Employment info (Census Bureau's Quarterly Workforce Indicators)
 - Vehicle miles traveled (Dept. of Transportation)
 - Forest coverage (National Land Cover Database)
 - Agriculture crop harvests and animal counts (Dept. of Agriculture's Census of Agriculture)

Source: <u>Drawdown GA</u>



Key Terms

Greenhouse Gas (GHG) Emissions

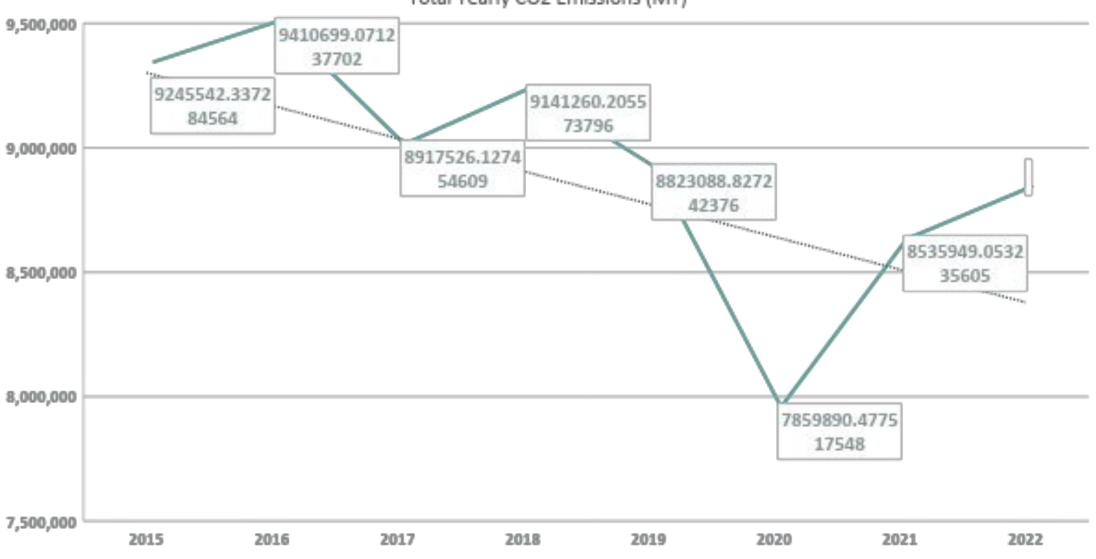
• The mix of gases that trap heat in the Earth's atmosphere, including carbon dioxide, methane, nitrous oxide and fluorinated gases. GHG emissions are represented as carbon dioxide equivalent, a standardized way to describe the global warming potential of any GHG. Emissions are converted into the amount of carbon dioxide that would have the same global warming impact.

Metric Tons (MT)

• This is the unit of measurement for greenhouse gas emissions. One metric ton equals 2,205 pounds and is about half the weight of a full-sized pickup truck or mid-sized SUV.

2022 Dekalb Community Emissions in Context

Total Yearly CO2 Emissions (MT)

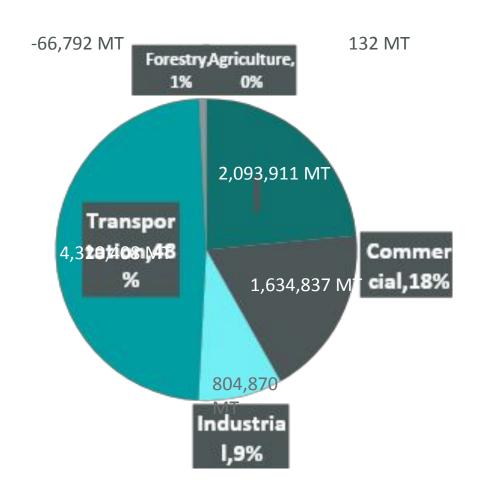


County Operations Emissions (2022 electricity and fleet)

Source	KWh	MWh	scf	Gallon	Multiplier	Total GHG Emissions (MT)
GA Power	153,670,203	153,670			896.440 lb/MWh	62,474.43
Snapping Shoals	3015308	3,015			896.440 lb/MWh	1,225.87
Walton	745775	746			896.440 lb/MWh	303.19
CNG			1,464,655.75		0.05444 per scf	36.16
Diesel				747,506.06	10.21 per gallon	3,461.24
Unleaded Gas				1,588,752.12	8.78 per gallon	6,326.19
Propane				26,721.49	12.68 per gallon	153.66
TOTAL	73,980.75					
% of county to	0.92%					



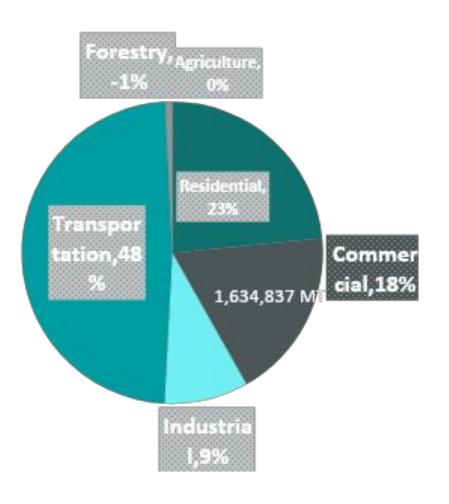
Residential Sector Emissions







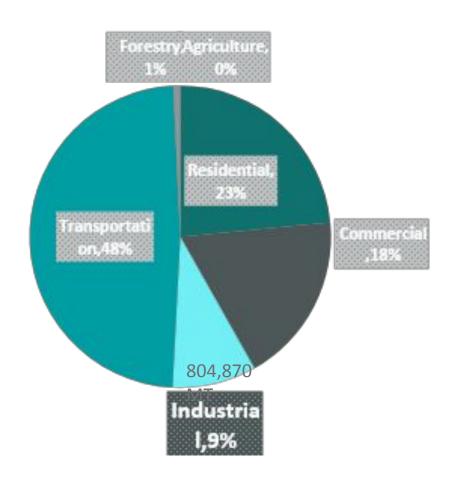
Commercial Sector Emissions







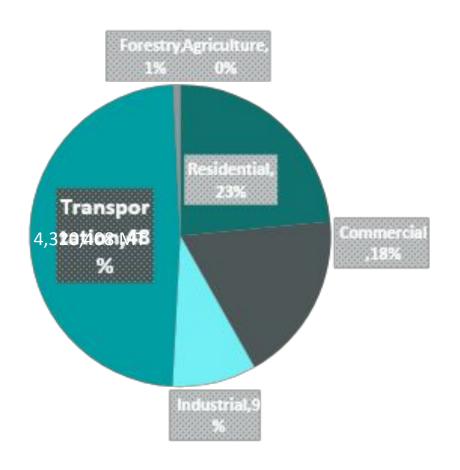
Industrial Sector Emissions







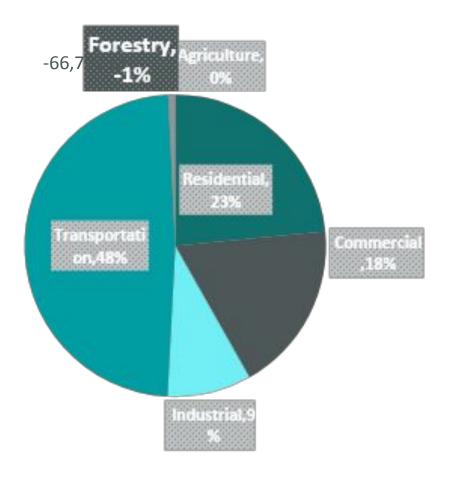
Transportation Sector Emissions







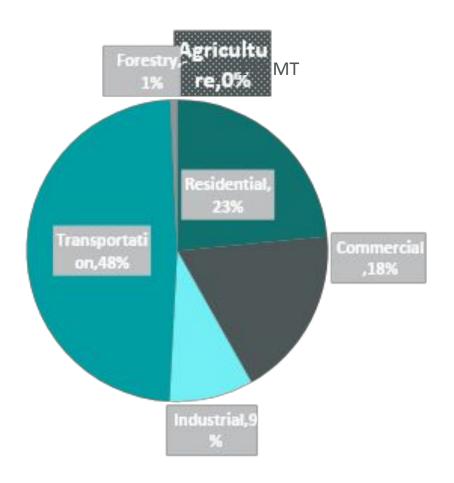
Forestry Sector Emissions







Agriculture Sector Emissions







Clean Energy Consulting

Scenario A: Cost Optimization

Scenario Goals

The objective of the Cost Optimization scenario is to optimize emissions mitigation, adaptation, and resilience measures while being conscious of the strain on the county budget. Essentially, this scenario estimates the best course of emissions-mitigating actions under the lowest-possible spending options, with additional optional actions included in the next spending tier.

Our analysis accounts for a combination of both cost and effectiveness. As our base list of measures, we included actions that represent the lowest-cost – yet most effective – emissions mitigation measures. Our team also included measures that offer some trade-offs in those criteria as second-tier options. Either they are slightly more costly (relatively), but highly effective, offering a higher return on investment, or they are quite inexpensive to implement, but offer little reward in terms of emissions mitigation or resilience.

Finally, the potential equity, community co-benefits, and/or community resilience impact is indicated for each action item throughout the Scenario. Figures 1, 2, and 3 have been chosen as a digestible and consistent way to represent the possible equity value in each action: Figure 1 indicates the low-impact, Figure 2 indicates medium-impact, and Figure 3 indicates high-impact action items in regard to community co-benefits and equity. This indication ought to be considered when prioritizing actions and strategies for implementation.





Figure 2 [above] represents action items with a potential for medium community co-benefits, resilience, and/or equity impact.



Figure 3 [above] represents action items with a potential for high community co-benefits, resilience, and/or equity impact.

Actions

Airports

Emissions from airports (in this case, the DeKalb- Peachtree Airport) fall into two categories – emissions from planes (specifically jet fuel), and emissions from building and airport operations. While emissions from jet fuel cannot be eliminated at this time (there is currently no readily available electric plane), they can be minimized. However, operations and building emissions can be brought as close to zero as possible. In the cost mitigation scenario, the focus is on accelerating airport building efficiency (with measures specific to airport buildings) and minimizing unnecessary emissions from aircraft. Larger, more impactful actions are taken later.



Action A.1:

Evaluate and Reduce Non-Essential Airport Fuel Use

The first step is a series of low-investment, low-disruption actions to reduce emissions from current fuel sources. These actions are considered "no regrets" because they carry low risk and little financial strain, carry some co-benefits, and/or help to gather data and plan for future energy use and emissions mitigation potential.

Collecting and evaluating data will help chart a detailed, intentional course for next steps. Data would include current and ongoing energy use, emissions, and operations data. By evaluating operations information (such as which gates are most frequently used, turnaround time for aircraft, etc.), valuable insight is gained into how airport and aircraft operations can be made more efficient to decrease emissions.

Reducing non-essential aircraft/APU use on tarmacs would lower emissions from aircraft engines. The use of pre-conditioned air units to keep aircraft cool would reduce the need to have the aircraft engines running while the plane sits on the tarmac or at the gates, reducing fuel consumption (which has cost savings co-benefits). If not already in use, it would also be beneficial to implement zero-emissions 400Hz ground power units.

Finally, **submetering for airport tenants** (if not already in place) would give the airport more data and accountability for energy consumption throughout the building.

Action A.1 Implementation Considerations:

Lead Agency: DeKalb- Peachtree Airport

Timeline: 5 years

Cost: Low

Emissions Mitigation: Low

 Implementation Barriers: Implementation is dependent on which measures are already in place.

 Equity, Resilience, and Community Co-Benefits: Extended co-benefits may include improved community health over the long-term as emissions-related air pollutants are reduced.



In tuture planning for PDK, it will be important to account for both future efficiency and sustainability measures as well as future resilience. While more comprehensive building efficiency measures are further discussed in our Buildings section, there are additional measures pertinent to the airport as outlined below.

Incorporate climate resilience measures into future airport development by creating policies that will ensure future airport construction accounts for anticipated climate change, including extreme temperatures, intense precipitation, and flooding hazards. This includes resilience to flooding (such as water runoff) and extreme temperatures (accelerated tarmac wear).

Implement efficiency and sustainability standards for future airport development. This may include LEED certification (or other sustainability standard certification), as was recommended in the Buildings section.

Action A.2 Implementation Considerations:

Lead Agency: DeKalb- Peachtree Airport

Timeline: 10-20 yearsCost: Medium-High

Emissions Mitigation: Medium

 Implementation Barriers: Sustainable building standards and resilience measures are extensive and often costly. Additionally, the certification process is lengthy.

 Equity, Resilience, and Community Co-Benefits: High temperatures impact ground service staff working on the tarmac; resilience measures should include adequate staffing and care

measures for staff working in extreme heat.



Action A.3:

Maximize Airport Emissions Reductions and Offsets

Long-term investments for airport sustainability are largely centered around energy. Because much of the technology (such as sustainable aviation fuel) has a long way to come before being an effective and prolific option, it is recommended to withhold investment in this area until the technology is further developed and the county has time to fully prepare for an investment of this size.

Large-scale solar development on Airport grounds would create clean energy to service PDK's electric energy consumption, while the unused energy could be put back into the county's power grid.

Converting Ground Service Equipment (GSE) to low- or zero-emission vehicles (ZEVs) would reduce or eliminate emissions from GSE in use during airport operations. Coupled with solar electricity on site, this would render GSE fully net zero.

Explore sustainable aviation fuel infrastructure for aircraft. Sustainable aviation fuel, such as electrofuels (e-fuels), biofuels, and hydrogen are still being researched and developed. Where available, their use is still very limited. As this technology develops and becomes more widely available, it is worth exploring as an option for providing alternative fuel infrastructure at PDK.

Action A.3 Implementation Considerations:

Lead Agency: DeKalb- Peachtree Airport

Timeline: 20+ years

Cost: High

Emissions Mitigation: High

 Implementation Barriers: Technology development, affordability, and availability, especially with GSE and alternative fuel infrastructure.

 Equity, Resilience, and Community Co-Benefits: Additional electricity generated from solar power could be sold back to DeKalb County's power grid, boosting and diversifying grid resilience and, by extension, community resilience.

Buildings

In the Low-Cost Scenario, actions are prioritized that have the potential to save money while reducing emissions with heavy emphasis on efficiency in the long term. The scenario achieves most progress towards emissions mitigation goals with deep penetration of clean energy supplies late in the scenario period, thus delaying major costs until 2050. The most important conceptual approach in the Low-Cost Scenario is ensuring that the County's investments in new facilities are designed from the outset to be compatible with the County's energy and emissions goals. This means that relatively small increases in the up-front cost of new buildings.

Buildings actions are designated to be led by the Facilities Department.



O O Action B.1:

Adopt Enhanced Energy Efficiency Requirements for New and Renovated County Buildings

Energy efficiency requirements can be achieved through a number of approaches, including green building certification (e.g., LEED/EnergyStar certification) or through the adoption of a more advanced version of the IECC (e,g., 2024 IECC) for County buildings.

Action B.1 Implementation Considerations:

- Lead Agency: Facilities Department, support from Depts. with significant facilities (e.g., Airport, WWTPs, Landfill, etc.)
- Timeline: 5 years (immediate); recurring revisions in energy efficiency requirements on a timeline that matches IECC updates (i.e., revise requirements every 3 – 5 years)
- Cost: Medium to High, accounting for all improvements
- Implementation Barriers: Green building certifications require external contractors for assessment and validation; technologies required in IECC codes may require technical workforce development in county.
- Emissions Mitigation: Achieve at least 20% reduction in energy demand for new County buildings (relative to comparable buildings) developed or renovated by the Facilities Dept. or other County agencies (i.e., 5% greater efficiency improvement than EPA EnergyStar)
- Equity, Resilience, and Community Co-Benefits: Technical
 workforce development (i.e., creation of local skilled workforce by
 stimulating demand for advanced building efficiency technologies) is
 expected to support advanced energy efficiency requirements in the
 private and community buildings sectors; improved efficiency
 requirements reduce peak energy demand requirements for county
 facilities and improve building resilience to power outages (e.g.,
 improved insulation, daylighting).



Action B.2:

Full-Electrification of Future County Buildings

Ensure that future buildings are fully electrified in anticipation of decarbonized electricity supply. Because traditional fuels (including natural gas, propane, diesel, etc.) are very costly to decarbonize, the County's most economically efficient path to decarbonization is via electrification and switching to renewable energy resources. The most significant current uses of fossil fuels within County facilities are for space and water heating; electrification is anticipated to replace these uses with air-source heat pumps, including heat-pump water heaters. Additional uses of fossil fuels (including kitchen appliances, dryers, etc.) can be electrified with a large and growing number of alternative appliances.

Action B.2 Implementation Considerations:

- Lead Agency: Facilities Department, support from Depts. with significant facilities (e.g., Airport, WWTPs, Landfill, etc.)
- Timeline: Initiation in 2025 (immediate) to be completed in < 5
 years; recurring revisions in energy efficiency requirements on a
 timeline that matches IECC updates (i.e., revise requirements
 every 3 5 years)
- Cost: High
- Implementation Barriers: Largest implementation barriers associated with facilities that host large-scale industrial processes (e.g., landfill, WWTPs), in some cases electrification is not possible with commercially available technologies.
- Emissions Mitigation: This action achieves no direct emissions mitigation except for avoiding future potential fugitive emissions of methane (these avoided emissions are expected to be small)
- Equity, Resilience, and Community Co-Benefits: Technical workforce development through development of building electrification practices in local construction market. Cost savings from electrification can be redirected through County budget to better serve low-income or disadvantaged (LIDAC) communities.



Many opportunities exist to improve the energy efficiency of existing buildings and facilities by retrofitting demonstrated technologies with proven ROIs. A critical part of the lowest-cost approach to mitigating GHG emissions is to avoid unnecessary energy waste, and that means adopting and implementing as many efficiency measures as possible. Building efficiency improvements include a large number of individual actions across every type of building energy use, including:

- **Efficient lighting**: Replace incumbent lighting systems with energy efficient LEDs and installing timers or motion sensors in County buildings that do not already have them.
- Efficient water heating: Replace boilers and water heaters with high-efficiency models (including heat pump water heaters if the scale/duty cycle justifies the investment), and implement zone controls of hot water loops where applicable.
- Efficient HVAC improvements: Upgrade existing water chillers with high-efficiency models
 and/or retrofit with variable frequency drives; replace inefficient heat pumps with
 high-efficiency models; replace inefficiently-designed systems (including oversized units
 when upgrading building insulation) with HVAC systems designed from a whole-building
 perspective; use heating/cooling zone controls, sensors, and smart scheduling (in line with
 building energy management systems) to eliminate wasteful space conditioning; replace
 window units with mini-split or centralized HVAC systems; replace separate heating and

- cooling systems with combined heat pump systems; install heat recovery fresh air exchangers where not currently used; explore advanced technologies including ground/water-source heat pumps, thermal load storage devices, and solar water heaters
- Efficient envelope improvements: Conduct assessments of existing county facilities (i.e., retro-commissioning) including door blower tests and thermal imaging for small buildings, and building energy modeling for larger buildings; mitigate identified leaks, gaps, and other envelope problems; upgrade or mitigate outdated windows with energy efficient options, window laminates, and/or automatic shades to reduce heat gain through windows
- **Building energy management systems (BEMS):** Deploy a connected, County-scale building energy management system that will allow smart decision-making with regards to building energy use, integration of sensors, advanced scheduling, and program-based operations that account for differences in weather, occupation, etc.

The selection and prioritization of efficiency improvements in County facilities will depend on the County facilities upgrade budget priorities. The prioritization of upgrades should include factors beyond efficiency and cost, including opportunities to leverage already-planned work and/or emergency repairs to incorporate efficiency improvements. Planning and scheduling efficiency improvements is a process that will need to be incorporated into the Facilities Department's budgeting process. The process can be tracked with performance metrics on the number and type of efficiency technologies implemented in each County facility.

Action B.3 Implementation Considerations:

- Lead Agency: Facilities Department, support from Depts. with significant facilities (e.g., Airport, WWTPs, Landfill, etc.)
- Timeline: Initiation in 2025 (immediate) to be completed over the medium-term (5 – 20 years); it is expected that new efficiency technologies will become economical over the course of this action, thus regular updates to the supporting policy will be necessary; prioritize buildings by leveraging BEMS data to identify most wasteful facilities.
- Cost: Medium to Low, depending on current County building conditions
- Implementation Barriers: Largest implementation barriers
 associated with facilities that host large-scale industrial processes
 (e.g., landfill, WWTPs), in some cases electrification is not possible
 with commercially available technologies and carbon-free fuels may
 be considered.
- Emissions Mitigation: This action achieves no direct emissions mitigation except for avoiding future potential fugitive emissions of methane (these avoided emissions are expected to be small)
- Equity, Resilience, and Community Co-Benefits: Technical workforce development through development of building electrification practices in local construction market. Cost savings from electrification can be redirected through County budget to better serve low-income or disadvantaged (LIDAC) communities.



Action B.4:

Create Energy Manager Role and Track Energy Use

The primary challenge preventing the County from accurately estimating its GHG emissions (and therefore associated emissions mitigation potential) is a lack of data on energy use across sectors, including insufficient differentiation on how electricity is used, and no data on fuel use for building energy (including natural gas, propane, kerosene, or other fuels). This action includes the establishment of an Energy Management Division and/or Senior Energy Manager role within the Department of Facilities. In addition to tracking energy use and retaining data, the energy manager role would lead implementation of efficiency improvements, identify sources of energy waste, and bring together the various County Government resources to address and mitigate those sources.

Action B.4 Implementation Considerations:

- Lead Agency: Facilities Department, support from Depts. with significant facilities (e.g., Airport, WWTPs, Landfill, etc.)
- Timeline: 5 years (immediate)
- Implementation Barriers: Establishing the systems and processes for data collection across all County facilities is a labor-intensive process, but once complete labor costs should fall.
- . Cost: Low to Medium
- Implementation Barriers: Establishing the systems and processes for data collection across all County facilities is a labor-intensive process, but once complete labor costs should fall.
- Emissions Mitigation: Medium High (assuming no similar role currently exists)
- Equity, Resilience, and Community Co-Benefits: N/A

Decarbonize with Renewable Energy

While many steps can be taken to reduce County emissions in the low-cost scenario, complete decarbonization can only be achieved by replacing current supplies of electricity with 100% renewable-sourced electricity (alongside the complete electrification of County facilities). The most significant challenge for implementation of this action is determining when to implement it.



Action B.5:

Acquire 100% Renewable Electricity

Purchase electricity from suppliers who produce energy with 100% carbon-free resources (including solar PV, wind, hydro, and nuclear power). Currently, Georgia Power (GP) offers at least two different ways to subscribe to renewable energy via price adders on the traditional tariff. Such arrangements are likely to be the most cost-effective means of decarbonizing Dekalb's grid over the long-term, barring changes in the relative costs of commercial-scale solar

deployments, supporting technologies (including interconnection, operating, and grid-scale storage costs), and financing.

Action B.5 Implementation Considerations:

- Lead Agency: Facilities Department, support from Depts. with significant facilities (e.g., Airport, WWTPs, Landfill, etc.)
- Timeline: Long-term (20+ years); the choice of when to begin purchasing 100% renewable energy for County facilities is a policy decision that must balance cost against County mitigation goals; to achieve the lowest cost, the Facilities Dept. should seek to delay this shift as late as possible while still achieving its commitments; the switch to a renewable energy supply
- Cost: Medium to High
- Implementation Barriers: Risk of overshooting emissions mitigation goals; potential risk of higher-than-expected costs relative to developing own-generation
- Emissions Mitigation: The switch to 100% renewable energy is expected to mitigate all building emissions associated with electricity consumption in County facilities.
- Equity, Resilience, and Community Co-Benefits: Because
 utility-supplied renewable energy is supplied by the distribution grid, it
 has no resilience risk or benefit compared to traditional grid-supplied
 electricity; community and equity co-benefits may potentially be
 achieved through a small reduction in (non-GHG) air pollution
 associated with electricity production near Dekalb County.

Fleets

The Low-Cost Scenario seeks to optimize fleet fuel efficiently as much as possible through management practices, while also carefully and intentionally transitioning to lower- and eventually zero-emissions vehicles when it makes financial sense to do so. DeKalb County Department of Public Works, Fleet Management Division maintains 3,500 vehicles for the various County departments – an investment in ZEVs for a fleet this size is a hefty one as it includes not only the vehicles themselves, but the infrastructure to charge them and the workforce training to maintain them. This scenario focuses on maximizing efficiency in the short term, reducing vehicle size and fleet use in the mid-term, and transitioning to ZEVs in the long term as it becomes more economical to do so.

Action F.1: Fleet Efficiency Optimization

efficiency optimization is not a "clean fuel" or zero-emissions transition, it is a low-cost adjustment to ensure that emissions from fleet vehicles are kept to a minimum. This option is therefore considered a no-regrets action which can be undertaken almost immediately during a more involved transition to zero-emissions fleet vehicles.

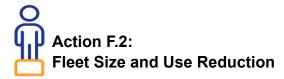
Route optimization happens at an operational level within departments that use fleet vehicles, and involves minimizing doubling back, idling in traffic, and other forms of extra travel. This allows for fuel savings, as well as time savings and reduced vehicle stress.

Maximizing vehicle efficiency primarily entails conducting vehicle maintenance thoroughly and regularly to ensure vehicles are running smoothly. Current maintenance records from the DeKalb County Public Works Department Fleet Maintenance Division should be assessed for possible gaps, such as additional staffing or equipment needs.

Finally, **idling policies** would be aimed at reducing vehicle idling. This comes in three parts – a policy aimed at reducing idling vehicles, training to ensure vehicle users feel comfortable with the new guidelines, and monitoring to understand idling reduction. Additionally, it is possible to add auxiliary AC units in some heavily-used or larger fleet vehicles during warm months. This allows the driver to remain cool without idling the vehicle.

Action F.1 Implementation Considerations:

- Lead Agency: Public Works Department Fleet Maintenance
- Timeline: 5 years
- Cost: Low
- Emissions Mitigation: None
- Implementation Barriers: Potential barriers include inter-departmental coordination on vehicle use and route optimization; development of, as well as training and communication on, updated vehicle and route guidelines; and monitoring capabilities.
 - Equity, Resilience, and Community Co-Benefits: Improvements to air quality through reduced emissions from County fleets. Potential for reduced traffic congestion due to route optimization. Cost savings from fuel efficiency may be redirected through County budget to serve LIDAC communities.



In the medium-term, reducing vehicle size to primarily smaller vehicles with high fuel efficiency will provide fuel savings as well as reduced emissions from fleet vehicles. Depending on the current fleet, this action may have a lower impact, both in terms of cost and effectiveness.

Action F.2 Implementation Considerations:

- Lead Agency: Public Works Dept. Fleet Maintenance, Purchasing Dept.
- Timeline: 5-10 years
- Cost: Low-High (depending of size of current fleet vehicles)
- Emissions Mitigation: Low to Very Low
- Implementation Barriers: Identifying which vehicles can be reduced in size will require an operations inventory. Additionally, the process of identifying replacement vehicles and trading in/selling current vehicles may be time consuming.
- Equity, Resilience, and Community Co-Benefits: Improvements to air quality through reduced emissions from County fleets.
 Potential for reduced traffic congestion due to reduced fleet sizes.



Action F.3:

Fleet Transition to Lower-Emissions and Zero-Emission Vehicles

As zero-emission vehicles (ZEVs) and charging infrastructure grow more accessible and affordable over time, it becomes a better return on investment. As such, in this scenario, our recommendation is to wait until the technology is more prolific and the cost generally lower before transitioning to a fully ZEV fleet. This also gives the County time to prepare for the cost associated with a full fleet transition and infrastructure development. Where appropriate, the selection of lower-emissions vehicles – including hybrid and plug-in hybrid vehicles – where commercially viable and competitive models are preferred.

Action F.3 Implementation Considerations:

- Lead Agency: Public Works Department Fleet Maintenance Division, as well as Purchasing Department
- Timeline: 10-20 years
- Cost: High
- Emissions Mitigation: Medium to High
- Implementation Barriers: Identifying which vehicles can be reduced in size will require an operations inventory. Additionally, the depreciation of current vehicles is a factor and should be factored into the decision of when to begin the fleet transition.
- Equity, Resilience, and Community Co-Benefits: Air quality improvements, as well as the potential to offer charging stations to the public to increase availability of EV charging infrastructure and offset costs from charging fees.

Land Use



Action L.1:

Integrate Carbon Mitigation into Unified Plan

One of the County's most potent tools for mitigation of Community emissions is the County's control over how and where to site buildings, roads, infrastructure. By controlling factors like the density and design of buildings, the proximity of buildings to one another, and the infrastructure that connects them, the Unified Plan (including both the Comprehensive Transportation Plan and the Comprehensive Land Use Plan) has a significant effect on the future of both building and transportation emissions in the County.

In order to fully integrate carbon mitigation into the Comprehensive Plan, the Department of Planning and Sustainability should focus on the following principles:

- Multi-unit buildings are more efficient to heat and cool, leading to reduced energy-related emissions, as well as reduced peak demand and lower risk of power outages during extreme heat events.
- Neighborhoods with closer proximity between buildings, and especially with close commercial districts, reduce the number and length of private vehicle trips; fewer and shorter trips reduce fuel use, transportation emissions, and associated community impacts.
- Housing abundance reduces housing costs, and reduced reliance on private cars and trucks
 reduce household transportation costs; together these factors improve the resilience of the
 community to the future increases in the cost of energy and associated energy burden,
 especially in low-income communities.

These principles are already reflected in part in the 2050 Unified Plan, however in order to facilitate the County's transition to net-zero emissions at the lowest possible cost additional actions are recommended. This scenario recommends the following actions or revisions to the Unified Plan:

- Implement the Unified Plan's recommendations for sustainable zoning, but increase the emphasis and application of zoning and code requirements that reduces energy-related emissions from vehicle miles traveled (VMTs); deemphasize zoning that preserves or exacerbates VMTs.
- Explore all options to expand the application of zoning which allows energy efficient multi-family developments.
- Create compact, mixed-use developments which decrease reliance on single-passenger vehicles, per the Unified Plan's statements in principle that new developments should focus on existing activity centers, locations near transit stations, and high-capacity corridors.
- Implement the Unified Plan's small area plans (SAPs), but revise SAPs that fail to achieve significant transportation and land-use emissions mitigation; ensure SAPs have robust internal active transportation networks; SAPs designed around highway corridors without alternative access should be reimagined with active transportation backbones, crossings, and connections to surrounding communities; SAPs that rely excessively on

- highway/arterial corridors should be deprioritized for new development over SAPs with potential to mitigate VMTs.
- Explore broad-based zoning density bonuses with different approaches in different zones; e.g., auxiliary dwelling units (ADUs) in single-family household neighborhoods, higher-intensity zoning can be similarly upzoned (either in terms of units per parcel, FAR/height limits, etc.).
- Use zoning bonuses to encourage low-emissions practices, including high density development in transit-connected activity centers.

Action L.1 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department
- Timeline: 5 years (next Unified Plan update)
- Cost: Low to Medium (cost of analysis and development only)
- Emissions Mitigation: High (primarily community emissions)
- Implementation Barriers: Primarily political
- Equity, Resilience, and Community Co-Benefits: Increasing zoning density, increasing the housing stock, and reducing the County's reliance on private vehicles for transportation will have significant co-benefits for communities, primarily associated with reduced household expenditures on housing, energy, and transportation; additional resilience co-benefits are associated with lower anticipated peak electricity demand, reduced air pollution, reduced noise, and improved street safety.



Action L.2: Restriction on HOA Covenants that Impede Emissions Mitigation

In some jurisdictions, homeowners associations (HOAs) have included contractual language precluding the use of onsite renewable DERs such as rooftop solar panels or other important infrastructure such as outdoor EV charging systems. The County should proactively restrict such covenants to further promote solar use and other emissions-mitigating efforts by homeowners.

Action L.2 Implementation Considerations:

- Lead Agency: Planning and Sustainability
- Timeline: 5 years
- Cost: Low (policy changes only)
- Emissions Mitigation: Medium, community emissions only
- Implementation Barriers: Resistance from HOAs and community members; zoning restrictions and legislative support.
- Equity, Resilience, and Community Co-Benefits: Increased deployment of residential and commercial DERs across the County facilitates the transition to zero-carbon energy as well as improving the resilience of the local electricity grid; additionally reduced air pollution.

Municipal Solid Waste



MSW.1:

Promote Waste Reduction in County Departments and Targeted

Sectors

The Sanitation Division can promote several practices across both County operations and the Community that can help reduce emissions from the County landfills, sanitation operations, and public works projects. Both community members and commercial customers of the Sanitation Division's collection and carting services may be reached through public-information campaigns to promote waste reduction, reuse, and recycling. Potential waste-reduction campaigns could include:

- Fliers, websites, and social media outreach can promote the County's recycling program, including advertising the program's contributions to County emissions mitigation goals.
- Partnerships for waste diversion can include promotion of local appliance repair companies, scrap metal recyclers, and electronics recyclers.
- Promotion of composting at the residential or institutional scale can reduce the organic waste contributions to landfill emissions by encouraging families, schools, hospitals, or other major produces of organic wastes to use compost onsite.
- Advertising of groups or mailing lists for donations of unwanted household items (e.g., 'Freecycle,' 'Buy Nothing,' etc.) and/or second-hand stores that accept donations.
- Establishment of a Sanitation Division-backed program for donations of large volumes of useful materials that would otherwise be disposed of (e.g., NYC's DonateNYC program for facilitating donations to qualified nonprofits).

Action MSW.1 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division, with support from Roads and Drainage Division and Planning and Sustainability Department
- Timeline: 5 years
- Cost: Low; information campaign only
 Emissions Mitigation: Low to Medium
- Implementation Barriers: Working with County departments to establish SOPs for waste reduction.
- Equity, Resilience, and Community Co-Benefits: Waste reduction and donation-based programs can benefit low-income and vulnerable communities by minimizing expenditures on durable goods. Engagement in a circular economy bolsters community resilience and builds networks for mutual aid beyond government facilitation.



Action MSW.2:

Maximize Recycling of Concrete and Asphalt Aggregates in Public Works Projects

Dekalb County has taken important statutory steps to allow the use of recycled concrete aggregates in road construction (eliminating the need for emissions-intensive virgin materials), and the Roads and Drainage Division should seek to utilize recycled concrete aggregates for road foundations wherever feasible. Similarly, recycled asphalt products are available within the metro Atlanta region and should be used whenever feasible to reduce lifecycle emissions associated with road paving.

Action MSW.2 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division, with support from Roads and Drainage Division and Planning and Sustainability Department
- Timeline: 10 years
- Cost: Low to Medium, recycled materials are not expected to cost significantly more than virgin materials and may be available at a lower cost.
- Emissions Mitigation: Low to Medium
- Implementation Barriers: Recycled aggregates must be clean of impurities.
- Equity, Resilience, and Community Co-Benefits: Reduction in lifecycle emissions associated with road paving may contribute to overall improvements in local air quality.



Action MSW.3:

Minimize Fugitive Landfill Gas (LFG) Emissions Across MSW

Because anaerobic decomposition of organic wastes in MSW streams is a major source of methane emissions (a GHG 25x more potent than CO2), the County should review its MSW collection, carting, and landfilling operations to ensure that fugitive methane emissions are avoided wherever possible. While significant actions have already been taken to control LFG emissions (e.g., LFG collection and waste-to-energy facility at the Seminole Rd. landfill), the Sanitation Division should establish a program of recurring top-to-bottom reviews (e.g., aligned with Comprehensive Plan cycles) to monitor, track, verify, and mitigate potential LFG leaks at all stages of the Sanitation Division's work.

A review could consist of a systematic identification of opportunities for LFG leakage (e.g., during carting, at various stages of landfilling, and from LFG collection, cleaning, pressurization, and distribution pipelines), followed by targeted monitoring using both portable and fixed optical gas imaging (OGI) and electromechanical/spectrometry sensors. Opportunities to shorten the residence time of organic waste in waste collection trucks and in other anaerobic holding piles may be available. Potential leaks in LFG collection and transportation, as well as LFG

processing operations should also be addressed. The purpose of each review will be to identify and mitigate any existing leaks, as well as provide an opportunity to strategize how to further reduce methane leaks.

A more intensive approach to this action could include the initiation of an internal Leak Detection and Repair (LDAR) program within the Sanitation Division, aligned with an annual LDAR report. Best practices for LDAR programs are published by the U.S. Environmental Protection Agency.

Action MSW.3 Implementation Considerations:

Lead Agency: Public Works Sanitation Division

Timeline: 5 years

Cost: Low

- Emissions Mitigation: Low to Medium, depending on extent of fugitive emissions.
- Implementation Barriers: Labor and workforce development; potential technical support may be available from U.S. EPA or Georgia EPD.
- Equity, Resilience, and Community Co-Benefits: Methane leaks are primarily a climate hazard with few immediate impacts on communities, however LFG leaks may also include volatile gases with potential nuisance or health impacts on communities; mitigating LFG leaks will benefit communities near major LFG sources (predominantly the Seminole Rd. Landfill).

Parks & Agriculture

Parks are inherently a low- or zero-emissions sector. Most emissions from the parks sector come from park buildings or fleets, which are already covered in their respective sections. Rather than "decarbonizing" the remaining components of the parks sector, we aim to maximize the emissions mitigation potential of green spaces by expanding them, improving their care and maintenance, and ensuring their sustainability and resilience.



Action P.1: Improve Park Resilience and Mitigation Potential

Flora is an excellent natural carbon sequester. Trees are especially important to natural carbon sequestration, given their size and longevity. However, the ecosystems in parks and open spaces will be especially vulnerable to extreme temperatures and weather in the coming years. When planted environments die, they release carbon back into the atmosphere as they decompose, negating any of their mitigation potential. Park resilience is therefore highly important, as well as a low-cost, low-regret investment.

By first **conducting a vulnerability assessment** of parks and green spaces, the Parks Department and County staff can strategically determine potential weak areas, then develop a more specified plan and timeline for remediation.

Enhancing flood protection and drainage will ensure that the flora and root systems in parks and open spaces do not face extensive erosion damage from heavy rains. Additionally, exploring the use of rainwater harvesting will minimize water consumption while diverting rainwater from drainage systems to collection.

Finally, **using resilient native species** will ensure that parks are more resilient to harsh conditions, including invasive species such as bugs (which will thrive in warmer, more humid conditions). Public information campaigns about sustainable landscaping can expand this effort to residential homes with little effort or investment of County resources.

Action P.1 Implementation Considerations:

Lead Agency: Parks Department

• Timeline: 5 years

Cost: Low

Emissions Mitigation: Low

 Implementation Barriers: Coordinating department operations may present challenges.

 Equity, Resilience, and Community Co-Benefits: The protection and longevity of parks and green spaces will provide significant community co-benefits, enumerated in Action P.2 below. Improved access to and resilience of green spaces can improve mental and physical health of surrounding communities.



Action P.2:

Expand Green Spaces in DeKalb County

Creating an expansion plan for green spaces and urban tree canopy will be one of the most important tools in combatting the Urban Heat Island effect (UHI). The selection of spaces which should be expanded or created will be contingent upon prioritization of Parks Department resources. Prioritization of Parks Department resources ought to include comprehensive community engagement and analysis of key variables, such as equitable access to parks, targeted canopy coverage, the health impact of urban density and the built environment, and several other possible factors of community vulnerability. The investment will be mid- to long-term, but very worthwhile for both mitigation and adaptation benefits.

Action P.2 Implementation Considerations:

Lead Agency: Parks Department

Timeline: 10-20 years

Cost: Medium

Emissions Mitigation: Low

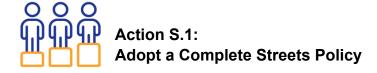
 Implementation Barriers: Identifying where to expand parks may be a lengthy process.

Equity, Resilience, and Community Co-Benefits: Urban areas
with more tree coverage generally see lower temperatures during
peak heat indices than areas without adequate canopy coverage.
Additionally, parks and green spaces have extensively been shown
to have high mental and physical health benefits for all populations.
Additionally, low-income communities in densely populated urban
areas have generally been shown to have far less access to green
spaces (as well as be more impacted by UHIs); expansion of green
spaces to these communities should be prioritized to improve
health equity.

Streets

The County's direct control over much of the physical environment in Dekalb County is best expressed in the rights of way (ROW) the County owns for residential and urban streets and the roads and highways that connect activity centers. While the County does not directly control the choices that individuals make for personal transportation, the County does have significant influence over the infrastructure that influences individual decisions. While transitioning to ZEVs is an important part of mitigating transportation sector emissions, an equally essential component is helping residents transition away from private on-road vehicles (including cars and trucks) for short trips, especially within the County. By providing useful, convenient, direct, predictable, and safe off-road infrastructure for the growing variety of personal mobility options – including walking and running, bicycling and scooters, and electric micromobility devices – the County can make major strides towards accomplishing this goal and significantly ease the transition for its residents. Taking these actions early can enable lower household costs for car payments and fuel, and reduced congestion, air pollution, noise, and other harms associated with cars and trucks.

Another important role the County plays in exercising its control over street ROWs is providing space for the development and protection of tree canopy. The County has substantial canopy coverage, but development, poor planting practices, and climate change are ever-present threats to this important green infrastructure.



The County Comprehensive Plan recommends the adoption of a Complete Streets Policy, and this recommendation is reiterated here. By implementing the recommended Complete Streets policy, the County will make progress towards enabling County residents to safely and conveniently move among and around the County's major activity centers without the need for a personal vehicle. The policy would revise the Code of Ordinances to include improved design guidance/requirements and encourage local, regional, and state agencies to incorporate the policy into any road projects they lead in the County. Critically, the proposed Complete Streets Policy in the Comprehensive Plan identifies exceptions for the inclusion of protected active transportation lanes on County roads, and these exceptions include broad language about "probable need/probable use," especially relative to cost.

It is essential that the County implements this Policy in such a way as to encourage a much greater share of non-motor vehicle transportation; thus evaluation of "need" and "probable use" should not be backward-looking, but forward-looking measures based on a coherent vision for Complete Streets. The risk of using backward-looking metrics (e.g., historical use data) is that only a fragmented patchwork of active transportation infrastructure will be completed, depriving the County's residents of a true alternative network for non-motor vehicles.

Action S.1 Implementation Considerations:

- Lead Agency: Planning and Sustainability, with significant support from the Department of Public Works
- Timeline: 5 years
- Cost: Medium
- Cost: Medium; planning efforts must address a wide variety of road types
- Emissions Mitigation: High; limited primarily to community emissions
- Implementation Barriers: Engineering, jurisdictional boundaries, possible scattered community opposition
- Equity, Resilience, and Community Co-Benefits: Very high community benefits, significant new recreational asset, improved quality of living, reduced transportation costs, reduced air pollution, congestion, etc.



Action S.2: Incentives for Non-Road Commuters

Implement an incentive program for County employees who commute using alternative transportation methods instead of driving. The program could offer various incentives, such as subsidized public transportation passes, bike-sharing memberships, or rewards for carpooling. Federal law also allows for pre-tax commuter benefits, including up to \$315/month for qualified alternative transportation methods (including vanpooling, public transit, and even bicycling). To promote carpooling, designated or subsidized parking spaces closer to the workplace entrance could be reserved for employees who choose to share rides. Secure storage facilities (appropriate for a breadth of micromobility solutions from bicycles to scooters, ebikes, and

unicycles) can help prevent theft, which is a common problem for micromobility users. The County could organize periodic challenges or competitions to encourage employees to embrace alternative commuting options, with prizes ranging from gift cards to extra paid time off. By fostering a culture that values and rewards sustainable transportation choices, the County not only contributes to environmental conservation efforts but also promotes employee well-being and community engagement.

Action S.2 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department
- Timeline: 5 years (immediate)
- Cost: Medium
- Emissions Mitigation: Very Low to Low; while Scope 3 emissions are not necessarily part of the County's goals, the cost to the County for these incentives would be very low relative to the mitigation impacts *and* benefits to employees.
- Implementation Barriers: Possible contracting issues
- Equity, Resilience, and Community Co-Benefits: Enables
 County employees to have greater choices in commuting options, including lower-cost options for low-income employees.



Action S.3:

Provide Incentives for EV Charging Station on Private

Through partnerships with developers, large commercial and residential landlords, and with institutional campuses, the county can significantly accelerate the growth of EV-enabling infrastructure. Partnerships could include incentives such as cost-sharing, tax incentives, zoning bonuses, or streamlined permitting processes to encourage developers to integrate charging stations into new commercial and residential developments. This approach not only spreads the financial burden but also taps into the expertise and resources of private developers, ensuring that charging stations are strategically located and readily accessible to EV owners across the County, and that residents and users of these buildings are made aware of the availability of charging infrastructure. This approach also fosters a symbiotic relationship wherein developers enhance the attractiveness of their properties while contributing to the county's sustainability goals and the wider transition towards electric mobility.

Action S.3 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department
- Timeline: 5 years (immediate)
- Cost: Medium
- Emissions Mitigation: Low; County emissions are unlikely to be significantly affected by the improved availability of EV charging infrastructure. Community emissions impacts may be higher (i.e., by enabling greater EV penetration, depending on the extent of incentives/scope of deployment.
- Implementation Barriers: Potential legal questions/complications depending on type of incentives to be employed; contract enforcement obligations.
- Equity, Resilience, and Community Co-Benefits: Significant community co-benefits if accelerated EV charger deployment is achieved; reduced costs/improved convenience for EV owners, reduced barriers to EV ownership.

Waste & Water



Action W.1:

Implement the Water and Wastewater Master Plan and Supporting

Improvement Plan

Implementation of the Dekalb County Water/Wastewater Master Plan will address numerous constraints on both water supply and wastewater removal that threaten to impair the system's efficiency and sustainability over the long term.

Action W.1 Implementation Considerations:

- Lead Agency: Watershed management
- Timeline: 10 years
- Cost: High
- Emissions Mitigation: N/A, not an emissions mitigation measure
- Implementation Barriers: Working across County departments to update SOPs
- Equity, Resilience, and Community Co-Benefits: Improved resilience is key benefit, ensuring the system can maintain water supply through the planning period and conducting gaps analyses to determine which communities are/ought to be most drastically impacted by the Plan.



Optimize Energy Efficiency of Advanced Wastewater Treatment Plants (AWWTPs)

Conduct energy audit at Snapfinger and Pole Bridge AWWTPs (to be conducted in collaboration with the Facilities Department executing **Action B.3**). Review processes, systems, and equipment for energy waste and efficiency gaps, identify outdated equipment (and replacement options), and evaluate plant processes to identify potential alternatives with energy (and emissions) savings potential. Establish process for recurring review every five years.

Historically, Pole Bridge AWWTP has used significantly more energy than Snapfinger or other WWTPs on a per-gallon basis of treated water; the district should identify if this is still the case, evaluate opportunities to improve energy efficiency, and prioritize capital improvements necessary to achieve these improvements.

Action W.2 Implementation Considerations:

- Lead Agency: Watershed management with support from Facilities Department
- Timeline: 5 10 years
- Cost: Medium, depending on scope of necessary upgrades
- Emissions Mitigation: Medium, the County's water system is a major source of emissions.
- Implementation Barriers: Engineering
- Equity, Resilience, and Community Co-Benefits: Cost savings from energy efficient systems can be redirected to improve wastewater and sanitation services to LIDAC communities.



Action W.3: Promote Water Use Efficiency

Conduct an information campaign to inform customers of the connection between water use and energy waste/GHG emissions to promote best practices and technologies for water use efficiency. Solutions for residential customers may include checking appliances and repairing leaks, installing low-flow shower heads or flow restrictors, only using appliances such as washing machines for full loads, replacing water-hungry lawns with drought-tolerant plants, and using mulch and other water-conservation gardening practices. Commercial customers may benefit from targeted water audits to identify and mitigate major water waste sinks.

Action W.3 Implementation Considerations:

Lead Agency: Watershed Management

• Timeline: 5 years

Cost: Low

Cost: Low, information campaign only

- Emissions Mitigation: Low, reduced water consumption will have a small impact on energy use across the water system
- Implementation Barriers: Communication and cross-departmental coordination to get buy-in from County, community members.
 Measuring information campaign effectiveness also poses challenges.
- Equity, Resilience, and Community Co-Benefits: Cost savings that will especially benefit low-income households; improved water conservation offers additional resilience to water scarcity.

Timeline

Present - 2030

- B.1 Adopt Enhanced Energy Efficiency Requirements for New and Renovated County Buildings
- B.2: Full-Electrification of Future County Buildings
- B.3: Begin Invest in 'No-Regrets' Efficiency Improvements in Existing County Buildings
- B.4: Create Energy Manager Role and Track Energy Use
- F.1: Fleet Efficiency Optimization
 - F.2: Begin Fleet Size and Use Reduction
- S.1: Adopt a Complete Streets Policy
- S.2: Provide Incentives for Non-Road Commuters
- S.3: Provide Incentives for EV Charging Station on Private Developments
- A.1: Evaluate and reduce non-essential airport fuel use.
- WW.3: Promote Water Use Efficiency
- P.1 Improve Park Resilience and Mitigation Potential
- W.1: Promote Waste Reduction in County Departments and Targeted Community Sectors
- W.3: Minimize Fugitive Landfill Gas (LFG) Emissions Across MSW Operations
- PH.1 Public Health Climate Risk Communication & Outreach
- PH.2 Public Health Risk Monitoring
- PH.3 Public Health Hazard Planning & Prevention

DeKalb Climate Action ScenariosDRAFT, not for distribution29 May 2024

- L.1: Integrate Carbon Mitigation into Unified Plan
- L.2: Restriction on HOA Covenants that Impede Emissions Mitigation

2030-2040

- B.3: Complete Investment in 'No-Regrets' Efficiency Improvements in Existing County Buildings
- F.2: Complete Fleet Size and Use Reduction
- A.2: Implement Future Planning Considerations for Airport
- WW.1: Implement the Water and Wastewater Master Plan and supporting Capital Improvement Plan
- WW.2: Optimize Energy Efficiency of Advanced Wastewater Treatment Plants (AWWTPs)
- P.2 Expand Green Spaces in DeKalb County
- W.2: Maximize Recycling of Concrete and Asphalt Aggregates in Public Works Projects
- PH.1 Continue to Re-Evaluate Public Health Risk Communication & Outreach Strategies

2040-2050

- B.5: Acquire 100% Renewable Electricity
- F.3: Complete Fleet Transition to Lower-Emissions and Zero-Emission Vehicles (ZEVs)
- PH.1 Continue to Re-Evaluate Public Health Risk Communication & Outreach Strategies

Scenario B: Emissions Mitigation

Scenario Goals

The objective of the Emissions Mitigation scenario is to optimize emissions mitigation, adaptation, and resilience measures with deep investments in decarbonizing all sectors of DeKalb County, as well as advancing reductions in community emissions with no delay. This includes early investment in, and adoption of, renewable energy technologies, efficiency measures, zero-emissions vehicles, and investments in sustainable infrastructure to enable transformative reductions in community emissions. In this scenario measures which focus on resilience, equity, and other auxiliary measures would come in a later timeframe.

Scenario B includes 'no regrets' actions, such as building efficiency measures that are expected to save the County money, as well as forward-looking planning and infrastructure to address community emissions from transportation, land use, and buildings emissions. This scenario has the highest mitigation potential at the most rapid rate of any other scenario; however, actions may not prioritize cost, equity, or community benefits the way others do. While this scenario does not consider cost as a major implementation barrier, all actions are considered 'reasonable' within the capacity of the County government to finance. It also includes many "low impact" mitigation options that taken together may achieve additional substantial emissions cuts.

Finally, the potential equity, community co-benefits, and/or community resilience impact is indicated for each action item throughout the scenario. Figures 1, 2, and 3 have been chosen as a digestible and consistent way to represent the possible equity value in each action: Figure 1 indicates the low-impact, Figure 2 indicates medium-impact, and Figure 3 indicates high-impact action items regarding community co-benefits and equity. This indication ought to be considered when prioritizing actions and strategies for implementation.





Figure 2 [above]
represents action items
with a potential for medium
community co-benefits,
resilience, and/or equity
impact.



Figure 3 [above] represents action items with a potential for high community co-benefits, resilience, and/or equity impact.

Actions

Airports

Emissions from the DeKalb-Peachtree Airport (PDK) fall into two categories – emissions from planes (specifically jet fuel), and emissions from building and airport operations. While emissions from jet fuel cannot be eliminated at this time (there is currently no readily available electric plane), they can be minimized. However, operations and building emissions can be brought as close to zero as possible. In the emissions mitigation scenario, the focus is on rapidly decarbonizing airport operations, airport building emissions (specific to the airport), and minimizing unnecessary emissions from aircraft. Larger, more impactful actions are prioritized, while smaller "auxiliary" actions are taken second.



Action A.1:

Airport Building and Ground Fleet Energy

In this scenario, energy is the priority – specifically large-scale, widespread transitions in energy use and sourcing. These efforts will be highly impactful, despite bearing a higher cost. The focus is on monitoring, efficiency, and renewable energy capacity.

Large-scale solar development on airport grounds will enable the majority of airport electricity to come from renewable solar, rather than fossil fuels. Additionally, any solar energy not used can be redistributed back to the main electric grid.

Full ground service equipment (GSE) transition to zero- or low-emissions vehicles will reduce emissions from ground service vehicles; however, electrifying the GSE fleet will require charging infrastructure as well as training of maintenance staff.

Energy consumption monitoring, including sub-metering for tenants, will allow for a close monitoring of energy use. This can be used to identify opportunities for efficiency improvements, as well as to measure progress.

Finally, **applying buildings efficiency technologies** (incl. lighting, envelope/windows, HVAC, and others) to airport buildings will improve energy efficiency throughout airport facilities.

Action A.1 Implementation Considerations:

Lead Agency: Airport, Facilities

Timeline: 10 years

Cost: High

Emissions Mitigation: High

 Implementation Barriers: GSE electrification capabilities are not yet widely available, nor are they particularly affordable.
 Additionally, the installation of widespread solar will be time-consuming and costly, while requiring extensive planning.

 Equity, Resilience, and Community Co-Benefits: Potential for moderate community benefits; additional electricity generated from solar power could be sold back to DeKalb County's power grid; health benefits associated with reduction of emissions.



Action A.2:

Aircraft Engine Use Reduction

Reducing non-essential aircraft engine/auxiliary power unit (APU) use on tarmac will reduce the emissions from engine fuel. Emissions reductions from this action will depend on current operations and usage.

Shortening the turnaround time for aircraft at the gate for aircraft will decrease the amount of time during which engines are running.

Additionally, **installing and/or maximizing the use of preconditioned air units** (if applicable at PDK) enables aircrafts to remain cool without running engines, reducing emissions from aircraft engines or APUs.

Action A.2 Implementation Considerations:

Lead Agency: Airport Operations

Timeline: 5 yearsCost: Medium to Low

Emissions Mitigation: Low to Medium, depending on current conditions

 Implementation Barriers: A high degree of workforce training and revamping of SOPs will be necessary to introduce the new policies.

 Equity, Resilience, and Community Co-Benefits: Limited community benefits include reduced noise and air pollution.



Action A.3: Future Planning & Resilience

Implementing efficiency and sustainability standards for future airport development, as with other county buildings, will allow the airport to rise to a model of high efficiency and preparedness for future climate scenarios. In addition to maximizing efficiency within the airport itself, resilience planning will be paramount. This includes tarmacs that can handle high heat and extreme weather, contingency plans for crews working in high heat and extreme weather, and resilient buildings and structures.

Action A.3 Implementation Considerations:

Lead Agency: Airport, Facilities

Timeline: 10-20 years

Cost: Planning – Low. Implementation – High.

Emissions Mitigation: Medium to Low

- Implementation Barriers: Determining which standard to use for building efficiency (LEED, GBI, etc.) requires extensive research and consultation with the certifying body. All modifications suggested are time consuming and costly.
- Equity, Resilience, and Community Co-Benefits: Increased
 airport resilience leads to increased reliability in air travel for
 community members and those using the airport. Increased
 efficiency and sustainability standards will improve things such as
 air pollutant exposure for airport staff and frequent travelers, as
 well as result in co-benefits for nearby residents and communities
 bearing the brunt of airport emissions and pollutants.

Buildings

In the Emissions Mitigation Scenario, actions are prioritized that have the greatest potential to reduce County emissions in the long term. The scenario achieves most progress towards emissions mitigation goals with...

- Transformative changes to the way buildings are built within the county, emphasizing
 energy efficiency such that future buildings will require dramatically less energy to heat,
 cool, light, and service.
- Integration with green infrastructure measures to improve the resilience of not just an individual building, but also its environment, creating feedbacks that reduce long-term energy demands.
- Cohesive planning in parallel with County transportation infrastructure.

Buildings actions are designated to be led by the Facilities Department, with additional input and leadership from Departments that own and operate sizeable facilities.

The Emissions Mitigation Scenario anticipates a future where County facilities consume dramatically less energy than they do now to achieve the same or better levels of comfort, safety, and performance. These achievements are attainable with significant investments in new efficiency technologies over the coming 10 years. The approach includes the adoption of new guidelines for building design, a process for retrocommissioning and rehabilitation, and the creation of a new Division for continuous improvement. The Division will be charged with tracking energy use, identifying future efficiency opportunities, and implementing solutions across the County's facilities.

This scenario also contemplates the DeKalb County Facilities Department becoming experts in building efficiency practices. This role will provide the community with a valuable resource by locating efficiency technology experts within the County Government where knowledge can be shared with private and institutional sector partners.



Action B.1: Adopt Enhanced Energy Efficiency Requirements for New County Buildings

Passive building standards produced by Phius are the gold standard for building energy efficiency and emissions mitigation. The standards include residential single family, multifamily, and commercial building standards for achieving net zero energy use and emissions. Phius standards focus on a holistic approach to building sector emissions mitigation - balancing both the cost and embedded emissions of efficiency interventions against the availability of zero-emissions clean energy sources. Phius standards also take into account the region and climate of a building, enabling building owners to adopt the standard without the risk of over- or under-estimating the value of upfront investments.

Phius standards achieve extreme energy efficiency improvements through a focus on isolating the interior of structures from the envelope, minimizing "thermal bridges" that allow thermal energy to escape. Because of the efficiency achieved using these methods, utility costs can often be reduced by downsizing the HVAC equipment. Phius claims that up-front cost premiums can be only 1-3% higher than EnergySTAR standards, with significant long-term benefits in terms of energy cost savings.

This action includes the County adopting PHIUS+ CORE COMM for all new County buildings. the highest-achieving standard for commercial building energy efficiency. An alternative standard (PHIUS+ ZERO COMM) includes the same efficiency measures but also includes specifications for the use of renewable energy generation - this standard is not selected because Action B.4 addresses the County's acquisition of 100% renewable energy.

An important component of this action is training staff and contractors in the adopted standards. New standards include the specification of certified efficiency products as well as installation methods to mitigate thermal bridging that are as if not more important than the efficiency technologies themselves. Appropriate training is an essential component of standards adoption to ensure that the value of County investments is fully realized.

Action B.1 Implementation Considerations:

- Lead Agency: Facilities Department, Facilities Transformation Division
- Timeline: 5 years
- Cost: Medium (assuming stated cost premium, risk of higher costs)
- Implementation Barriers: Workforce training and fiscal constraints
- Emissions Mitigation: N/A; supporting measure, avoided emissions are accounted for in B.1 and B.2; without new code and/or retrofits, the Division would be expected to mitigate emissions at the 'Medium' level due to identification and mitigation of sources of energy waste in County facilities.
- Equity, Resilience, and Community Co-Benefits: Technical
 workforce development (i.e., creation of local skilled workforce by
 stimulating demand for advanced building efficiency technologies)
 is expected to support advanced energy efficiency requirements in
 the private and community buildings sectors. Improved efficiency
 requirements reduce peak energy demand requirements for county
 facilities and improve building resilience to power outages (e.g.,
 improved insulation, daylighting). Cost savings from energy
 efficient systems can be redirected through County budgets to
 better invest in and/or serve low-income or disadvantaged (LIDAC)
 communities.

<u>ÃÃ</u>

Action B.2:

Retrofit Existing Buildings to High Energy Efficiency Standards

Passive building standards are also relevant to existing buildings, and this action recommends a 10-year program for retrofitting the County's facilities to these high standards. Because the County already operates a significant stock of buildings, the adoption and implementation of retrofit standards is likely to be more important for energy efficiency improvements in the County than new building standards.

- Retrofit Standards: This action recommends the adoption of Phius Core REVIVE standards for existing commercial buildings. These standards identify best practices for balancing the cost, embodied emissions, and energy efficiency improvements associated with deep building energy retrofits. The standards seek to implement as many passive building principles as possible within the framework of adapting these practices to the existing building. Similarly to the new building standards, Phius Core REVIVE emphasizes the installation of certified windows, doors, insulation systems, and installation methods designed to minimize thermal bridging between the interior and exterior.
- Training and Workforce Development: An essential step in implementing this action is
 provision of training for Facilities Department staff and key contractors. Training for
 County staff should be provided to ensure that the Department's contracts are executed
 consistently with efficiency goals. Additional efforts to provide training or attract
 conferences to promote local workforce development should be considered.

- **Retrofit prioritization:** Prioritize building retrofits by identifying the most energy wasteful buildings in the County's building stock and implementing these projects first; additional considerations to factor into retrofit prioritization include the size of the project and qualifications of available workforce.
- Retrofit implementation: Stage retrofits of County facilities over a reasonable but actionable timeline; ensure contracts are executed in compliance with Phius standards and use verification practices to ensure that planned efficiency goals are achieved.

Action B.2 Implementation Considerations:

- Lead Agency: Facilities Department, Facilities Transformation Division
- Timeline: 5 years (immediate)
- Cost: Very High; retrofits are anticipated to be the largest expense in this scenario but will address the largest share of emissions.
- Implementation Barriers: Workforce barriers are likely to be significant, possible barriers associated with supply chain and supplies of Phius-certified products.
- Emissions Mitigation: Very High; buildings sector emissions are the County's largest, and Phius standards are expected to reduce building energy use by 30-50%.
- Equity, Resilience, and Community Co-Benefits: Equity,
 Resilience, and Community Co-Benefits: Potential for significant
 cost savings that can benefit residents and businesses as savings
 can be redirected through County budget to better serve LIDAC
 communities; promotion of local workforce development and
 training; improves resilience of aging building stock utilized by
 community in emergency scenarios.



Action B.3: Create New Division for Facilities Transformation

This action proposes the establishment of a Facilities Transformation Division within the Department of Facilities. This new Division would adopt the roles necessary for implementing many of the actions identified in this scenario. The Division would lead adoption of standards, staff training, implementation of efficiency improvements, monitoring and analysis of energy use, and coordination of County and intergovernmental resources on energy efficiency and emissions mitigation.

- Standards adoption: PHIUS+ standards are designed to be used by engineers and construction managers, however intergovernmental coordination of design and retrofit projects will require management from the new Division.
- **Training:** The Division should serve as a repository of emissions mitigation and energy efficiency knowledge within the County. The Division should seek to acquire expertise by engaging with PHIUS trainings, as well as relevant conferences and similar efficiency standards (e.g., EnergySTAR, IECC, etc.).
- Implementation and monitoring: The Division's staff will be responsible for overseeing the selection, prioritization, management, and validation of standards compliance for both new construction and building retrofit projects. The Division would also be

responsible for selecting contractors and managing contracts to ensure quality workmanship. Because building efficiency measures rely on both novel technologies and appropriately executed installation methods, one of the Division's most important roles will be ensuring that any retrofits or new construction work done to improve energy efficiency is completed in accordance with vendor specifications and the relevant code/standard.

Data collection and analysis: The County's lack of data on energy use (including
insufficient differentiation on how electricity is used, and no data on fuel use for building
energy) prevents quantification of estimates of action emissions impacts. The Division
would collaborate across the County to ensure that relevant agencies have access to
accurate and timely energy and emissions data.

Action B.3 Implementation Considerations:

- Lead Agency: Facilities Department, Facilities Transformation Division
- Timeline: 5 years (immediate)
- Cost: High (includes onboarding new staff)
- Implementation Barriers: Workforce training and support, as well as fiscal constraints.
- Emissions Mitigation: N/A; supporting measure, avoided emissions are accounted for in B.1 and B.2; without new code and/or retrofits, the Division would be expected to mitigate emissions at the 'Medium' level due to identification and mitigation of sources of energy waste in County facilities.
- Equity, Resilience, and Community Co-Benefits: Technical
 workforce development (i.e., creation of local skilled workforce by
 stimulating demand for advanced building efficiency technologies)
 is expected to support advanced energy efficiency requirements in
 the private and community buildings sectors; improved efficiency
 requirements reduce peak energy demand requirements for county
 facilities and improve building resilience to power outages (e.g.,
 improved insulation, daylighting).



Action B.4: Acquire 100% Renewable Electricity through Multiple Approaches

Renewable energy can be purchased from suppliers who produce energy with 100% carbon-free resources (including solar PV, wind, hydro, and nuclear power). Currently, Georgia Power (GP) offers at least two different ways to subscribe to renewable energy via price adders on the traditional tariff. Procurement of renewable energy through GP is an attractive option because relying on the utility ensures that energy delivery will remain consistent and cost risks are mitigated. GP's current offerings for carbon-free electricity are contingent on the tariff class of the ratepayer, thus some additional negotiations may be necessary if the County utilizes a different tariff type.

DeKalb County may also consider development of local renewable energy resources, including rooftop, parking shed, greenfield, and brownfield solar PV installations (see **Action MSW.5**). By building a collection of local renewable energy generation facilities (called distributed energy resources, DERs), DeKalb County can ensure control over the resource, including certainty about long-term costs, energy availability during periods of peak demand, and if desired, the ability to isolate and 'island' parts of the grid during outages. These installations will not affect the County's emissions mitigation progress, and the selection of DER sites will primarily provide community development and resilience co-benefits, thus they are deprioritized relative to the goal of acquiring carbon-free electricity.

Different from other scenarios, the timeline for renewable energy procurement is accelerated in the Emissions Mitigation scenario, with a recommendation for immediate adoption of GP's offerings for renewable energy credits sufficient to meet the County's demand. This acquisition should be completed over the next five years, with planning for County DERs to roll out over the following decades.

Action B.4 Implementation Considerations:

- Lead Agency: Facilities Department, support from Depts. with significant facilities (e.g., Airport, WWTPs, Landfill, etc.)
- Timeline: 5 years (immediate), depending on GP's capacity to supply RECs under current tariffs; 20+ years for DER development, with a focus on sites that are appropriate for maximizing community and resilience co-benefits
- Cost: Medium to High
- Emissions Mitigation: 100% of facility electricity emissions
- Implementation Barriers: Finding adequate supply and setting up the electric grid to import renewable energy from outside sources.
- Equity, Resilience, and Community Co-Benefits: Because
 utility-supplied renewable energy is supplied by the distribution
 grid, it has no resilience risk or benefit compared to traditional
 grid-supplied electricity; community and equity co-benefits may
 potentially be achieved through a small reduction in (non-GHG) air
 pollution associated with electricity production near DeKalb County,
 however the expected impact of the County's actions alone is likely
 very small.

Fleets

While DeKalb County may have several fuel-efficient vehicles as part of its fleet, traditional gas vehicles still contribute to emissions. To pursue an aggressive path towards decarbonization, the County must fully convert its fleet to electric vehicles (EVs) and implement adequate charging infrastructure. This effort will require County departments working in concert with each other, which is why the establishment and funding of a Fleet Electrification Task Force to coordinate the changes.

Action F.1: Full Fleet Electrification

The top priority in reducing emissions from county fleet vehicles should be full electrification of County fleet vehicles on an accelerated timeline. Fleet vehicles should be replaced as soon as possible, with the Facilities Fleet Division working closely with Purchasing and all departments which use fleet vehicles to identify an adequate replacement.

By establishing a Fleet Electrification Task Force, representatives from all relevant departments can work together to ensure a smooth transition to a fully electrified county fleet. This will include identification and purchasing of adequate replacement vehicles (working closely with the departments currently using vehicles), oversight of training the fleet maintenance division, development of charging infrastructure (including maintenance), and other questions of implementation.

Full conversion of the fleet to Plug-In Electric Vehicles (EVs) will remove gas vehicles from County use, thereby eliminating emissions from County vehicles. The Task Force should prioritize an affordable, durable, and otherwise suitable replacement, working closely with all departments to identify which ones need vehicles, and in what capacity. While an immediate replacement would be the quickest way by which to reduce emissions from vehicles, there are other options. A phased approach, in which retiring vehicles are replaced by EVs, would be slower yet more cost-effective (timeline depends on the current fleet age and needs).

Action F.1 Implementation Considerations:

Lead Agency: Facilities

Timeline: 10 years

Cost: High

Emissions Mitigation: High

- Implementation Barriers: Barriers are numerous, cost being the highest. Charging infrastructure is another, as discussed below.
 Finally, replacement of current fleet vehicles renders them stranded assets; resale potential should be explored to minimize this issue.
- Equity, Resilience, and Community Co-Benefits: Reduced air
 pollution from county vehicles may have positive impacts on
 community health. Prioritization of electrifying routes and vehicles
 servicing vulnerable communities can have a higher impact on
 equity. Cost savings from fuel prices can be redirected through
 County budget to better serve LIDAC communities. Community
 benefits from charging infrastructure are discussed below in Action
 F.2.



Action F.2: Infrastructure and Operations Expansion

Full County fleet electrification will require an extensive shift in infrastructure, fleet SOPs, maintenance capabilities, and operations.

Expanding charging infrastructure will be the first step in ensuring that the electric fleet is ready to function for the county's needs. An operations and route assessment will help to best understand where fleets will most frequently need to be recharged. Additionally, since charging takes more time than filling up gas at the pump, this should be factored into regular County fleet operations. Notably, if charging infrastructure were open to the public, it would be possible that the collected pay rates from charging could offset the cost of charging infrastructure in the long term. Conversely, lowering the cost of charging would make it more accessible to residents.

Evaluating and re-vamping current fleet SOPs will be required to ensure that the County has adequate maintenance training and staff to support an electric vehicle fleet, and that staff using fleet vehicles are prepared to switch.

Action F.2: Implementation Considerations:

Lead Agency: Facilities (Fleet Maintenance)

Timeline: 5 yearsCost: Medium

- Emissions Mitigation: Low (bulk of emissions reduction comes from fleet electrification)
- Implementation Barriers: Workforce training can present challenges during a fleet transition; added charging time for EVs may temporarily cause disruptions in fleet use.
- Equity, Resilience, and Community Co-Benefits: Charging
 infrastructure, if made accessible to the public, will improve public
 access to EV charging and reduce barriers to EV ownership.

 Prioritization of communities with high volumes of commuters and
 car owners, as well as those who face systemic barriers to car
 ownership, ought to be considered to maximize the community
 impact of this strategy.

Land Use



Action L.1: Integrate Carbon Mitigation into Unified Plan

One of the County's most potent tools for mitigation of Community emissions is the County's control over how and where to site buildings, roads, infrastructure. By controlling factors like the density and design of buildings, the proximity of buildings to one another, and the infrastructure that connects them, the Unified Plan (including both the Comprehensive Transportation Plan and the Comprehensive Land Use Plan) has a significant effect on the future of both building and transportation emissions in the County.

In order to fully integrate carbon mitigation into the Comprehensive Plan, the Department of Planning and Sustainability should focus on the following principles:

- Multi-unit buildings are more efficient to heat and cool, leading to reduced energy-related emissions, as well as reduced peak demand and lower risk of power outages during extreme heat events.
- Neighborhoods with closer proximity between buildings, and especially with close commercial districts, reduce the number and length of private vehicle trips; fewer and shorter trips reduce fuel use, transportation emissions, and associated community impacts.
- Housing abundance reduces housing costs, and reduced reliance on private cars and trucks reduce household transportation costs; together these factors improve the resilience of the community to the future increases in the cost of energy and associated energy burden, especially in low-income communities.

These principles are already reflected in part in the 2050 Unified Plan, however in order to facilitate the County's transition to net-zero emissions at the lowest possible cost additional actions are recommended. This scenario recommends the following actions or revisions to the Unified Plan:

- Implement the Unified Plan's recommendations for sustainable zoning, but increase the emphasis and application of zoning and code requirements that reduces energy-related emissions from vehicle miles traveled (VMTs); deemphasize zoning that preserves or exacerbates VMTs.
- Explore all options to expand the application of zoning which allows energy efficient multi-family developments.
- Create compact, mixed-use developments which decrease reliance on single-passenger vehicles, per the Unified Plan's statements in principle that new developments should focus on existing activity centers, locations near transit stations, and high-capacity corridors.
- Implement the Unified Plan's small area plans (SAPs), but revise SAPs that fail to achieve significant transportation and land-use emissions mitigation; ensure SAPs have robust internal active transportation networks; SAPs designed around highway corridors without alternative access should be reimagined with active transportation backbones, crossings, and connections to surrounding communities; SAPs that rely excessively on highway/arterial corridors should be deprioritized for new development over SAPs with potential to mitigate VMTs.
- Explore broad-based zoning density bonuses with different approaches in different zones; e.g., auxiliary dwelling units (ADUs) in single-family household neighborhoods, higher-intensity zoning can be similarly upzoned (either in terms of units per parcel, FAR/height limits, etc.).
- Use zoning bonuses to encourage low-emissions practices, including high density development in transit-connected activity centers.

Action L.1 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department
- Timeline: 5 years (next Unified Plan update)
- Cost: Low to Medium (cost of analysis and development)
- Emissions Mitigation: High (primarily community emissions)
- Implementation Barriers: Primarily political
- Equity, Resilience, and Community Co-Benefits: Increasing zoning density, increasing the housing stock, and reducing the County's reliance on private vehicles for transportation will have significant co-benefits for communities, primarily associated with reduced household expenditures on housing, energy, and transportation; additional resilience co-benefits are associated with lower anticipated peak electricity demand, reduced air pollution, reduced noise, and improved street safety.



Microgrids – collections of buildings that are served by their own electricity generation and distribution systems – are an effective tool for improving the resilience of electric supply to external disruption. 'Islandable' microgrids can automatically isolate themselves from the electric grid if power supply is disrupted or degraded. These features are attractive for buildings, campuses, or even neighborhoods where the resilience of electric supply is very important. Critical facilities (e.g., hospitals, police/fire stations, schools that serve as emergency shelters, etc.) are excellent candidates for microgrids, as are multi-building campuses (e.g., corporate, academic, etc.).

The County can provide incentives (including zoning incentives) to promote the deployment microgrids that use zero emissions DERs (i.e., solar or wind) for new developments, including zoning bonuses for density/height/etc. The County can also facilitate deployment by providing explicit zoning permission for specific types of microgrids.

Microgrids are not inherently solutions to the County's GHG emissions, however deployment of microgrids with solar or wind DERs will shift electricity production away from fossil fuel sources to renewables.

Action L.2 Implementation Considerations:

- Lead Agency: Planning and Sustainability
- Timeline: 5 years
- Cost: Low, zoning changes only
- Emissions Mitigation: Low, community emissions only
- Implementation Barriers: Technical evaluations
- Equity, Resilience, and Community Co-Benefits: Microgrids
 provide improved resilience for communities they serve, reducing
 the impacts of power outages, especially during heat emergencies.
 Microgrids that serve critical facilities benefit the entire community.
 Equitable implementation will provide incentives to underserved
 neighborhoods and prioritize critical facilities in vulnerable
 communities.



Action L.3:

Restriction on HOA Covenants that Impede Emissions Mitigation

In some jurisdictions, homeowners associations (HOAs) have included contractual language precluding the use of onsite renewable DERs such as rooftop solar panels or other important infrastructure such as outdoor EV charging systems. The County should proactively restrict such measures to further promote solar use and other emissions-mitigating efforts by homeowners.

Action L.3 Implementation Considerations:

Lead Agency: Planning and Sustainability

Timeline: 5 years

Cost: Low, zoning changes only

• Emissions Mitigation: Medium, community emissions only

 Implementation Barriers: Resistance from HOAs and community members; zoning restrictions and legislative support.

 Equity, Resilience, and Community Co-Benefits: Increased deployment of residential and commercial DERs across the County facilitates the transition to zero-carbon energy as well as improving the resilience of the local electricity grid; additionally reduced air pollution; improved access to renewables among residents.



Action L.4: Minimum Tree Canopy

Amend the tree protection ordinance to eliminate or restrict exemptions in areas with insufficient canopy coverage and/or impose tree replacement requirements. Following development of the UHI Mitigation Plan (**Action S.7**) and using input from the tree canopy records (**Action S.9**), areas designated UHI 'hot spots' or with insufficient canopy coverage should be elected for additional restrictions on tree removal permits. Additional restrictions could impose tighter requirements (i.e., adjust the five-tree threshold downward to two trees) or impose alternative compliance pathways (i.e., tree replacement requirements).

Action L.4 Implementation Considerations:

Lead Agency: Planning and Sustainability

Timeline: 5 years

Cost: Low

Emissions Mitigation: Low

 Implementation Barriers: Identification of under-covered areas, ongoing tree maintenance and associated labor.

 Equity, Resilience, and Community Co-Benefits: The effects of extreme heat have a significant negative impact on vulnerable populations including children, the elderly, residents without healthcare. Tree canopy can improve community resilience to extreme heat to alleviate some of the negative impacts. Additional benefits include improved stormwater management, and improved air quality.

Municipal Solid Waste (MSW)

Action MSW.1:

Extend Recycling Collection and Enhance Waste Reduction Efforts in

Departments and Community MSW

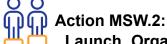
The Sanitation Division can promote several practices across both County operations and the Community that can help reduce emissions from the County landfills, sanitation operations, and public works projects. By extending recycling collection to all County Sanitation customers, landfilling volume can be significantly reduced. Furthermore public-information campaigns to promote waste reduction, reuse, and recycling should be launched to target both residential and commercial customers.

Potential waste-reduction campaigns could include:

- Fliers, websites, and social media outreach can promote the County's recycling program, including advertising the program's contributions to County emissions mitigation goals.
- Partnerships for waste diversion can include promotion of local appliance repair companies, scrap metal recyclers, and electronics recyclers.
- Promotion of composting at the residential or institutional scale can reduce the organic waste contributions to landfill emissions by encouraging families, schools, hospitals, or other major producers of organic wastes to use compost onsite.
- Advertising of groups or mailing lists for donations of unwanted household items (e.g., 'Freecycle,' 'Buy Nothing,' etc.) and/or second-hand stores that accept donations.

Action MSW. 1 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division, with support from Roads and Drainage Division and Planning and Sustainability Department
- Timeline: 5 years
- Cost: Low; information campaign only
- Emissions Mitigation: Low to Medium
- Implementation Barriers: Community resistance, improper recycling methods, increased cost in labor, and operational challenges associated with updated SOPS.
- Equity, Resilience, and Community Co-Benefits: Waste reducing and donation-based programs can benefit low-income and vulnerable communities by minimizing expenditures on durable goods.



Launch Organic Waste Collection and Composting for All Sanitation Customers

The anaerobic decomposition of organic wastes in the MSW stream is a major source of methane emissions. Methane is an especially potent GHG, 25x more damaging than carbon dioxide. Whereas landfilling of organic wastes combined with LFG collection and use can capture some of this methane, a much more effective model demonstrated by a growing number of MSW collection systems around the world is the use of municipal composting to avoid the formation of methane altogether.

Composting of municipal organic wastes involves managed decomposition to ensure that waste only produces carbon dioxide as a byproduct rather than methane. Because composting achieves aerobic decomposition, the process removes the largest source of LFG, significantly mitigating landfill emissions.

Expanding municipal waste collection to include compost would require an expansion of the County's existing composting facility at the Seminole Rd. Landfill, potentially even requiring a new facility. Additionally, compost would require collection and management of an additional waste stream, which can add to the cost of MSW operations. However, the diversion of organic wastes into composting will reduce the volume of waste that must be landfilled, offsetting costs somewhat.

Action MSW.2 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division
- Timeline: 10 years
- Cost: Medium to High, new costs associated with expanding collection service (including trucks and labor), expanding composting facility, and communicating new program to residents; expected cost savings with reduced volume of MSW and landfilling.
- Emissions Mitigation: High, organic waste decomposition is the largest source of LFG
- Implementation Barriers: Significant barriers associated with community adoption of composting, however jurisdictions that have implemented it have seen success; workforce barriers associated with expanding composting operations
- Equity, Resilience, and Community Co-Benefits: A significant co-benefit of expanded composting operations is the increased production of compost for soil conditioning, reduced emissions of LFGs, which in turn improves local air quality for residents and nearby communities.



MSW.3:

Maximize Recycling of Concrete and Asphalt Aggregates in Public Works Projects

DeKalb County has taken important statutory steps to allow the use of recycled concrete aggregates in road construction (eliminating the need for emissions-intensive virgin materials), and the Roads and Drainage Division should seek to utilize recycled concrete aggregates for road foundations wherever feasible. Similarly, recycled asphalt products are available within the metro Atlanta region and should be used whenever feasible to reduce lifecycle emissions associated with road paving.

Action MSW.3 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division, with support from Roads and Drainage Division and Planning and Sustainability Department
- Timeline: 10 years
 Cost: Low to Medium
- Emissions Mitigation: Low to Medium
- Implementation Barriers: Recycled aggregates must be clean of impurities.
- Equity, Resilience, and Community Co-Benefits: Limited additional benefits; reduction in air pollution associated with lifecycle emissions.



MSW.4:

Minimize Fugitive Landfill Gas (LFG) Emissions Across MSW Operations

Because anaerobic decomposition of organic wastes in MSW streams is a major source of methane emissions (a GHG 25x more potent than CO2), the County should review its MSW collection, carting, and landfilling operations to ensure that fugitive methane emissions are avoided wherever possible. While significant actions have already been taken to control LFG emissions (e.g., LFG collection and waste-to-energy facility at the Seminole Rd. landfill), the Sanitation Division should establish a program of recurring top-to-bottom reviews (e.g., aligned with Comprehensive Plan cycles) to monitor, track, verify, and mitigate potential LFG leaks at all stages of the Sanitation Division's work.

A review could consist of a systematic identification of opportunities for LFG leakage (e.g., during carting, at various stages of landfilling, and from LFG collection, cleaning, pressurization, and distribution pipelines), followed by targeted monitoring using both portable and fixed optical gas imaging (OGI) and electromechanical/spectrometry sensors. Opportunities to shorten the residence time of organic wastes in waste collection trucks and in other anaerobic holding piles may be available. Potential leaks in LFG collection and transportation, as well as LFG processing operations should also be addressed The purpose of each review will be to identify and mitigate any existing leaks, as well as provide an opportunity to strategize how to further reduce methane leaks.

A more intensive approach to this action could include the initiation of an internal Leak Detection and Repair (LDAR) program within the Sanitation Division, aligned with an annual LDAR report. Best practices for LDAR programs are published by the U.S. Environmental Protection Agency.

Action MSW.4 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division
- Timeline: 5 years
- Cost: Low
- Emissions Mitigation: Low to Medium, depending on extent of fugitive emissions.
- Implementation Barriers: Labor and workforce development; potential technical support may be available from U.S. EPA or Georgia EPD.
- Equity, Resilience, and Community Co-Benefits: Methane leaks are primarily a climate hazard with few immediate impacts on communities, however LFG leaks may also include volatile gases with potential nuisance or health impacts on communities; mitigating LFG leaks will benefit communities near major LFG sources (predominantly the Seminole Rd. Landfill).



MSW.5:

Onsite Solar Generation at Seminole Rd. Landfill

The Seminole Rd. Landfill site features ongoing landfill operations as well as significant areas of closed landfills (collectively Phase 1, 2, and 2A). The closed landfill areas offer an opportunity to develop county-owned solar generation on a brownfield site with no alternative uses in the midto long-term. Additionally, federal tax credits make energy development on the site particularly attractive. Based on area alone, the Phase 2 area could theoretically host a solar PV system with 60MW of generating capacity with direct access to the existing GP transmission facilities onsite. A system of this size could generate upwards of 80,000 MWh/year of zero-carbon energy, offsetting a significant amount of the County's existing electricity demand.

Action MSW.5 Implementation Considerations:

- Lead Agency: Planning and Sustainability and Dept. of Public Works, Sanitation Division
- Timeline: 10 years
- Cost: Very High (~\$63 million CAPEX for a 60MW system), federal credits may significantly reduce the cost by upwards of 50%.
- Emissions Mitigation: Very high, such a system would offset the majority of the County's current annual demand.
- Implementation Barriers: Financing and contracting barriers, technical barriers include use of ballast foundations.
- Equity, Resilience, and Community Co-Benefits: Additional electricity generated from solar power could be sold back to DeKalb County's power grid.
- Equity, Resilience, and Community Co-Benefits:



MSW.6:

Promote Large-Scale Waste Diversion through a County-Managed Donations

Portal

Establish a program for donations of large volumes of useful materials that would otherwise be disposed of through a County-managed portal. The portal would enable corporations and institutions to list surplus material that would otherwise be landfilled for collection by interested parties. For example, New York City operates DonateNYC, a program that facilitates donations to qualified nonprofits. The program enables donors to dispose of unwanted surprise material while also benefiting from tax deductible donations and reducing the volume that the Sanitation department must cart to a landfill. Evaluate possibility of County accepting donations enabling greater access to tax benefits for diverting waste.

Action MSW.6 Implementation Considerations:

- Lead Agency: Planning and Sustainability and Department of Public Works, Sanitation Division
- Timeline: 5 years
- Cost: Low
- Emissions Mitigation: Low to Medium, depending on program success.
- Implementation Barriers: Administrative, operating a website at minimum; informational, promotion of program will be necessary.
- Equity, Resilience, and Community Co-Benefits: Reduced carting and landfilling of waste, reduced air pollution and noise, reduced LFG emissions; facilitation of donations for nonprofits.

Parks & Agriculture

Parks are inherently a low- or zero-emissions sector. Most emissions from the parks sector come from park buildings or fleets, which are already covered in their respective sections. Rather than "decarbonizing" the remaining components of the parks sector, we aim to maximize the emissions mitigation potential of green spaces by expanding them, improving their care and maintenance, and ensuring their sustainability and resilience.



Action P.1:

Expand Green Spaces, Urban Tree Cover in DeKalb County

Creating an expansion plan for green spaces and urban tree canopy will be one of the most important tools in combatting the Urban Heat Island effect (UHI). The selection of spaces which should be expanded or created will be a question of how to prioritize Parks Department resources. This decision should prioritize communities facing disproportionate barriers to accessible green spaces, such as lack of access to parks, insufficient tree cover, characteristics of urban density and the built environment, and several other possible barriers to access. The investment will be mid- to long-term, but very worthwhile for both mitigation and adaptation benefits.

Action P.1 Implementation Considerations:

Lead Agency: Parks Department

Timeline: 5-10 years

Cost: Medium

Emissions Mitigation: Low

 Implementation Barriers: Identifying where to expand parks may be a cumbersome process.

Equity, Resilience, and Community Co-Benefits: This is a
measure with very high community, equity, and resilience
co-benefits. Urban areas with more tree cover are generally lower
temperatures during peak times than areas without adequate tree
canopy. Additionally, parks and green spaces have extensively
been shown to have high mental and physical health benefits for all
populations. Additionally, low-income communities in densely
populated urban areas have generally been shown to have far less
access to green spaces (as well as be more impacted by UHIs);
expansion of green spaces to these communities should be
prioritized.



Action P.2: Improve Park Resilience and Mitigation Potential

Flora is an excellent natural carbon sequester. Trees are especially important to natural carbon sequestration, given their size and longevity. However, the ecosystems in parks and open spaces will be especially vulnerable to extreme temperatures and weather in the coming years. When planted environments die, they release carbon back into the atmosphere as they decompose, negating any of their mitigation potential. Park resilience is therefore highly important in maintaining their carbon capture potential, and is a low-cost, low-regret investment.

By first **conducting a vulnerability assessment** of parks and green spaces, the Parks Department and County staff can strategically determine potential weak areas, then develop a more specified plan and timeline for remediation.

Enhancing flood protection and drainage will ensure that the flora and root systems in parks and open spaces do not face extensive erosion damage from heavy rains. Additionally, exploring the use of rainwater harvesting will minimize water consumption while diverting rainwater from drainage systems to collection.

Finally, **using resilient native species** will ensure that parks are more resilient to harsh conditions, including invasive species such as bugs (which will thrive in warmer, more humid conditions). Public information campaigns about sustainable landscaping can expand this effort to residential homes with little effort or investment of County resources.

Action P. 2 Implementation Considerations:

Lead Agency: Parks Department

Timeline: 5 years

Cost: Low

Emissions Mitigation: Low

 Implementation Barriers: Coordinating department operations may present challenges.

 Equity, Resilience, and Community Co-Benefits: The protection and longevity of parks and green spaces will provide significant community co-benefits, enumerated below.

Streets

The County's direct control over much of the physical environment in DeKalb County is best expressed in the rights of way (ROW) the County owns for residential and urban streets and the roads and highways that connect activity centers. While the County does not directly control the choices that individuals make for personal transportation, the County does have significant influence over the infrastructure that influences individual decisions. While transitioning to ZEVs is an important part of mitigating transportation sector emissions, an equally essential component is helping residents transition away from private on-road vehicles (including cars and trucks) for short trips, especially within the County. By providing useful, convenient, direct, predictable, and safe off-road infrastructure for the growing variety of personal mobility options – including walking and running, bicycling and scooters, and electric micromobility devices – the County can make major strides towards accomplishing this goal and significantly ease the transition for its residents. Taking these actions early can enable lower household costs for car payments and fuel, and reduced congestion, air pollution, noise, and other harms associated with cars and trucks.

Another important role the County plays in exercising its control over street ROWs is providing space for the development and protection of tree canopy. The County has substantial canopy coverage, but development, poor planting practices, and climate change are ever-present threats to this important green infrastructure.



Action S.1: County Active Transportation Master Plan

This action includes the development of an Active Transportation Master Plan for the County. The plan would provide a vision for a connected network of off-road multi-use trails and protected on-road active transportation routes. Collectively, these routes would enable County residents to move safely and conveniently among and around the County's major activity centers without the need for a personal vehicle. The plan should include a list of designated routes, assignment of responsibility for executing the plan, a system for collecting community

input and prioritizing each step of the plan, a long-term implementation plan, and inputs for the County's Comprehensive Transportation Plan.

The Active Transportation Master Plan should seek to maximize access, convenience, and usability of the off-road multi-use and protected on-road active transportation route network. This means that routes should connect major residential areas, commercial centers, employment hubs, and transportation hubs, as well as any other major activity centers. Routes should be designed for ease of transportation, prioritizing directness, predictability, and convenience. The routes should seek to minimize unnecessary diversions, unprioritized road crossings, and especially gaps in the network.

The Master Plan should utilize existing routes, but seek to resolve gaps where they exist. For example, the South River Trail takes indirect paths where direct paths would improve the transportation value of the route, and in many cases the trail lacks connections to surrounding activity centers.

The Master Plan should also provide design solutions for adding protected active transportation lanes to important corridors. These could include design solutions for narrow, two-lane County roads (e.g., Columbia Rd, Peachcrest Rd, S Deshon Rd, Briarcliff Rd, etc.), multi-lane County roads (e.g., Panola Rd, Hairston Rd, N Decatur Rd, etc.), and State Highways (e.g., Candler Rd). By developing design guidance alongside peers from the Department of Public Works, future implementation projects can be accelerated by use of reference designs.

The Master Plan should explore unused right-of-way (ROW) opportunities, including potentially utility ROWs owned by Georgia Power, and unused margins of existing interstate highway ROWs owned by the state. Development of off-road multi-use paths along these ROWs could provide unique new direct paths between core activity centers without laborious road redesigns.

The Master Plan should include a methodology for engaging with community stakeholders to identify opportunities for local connections to the network. As identified in the DeKalb County Parks Master Plan, communities have expressed strong desire for additional passive recreation facilities – especially off-road trail networks; the stakeholder input collected for previous planning efforts should be folded into the development of the Master Plan.

Action S.1 Implementation Considerations:

Lead Agency: Planning and Sustainability, significant support from the Department of Public Works and Recreation, Parks, and Cultural Affairs

Timeline: 5 years

Cost: High

Emissions Mitigation: Very High (community only)

Implementation Barriers: Community needs and network assessment to analyze needs of the community for increasing active transportation; consistent and frequent communication with stakeholders.

Equity, Resilience, and Community Co-Benefits: Very high community benefits including significant new recreational asset, improved quality of living, reduced transportation costs, reduced air pollution, congestion, etc.



Q Q Action S.2: **Incentives for Non-Road Commuters**

Implement an incentive program for County employees who commute using alternative transportation methods instead of driving. The program could offer various incentives, such as subsidized public transportation passes, bike-sharing memberships, or rewards for carpooling. Federal law also allows for pre-tax commuter benefits, including up to \$315/month for qualified alternative transportation methods (including vanpooling, public transit, and even bicycling). To promote carpooling, designated or subsidized parking spaces closer to the workplace entrance could be reserved for employees who choose to share rides. Secure storage facilities (appropriate for a breadth of micromobility solutions from bicycles to scooters, e-bikes, and unicycles) can help prevent theft, which is a common problem for micromobility users. The County could organize periodic challenges or competitions to encourage employees to embrace alternative commuting options, with prizes ranging from gift cards to extra paid time off. By fostering a culture that values and rewards sustainable transportation choices, the County not only contributes to environmental conservation efforts but also promotes employee well-being and community engagement.

Implementation Considerations:

Lead Agency: Planning and Sustainability Department

Timeline: 5 yearsCost: Medium

- Emissions Mitigation: Very Low to Low; while Scope 3 emissions are not necessarily part of the County's goals, the cost to the County for these incentives would be very low relative to the mitigation impacts and benefits to employees.
- Implementation Barriers: Possible contracting issues
- Equity, Resilience, and Community Co-Benefits: Enables
 County employees' greater choice in commuting options, including
 lower-cost options for low-income employees. Promotion of
 alternative transportation such as biking, walking, or running may
 have positive impacts upon County employee health and wellbeing.



Action S.3:

Pilot Partnership for Use of Non-Road Utility Vehicles

Explore partnerships with vendors of electric-assist pedalvans, cargocycles, and small electric cargo vehicles to launch a pilot program in DeKalb County. Many vendors (UPS, Westward, Alke, Electric Wheels, Yokler, Vok, Fernhay, etc.) are offering or adopting downscaled electric or electric-assist delivery vehicles that can utilize active transportation lanes as a means of bypassing congestion and improving the efficiency of last-mile delivery services. The unifying characteristic of these vehicles is that they use less space than a typical vehicle and can fit in smaller lanes, combined with electric or electric-assist pedal drives that significantly reduce air pollution associated with delivery trucks on residential streets. A partnership program with a vendor could lead to the development of a policy for allowing these types of vehicles to be used in active transportation lanes and multi-use paths, similar to the rules recently adopted in New York City.

Action S.3 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department; significant assistance from Public Works Department, Transportation Division
- Timeline: 10 years
- Cost: Very Low
- Implementation Barriers: Labor costs associated with establishing relationships and setting up partnerships; potential cultural barriers.
- Emissions Mitigation: Very Low; the pilot program would focus on commercial delivery vehicles, not County fleet vehicles, thus mitigation would not affect County emissions; Community emissions impact is Low.
- Equity, Resilience, and Community Co-Benefits: Potential to mitigate community air pollution associated with heavy duty trucks in residential areas; improved traffic safety due to fewer trucks on the road; reduced noise.



Action S.4: EV Charging Network Master Plan

Produce a master plan for the ideal location of publicly accessible EV charging stations across the County. Include dual use locations (i.e., public charging stations co-located with County fleet charging stations) as well as ideal locations to serve the County's major activity centers. Identify appropriate sites for Level 2, Level 3, and DC Fast Charging stations. Locations may include transit hubs, activity centers, and sites near major highway interchanges. The Master Plan should be designed in such a way that it will help guide future development from public, private, and institutional property owners. By providing a plan, the County can help provide certainty about EV viability in DeKalb County, encouraging fleet and private owners to adopt EVs.

Action S.4 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department
- Timeline: 5 10 years
- Cost: Medium
- Emissions Mitigation: Low (County), Medium (community);
 County emissions are unlikely to be significantly affected by the improved availability of EV charging infrastructure. Community emissions impacts may be moderate (i.e., by enabling greater EV penetration, depending on the extent of incentives/scope of deployment.
- Implementation Barriers: High upfront costs; network analysis to find high-priority, high use areas for charging stations.
- Equity, Resilience, and Community Co-Benefits: Significant community co-benefits if accelerated EV charger deployment is achieved; reduced costs/improved convenience for EV owners; reduced air pollution associated with ICE vehicles.



Action S.5: Provide Incentives for EV Charging Stations on Private Developments

Through partnerships with developers, large commercial and residential landlords, and with institutional campuses, the county can significantly accelerate the growth of EV-enabling infrastructure. Partnerships could include incentives such as cost-sharing, tax incentives, zoning bonuses, or streamlined permitting processes to encourage developers to integrate charging stations into new commercial and residential developments. This approach not only spreads the financial burden but also taps into the expertise and resources of private developers, ensuring that charging stations are strategically located and readily accessible to EV owners across the County, and that residents and users of these buildings are made aware of the availability of charging infrastructure. This approach also fosters a symbiotic relationship wherein developers enhance the attractiveness of their properties while contributing to the county's sustainability goals and the wider transition towards electric mobility.

Implementation Considerations:

- Lead Agency: Planning and Sustainability Department
- Timeline: 5 years (immediate)
- Cost: Medium
- Emissions Mitigation: Low; County emissions are unlikely to be significantly affected by the improved availability of EV charging infrastructure. Community emissions impacts may be moderate (i.e., by enabling greater EV penetration, depending on the extent of incentives/scope of deployment
- Implementation Barriers: Potential legal questions/complications depending on type of incentives to be employed; contract enforcement obligations
- Equity, Resilience, and Community Co-Benefits: Significant community co-benefits if accelerated EV charger deployment is achieved; reduced costs/improved convenience for EV owners, reduced emissions and air pollution from ICE vehicles.



Action S.6: Adopt a Complete Streets Policy

The County Comprehensive Plan recommends the adoption of a Complete Streets policy, and this recommendation is reiterated here. The policy would revise the Code of Ordinances to include improved design guidance/requirements and encourage local, regional, and state agencies to incorporate the policy into any road projects they lead in the County. Critically, the proposed Complete Streets Policy in the Comprehensive Plan identifies exceptions for the inclusion of protected active transportation lanes on County roads, and these exceptions include broad language about "probable need/probable use," especially relative to cost. It is essential that the County adopt a Policy that accounts for a vision of the County's transportation system (see **Action S.1**) to encourage a much greater share of non-motor vehicle transportation; thus evaluation of "need" and "probable use" should not be backward-looking, but forward-looking measures based on the vision articulated in the Active Transportation Master Plan. The risk of

using backward-looking metrics (e.g., historical use data) is that only a fragmented patchwork of active transportation infrastructure will be completed, depriving the County's residents of a true alternative network for non-motor vehicles.

This action may be completed separately or as a part of **S.1**: **County Active Transportation Master Plan**.

Action S.6 Implementation Considerations:

- Lead Agency: Planning and Sustainability, with significant support from the Department of Public Works
- Timeline: 5 years
- Cost: Medium; planning efforts must address a wide variety of road types
- Emissions Mitigation: High; limited primarily to community emissions
- Implementation Barriers: Engineering, jurisdictional boundaries, possible scattered community opposition
- Equity, Resilience, and Community Co-Benefits: Very high community benefits, including significant new recreational asset, improved quality of living, reduced transportation costs, reduced air pollution, congestion, etc.

•



Action S.7: County-Wide Urban Heat Island Effect (UHI) Mitigation Plan

Develop a County-wide plan for addressing UHI with improved planning and infrastructure within the County ROW on County roads. The plan should include a vision, goals, strategy individual actions, and supporting metrics for determining where and when actions will be taken. The plan should provide both the Department of Public Works Transportation and Roads and Drainage Divisions' staff with the decision-making tools, example solutions, and long-term vision for achieving the plan's goals.

The UHI mitigation plan should include an assessment of existing exposure to UHI across the county, and include a method for prioritizing interventions based on vulnerability to extreme heat and energy burden impacts.

Action S.7 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department, significant support from Public Works Department
- Timeline: 5 years (immediate)
- Cost: Low to Medium; cost of study is assumed to be low (<\$100k); cost of mitigation projects may range from Low to High, depending on intensity of effort
- Emissions Mitigation: Low
- Implementation Barriers: Technical barriers are low, however new street design principles and practices, urban forestry practices, etc. impose training and transitional burdens on Public Works staff
- Equity, Resilience, and Community Co-Benefits: Very high
 community resilience and equity co-benefits; targeted UHI
 reduction will reduce acute health impacts of extreme heat, as well
 as reduce energy burden in communities; significant additional
 benefits associated with public health, mental health, safety, etc.



Action S.8: Update Streets Design Guidance for UHI Mitigation

Develop guidelines, standard designs, and an implementation plan for planting shade trees, stormwater bioswales, and other adaptive greenspace within the County ROW on County roads, as well as model designs for municipal streets in the cities and towns. Update the Tree Conservation and Protection guidelines to ensure protection of important canopy trees in high-priority communities (to be determined in **S.7x: County-Wide UHI Mitigation Plan**). Deploy new strategies for rapid growth of a long-term tree canopy. Identify opportunities to include stormwater protection (e.g., with detention basins or bioswales) where needed.

Action S.8 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department, significant support from Public Works Department
- Timeline: Updated guidance, 5 years (immediate); rollout over 25 years (long-term)
- Cost: Low (assuming street upgrades are rolled out over time as part of regular street maintenance)
- Emissions Mitigation: Very Low (direct County emissions impacts); likely Low community emissions impacts from reduced cooling burden
- Implementation Barriers: Technical barriers are low, however new street design principles and practices, urban forestry practices, etc. impose training and transitional burdens on Public Works staff; potential community barriers where public space is transitioned from paved to green space
- Equity, Resilience, and Community Co-Benefits: Very high community resilience and equity co-benefits; targeted UHI reduction will reduce acute health impacts of extreme heat, as well as reduce energy burden in communities; significant additional benefits associated with public health, mental health, safety, etc.



Action S.9: Track County Tree Canopy

Utilize County staff expertise, remote sensing (including commercial products), and regular tree inventories to track the County's tree canopy, especially along County ROWs. Identify areas where canopy is in decline and especially potential hotspots that correlate with vulnerable populations. Produce annual reports tracking changes in tree canopy and provide input to regular County reports such as the Comprehensive Land Use Plan.

Action S.9 Implementation Considerations:

- Lead Agency: Planning and Sustainability, with limited support from Department of Public Works and Department of Parks, Recreation, and Cultural Resources
- Timeline: 5 yearsCost: Medium
- Emissions Mitigation: Low
- Implementation Barriers: Very Low, as this is common practice in an increasing number of municipalities
- Equity, Resilience, and Community Co-Benefits: Primary benefit
 is that areas where the urban canopy is insufficient can access
 remediation more rapidly; including reduced temperatures,
 increased resilience to extreme heat, reduced energy costs, and
 improved air quality.

Waste & Water

O O Action W.1:

المالية Implement the Water and Wastewater Master Plan and Support Capital المالية ال Improvement Plan

Implementation of the DeKalb County Water/Wastewater Master Plan will address numerous constraints on both water supply and wastewater removal that threaten to impair the system's efficiency and sustainability over the long term.

Action W.1 Implementation Considerations:

Lead Agency: Watershed management

Timeline: 5 - 20 years

Cost: High

Emissions Mitigation: Low

Implementation Barriers: Electrification of components that are not yet commercially available.

Equity, Resilience, and Community Co-Benefits: Resilience is key benefit, ensuring the system is capable of providing water supplies through the planning period. Assessment of vulnerabilities in wastewater systems which disproportionately affect vulnerable communities ought to be considered for maximum equity impact.



Action W.2:

Monitor and Mitigate Fugitive Emissions of Methane

Minimize leaks of anaerobic decomposition gases (primarily methane) at AWWTPs to reduce release of potent GHGs and hazardous VOCs. Review entire system to identify potential opportunities for uncontrolled anaerobic decomposition in sewer trunk lines, within plant, and in plant outputs (e.g., incl. biosolids). Design and implement a program of leak detection and repair (LDAR) consistent with best practices in the wastewater treatment sector.

Action W.2 Implementation Considerations:

- Lead Agency: Watershed Management
- Timeline: 5 years
- Cost: Low
- Emissions Mitigation: Low to moderate, depending on existing
- Emissions Mitigation: Low to Medium, depending on existing leaks
- Implementation Barriers: Workforce, technical training, engineering
- Equity, Resilience, and Community Co-Benefits: Reduced emissions of fugitive decomposition gases will benefit nearby residents that may be exposed to unwanted VOCs.
- Equity, Resilience, and Community Co-Benefits:

Action W.3:

Optimize Energy Efficiency of Advanced Wastewater Treatment Plants (AWWTPs)

Conduct energy audit at Snapfinger and Pole Bridge AWWTPs (to be conducted in collaboration with the Facilities Department executing **Action B.3**). Review processes, systems, and equipment for energy waste and efficiency gaps, identify outdated equipment (and replacement options), and evaluate plant processes to identify potential alternatives with energy (and emissions) savings potential. Establish process for recurring review every five years.

Historically, Pole Bridge AWWTP has used significantly more energy than Snapfinger or other WWTPs on a per-gallon basis of treated water; the district should identify if this is still the case, evaluate opportunities to improve energy efficiency, and prioritize capital improvements necessary to achieve these improvements.

Action W.3 Implementation Considerations:

- Lead Agency: Watershed management with support from Facilities Department
- Timeline: 5 10 years
- Cost: Medium, depending on scope of necessary upgrades
- Emissions Mitigation: Medium, the County's water system is a major source of emissions.
- Implementation Barriers: Communication and cross-departmental coordination to get buy-in from County, community members. Measuring information campaign effectiveness also poses challenges.
 - Equity, Resilience, and Community Co-Benefits: Potential energy savings may be redirected through County budget to better serve LIDAC communities.



Action W.4:

Electrify and Modernize Equipment

In support of **WW.1** and **WW.3**, identify and replace any obsolete equipment (including pumps or prime movers) with modern electric pumps and variable frequency drive units.

Action W.4 Implementation Considerations:

Lead Agency:

Timeline: 5 – 15 years

Cost: Moderate, depending on scope

Emissions Mitigation: Low

Implementation Barriers: Engineering, workforce

Equity, Resilience, and Community Co-Benefits: N/A



Action W.5:

Promote Water Use Efficiency

Conduct an information campaign to inform customers of the connection between water use and energy waste/GHG emissions to promote best practices and technologies for water use efficiency. Solutions for residential customers may include checking appliances and repairing leaks, installing low-flow shower heads or flow restrictors, only using appliances such as washing machines for full loads, replacing water-hungry lawns with drought-tolerant plants, and using mulch and other water-conservation gardening practices. Commercial customers may benefit from targeted water audits to identify and mitigate major water waste sinks.

Action W.5 Implementation Considerations:

Lead Agency: Watershed Management

Timeline: 5 years

Cost: Low, information campaign only

 Emissions Mitigation: Low, reduced water consumption will have a small impact on energy use across the water system

Implementation Barriers:

 Equity, Resilience, and Community Co-Benefits: More efficient water use will create cost savings that will especially benefit low-income households; improved water conservation offers

additional resilience to water scarcity.



O Action W.6:

Evaluate Sewer and Stormwater System Sufficiency under Climate

Scenarios

Conduct a hydraulic analysis of stormwater loading under projected precipitation and runoff regimes in climate change scenarios. Evaluate the sufficiency of the current system and identify areas of potential backups, overflow, or flooding. Consider projected changes to precipitation patterns in 2050 and 2100, including both a lower- and higher-emissions scenario. Conduct

hydraulic modeling of the major floodplains in the County wherever single-event precipitation totals are projected to increase.

Action W. 6 Implementation Considerations:

- Lead Agency: Watershed Management, with support from Planning and Sustainability
- Timeline: 5 years
- Cost: Moderate, climate impact evaluation is not costly, but hydraulic modeling can be
- Emissions Mitigation: N/A, no emissions benefits
- Implementation Barriers: Long-term uncertainty, insufficient data on existing conditions
- Equity, Resilience, and Community Co-Benefits: Primary benefit
 is enabling improved resilience by anticipating future flood risks.
 Informing residents of their flood risk and producing valuable public
 service announcements may be pivotal to community resilience in
 the event of an emergency.

Timeline

Present-2030

- B.1 Adopt Enhanced Energy Efficiency Requirements for New and Renovated County Buildings
- B.2: Retrofit Existing Buildings to High Energy Efficiency Standards
- B.3: Create New Division for Facilities Transformation
- B.4: Acquire 100% Renewable Electricity through Multiple Approaches
- F.1: Begin Full Fleet Electrification and Establish Task Force
- F.2: Fleet Infrastructure and Operations Expansion
- S.1: County Active Transportation Master Plan
- S.2: Provide Incentives for Non-Road Commuters
- S.5: Provide Incentives for EV Charging Station on Private Developments
- S.6: Adopt a Complete Streets Policy
- S.7: County-Wide Urban Heat Island Effect (UHI) Mitigation Plan
- S.8: Begin to Update Streets Design Guidance for UHI Mitigation
- S.9: Track County Tree Canopy
- A.2: Aircraft Engine Use Reduction
- WW.2: Monitor and Mitigate Fugitive Emissions of Methane
- WW.4: Electrify and Modernize Equipment
- WW.5: Promote Water Use Efficiency
- WW.6: Evaluate Sewer and Stormwater System Sufficiency under Climate Change Scenarios

P.1: Begin Expanding Green Spaces, Urban Tree Cover in DeKalb County

P.2: Improve Park Resilience and Mitigation Potential

MSW.1: Extend Recycling Collection and Enhance Waste Reduction Efforts in County Departments and Community MSW

MSW.3: Minimize Fugitive Landfill Gas (LFG) Emissions Across MSW Operations

MSW.4: Minimize Fugitive Landfill Gas (LFG) Emissions Across MSW Operations

MSW.6: Promote Large-Scale Waste Diversion through a County-Managed Donations Portal

PH.1 Public Health Climate Risk Communication & Outreach

PH.2 Public Health Risk Monitoring

PH.3 Public Health Hazard Planning & Prevention

L.1: Integrate Carbon Mitigation into Unified Plan

L.2: Clean Energy and Microgrid Zoning Incentives

L.3: Restriction on HOA Covenants that Impede Emissions Mitigation

L.4: Minimum Tree Canopy

2030-2040

B.4: Complete Transition to Acquiring 100% Renewable Electricity through Multiple Approaches

F.2: Complete Full Fleet Electrification

S.3: Pilot Partnership for Use of Non-Road Utility Vehicles

S.4: EV Charging Network Master Plan

A.1: Airport Building and Ground Fleet Energy

A.3: Implement Future Airport Planning and Resilience Measures

WW.1: Implement the Water and Wastewater Master Plan and supporting Capital Improvement Plan

WW.3: Optimize Energy Efficiency of Advanced Wastewater Treatment Plants (AWWTPs)

P.1 Expand Green Spaces in DeKalb County

MSW.2: Launch Organic Waste Collection and Composting for All Sanitation Customers

MSW.3: Maximize Recycling of Concrete and Asphalt Aggregates in Public Works Projects

MSW.5: Onsite Solar Generation at Seminole Rd. Landfill

PH.1 Continue to Re-Evaluate Public Health Risk Communication & Outreach Strategies

DeKalb Climate Action ScenariosDRAFT, not for distribution29 May 2024

2040-2050

- B.5: Acquire 100% Renewable Electricity
- F.3: Complete Fleet Transition to Lower-Emissions and Zero-Emission Vehicles (ZEVs)
- S.8: Complete Rollout of Streets Design Guidance for UHI Mitigation
- PH.1 Continue to Re-Evaluate Public Health Risk Communication & Outreach Strategies

Scenario C: Balanced Approach

Scenario Goals

The objective of the Balanced Approach scenario is to identify the actions that are most important for the County to undertake, ensuring the County achieves its emissions mitigation goals and considering the diverse interests of all stakeholders while also prioritizing cost-effectiveness to minimize the fiscal burden of the plan. This scenario combines elements of both Scenarios A and B, and in many sectors pursues identical strategies. The greatest reductions in County emissions are achieved by investing in energy efficiency and electrification in both buildings and vehicle fleets, decarbonizing electricity supplies, and leveraging the County's land use and transportation authority to ensure that future growth does not come at the expense of sustainability. Additionally, the Balanced Approach includes measures to improve the County's resilience to the most urgent climate change hazards, and ensure an equitable distribution of benefits.

Like Scenarios A and B, Scenario C includes a number of 'no regrets' actions including deep investments in building energy efficiency and future planning commitments that will ease the transition to new technologies (both for the County workforce as well as community members). Scenario C does not include as many actions targeting low-payoff emissions as Scenario B, however it does recommend a greater use of pilot programs to demonstrate the potential for these programs than Scenario A. Actions in Scenario C are also less narrowly-focused than actions in Scenarios A or B, with community benefits (including improving resilience, addressing economic & environmental justice, and jobs and economic development).

Finally, the potential equity, community co-benefits, and/or community resilience impact is indicated for each action item throughout the scenario. Figures 1, 2, and 3 have been chosen as a digestible and consistent way to represent the possible equity value in each action: Figure 1 indicates the low-impact, Figure 2 indicates medium-impact, and Figure 3 indicates high-impact action items regarding community co-benefits and equity. This indication ought to be considered when prioritizing actions and strategies for implementation.





Figure 2 [above] represents action items with a potential for medium community co-benefits, resilience, and/or equity impact.



Figure 3 [above] represents action items with a potential for high community co-benefits, resilience, and/or equity impact.

Actions

Airports

Emissions from the DeKalb-Peachtree Airport (PDK) fall into two categories – emissions from planes (specifically jet fuel), and emissions from building and airport operations. While emissions from jet fuel cannot be eliminated at this time (there is currently no readily available alternative), they can be minimized until technological advancements allow for greater (and more affordable) replacements. Meanwhile, operations and building emissions can be brought as close to zero as possible. In the balanced approach mitigation scenario, the focus is on rapidly decarbonizing airport operations, airport building emissions (specific to the airport), and minimizing unnecessary emissions from aircraft. The focus is on accelerating airport building efficiency (with measures specific to airport buildings) and minimizing unnecessary emissions from aircraft. Larger and more impactful actions, such as investments in alternative fuels or costly operational equipment updates, are taken later.



Action A.1:

Evaluate and Reduce Non-Essential Airport, Aircraft Energy Use

The first step is a series of low-investment, low-disruption actions to reduce emissions from current airport energy sources and aircraft fuel use. These actions are considered "no regrets" because they carry low risk and little financial strain, offer some co-benefits, and/or help to gather data and plan for future energy use and emissions mitigation potential.

Collecting and evaluating data will help chart a detailed, intentional course for next steps. Data would include current and ongoing energy use, emissions, and operations data. By evaluating operations information (such as which gates are most frequently used, turnaround time for aircraft, etc.), valuable insight is gained into how airport and aircraft operations can be made more efficient to decrease emissions.

Reducing non-essential aircraft/APU use on tarmacs would lower emissions from aircraft engines. The use of pre-conditioned air units to keep aircraft cool would reduce the need to have the aircraft engines running while the plane sits on the tarmac or at the gates, reducing fuel consumption (which has cost savings co-benefits). If not already in use, it would also be beneficial to implement zero-emissions 400Hz ground power units.

Shortening the turnaround time for aircraft at the gate for aircraft will decrease the amount of time during which engines are running.

Additionally, **installing and/or maximizing the use of preconditioned air units** (if applicable at PDK) enables aircrafts to remain cool without running engines, reducing emissions from aircraft engines or APUs.

Finally, submetering for airport tenants (if not already in place) would give the airport more data and accountability for energy consumption throughout the building.

Action A.1 Implementation Considerations:

Lead Agency: DeKalb- Peachtree Airport

Timeline: 5 years

Cost: Low

Emissions Mitigation: Low

• **Implementation Barriers:** Implementation is dependent on which measures are already in place.

 Equity, Resilience, and Community Co-Benefits: Extended co-benefits may include improved community health over the long-term as emissions-related air pollutants are reduced.



Action A.2: Future Planning, Resilience, and Energy Transition Preparation

Improving airport energy efficiency (improved insulation, building envelope, etc.) will increase the return on investment in renewable energy and energy use reduction. In addition to maximizing efficiency within the airport itself, resilience planning will be paramount. This includes tarmacs that can handle high heat and extreme weather, contingency plans for crews working in high heat and extreme weather, and resilient buildings and structures. Finally, in the future, large-scale, widespread transitions in energy use and sourcing will be the final step towards serious emissions reductions. These efforts will be highly impactful, despite bearing a higher cost. Planning ahead and understanding future demand can reduce the cost burden on the county, vendors, users, and taxpayers. The focus is on monitoring, efficiency, and renewable energy capacity.

Implementing efficiency and sustainability standards for future airport development, as with other county buildings, will allow the airport to rise to a model of high efficiency and preparedness for future climate scenarios.

Ensuring airport features are "hardened" for future climate strain, such as high heat, flooding, etc. will ensure minimal disruption in airport operations or costly repairs down the road. This includes the use of transverse expansion/contraction joints along runways to minimize buckling/cracking, asphalt binder modification (tarmac repaving), highly effective drainage systems in the event of flooding, contingency plans for crews working in high heat, and protected structures that are resilient to severe weather.

Applying buildings efficiency technologies (incl. lighting, envelope/windows, HVAC, and others) to airport buildings will improve energy efficiency throughout airport facilities, increasing the benefits gained from energy conservation efforts.

Large-scale solar development on airport grounds will enable the majority of airport electricity to come from renewable solar, rather than fossil fuels. Additionally, any solar energy not used can be redistributed back to the main electric grid.

Full ground service equipment (GSE) transition to zero- or low-emissions vehicles will reduce emissions from ground service vehicles; however, electrifying the GSE fleet will require charging infrastructure as well as training of maintenance staff.

Energy consumption monitoring, including sub-metering for tenants, will allow for a close monitoring of energy use. This can be used to identify opportunities for efficiency improvements, as well as to measure progress.

Action A.2 Implementation Considerations:

Lead Agency: Airport, Facilities

Timeline: 10-20 years

Cost: Low planning costs, High implementation costs

Emissions Mitigation: High

- Implementation Barriers: Determining which standard to use for building efficiency (LEED, GBI, etc.) requires extensive research and consultation with the certifying body. All modifications suggested are time consuming and costly. GSE electrification capabilities are not yet widely available, nor are they particularly affordable. Additionally, the installation of widespread solar will be time-consuming and costly, while requiring extensive planning.
- Equity, Resilience, and Community Co-Benefits: Increased airport resilience leads to increased reliability in air travel for community members and those using the airport. Increased efficiency and sustainability standards will improve things such as air pollutant exposure for airport staff and frequent travelers, as well as result in co-benefits for nearby residents and communities bearing the brunt of airport emissions and pollutants. Additional electricity generated from solar power could be sold back to DeKalb County's power grid. There are also health benefits associated with reduction of emissions and jet fuel air pollution.

Buildings

In the Balanced Approach, actions which improve building efficiency with lower investment are prioritized, followed by higher impact, higher cost actions. The scenario achieves most progress towards emissions mitigation goals with the following:

- Transformative changes to the way buildings are built within the county, emphasizing energy efficiency such that future buildings will require dramatically less energy to heat, cool, light, and service.
- Integration with green infrastructure measures to improve the resilience of not just an individual building, but also its environment, creating feedbacks that reduce long-term energy demands.
- Cohesive planning in parallel with County transportation infrastructure.

Buildings actions are designated to be led by the Facilities Department, with additional input and leadership from Departments that own and operate sizeable facilities.

The Balanced Approach scenario nevertheless anticipates a future where County facilities consume decreasing amounts of energy (from current levels) to achieve the same or better levels of comfort, safety, and performance. These achievements are attainable with significant investments in new efficiency technologies over the coming 10 years. The approach includes the adoption of new guidelines for building efficiency and design, a process for retrocommissioning and rehabilitation, and the addition of a small team within the facilities department to oversee the buildings energy transition. The specialized team will be charged with tracking energy use, identifying future efficiency opportunities, and implementing solutions across the County's facilities.



Action B.1:

Many opportunities exist to improve the energy efficiency of existing buildings and facilities by retrofitting demonstrated technologies with proven ROIs. A critical part of the lowest-cost approach to mitigating GHG emissions is to avoid unnecessary energy waste, and that means adopting and implementing as many efficiency measures as possible. Building efficiency improvements include a large number of individual actions across every type of building energy use, including:

- Efficient lighting: Replace incumbent lighting systems with energy efficient LEDs and installing timers or motion sensors in County buildings that do not already have them
- Efficient water heating: Replace boilers and water heaters with high-efficiency models (including heat pump water heaters if the scale/duty cycle justifies the investment), and implement zone controls of hot water loops where applicable
- Efficient HVAC improvements: Upgrade existing water chillers with high-efficiency models and/or retrofit with variable frequency drives; replace inefficient heat pumps with high-efficiency models; replace inefficiently-designed systems (including oversized units when upgrading building insulation) with HVAC systems designed from a whole-building perspective; use heating/cooling zone controls, sensors, and smart scheduling (in line with building energy management systems) to eliminate

wasteful space conditioning; replace window units with mini-split or centralized HVAC systems; replace separate heating and cooling systems with combined heat pump systems; install heat recovery fresh air exchangers where not currently used; explore advanced technologies including ground/water-source heat pumps, thermal load storage devices, and solar water heaters

- Efficient envelope improvements: Conduct assessments of existing county facilities (i.e., retro-commissioning) including door blower tests and thermal imaging for small buildings, and building energy modeling for larger buildings; mitigate identified leaks, gaps, and other envelope problems; upgrade or mitigate outdated windows with energy efficient options, window laminates, and/or automatic shades to reduce heat gain through windows
- Building energy management systems (BEMS): Deploy a connected, County-scale building energy management system that will allow smart decision-making with regards to building energy use, integration of sensors, advanced scheduling, and program-based operations that account for differences in weather, occupation, etc.

The selection and prioritization of efficiency improvements in County facilities will depend on the County facilities upgrade budget priorities. The prioritization of upgrades should include factors beyond efficiency and cost, including opportunities to leverage already-planned work and/or emergency repairs to incorporate efficiency improvements. Planning and scheduling efficiency improvements is a process that will need to be incorporated into the Facilities Department's budgeting process. The process can be tracked with performance metrics on the number and type of efficiency technologies implemented in each County facility.

Action B.1 Implementation Considerations:

- Lead Agency: Facilities Department, support from Depts. with significant facilities (e.g., Airport, WWTPs, Landfill, etc.)
- Timeline: Initiation in 2025 (immediate) to be completed over the medium-term (5 – 20 years.
- Cost: Very Low to Low; potential future payoffs.
- Emissions Mitigation: Low
- Implementation Barriers: Largest implementation barriers
 associated with facilities that host large-scale industrial processes
 (e.g., landfill, WWTPs), in some cases electrification is not possible
 with commercially available technologies and carbon-free fuels may
 be considered.
- Equity, Resilience, and Community Co-Benefits: Technical workforce development through development of building electrification practices in local construction market. Cost savings from electrification can be redirected through County budget to better serve low-income or disadvantaged (LIDAC) communities.



Action B.2: Adopt Enhanced Energy Efficiency Requirements for New \right County Buildings

Passive building standards produced by Phius are the gold standard for building energy efficiency and emissions mitigation. The standards include residential single family, multifamily, and commercial building standards for achieving net zero energy use and emissions. Phius standards focus on a holistic approach to building sector emissions mitigation - balancing both the cost and embedded emissions of efficiency interventions against the availability of zero-emissions clean energy sources. Phius standards also take into account the region and climate of a building, enabling building owners to adopt the standard without the risk of over- or under-estimating the value of upfront investments.

Phius standards achieve extreme energy efficiency improvements through a focus on isolating the interior of structures from the envelope, minimizing "thermal bridges" that allow thermal energy to escape. Because of the efficiency achieved using these methods, utility costs can often be reduced by downsizing the HVAC equipment. Phius claims that up-front cost premiums can be only 1-3% higher than EnergySTAR standards, with significant long-term benefits in terms of energy cost savings.

This action includes the County adopting PHIUS+ CORE COMM for all new County buildings, the highest-achieving standard for commercial building energy efficiency. An alternative standard (PHIUS+ ZERO COMM) includes the same efficiency measures but also includes specifications for the use of renewable energy generation - this standard is not selected because Action B.4 addresses the County's acquisition of 100% renewable energy.

An important component of this action is training staff and contractors in the adopted standards. New standards include the specification of certified efficiency products as well as installation methods to mitigate thermal bridging that are as if not more important than the efficiency technologies themselves. Appropriate training is an essential component of standards adoption to ensure that the value of County investments is fully realized.

Action B.2 Implementation Considerations:

- Lead Agency: Facilities Department, Facilities Transformation Division
- Timeline: 5-10 years
- Cost: Medium (assuming stated cost premium, risk of higher costs)
- Emissions Mitigation: N/A; supporting measure
- Implementation Barriers: Workforce training and fiscal constraints
- Equity, Resilience, and Community Co-Benefits: Technical
 workforce development (i.e., creation of local skilled workforce by
 stimulating demand for advanced building efficiency technologies)
 is expected to support advanced energy efficiency requirements in
 the private and community buildings sectors. Improved efficiency
 requirements reduce peak energy demand requirements for county
 facilities and improve building resilience to power outages (e.g.,
 improved insulation, daylighting). Cost savings from energy
 efficient systems can be redirected through County budgets to

better invest in and/or serve low-income or disadvantaged (LIDAC) communities.



Q Q Action B.3:

Retrofit Existing Buildings to High Energy Efficiency Standards

Passive building standards are also relevant to existing buildings, and this action recommends a 10-year program for retrofitting the County's facilities to these high standards. Because the County already operates a significant stock of buildings, the adoption and implementation of retrofit standards is likely to be more important for energy efficiency improvements in the County than new building standards.

- Retrofit Standards: This action recommends the adoption of Phius Core REVIVE standards for existing commercial buildings. These standards identify best practices for balancing the cost, embodied emissions, and energy efficiency improvements associated with deep building energy retrofits. The standards seek to implement as many passive building principles as possible within the framework of adapting these practices to the existing building. Similarly to the new building standards, Phius Core REVIVE emphasizes the installation of certified windows, doors, insulation systems, and installation methods designed to minimize thermal bridging between the interior and exterior.
- Training and Workforce Development: An essential step in implementing this action is
 provision of training for Facilities Department staff and key contractors. Training for
 County staff should be provided to ensure that the Department's contracts are executed
 consistently with efficiency goals. Additional efforts to provide training or attract
 conferences to promote local workforce development should be considered.

- Retrofit prioritization: Prioritize building retrofits by identifying the most energy wasteful
 buildings in the County's building stock and implementing these projects first; additional
 considerations to factor into retrofit prioritization include the size of the project and
 qualifications of available workforce.
- **Retrofit implementation:** Stage retrofits of County facilities over a reasonable but actionable timeline; ensure contracts are executed in compliance with Phius standards and use verification practices to ensure that planned efficiency goals are achieved.

Action B.3 Implementation Considerations:

- Lead Agency: Facilities Department, Facilities Transformation Division
- Timeline: 5-10 years
- Cost: Very High
- Emissions Mitigation: Very High; Phius standards are expected to reduce building energy use by 30-50%.
- Implementation Barriers: Workforce barriers are likely to be significant, possible barriers associated with supply chain and supplies of Phius-certified products.
- Equity, Resilience, and Community Co-Benefits: Potential for significant cost savings that can benefit residents and businesses as savings can be redirected through County budget to better serve LIDAC communities; promotion of local workforce development and training; improves resilience of aging building stock utilized by community in emergency scenarios.



Action B.4: Add Dedicated Staff for Facilities Transformation

This action proposes the establishment of 2-5 new roles within the Department of Facilities. This dedicated Sustainable Buildings Team (SBT) would adopt the roles necessary for implementing many of the actions identified in this scenario. The Team would lead adoption of standards, staff training, implementation of efficiency improvements, monitoring and analysis of energy use, and coordination of County and intergovernmental resources on energy efficiency and emissions mitigation.

- **Standards adoption:** Intergovernmental coordination of design and retrofit projects will require management from the new team.
- Training: The SBT should serve as a repository of emissions mitigation and energy
 efficiency knowledge within the County. The SBT should seek to acquire expertise by
 engaging with PHIUS trainings, as well as relevant conferences and similar efficiency
 standards (e.g., EnergySTAR, IECC, etc.).
- **Implementation and monitoring:** The SBT staff will be responsible for overseeing the selection, management, and validation of standards compliance for both new construction and building retrofit projects. The SBT would also be responsible for selecting contractors and managing contracts to ensure quality workmanship. Because

building efficiency measures rely on both novel technologies and appropriately executed installation methods, one of the SBT's most important roles will be ensuring that any retrofits or new construction work done to improve energy efficiency is completed in accordance with vendor specifications and the relevant code/standard.

 Data collection and analysis: The SBT would collaborate across the County to ensure that relevant agencies have access to accurate and timely energy and emissions data, crucial to enabling quantification of estimates of action emissions impacts.

Action B.4 Implementation Considerations:

- Lead Agency: Facilities Department, Facilities Transformation Division
- Timeline: 5-10 years
- Cost: Medium-High (includes onboarding new staff)
- Emissions Mitigation: N/A; supporting measure
- Implementation Barriers: Workforce training and support, as well as fiscal constraints.
- Equity, Resilience, and Community Co-Benefits: Technical
 workforce development (i.e., creation of local skilled workforce by
 stimulating demand for advanced building efficiency technologies)
 is expected to support advanced energy efficiency requirements in
 the private and community buildings sectors; improved efficiency
 requirements reduce peak energy demand requirements for county
 facilities and improve building resilience to power outages (e.g.,
 improved insulation, daylighting).

Action B.5:

Full building electrification will have only a small impact on emissions reductions if electricity is still generated from fossil fuels. As such, this is a two-part recommendation with closely related actions.

Transitioning to 100% to renewable energy does not necessarily mean 100% onsite production. Renewable energy can be purchased from suppliers who produce energy with 100% carbon-free resources (including solar PV, wind, hydro, and nuclear power). Currently, Georgia Power (GP) offers at least two different ways to subscribe to renewable energy via price adders on the traditional tariff. Procurement of renewable energy through GP is an attractive option because relying on the utility ensures that energy delivery will remain consistent and cost risks are mitigated. GP's current offerings for carbon-free electricity are contingent on the tariff class of the ratepayer, thus some additional negotiations may be necessary if the County utilizes a different tariff type.

DeKalb County may also consider development of local renewable energy resources, including rooftop, parking shed, greenfield, and brownfield solar PV installations (see **Action MSW.6**). By building a collection of local renewable energy generation facilities (called distributed energy resources, DERs), DeKalb County can ensure control over the resource, including certainty about long-term costs, energy availability during periods of peak demand, and if desired, the ability to isolate and 'island' parts of the grid during outages. These installations will not affect the County's emissions mitigation progress, and the selection of DER sites will primarily provide community development and resilience co-benefits, thus they are deprioritized relative to the goal of acquiring carbon-free electricity.

The second part of this action is to **ensure that future buildings are fully electrified** in anticipation of decarbonized electricity supply. Because traditional fuels (including natural gas, propane, diesel, etc.) are very costly to decarbonize, the County's most economically efficient path to decarbonization is via electrification and switching to renewable energy resources. The most significant current uses of fossil fuels within County facilities are for space and water heating; electrification is anticipated to replace these uses with air-source heat pumps, including heat-pump water heaters. Additional uses of fossil fuels (including kitchen appliances, dryers, etc.) can be electrified with a large and growing number of alternative appliances. However, there are currently very few adequate, high-performance options for replacing most major building appliances, such as broilers, and the ones which are available are significantly more expensive. This action is therefore recommended to be implemented in 10-20 years, when the cost and access barriers to new technologies are lower.

Action B.5 Implementation Considerations:

- Lead Agency: Facilities Department, support from Depts. with significant facilities (e.g., Airport, WWTPs, Landfill, etc.)
- Timeline: 10-20 years
- Cost: High
- Emissions Mitigation: 100% of facility electricity emissions
- Implementation Barriers: Finding adequate supply and setting up the electric grid to import renewable energy from outside sources.
- Equity, Resilience, and Community Co-Benefits: Because
 utility-supplied renewable energy is supplied by the distribution
 grid, it has no resilience risk or benefit compared to traditional
 grid-supplied electricity; community and equity co-benefits may
 potentially be achieved through a small reduction in (non-GHG) air
 pollution associated with electricity production near DeKalb County,
 however the expected impact of the County's actions alone is likely
 very small.

Fleets

While DeKalb County may have several fuel-efficient vehicles as part of its fleet, traditional gas vehicles still contribute to emissions. To pursue an aggressive path towards decarbonization, the County must fully convert its fleet to electric vehicles (EVs) and implement adequate charging infrastructure. This effort will require County departments working in concert with each other, which is why the establishment and funding of a Fleet Electrification Task Force to coordinate the changes.



QQ Action F.1: Fleet Efficiency Optimization

Optimizing fleet efficiency includes both vehicle efficiency and route optimization. While efficiency optimization is not a "clean fuel" or zero-emissions transition, it is a quick, low-cost adjustment to ensure that emissions from fleet vehicles are kept to a minimum. This option is therefore considered a no-regrets action which can be undertaken almost immediately during a more involved transition to zero-emissions fleet vehicles.

Route optimization happens at an operational level within departments that use fleet vehicles, and involves minimizing doubling back, idling in traffic, and other forms of extra travel. This allows for fuel savings, as well as time savings and reduced vehicle stress.

Maximizing vehicle efficiency primarily entails conducting vehicle maintenance thoroughly and regularly to ensure vehicles are running smoothly. Current maintenance records from the DeKalb County Public Works Department Fleet Maintenance Division should be assessed for possible gaps, such as additional staffing or equipment needs.

Finally, idling policies would be aimed at reducing vehicle idling. This comes in three parts - a policy aimed at reducing idling vehicles, training to ensure vehicle users feel comfortable with the new guidelines, and monitoring to understand idling reduction. Additionally, it is possible to add auxiliary AC units in some heavily-used or larger fleet vehicles during warm months. This allows the driver to remain cool without idling the vehicle.

Action F.1 Implementation Considerations:

- Lead Agency: Public Works Department Fleet Maintenance
- Timeline: 5 years
- Cost: Low
- Emissions Mitigation: None
- Implementation Barriers: Potential barriers include inter-departmental coordination on vehicle use and route optimization; development of, as well as training and communication on, updated vehicle and route guidelines; and monitoring capabilities.
- Equity, Resilience, and Community Co-Benefits: Improvements to air quality through reduced emissions from County fleets. Potential for reduced traffic congestion due to route optimization. Cost savings from fuel efficiency may be redirected through County budget to serve LIDAC communities.



Action F.2:

Infrastructure and Operations Expansion: Electrification Preparation

Full County fleet electrification will require an extensive shift in infrastructure, fleet SOPs, maintenance capabilities, and operations.

By establishing a Fleet Electrification Task Force, representatives from all relevant departments can work together to ensure a smooth transition to a fully electrified county fleet. This will include identification and purchasing of adequate replacement vehicles (working closely with the departments currently using vehicles), oversight of training the fleet maintenance division, development of charging infrastructure (including maintenance), and other questions of implementation.

Expanding charging infrastructure will be the first step in ensuring that the electric fleet is ready to function for the county's needs. Operations and route assessments will help to best understand where fleets will most frequently need to be recharged. Additionally, since charging takes more time than filling up gas at the pump, this should be factored into regular County fleet operations. Notably, if charging infrastructure were open to the public, it would be possible that the collected pay rates from charging could offset the cost of charging infrastructure in the long term. Conversely, lowering the cost of charging would make it more accessible to residents.

Finally, evaluating and re-vamping current fleet SOPs will be required to ensure that the County has adequate maintenance training and staff to support an electric vehicle fleet, and that staff using fleet vehicles are prepared to switch.

Action F.2: Implementation Considerations:

Lead Agency: Facilities (Fleet Maintenance)

Timeline: 5-10 years

Cost: Medium

 Emissions Mitigation: Low (bulk of emissions reduction comes from fleet electrification)

- Implementation Barriers: Workforce training can present challenges during a fleet transition; added charging time for EVs may temporarily cause disruptions in fleet use.
- Equity, Resilience, and Community Co-Benefits: Charging
 infrastructure, if made accessible to the public, will improve public
 access to EV charging and reduce barriers to EV ownership.
 Prioritization of communities with high volumes of commuters and
 car owners, as well as those who face systemic barriers to car
 ownership, ought to be considered to maximize the community
 impact of this strategy.



Action F.3:

Full Conversion of the Fleet to Electric Vehicles (EVs)

Converting the full county fleet to electric vehicles will remove gas vehicles from County use, thereby eliminating emissions from County vehicles. The Task Force should prioritize an affordable, durable, and otherwise suitable replacement, working closely with all departments to identify which ones need vehicles, and in what capacity. This action will take place in a phased approach, in which retiring vehicles are replaced by EVs, would be slower yet more cost-effective (timeline depends on the current fleet age and needs). While the conversion of light-duty vehicles can happen fairly quickly, with an abundance of options on the market, conversion of heavy-duty vehicles, buses, and fire trucks will take several years to decades until affordable, accessible options are on the market.

First, the County should prioritize the conversion of light duty vehicles to EVs. The Fleet Electrification Task Force should work with the county to establish a budget and timeline for the light-duty vehicle transition. This transition can occur at a variety of rates, depending on how aggressive the County chooses to be. For example, in a slower scenario, light-duty vehicles would be replaced as they need to be retired from the fleet due to regular wear and tear. However, this could take several years, if not decades, slowing the ultimate transition to fully electric fleet. Alternatively, in an accelerated scenario, the transition would happen nearly immediately by selling current light duty fleet vehicles and replacing them in a bulk purchasing order. There are several intermediary options; the Task Force and the County should work together to establish a timeline that works best for them.

Second, the County should electrify moderate heavy-duty vehicles. This includes heavy-duty trucks, such as buses, flatbeds with water tanks and dump trucks, but does not include heavy duty construction vehicles, fire trucks, etc. The eventual electrification of these vehicles corresponds with the development and availability of new and emerging technology; currently, there are no electric versions of these vehicles available on the market which are accessible to the average county. (Note that there may be viable options for electric buses sooner rather than later; in this case, the transition to an electric bus fleet should be prioritized. Additionally, at this time, the bus fleet should be expanded to maximize public transportation options, as specified in **S.4**).

Finally, the County should **electrify remaining heavy-duty vehicles**. This includes fire trucks, construction equipment, and buses. While there are some electric versions of these vehicles on the market, they are currently highly expensive, sometimes unreliable, and somewhat inefficient, therefore not a pragmatic option for the average fire house or County at this time. However, investments are being made in this area, and technology should improve within the next two decades.

Action F.2: Implementation Considerations:

Lead Agency: Facilities (Fleet Maintenance)

Timeline: 10-20+ years

Cost: High

Emissions Mitigation: High

- Implementation Barriers: High costs are the primary barrier; additionally, lack of electric heavy-duty vehicle options pose difficulties in a full transition to EVs.
- Equity, Resilience, and Community Co-Benefits: Improvements in air quality will benefit all community members, as previously stated.

Land Use



Action L.1: Integrate Carbon Mitigation into Unified Plan

One of the County's most potent tools for mitigation of Community emissions is the County's control over how and where to site buildings, roads, infrastructure. By controlling factors like the density and design of buildings, the proximity of buildings to one another, and the infrastructure that connects them, the Unified Plan (including both the Comprehensive Transportation Plan and the Comprehensive Land Use Plan) has a significant effect on the future of both building and transportation emissions in the County.

In order to fully integrate carbon mitigation into the Comprehensive Plan, the Department of Planning and Sustainability should focus on the following principles:

- Multi-unit buildings are more efficient to heat and cool, leading to reduced energy-related emissions, as well as reduced peak demand and lower risk of power outages during extreme heat events.
- Neighborhoods with closer proximity between buildings, and especially with close commercial districts, reduce the number and length of private vehicle trips; fewer and shorter trips reduce fuel use, transportation emissions, and associated community impacts.
- Housing abundance reduces housing costs, and reduced reliance on private cars and trucks reduce household transportation costs; together these factors improve the resilience of the community to the future increases in the cost of energy and associated energy burden, especially in low-income communities.

These principles are already reflected in part in the 2050 Unified Plan, however in order to facilitate the County's transition to net-zero emissions at the lowest possible cost additional actions are recommended. The Balanced Approach scenario recommends the following actions or revisions to the Unified Plan:

- Implement the Unified Plan's recommendations for sustainable zoning, but increase the
 emphasis and application of zoning and code requirements that reduces energy-related
 emissions from vehicle miles traveled (VMTs); deemphasize zoning that preserves or
 exacerbates VMTs.
- Explore all options to expand the application of zoning which allows energy efficient multi-family developments.
- Create compact, mixed-use developments which decrease reliance on single-passenger vehicles, per the Unified Plan's statements in principle that new developments should focus on existing activity centers, locations near transit stations, and high-capacity corridors.
- Implement the Unified Plan's small area plans (SAPs), but revise SAPs that fail to achieve significant transportation and land-use emissions mitigation; ensure SAPs have robust internal active transportation networks; SAPs designed around highway corridors without alternative access should be reimagined with active transportation backbones, crossings, and connections to surrounding communities; SAPs that rely excessively on highway/arterial corridors should be deprioritized for new development over SAPs with potential to mitigate VMTs.
- Explore broad-based zoning density bonuses with different approaches in different zones;
 e.g., auxiliary dwelling units (ADUs) in single-family household neighborhoods,
 higher-intensity zoning can be similarly upzoned (either in terms of units per parcel,
 FAR/height limits, etc.).
- Use zoning bonuses to encourage low-emissions practices, including high density development in transit-connected activity centers.

Action L.1 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department
- Timeline: 5 years (next Unified Plan update), 20 years for implementation
- Cost: Low to Medium (cost of analysis and development)
- Emissions Mitigation: High (primarily community emissions)
- Implementation Barriers: Possible opposition or delay from key stakeholder groups
- Equity, Resilience, and Community Co-Benefits: Increasing zoning density, increasing the housing stock, and reducing the County's reliance on private vehicles for transportation will have significant co-benefits for communities, primarily associated with reduced household expenditures on housing, energy, and transportation; additional resilience co-benefits are associated with lower anticipated peak electricity demand, reduced air pollution, reduced noise, and improved street safety.



Action L.2:

Clean Energy and Microgrid Zoning Incentives

Microgrids – collections of buildings that are served by their own electricity generation and distribution systems – are an effective tool for improving the resilience of electric supply to external disruption. 'Islandable' microgrids can automatically isolate themselves from the electric grid if power supply is disrupted or degraded. These features are attractive for buildings,

campuses, or even neighborhoods where the resilience of electric supply is very important. Critical facilities (e.g., hospitals, police/fire stations, schools that serve as emergency shelters, etc.) are excellent candidates for microgrids, as are multi-building campuses (e.g., corporate, academic, etc.).

The County can provide incentives (including zoning incentives) to promote the deployment microgrids that use zero emissions DERs (i.e., solar or wind) for new developments, including zoning bonuses for density/height/etc. The County can also facilitate deployment by providing explicit zoning permission for specific types of microgrids.

Microgrids are not inherently solutions to the County's GHG emissions; however, deployment of microgrids with solar or wind DERs will shift electricity production away from fossil fuel sources to renewables.

Action L.2 Implementation Considerations:

Lead Agency: Planning and Sustainability

Timeline: 5-10 years

Cost: Low, zoning changes only

• Emissions Mitigation: Low, community emissions only

Implementation Barriers: Technical evaluations

Equity, Resilience, and Community Co-Benefits: Microgrids
provide improved resilience for communities they serve, reducing
the impacts of power outages, especially during heat emergencies.
Microgrids that serve critical facilities benefit the entire community.
Equitable implementation will provide incentives to underserved
neighborhoods and prioritize critical facilities in vulnerable
communities.



Action L.3: Minimum Tree Canopy

Amend the tree protection ordinance to eliminate or restrict exemptions in areas with insufficient canopy coverage and/or impose tree replacement requirements. Following development of the UHI Mitigation Plan (**Action S.6**) and using input from the tree canopy records (**Action S.7**), areas designated UHI 'hot spots' or with insufficient canopy coverage should be elected for additional restrictions on tree removal permits. Additional restrictions could impose tighter requirements (i.e., adjust the five-tree threshold downward to two trees) or impose alternative compliance pathways (i.e., tree replacement requirements).

Action L.4 Implementation Considerations:

Lead Agency: Planning and Sustainability

Timeline: 5 years

Cost: Low

Emissions Mitigation: Low

 Implementation Barriers: Identification of under-covered areas, ongoing tree maintenance and associated labor.

Equity, Resilience, and Community Co-Benefits: The effects of extreme heat have a significant negative impact on vulnerable populations including children, the elderly, residents without healthcare. Tree canopy can improve community resilience to extreme heat to alleviate some of the negative impacts. Additional benefits include improved stormwater management, and improved air quality.

Municipal Solid Waste (MSW)



MSW.1:

Promote Waste Reduction in County Departments and Targeted

Sectors

The Sanitation Division can promote several practices across both County operations and the Community that can help reduce emissions from the County landfills, sanitation operations, and public works projects. Both community members and commercial customers of the Sanitation Division's collection and carting services may be reached through public-information campaigns to promote waste reduction, reuse, and recycling. Potential waste-reduction campaigns could include:

- Fliers, websites, and social media outreach can promote the County's recycling program, including advertising the program's contributions to County emissions mitigation goals.
- Partnerships for waste diversion can include promotion of local appliance repair companies, scrap metal recyclers, and electronics recyclers.
- Promotion of composting at the residential or institutional scale can reduce the organic waste contributions to landfill emissions by encouraging families, schools, hospitals, or other major producers of organic wastes to use compost onsite.
- Advertising of groups or mailing lists for donations of unwanted household items (e.g., 'Freecycle,' 'Buy Nothing,' etc.) and/or second-hand stores that accept donations.
- Establishment of a Sanitation Division-backed program for donations of large volumes of useful materials that would otherwise be disposed of (e.g., NYC's DonateNYC program for facilitating donations to qualified nonprofits).

Action MSW.1 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division, with support from Roads and Drainage Division and Planning and Sustainability Department
- Timeline: 5 years
- Cost: Low; information campaign only
- Emissions Mitigation: Low
- Implementation Barriers: Consistent, clear information and education to ensure proper waste sorting.
- Equity, Resilience, and Community Co-Benefits: Waste reduction and donation-based programs can benefit low-income and vulnerable communities by minimizing expenditures on durable goods. Engagement in a circular economy bolsters community resilience and builds networks for mutual aid beyond government facilitation.



Action MSW.2:

Extend Recycling Collection and Enhance Waste Reduction Efforts in County

Departments and Community MSW

The Sanitation Division can promote several practices across both County operations and the Community that can help reduce emissions from the County landfills, sanitation operations, and public works projects. By extending recycling collection to all County Sanitation customers, landfilling volume can be significantly reduced. Furthermore public-information campaigns to promote waste reduction, reuse, and recycling should be launched to target both residential and commercial customers.

Potential waste-reduction campaigns could include:

- Fliers, websites, and social media outreach can promote the County's recycling program, including advertising the program's contributions to County emissions mitigation goals.
- Partnerships for waste diversion can include promotion of local appliance repair companies, scrap metal recyclers, and electronics recyclers.
- Promotion of composting at the residential or institutional scale can reduce the organic waste contributions to landfill emissions by encouraging families, schools, hospitals, or other major producers of organic wastes to use compost onsite.
- Advertising of groups or mailing lists for donations of unwanted household items (e.g., 'Freecycle,' 'Buy Nothing,' etc.) and/or second-hand stores that accept donations.

Action MSW. 2 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division, with support from Roads and Drainage Division and Planning and Sustainability Department
- Timeline: 5 years
- Cost: Low; information campaign only
- Emissions Mitigation: Low to Moderate
- Implementation Barriers: Community resistance, improper recycling methods, increased cost in labor, and operational challenges associated with updated SOPS.
- Equity, Resilience, and Community Co-Benefits: Waste reducing and donation-based programs can benefit low-income and vulnerable communities by minimizing expenditures on durable goods.

Action MSW.3: Launch Organic Waste Collection and Composting for All Sanitation Customers

The anaerobic decomposition of organic wastes in the MSW stream is a major source of methane emissions. Methane is an especially potent GHG, 25x more damaging than carbon dioxide. Whereas landfilling of organic wastes combined with LFG collection and use can capture some of this methane, a much more effective model demonstrated by a growing number of MSW collection systems around the world is the use of municipal composting to avoid the formation of methane altogether.

Composting of municipal organic wastes involves managed decomposition to ensure that waste only produces carbon dioxide as a byproduct rather than methane. Because composting achieves aerobic decomposition, the process removes the largest source of LFG, significantly mitigating landfill emissions.

Expanding municipal waste collection to include compost would require an expansion of the County's existing composting facility at the Seminole Rd. Landfill, potentially even requiring a new facility. Additionally, compost would require collection and management of an additional waste stream, which can add to the cost of MSW operations. However, the diversion of organic wastes into composting will reduce the volume of waste that must be landfilled, offsetting costs somewhat.

Action MSW.3 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division
- Timeline: 10 years
- Cost: Medium to High, new costs associated with expanding collection service (including trucks and labor), expanding composting facility, and communicating new program to residents; expected cost savings with reduced volume of MSW and landfilling.
- Emissions Mitigation: High, organic waste decomposition is the largest source of LFG
- Implementation Barriers: Significant barriers associated with community adoption of composting, however jurisdictions that have implemented it have seen success; workforce barriers associated with expanding composting operations
- Equity, Resilience, and Community Co-Benefits: A significant
 co-benefit of expanded composting operations is the increased
 production of compost for soil conditioning, reduced emissions of
 LFGs, which in turn improves local air quality for residents and
 nearby communities.



Action MSW.4:

Maximize Recycling of Concrete and Asphalt Aggregates in Public Works Projects

DeKalb County has taken important statutory steps to allow the use of recycled concrete aggregates in road construction (eliminating the need for emissions-intensive virgin materials), and the Roads and Drainage Division should seek to utilize recycled concrete aggregates for road foundations wherever feasible. Similarly, recycled asphalt products are available within the metro Atlanta region and should be used whenever feasible to reduce lifecycle emissions associated with road paving.

Action MSW.4 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division, with support from Roads and Drainage Division and Planning and Sustainability Department
- Timeline: 10 years
- Cost: Low to Medium
- Emissions Mitigation: Low to Medium
- Implementation Barriers: Recycled aggregates must be clean of impurities.
- Equity, Resilience, and Community Co-Benefits: Limited additional benefits; reduction in air pollution associated with lifecycle emissions.



MSW.5

Minimize Fugitive Landfill Gas (LFG) Emissions Across MSW Operations

Because anaerobic decomposition of organic wastes in MSW streams is a major source of methane emissions (a GHG 25x more potent than CO2), the County should review its MSW collection, carting, and landfilling operations to ensure that fugitive methane emissions are avoided wherever possible. While significant actions have already been taken to control LFG emissions (e.g., LFG collection and waste-to-energy facility at the Seminole Rd. landfill), the Sanitation Division should establish a program of recurring top-to-bottom reviews (e.g., aligned with Comprehensive Plan cycles) to monitor, track, verify, and mitigate potential LFG leaks at all stages of the Sanitation Division's work.

A review could consist of a systematic identification of opportunities for LFG leakage (e.g., during carting, at various stages of landfilling, and from LFG collection, cleaning, pressurization, and distribution pipelines), followed by targeted monitoring using both portable and fixed optical gas imaging (OGI) and electromechanical/spectrometry sensors. Opportunities to shorten the residence time of organic wastes in waste collection trucks and in other anaerobic holding piles may be available. Potential leaks in LFG collection and transportation, as well as LFG processing operations should also be addressed The purpose of each review will be to identify and mitigate any existing leaks, as well as provide an opportunity to strategize how to further reduce methane leaks.

A more intensive approach to this action could include the initiation of an internal Leak Detection and Repair (LDAR) program within the Sanitation Division, aligned with an annual LDAR report. Best practices for LDAR programs are published by the U.S. Environmental Protection Agency.

Action MSW.5 Implementation Considerations:

- Lead Agency: Public Works Sanitation Division
- Timeline: 5-10 years
- Cost: Low
- Emissions Mitigation: Low to Medium, depending on extent of fugitive emissions.
- Implementation Barriers: Labor and workforce development; potential technical support may be available from U.S. EPA or Georgia EPD.
- Equity, Resilience, and Community Co-Benefits: Methane leaks are primarily a climate hazard with few immediate impacts on communities, however LFG leaks may also include volatile gases with potential nuisance or health impacts on communities; mitigating LFG leaks will benefit communities near major LFG sources (predominantly the Seminole Rd. Landfill).



The Seminole Rd. Landfill site features ongoing landfill operations as well as significant areas of closed landfills (collectively Phase 1, 2, and 2A). The closed landfill areas offer an opportunity to

develop county-owned solar generation on a brownfield site with no alternative uses in the midto long-term. Additionally, federal tax credits make energy development on the site particularly attractive. Based on area alone, the Phase 2 area could theoretically host a solar PV system with 60MW of generating capacity with direct access to the existing GP transmission facilities onsite. A system of this size could generate upwards of 80,000 MWh/year of zero-carbon energy, offsetting a significant amount of the County's existing electricity demand.

Action MSW.6 Implementation Considerations:

- Lead Agency: Planning and Sustainability and Dept. of Public Works, Sanitation Division
- Timeline: 10-20 years
- Cost: Very High (~\$63 million CAPEX for a 60MW system); however, federal credits may significantly reduce the cost by upwards of 50%.
- Emissions Mitigation: Very high; such a system would offset the majority of the County's current annual demand.
- Implementation Barriers: Financing and contracting barriers,
 - technical barriers include use of ballast foundations.
- Equity, Resilience, and Community Co-Benefits: Additional electricity generated from solar power could be sold back to DeKalb County's power grid.
- Equity, Resilience, and Community Co-Benefits:

Parks & Recreation

Parks are inherently a low- or zero-emissions sector. Most emissions from the parks sector come from park buildings or fleets, which are already covered in their respective sections. Rather than focusing primarily on "decarbonizing" the remaining components of the parks sector, the priority is to maximize the emissions mitigation potential of green spaces by expanding them, improving their care and maintenance, and ensuring their sustainability and resilience.



Action P.1:

Expand Green Spaces and Urban Tree Cover in DeKalb County

Creating an expansion plan for green spaces and urban tree canopy will be one of the most important tools in combatting the Urban Heat Island effect (UHI). The selection of spaces which should be expanded or created will be a question of how to prioritize Parks Department resources. This decision should prioritize communities facing disproportionate barriers to accessible green spaces, such as lack of access to parks, insufficient tree cover, characteristics of urban density and the built environment, and several other possible barriers to access. The investment will be mid- to long-term, but pays off for both mitigation and adaptation benefits.

Action P.1 Implementation Considerations:

Lead Agency: Parks Department

Timeline: 5-10 years

Cost: Medium

Emissions Mitigation: Low

Implementation Barriers: Identifying where to expand parks may

be a cumbersome process.

Equity, Resilience, and Community Co-Benefits: This is a
measure with very high community, equity, and resilience
co-benefits. Urban areas with more tree cover are generally lower
temperatures during peak times than areas without adequate tree
canopy. Additionally, parks and green spaces have extensively
been shown to have high mental and physical health benefits for all
populations. Additionally, low-income communities in densely
populated urban areas have generally been shown to have far less
access to green spaces (as well as be more impacted by UHIs);
expansion of green spaces to these communities should be
prioritized.



Action P.2: Improve Park Resilience and Mitigation Potential

Flora is an excellent natural carbon sequester. Trees are especially important to natural carbon sequestration, given their size and longevity. However, the ecosystems in parks and open spaces will be especially vulnerable to extreme temperatures and weather in the coming years. When planted environments die, they release carbon back into the atmosphere as they decompose, negating any of their mitigation potential. Park resilience is therefore highly important in maintaining their carbon capture potential, and is a low-cost, low-regret investment.

By first **conducting a vulnerability assessment** of parks and green spaces, the Parks Department and County staff can strategically determine potential weak areas, then develop a more specified plan and timeline for remediation.

Enhancing flood protection and drainage will ensure that the flora and root systems in parks and open spaces do not face extensive erosion damage from heavy rains. Additionally, exploring the use of rainwater harvesting will minimize water consumption while diverting rainwater from drainage systems to collection.

Finally, **using resilient native species** will ensure that parks are more resilient to harsh conditions, including invasive species such as bugs (which will thrive in warmer, more humid conditions). Public information campaigns about sustainable landscaping can expand this effort to residential homes with little effort or investment of County resources.

Action P. 2 Implementation Considerations:

Lead Agency: Parks Department

Timeline: 5 years

Cost: Low

Emissions Mitigation: Low

 Implementation Barriers: Coordinating department operations may present challenges.

 Equity, Resilience, and Community Co-Benefits: The protection and longevity of parks and green spaces will provide significant community co-benefits, enumerated below.

Streets

The County's direct control over much of the physical environment in DeKalb County is best expressed in the rights of way (ROW) the County owns for residential and urban streets, and the roads and highways that connect activity centers. Transitioning to ZEVs is an important part of mitigating transportation sector emissions; while the County does not directly control the choices that individuals make for personal transportation, the County does have significant influence over the infrastructure that influences individual decisions. By providing useful, convenient, direct, predictable, and safe off-road infrastructure for the growing variety of personal mobility options – including walking and running, bicycling and scooters, and electric micromobility devices – the County can make major strides towards accomplishing this goal and significantly ease the transition for its residents. Taking these actions early can also enable community co-benefits, such as lower household costs for car payments and fuel, and reduced congestion, air pollution, noise, and other harms associated with cars and trucks.

Another important role the County plays in exercising its control over street ROWs is providing space for the development and protection of tree canopy. The County has substantial canopy coverage, but development, poor planting practices, and climate change are ever-present threats to this important green infrastructure.



Action S.1: County Active Transportation Master Plan

This action includes the development of an Active Transportation Master Plan for the County. The plan would provide a vision for a connected network of off-road multi-use trails and protected on-road active transportation routes. Collectively, these routes would enable County residents to move safely and conveniently among and around the County's major activity centers without the need for a personal vehicle (i.e. pedestrian and bike paths). The plan should include a list of designated routes, assignment of responsibility for executing the plan, a system for collecting community input and prioritizing each step of the plan, a long-term implementation plan, and inputs for the County's Comprehensive Transportation Plan.

The Active Transportation Master Plan should seek to maximize access, convenience, and usability of the off-road multi-use and protected on-road active transportation route network. This means that routes should connect major residential areas, commercial centers, employment hubs, and transportation hubs, as well as any other major activity centers. Routes should be designed for ease of transportation, prioritizing directness, predictability, and convenience. The routes should seek to minimize unnecessary diversions, unprioritized road crossings, and especially gaps in the network.

The Master Plan should utilize existing routes, but seek to resolve gaps where they exist. For example, the South River Trail takes indirect paths where direct paths would improve the transportation value of the route, and in many cases the trail lacks connections to surrounding activity centers.

The Master Plan should also provide design solutions for adding protected active transportation lanes to important corridors. These could include design solutions for narrow, two-lane County roads (e.g., Columbia Rd, Peachcrest Rd, S Deshon Rd, Briarcliff Rd, etc.), multi-lane County roads (e.g., Panola Rd, Hairston Rd, N Decatur Rd, etc.), and State Highways (e.g., Candler Rd). By developing design guidance alongside peers from the Department of Public Works, future implementation projects can be accelerated by use of reference designs.

The Master Plan should explore unused right-of-way (ROW) opportunities, including potentially utility ROWs owned by Georgia Power, and unused margins of existing interstate highway ROWs owned by the state. Development of off-road multi-use paths along these ROWs could provide unique new direct paths between core activity centers without laborious road redesigns.

The Master Plan should include a methodology for engaging with community stakeholders to identify opportunities for local connections to the network. As identified in the DeKalb County Parks Master Plan, communities have expressed strong desire for additional passive recreation facilities – especially off-road trail networks; the stakeholder input collected for previous planning efforts should be folded into the development of the Master Plan.

Action S.1 Implementation Considerations:

- Lead Agency: Planning and Sustainability, with significant support from the Department of Public Works and Recreation, Parks, and Cultural Affairs
- Timeline: 10 years
- Cost: High
- Emissions Mitigation: Very High (community only)
- Implementation Barriers: Community needs and network assessment to analyze needs of the community for increasing active transportation; consistent and frequent communication with stakeholders.
- Equity, Resilience, and Community Co-Benefits: Very high community benefits including significant new recreational asset, improved quality of living, reduced transportation costs, reduced air pollution, congestion, etc.



Q Q Action S.2:

Incentives for Non-Road Commuters

Implement an incentive program for County employees who commute using alternative transportation methods instead of driving. Examples could include:

- Subsidized public transportation passes or bike-sharing memberships
- Rewards for carpooling, such as designated or subsidized parking spaces closer to the workplace entrance which are reserved for employees who choose to share rides.
- Secure storage facilities (appropriate for a breadth of micromobility solutions from bicycles to scooters, e-bikes, and unicycles) to prevent bicycle theft, which is a common problem for micromobility users.
- Periodic county-organized challenges to encourage employees to embrace alternative commuting options, with prizes ranging from gift cards to extra paid time off.
- Federal law also allows for pre-tax commuter benefits, including up to \$315/month for qualified alternative transportation methods (including vanpooling, public transit, and even bicycling).

By fostering a culture that values and rewards sustainable transportation choices, the County not only contributes to environmental conservation efforts but also promotes employee well-being and community engagement.

Implementation Considerations:

- Lead Agency: Planning and Sustainability Department
- Timeline: 5 years
- Cost: Medium
- Emissions Mitigation: Very Low to Low; while Scope 3 emissions are not necessarily part of the County's goals, the cost to the County for these incentives would be very low relative to the mitigation impacts and benefits to employees.
- Implementation Barriers: Possible contracting issues
- Equity, Resilience, and Community Co-Benefits: Enables
 County employees' greater choice in commuting options, including lower-cost options for low-income employees. Equity, Resilience, and Community Co-Benefits: Gives County employees more
 commuting options, including lower-cost options for low-income.

commuting options, including lower-cost options for low-income employees. Promotion of alternative transportation such as biking, walking, or running may have positive impacts upon County employee health and wellbeing.



Action S.3:

Pilot Partnership for Use of Non-Road Utility Vehicles

Explore partnerships with vendors of electric-assist pedalvans, cargocycles, and small electric cargo vehicles to launch a pilot program in DeKalb County. Many vendors (UPS, Westward, Alke, Electric Wheels, Yokler, Vok, Fernhay, etc.) are offering or adopting downscaled electric or electric-assist delivery vehicles that can utilize active transportation lanes as a means of bypassing congestion and improving the efficiency of last-mile delivery services. The unifying characteristic of these vehicles is that they use less space than a typical vehicle and can fit in smaller lanes, combined with electric or electric-assist pedal drives that significantly reduce air pollution associated with delivery trucks on residential streets. A partnership program with a vendor could lead to the development of a policy for allowing these types of vehicles to be used in active transportation lanes and multi-use paths, similar to the rules recently adopted in New York City.

Action S.3 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department; significant assistance from Public Works Department, Transportation Division
- Timeline: 10 years
- Cost: Very Low
- Implementation Barriers: Labor costs associated with establishing relationships and setting up partnerships; potential cultural barriers.
- Emissions Mitigation: Very Low; the pilot program would focus on commercial delivery vehicles, not County fleet vehicles, thus mitigation would not affect County emissions; Community emissions impact is Low.
- Equity, Resilience, and Community Co-Benefits: Potential to mitigate community air pollution associated with heavy duty trucks in residential areas; improved traffic safety due to fewer trucks on the road; reduced noise.



Action S.4:

Update & Implement the DeKalb County Transit Master Plan

In concert with Active Transportation Master Plan, the County should **update and implement the existing DeKalb County Transit Master Plan** to evaluate success, existing gaps, and possible areas of growth.

This would first include **an evaluation of current bus networks and usage**, using community surveys and outreach to gather feedback, population growth assessments to evaluate access to major population centers, and other tools at the County's disposal to evaluate the current state of public transit.

The Transportation Division and the Planning and Sustainability Department would then **evaluate the current plan and make changes and updates** according to the data gathered, along with an implementation plan.

Action S.4 Implementation Considerations:

Lead Agency: Planning and Sustainability Department,

Transportation Division

Timeline: 10 years

Cost: Medium

Emissions Mitigation: Low (County), Medium (community)

 Implementation Barriers: Medium to High, depending on scale of undates

updates.

Equity, Resilience, and Community Co-Benefits: Significant community co-benefits if high level of public transit expansion is recommended; increased transit access for communities will boost transit equality; and reduced air pollution associated with fewer single-occupancy vehicles.



Action S.5: Adopt a Complete Streets Policy

The County Comprehensive Plan recommends the adoption of a Complete Streets policy, and this recommendation is reiterated here. The policy would revise the Code of Ordinances to include improved design guidance/requirements and encourage local, regional, and state agencies to incorporate the policy into any road projects they lead in the County. Critically, the proposed Complete Streets Policy in the Comprehensive Plan identifies exceptions for the inclusion of protected active transportation lanes on County roads, and these exceptions include broad language about "probable need/probable use," especially relative to cost. It is essential that the County adopt a Policy that accounts for a vision of the County's transportation system (see **Action S.1**) to encourage a much greater share of non-motor vehicle transportation; thus evaluation of "need" and "probable use" should not be backward-looking, but forward-looking measures based on the vision articulated in the Active Transportation Master Plan. The risk of using backward-looking metrics (e.g., historical use data) is that only a fragmented patchwork of active transportation infrastructure will be completed, depriving the County's residents of a true alternative network for non-motor vehicles.

This action may be completed separately or as a part of **S.1**: **County Active Transportation Master Plan**.

Action S.5 Implementation Considerations:

- Lead Agency: Planning and Sustainability, with significant support from the Department of Public Works
- Timeline: 5 years
- Cost: Medium; planning efforts must address a wide variety of road types
- Emissions Mitigation: High; limited primarily to community emissions
- Implementation Barriers: Engineering, jurisdictional boundaries, possible scattered community opposition
- Equity, Resilience, and Community Co-Benefits: Very high community benefits, including significant new recreational asset, improved quality of living, reduced transportation costs, reduced air pollution, congestion, etc.



Action S.6: County-Wide Urban Heat Island Effect (UHI) Mitigation Plan

Develop a County-wide plan for addressing UHI with improved planning and infrastructure within the County ROW on County roads. The plan should include a vision, goals, strategy individual actions, and supporting metrics for determining where and when actions will be taken. The plan should provide both the Department of Public Works Transportation and Roads and Drainage Divisions' staff with the decision-making tools, example solutions, and long-term vision for achieving the plan's goals.

The UHI mitigation plan should include an assessment of existing exposure to UHI across the county and include a method for prioritizing interventions based on vulnerability to extreme heat and energy burden impacts. Additionally, the mitigation plan should utilize County staff expertise, remote sensing (including commercial products), and regular tree inventories to track the County's tree canopy, especially along County ROWs. This would involve identifying areas where canopy is in decline, especially potential hotspots that correlate with vulnerable populations. Producing annual reports tracking changes in tree canopy and providing input to regular County reports (such as the Comprehensive Land Use Plan) can assist with strategic planning to counter UHI effect within the county.

Action S.6 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department, significant support from Public Works Department
- Timeline: 5 years (immediate)
- Cost: Low to Medium; cost of study is assumed to be low (<\$100k); cost of mitigation projects may range from Low to High, depending on intensity of effort
- Emissions Mitigation: Low
- Implementation Barriers: Technical barriers are low, however new street design principles and practices, urban forestry practices, etc. impose training and transitional burdens on Public Works staff
- Equity, Resilience, and Community Co-Benefits: Very high
 community resilience and equity co-benefits; targeted UHI
 reduction will reduce acute health impacts of extreme heat, as well
 as reduce energy burden in communities; significant additional
 benefits associated with public health, mental health, safety, etc.



Action S.7: Update Streets Design Guidance for UHI Mitigation

Develop guidelines, standard designs, and an implementation plan for planting shade trees, stormwater bioswales, and other adaptive greenspace within the County ROW on County roads, as well as model designs for municipal streets in the cities and towns. Update the Tree Conservation and Protection guidelines to ensure protection of important canopy trees in high-priority communities (to be determined in **S.7x: County-Wide UHI Mitigation Plan**). Deploy new strategies for rapid growth of a long-term tree canopy. Identify opportunities to include stormwater protection (e.g., with detention basins or bioswales) where needed.

Action S.7 Implementation Considerations:

- Lead Agency: Planning and Sustainability Department, significant support from Public Works Department
- Timeline: Updated guidance, 5 years (immediate); rollout over 25 years (long-term)
- Cost: Low (assuming street upgrades are rolled out over time as part of regular street maintenance)
- Emissions Mitigation: Very Low (direct County emissions impacts); likely Low community emissions impacts from reduced cooling burden
- Implementation Barriers: Technical barriers are low, however new street design principles and practices, urban forestry practices, etc. impose training and transitional burdens on Public Works staff; potential community barriers where public space is transitioned from paved to green space
- Equity, Resilience, and Community Co-Benefits: Very high
 community resilience and equity co-benefits; targeted UHI
 reduction will reduce acute health impacts of extreme heat, as well
 as reduce energy burden in communities; significant additional
 benefits associated with public health, mental health, safety, etc.

Waste & Water



O O Action W.1:

Implement the Water and Wastewater Master Plan and Support Capital Improvement Plan

Implementation of the DeKalb County Water/Wastewater Master Plan will address numerous constraints on both water supply and wastewater removal that threaten to impair the system's efficiency and sustainability over the long term.

Action W.1 Implementation Considerations:

Lead Agency: Watershed management

Timeline: 5 - 20 years

Cost: High

Emissions Mitigation: Low

- Implementation Barriers: Electrification of components that are not yet commercially available.
- Equity, Resilience, and Community Co-Benefits: Resilience is key benefit, ensuring the system is capable of providing water supplies through the planning period. Assessment of vulnerabilities in wastewater systems which disproportionately affect vulnerable communities ought to be considered for maximum equity impact.



Action W.2:

Monitor and Mitigate Fugitive Methane Emissions

Minimize leaks of anaerobic decomposition gases (primarily methane) at AWWTPs to reduce release of potent GHGs and hazardous VOCs. Review entire system to identify potential opportunities for uncontrolled anaerobic decomposition in sewer trunk lines, within plant, and in plant outputs (e.g., incl. biosolids). Design and implement a program of leak detection and repair (LDAR) consistent with best practices in the wastewater treatment sector.

Action W.2 Implementation Considerations:

- Lead Agency: Watershed Management
- Timeline: 5-10 years
- Cost: Low
- Emissions Mitigation: Low to moderate, depending on existing leaks
- Emissions Mitigation: Low to Medium, depending on existing leaks
- Implementation Barriers: Workforce, technical training, engineering
- Equity, Resilience, and Community Co-Benefits: Reduced emissions of fugitive decomposition gases will benefit nearby residents that may be exposed to unwanted VOCs.
- Equity, Resilience, and Community Co-Benefits:



Action W.3:

Optimize Energy Efficiency of Advanced Wastewater Treatment Plants (AWWTPs)

Conduct energy audit at Snapfinger and Pole Bridge AWWTPs (to be conducted in collaboration with the Facilities Department executing **Action B.3**). Review processes, systems, and equipment for energy waste and efficiency gaps, identify outdated equipment (and replacement options), and evaluate plant processes to identify potential alternatives with energy (and emissions) savings potential. Establish process for recurring review every five years.

Historically, Pole Bridge AWWTP has used significantly more energy than Snapfinger or other WWTPs on a per-gallon basis of treated water; the district should identify if this is still the case, evaluate opportunities to improve energy efficiency, and prioritize capital improvements necessary to achieve these improvements.

Action W.3 Implementation Considerations:

- Lead Agency: Watershed management, with support from Facilities Department
- Timeline: 5 10 years
- Cost: Medium, depending on scope of necessary upgrades
- Emissions Mitigation: Medium, the County's water system is a major source of emissions.
- Implementation Barriers: Communication and cross-departmental coordination to get buy-in from County, community members. Measuring information campaign effectiveness also poses challenges.
- Equity, Resilience, and Community Co-Benefits: Potential energy savings may be redirected through County budget to better serve LIDAC communities.



Action W.4:

Electrify and Modernize Equipment

In support of **W.1** and **W.3**, identify and replace any obsolete equipment (including pumps or prime movers) with modern electric pumps and variable frequency drive units.

Action W.4 Implementation Considerations:

- Lead Agency: Watershed management and Facilities
- Timeline: 5 15 years
- Cost: Moderate, depending on scope
- Emissions Mitigation: Low
- Implementation Barriers: Engineering, workforce
- Equity, Resilience, and Community Co-Benefits: N/A



Action W.5:

Promote Water Use Efficiency

Conduct an information campaign to inform customers of the connection between water use and energy waste/GHG emissions to promote best practices and technologies for water use efficiency. Solutions for residential customers may include checking appliances and repairing leaks, installing low-flow shower heads or flow restrictors, only using appliances such as washing machines for full loads, replacing water-hungry lawns with drought-tolerant plants, and using mulch and other water-conservation gardening practices. Commercial customers may benefit from targeted water audits to identify and mitigate major water waste sinks.

Action W.5 Implementation Considerations:

Lead Agency: Watershed Management

Timeline: 5 years

Cost: Low

Emissions Mitigation: Low

 Implementation Barriers: Outreach and education to communities who do not typically interact with county initiatives.

 Equity, Resilience, and Community Co-Benefits: More efficient water use will create cost savings that will especially benefit low-income households; improved water conservation offers additional resilience to water scarcity.



O Action W.6:

Evaluate Sewer and Stormwater System Sufficiency under Climate

Scenarios

Conduct a hydraulic analysis of stormwater loading under projected precipitation and runoff regimes in climate change scenarios. Evaluate the sufficiency of the current system and identify areas of potential backups, overflow, or flooding. Consider projected changes to precipitation patterns in 2050 and 2100, including both a lower- and higher-emissions scenario. Conduct hydraulic modeling of the major floodplains in the County wherever single-event precipitation totals are projected to increase.

It should be noted that this action is considered low-priority, for implementation in the long term (10+ years) to prioritize more impactful measures.

Action W. 6 Implementation Considerations:

- Lead Agency: Watershed Management, with support from Planning and Sustainability
- Timeline: 10+ year start date, 5 year implementation
- Cost: Moderate, climate impact evaluation is not costly, but hydraulic modeling can be
- Emissions Mitigation: N/A, no emissions benefits
- Implementation Barriers: Long-term uncertainty, insufficient data on existing conditions
- Equity, Resilience, and Community Co-Benefits: Primary benefit is enabling improved resilience by anticipating future flood risks.
 Informing residents of their flood risk and producing valuable public service announcements may be pivotal to community resilience in the event of an emergency.

Timeline

Present-2030

- A.1: Evaluate and Reduce Non-Essential Airport, Aircraft Energy Use
- B.1: Invest in 'No-Regrets' Efficiency Improvements in Existing County Buildings
- B.2: Adopt Enhanced Energy Efficiency Requirements for New County Buildings
- B.3: Retrofit Existing Buildings to High Energy Efficiency Standards
- B.4: Add Dedicated Staff for Facilities Transformation
- F.1: Fleet Efficiency Optimization
- L.1: Integrate Carbon Mitigation into Unified Plan [integration at next Unified Plan update]
- L.3: Minimum Tree Canopy
- MSW.1: Promote Waste Reduction in County Departments and Targeted Community Sectors
- MSW.2: Extend Recycling Collection and Enhance Waste Reduction Efforts in County Departments and Community MSW
- MSW.5: Minimize Fugitive Landfill Gas (LFG) Emissions Across MSW Operations (begin)
- P.1: Expand Green Spaces and Urban Tree Cover in DeKalb County (begin)
- P.2: Improve Park Resilience and Mitigation Potential (begin)
- S.2: Incentives for Non-Road Commuters
- S.5: Adopt a Complete Streets Policy
- S.6: County-Wide Urban Heat Island Effect (UHI) Mitigation Plan
- S.7: Update Streets Design Guidance for UHI Mitigation (begin)
- W.5: Promote Water Use Efficiency

2030-2040

- A.2: Future Planning, Resilience, and Energy Transition Preparation
- B.1: Invest in 'No-Regrets' Efficiency Improvements in Existing County Buildings
- B.2: Adopt Enhanced Energy Efficiency Requirements for New County Buildings
- B.3: Retrofit Existing Buildings to High Energy Efficiency Standards
- F.2: Infrastructure and Operations Expansion
- L.2: Clean Energy and Microgrid Zoning Incentives
- MSW.3: Launch Organic Waste Collection and Composting for All Sanitation Customers
- MSW.4: Maximize Recycling of Concrete and Asphalt Aggregates in Public Works Projects
- MSW.5: Minimize Fugitive Landfill Gas (LFG) Emissions Across MSW Operations (complete)
- P.1: Expand Green Spaces and Urban Tree Cover in DeKalb County (complete)
- P.2: Improve Park Resilience and Mitigation Potential (complete)
- S.1: County Active Transportation Master Plan
- S.3: Pilot Partnership for Use of Non-Road Utility Vehicles
- S.4: EV Charging Network Master Plan (implementation complete)
- W.2: Monitor and Mitigate Fugitive Methane Emissions
- W.3: Optimize Energy Efficiency of Advanced Wastewater Treatment Plants (AWWTPs)
- W.4: Electrify and Modernize Equipment

2040-2050

B.5: Acquire 100% Renewable Electricity and Ensure New Building Electrification

DeKalb Climate Action ScenariosDRAFT, not for distribution29 May 2024

F.3: Full Fleet Conversion to Electric Vehicles

L.1: Integrate Carbon Mitigation into Unified Plan (implementation complete)

MSW.6: Onsite Solar Generation at Seminole Rd. Landfill

S.7: Update Streets Design Guidance for UHI Mitigation (implementation complete)

W.1: Implement the Water and Wastewater Master Plan and Support Capital Improvement Plan

W.6: Evaluate Sewer and Stormwater System Sufficiency under Climate Change Scenarios

DeKalb County Emissions by Sector - Annual

Year	Agriculture	Residential	Commercial	Industrial	Transportation	Forestry	Total Emissions
2005	219.7216185	3122811.525	1573232.419	1444244.066	3483223.019	-67775.31417	10996149.67
2006	211.8278258	3240972.567	1622880.786	1398666.153	3737922.193	-68486.07865	11311032.74
2007	200.9452024	3391060.053	1585813.353	1436816.787	3736673.021	-68865.10309	11579162.89
2008	176.9617851	3380529.602	1739335.024	1414652.033	3486327.004	-69346.69063	11303923.88
2009	170.2889328	3041652.688	1995482.523	1163052.867	3344083.958	-69781.20238	10284881.12
2010	151.6816979	3273807.793	2011022.782	1153660.311	3390794.893	-70091.49906	10645965.51
2011	134.8337551	2992874.162	2099007.916	1113557.989	3269676.615	-71837.00427	10011769.62
2012	131.3220937	2217735.341	2090981.773	971279.8847	3136281.737	-74150.37959	8526315.013
2013	130.7217721	2302354.149	2267623.912	968416.4117	3114699.461	-75954.91941	8517121.383
2014	134.0304504	2555925.867	2309850.751	1031970.339	3257372.029	-78082.84349	9106841.805
2015	134.4848085	2386487.206	2278065.124	1020710.038	3747670.376	-80335.6595	9245542.337
2016	136.7121782	2433743.826	2526179.226	974095.4992	3950151.002	-78886.10669	9410699.071
2017	136.3922199	2058373.327	2820317.547	931855.7824	4002243.019	-74663.69532	8917526.127
2018	134.4779768	2280977.7	2861286.734	916663.5784	3975772.718	-70724.05094	9141260.206
2019	131.5444535	2157225.727	2966928.766	863890.3431	3994525.387	-66506.62485	8823088.827
2020	131.2593668	1892835.974	3106332.769	794558.3224	3720949.774	-66606.14018	7859890.478
2021	131.9690629	2011019.928	3069107.297	836839.248	4145289.165	-66701.37206	8535949.053
2022	132.4342381	2093910.581	3012469.214	804869.6724	4320408.277	-66792.3039	8787366.001

Month & Year	Agriculture	Residential	Commercial	Industrial	Transportation	Forestry	Total Emissions
Dec-22	2.943525008	247188.3863	240916.0031	66581.66856	337747.5885	-1329.918442	807281.1367
Nov-22	5.390666671	159574.8863	254865.7024	63926.92948	354093.2396	-2611.706501	700897.1882
Oct-22	10.47891045	120667.4295	276375.3922	63733.53434	376922.6349	-5269.010206	669274.742
Sep-22	16.55857078	135551.062	280889.5996	65222.27914	386023.4294	-8460.814466	706818.6267
Aug-22	20.67371546	173136.0143	269420.9461	71075.32271	397432.6221	-10601.34986	780632.9305
Jul-22	21.08924768	188332.3666	258505.2086	71435.4124	355394.9924	-10838.202	759002.6406
Jun-22	18.65110568	174239.0201	239680.1015	71072.67471	365380.413	-9545.014643	751030.5316
May-22	14.95621791	127054.0928	256453.3781	66173.34552	364347.1591	-7615.999608	671381.7274
Apr-22	9.711551742	116702.4043	239676.1254	62757.8887	339506.8097	-4870.034674	620819.2941
Mar-22	6.301993522	158892.7461	236883.2894	66184.71689	373007.6572	-3074.011483	722537.276
Feb-22	3.237618444	208430.6979	242412.7468	66401.84239	332723.905	-1498.374777	740684.6184
Jan-22	2.44111472	284141.475	216390.7208	70304.05758	337827.8265	-1077.867232	857005.2885
Dec-21	2.934907617	159008.2583	226912	60951.19943	350475.532	-1328.107875	679738.395
Nov-21	5.373743757	159203.8918	255891.5108	62892.06274	348822.4116	-2608.150893	679680.4411
Oct-21	10.44476917	113645.4927	282644.7196	65936.2479	358512.0383	-5261.836913	643418.8071
Sep-21	16.50374776	155250.6472	298212.5067	74618.3928	345330.8217	-8449.295812	713626.3551
Aug-21	20.60502254	201014.5517	274412.6513	81299.78558	372218.6308	-10586.91706	820267.6267
Jul-21	21.01902005	190232.7277	251487.9434	79868.81602	340858.8975	-10823.44675	766468.4356
Jun-21	18.58925744	162074.7103	233883.44	77128.63714	356136.988	-9532.019946	736249.7548
May-21	14.90686898	117103.2522	242938.4276	67333.37935	357803.8407	-7605.631095	650404.1089
Apr-21	9.679995677	112725.0542	256026.4672	63047.39736	348532.7452	-4863.40455	622792.4012
Mar-21	6.270597902	147760.7003	254179.6812	64570.47816	353740.3993	-3069.826487	676947.9997
Feb-21	3.214167156	246236.0061	256505.4162	73268.64257	298351.7399	-1496.334872	775126.0486
Jan-21	2.42696487	246764.6353	236012.5326	65924.20896	314505.1201	-1076.399811	771228.6792
Dec-20	2.911015063	244268.9749	244375.903	69295.96416	342306.7559	-1326.211689	805987.0174
Nov-20	5.332195661	135103.336	264460.4366	65514.60804	314462.0414	-2604.427145	626318.7334
Oct-20	10.40581806	109362.9803	272205.6326	66881.41217	341010.9449	-5254.324405	625058.9946
Sep-20	16.4380882	150406.7334	289965.7043	72580.04198	326226.0545	-8437.232458	681141.3887
Aug-20	20.50688171	197010.6967	284472.9238	79032.50996	340974.8925	-10571.80175	774273.2103
Jul-20	20.96156828	190084.4988	244383.4096	73885.30336	326715.1639	-10807.99373	744831.5969
Jun-20	18.48561945	137225.0827	239612.2516	65884.98979	304352.0615	-9518.410749	619032.4396
May-20	14.80749635	104786.8396	241076.8297	58318.63488	277600.9016	-7594.772271	525303.6944
Apr-20	9.592064754	100313.3534	268756.7395	56513.52154	231393.9236	-4856.460898	467967.2758
Mar-20	6.219253205	136011.6856	262698.7181	63310.4844	301812.192	-3065.443589	611585.1886

Feb-20	3.182420762	185419.1124	254139.7921	60622.21456	297823.2362	-1494.198503	664723.446	
Jan-20	2.416945279	202842.6804	240184.4279	62718.63752	316271.6064	-1074.862997	713667.4919	
Dec-19	2.92827546	200966.4989	253492.5818	64526.6091	319928.1145	-1324.230214	724516.3556	
Nov-19	5.391891498	169475.4718	268583.1699	65815.16024	319583.6297	-2600.535905	687235.713	
Oct-19	10.43418458	133637.5836	284611.4245	69475.04551	345784.0935	-5246.47399	683735.6648	
Sep-19	16.42707332	190647.3723	280427.0607	77262.75806	326329.1212	-8424.626502	764410.4666	
Aug-19	20.51260747	196263.3266	270612.4653	77890.92868	358191.7911	-10556.00656	802615.9389	
Jul-19	20.93763612	216065.1089	234538.8632	78824.01123	327190.8065	-10791.84566	800680.0801	
Jun-19	18.47576883	163714.9742	230218.8445	74315.1185	330431.7622	-9504.18942	718438.6599	
May-19	14.86708729	151604.0439	243320.8796	77407.07681	359350.3885	-7583.425024	743101.2724	
Apr-19	9.660890293	118541.5906	257669.9407	68612.88183	340950.7612	-4849.204925	649218.4618	
Mar-19	6.197471663	177190.1816	226031.5959	71447.99216	336416.6598	-3060.863551	731120.889	
Feb-19	3.235363606	180653.8282	211573.4879	66437.19742	303971.3322	-1491.966041	687168.741	
Jan-19	2.476203327	258465.7466	205848.4522	71875.56356	326396.9265	-1073.257059	830846.5841	
Dec-18	3.114375996	236737.9461	235025.0865	70962.95093	325331.1671	-1408.20445	797742.8521	
Nov-18	5.556044501	200391.6634	253993.3183	75963.12949	316042.3744	-2765.445311	758742.5089	
Oct-18	10.67939608	150121.5836	262595.3953	78454.14122	348429.4891	-5579.171917	734354.6639	
Sep-18	16.68289953	190306.8145	260932.4234	83100.45801	329624.1672	-8958.862598	790277.9468	
Aug-18	20.80173541	188731.1161	237707.4049	82142.75414	360916.7047	-11225.40119	810137.1507	
Jul-18	21.23209027	191855.1213	226289.5959	80938.97769	333946.1075	-11476.1957	780985.6497	
Jun-18	18.75554652	178762.5824	189732.6291	80688.73788	339181.8462	-10106.88451	770610.2408	
May-18	15.13247982	132295.0775	238303.1876	76971.52289	343216.0529	-8064.317485	700423.732	
Apr-18	9.879899583	125914.7719	269913.5948	69071.48135	327614.2189	-5156.710582	646838.8478	
Mar-18	6.498849025	171351.5981	238049.3592	70180.53877	342908.8974	-3254.964001	723770.4019	
Feb-18	3.416213885	168464.8035	234599.6806	69907.11963	291525.0312	-1586.577014	669704.2586	
Jan-18	2.7284462	346044.6214	214145.0584	78281.76636	317036.661	-1141.316178	957671.9523	
Dec-17	3.069312869	238189.5872	229227.2782	74284.30328	333877.2726	-1486.647705	819925.4506	
Nov-17	5.5912926	150714.3573	254285.9545	70190.57133	324113.0776	-2919.492922	685109.5626	
Oct-17	10.8549746	145660.8049	272024.2136	77251.79175	356281.8823	-5889.956623	735559.9671	
Sep-17	17.00840427	159373.9823	273813.7216	78881.21454	334310.6917	-9457.911115	737207.2202	
Aug-17	21.23634636	192450.6503	246858.7461	84071.95809	367192.7549	-11850.70599	824761.531	
Jul-17	21.63989026	199649.3668	206672.5977	83090.86792	326086.9812	-12115.47087	792393.1044	
Jun-17	19.13180316	163655.7959	197218.093	81462.3679	340371.7043	-10669.88296	749688.1968	
May-17	15.39581091	137898.217	260834.0283	79356.75874	341875.6698	-8513.535858	713079.7067	
Apr-17	9.984560828	130893.5764	260050.0594	79150.08646	327989.5076	-5443.962311	687060.1194	

Mar-17	6.527242	167892.7307	203681.5018	78103.92489	345019.9966	-3436.279981	747914.8786
Feb-17	3.374210706	154293.9823	209441.0833	69836.03372	296702.8916	-1674.956415	655330.4664
Jan-17	2.578371331	217700.2757	206210.27	76175.90378	308420.5885	-1204.892569	769495.9236
Dec-16	3.121540375	240459.4317	237603.956	76099.51167	320732.5529	-1570.721205	808379.7094
Nov-16	5.622507772	156201.5772	252167.1584	74723.76828	305817.2965	-3084.597262	682692.4684
Oct-16	10.82483931	150504.7075	267439.3033	80724.63423	334369.2099	-6223.047822	722720.1755
Sep-16	17.00802708	208599.0399	267293.3496	84929.91237	314631.5895	-9992.778714	796339.8147
Aug-16	21.22567762	244852.4345	229678.4663	91382.94181	344476.1342	-12520.89189	886865.9026
Jul-16	21.63349032	255286.9813	193367.4534	89431.46444	335172.293	-12800.62986	886346.0116
Jun-16	19.15663789	203965.8979	180044.5243	87224.85813	351494.9686	-11273.29048	826564.8308
May-16	15.39538179	146380.0505	200385.8952	82550.83899	347200.4169	-8994.996768	730605.033
Apr-16	10.03565716	123836.1017	186759.9639	73723.80499	328973.3156	-5751.831461	656004.4994
Mar-16	6.595806481	158446.0631	172026.149	77278.65424	342920.4356	-3630.609871	726848.2984
Feb-16	3.446283088	250894.3669	168733.0691	77938.1287	313978.2963	-1769.679224	816100.464
Jan-16	2.646329287	294317.1739	170679.9378	78086.98133	310384.4932	-1273.032139	871231.8635
Dec-15	2.994948234	159076.3511	197333.6565	70892.01298	321373.9853	-1599.583617	687097.0022
Nov-15	5.477437785	138584.078	207078.4919	71968.58729	303372.9546	-3141.277542	645260.392
Oct-15	10.65532176	137516.3717	231640.2954	82314.89421	323727.3804	-6337.39795	695602.8676
Sep-15	16.81261549	181796.2839	219058.0644	89723.50046	310862.0343	-10176.39863	764362.6808
Aug-15	20.96601882	230622.5092	203597.7085	94416.46156	333259.9473	-12750.96655	860774.5933
Jul-15	21.42659951	240059.6809	180953.0528	94982.02578	315783.3295	-13035.84477	857339.3703
Jun-15	18.89937437	198107.1167	171508.7836	92066.77526	316931.9264	-11480.44013	793879.1281
May-15	15.18054165	156474.0237	165667.9354	90132.90341	319986.253	-9160.282181	741317.6084
Apr-15	9.860947337	129965.8571	183994.9836	82233.0633	309083.4534	-5857.522865	671984.6701
Mar-15	6.389206742	192020.7884	173869.0531	81571.85455	313217.5522	-3697.323275	749124.8219
Feb-15	3.307692934	319268.5957	191592.7179	87109.28922	282799.4826	-1802.197542	896541.7516
Jan-15	2.514103912	302995.5499	151770.381	83298.66993	297272.077	-1296.424436	882257.4509
Dec-14	3.070635385	224108.6443	165442.6915	76023.55426	280883.8919	-1554.727228	752918.7937
Nov-14	5.51249258	206674.8132	204220.1517	78273.68674	262550.2123	-3053.188138	716626.3317
Oct-14	10.64451701	135967.2437	203522.7777	81108.81939	288936.0337	-6159.68121	662420.9001
•	16.69812839				266799.5661	-9891.026558	732923.4075
Aug-14	20.81328515	214659.5861	196800.1221	93106.65035	289108.774	-12393.39705	801232.3678
Jul-14	21.26578565	224171.3617	172641.8677	96122.01554	270431.2242	-12670.28657	800040.2094
Jun-14	18.77191792	197306.2184	169713.7357	92713.34698	275769.2227	-11158.49942	765110.9568
May-14	15.11766927	147473.7623	185916.8754	87048.49529	288487.464	-8903.404595	694510.9418

Apr-14	9.810566084	142479.4917	243855.5522	82444.35063	266862.9416	-5693.263041	650692.176
Mar-14	6.396188223	211172.7744	212056.2761	82872.39612	272862.5977	-3593.640937	746422.1781
Feb-14	3.339643032	284651.8233	183101.6545	85558.74196	236506.9022	-1751.659344	817025.4238
Jan-14	2.589621728	378711.3457	164588.8446	87435.50087	258173.199	-1260.069401	966918.1181
Dec-13	2.943469948	249078.2863	180389.5072	76616.39732	266875.1338	-1512.357594	776977.2786
Nov-13	5.34400506	188594.0614	210461.8963	78190.13255	256287.622	-2969.982247	689820.9134
Oct-13	10.37059748	142689.7873	221964.6287	82191.63274	272287.3032	-5991.816755	663829.1447
Sep-13	16.30546665	181396.2065	216729.9411	84007.04813	260639.4948	-9621.474981	713237.702
Aug-13	20.34344631	201367.1698	198186.5867	88452.82413	274940.0656	-12055.65054	760714.9547
Jul-13	20.77587847	194349.4342	162557.8399	86436.32722	247535.9455	-12324.99422	719540.2663
Jun-13	18.34828007	186289.2767	172175.2951	87626.19386	257945.4704	-10854.40651	725245.0345
May-13	14.76344356	132673.7035	173454.3598	79216.6025	271060.9869	-8660.767824	639747.98
Apr-13	9.603096289	135070.3603	199985.0644	74534.99043	259166.5426	-5538.109476	615013.7679
Mar-13	6.234510907	229878.7288	209163.274	80873.15215	267111.4131	-3495.706554	765966.5399
Feb-13	3.214563461	226104.4406	166005.5609	73055.89315	233911.7123	-1703.92289	705240.3907
Jan-13	2.475013903	234862.694	156549.9582	77215.2175	246937.7705	-1225.729822	741787.4108
Dec-12	2.909865107	196676.9384	183869.5299	69586.23924	252196.9616	-1476.426946	682654.5576
Nov-12	5.370270246	172515.4128	198234.8505	72476.42483	253090.6608	-2899.421298	666697.2311
Oct-12	10.42486357	143899.9236	219528.7524	81180.14562	274230.8353	-5849.462948	674424.9192
Sep-12	16.38627977	185127.6241	215205.6758	83610.46566	254869.7893	-9392.887618	717829.0862
Aug-12	20.46552762	214195.156	192140.4482	89053.42515	279434.5971	-11769.23194	789992.4763
Jul-12	20.87634769	244076.6338	158370.9639	90007.48389	253912.3649	-12032.17655	807625.4778
	18.45002145				267902.5419	-10596.52711	735759.35
•	14.83843135				274960.2083	-8455.004977	709580.9693
Apr-12	9.630867116	133031.2374	189713.6008	79802.93868	257391.8119	-5406.534864	635509.0217
Mar-12	6.25564481	152823.0283	175055.9049	81781.19582	270289.7534	-3412.655427	670220.6467
Feb-12	3.242961609	193190.1749	151827.1596	76217.15385	248942.5441	-1663.441026	688715.8238
	2.471013368				249059.6681	-1196.608887	747305.4531
	3.05641374				274510.58	-1430.364745	799444.5944
Nov-11	5.536146716	179025.6262	195133.2399	78304.42718	266000.106	-2808.96391	700571.2559
	10.66978661				275834.3178	-5666.968896	714194.4134
-	16.79694196					-9099.844285	819452.2736
Aug-11	20.96810512	302916.2866	198155.0437	101461.2119	297444.3085	-11402.0504	957734.0742
Jul-11	21.3572561	303629.1343	163333.8468	100889.4986	259195.0443	-11656.79155	919517.5462
Jun-11	18.90864544	265996.2129	149028.8011	99583.67134	275993.3244	-10265.93212	883493.3435

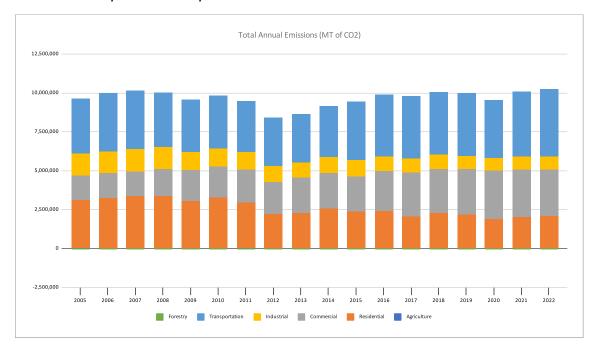
May-11	15.21174878	198522.2174	172655.8128	104367.6415	282204.6856	-8191.222109	814522.4902
Apr-11	9.906966324	173924.7354	168401.4698	93989.21207	274110.5702	-5237.859473	743006.8351
Mar-11	6.472335313	217073.2852	136169.141	95927.22237	281911.6588	-3306.18594	801053.5361
Feb-11	3.379271443	283225.2036	160327.9791	87892.31712	255507.4688	-1611.54428	828698.3263
Jan-11	2.570137575	424610.4516	154460.9267	93023.22649	253553.8968	-1159.27657	1030080.928
Dec-10	3.492751434	372815.6549	162447.2013	92067.1603	287236.8268	-1395.60955	1011561.553
Nov-10	6.242803183	187567.8894	174849.0799	87259.1754	272596.5243	-2740.711326	741907.2136
Oct-10	11.98444517	173022.1462	195659.7195	91712.39882	283154.1016	-5529.272122	749043.9567
Sep-10	18.85403281	252102.8014	192875.6373	98618.083	280969.775	-8878.735042	869689.5244
Aug-10	23.47300689	305599.524	174082.2344	104657.2502	294647.2012	-11125.00184	967616.1682
Jul-10	23.98335745	308039.5233	162244.5898	102281.5792	278630.289	-11373.55326	949626.0352
Jun-10	21.26058773	256616.6252	143005.458	100326.7103	293704.6859	-10016.48911	894938.7473
May-10	17.08171568	183055.9578	175057.8659	101143.8424	294667.0927	-7992.19069	800119.0621
Apr-10	11.17975478	178761.9173	217447.4913	96763.95725	284408.0399	-5110.589257	768979.5634
Mar-10	7.335472073	288498.2096	141390.4651	96720.07335	293794.0822	-3225.851789	910393.5294
Feb-10	3.823956867	346595.0552	142577.8327	89609.91341	256968.592	-1572.38676	929654.357
Jan-10	2.969813857	421132.4888	129385.2064	92500.16743	270017.6828	-1131.108312	1052435.795
Dec-09	4.145759661	330253.1634	155990.2637	90823.96139	284772.7847	-1389.431155	942767.8116
Nov-09	7.142153312	187539.5638	182065.2033	87367.8401	264172.064	-2728.578134	726090.6611
Oct-09	13.49179567	200716.7099	185700.4068	100969.4424	281490.8506	-5504.793907	803975.2967
Sep-09	21.02456189	227949.0805	189551.1751	100607.0393	274926.4132	-8839.428678	832371.5338
Aug-09	26.14539627	281456.5097	196188.6868	106421.9718	291726.02	-11075.7512	929487.3191
Jul-09	26.7065875	301219.5225	162917.9425	102986.8506		-11323.20228	934128.7629
Jun-09	23.64361503				291091.9395	-9972.145886	884407.8668
May-09		194937.8569			285285.4872	-7956.809078	808371.6528
Apr-09	12.56088452	182704.7227	175179.1283	90181.57919	280475.9014	-5087.964561	754135.2518
	8.336148975				283450.1287	-3211.570869	816192.4723
	4.518348053				257960.294	-1565.425767	873832.3483
Jan-09	3.525530032	355085.5852	125952.7723	97378.60425	270108.5845	-1126.100869	979120.1393
Dec-08	3.942678937	322032.889	162308.3211	97503.35122	284266.8225	-1380.779481	945747.1055
	7.180562915				268842.9013	-2711.587896	851971.3441
Oct-08	14.01113237	210184.4637	189371.0615	117192.4828	300612.5609	-5470.516802	857071.8649
Sep-08	22.05759663	268686.828	180805.3864	122572.2572	271795.5997	-8784.387557	924904.8202
Aug-08	27.4893593	306600.1918	178579.4145	124807.3134	297842.1834	-11006.78501	998697.4536
Jul-08	28.08221167	314288.9199	140074.9821	125711.1344	279319.6017	-11252.69526	992706.4674

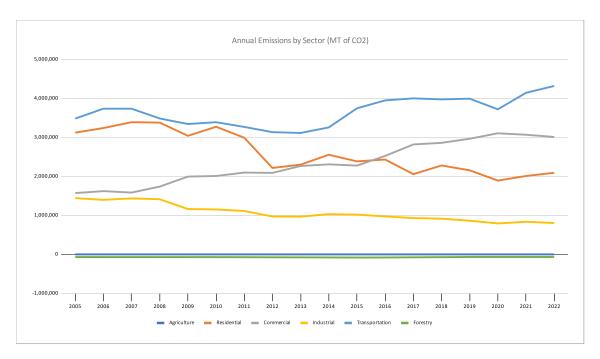
Jun-08	24.83429685	284406.0684	134956.5953	122087.6819	292301.7552	-9910.051591	957493.458
May-08	19.98169283	212385.2557	140416.4351	125822.3079	298923.4761	-7907.263829	882736.3394
Apr-08	13.02569966	211458.7992	132907.0136	122204.5847	291084.9331	-5056.282958	859889.4876
Mar-08	8.477321167	273598.0113	122349.899	122106.7885	311737.5188	-3191.573144	958399.0148
Feb-08	4.441038795	329883.0512	113510.0509	115366.3251	290619.3283	-1555.678216	997016.1855
Jan-08	3.43819394	396929.4615	84593.34601	113739.4627	298980.3234	-1119.088894	1077290.336
Dec-07	4.770045712	294498.024	92177.28307	113822.2274	297813.3166	-1371.19047	945843.9773
Nov-07	8.425749967	242913.8964	121070.2308	115004.9136	292237.858	-2692.756904	887084.5885
Oct-07	15.94049423	221029.5869	164933.663	119984.6198	318298.4321	-5432.526052	898279.4628
Sep-07	24.86328334	300486.906	167806.406	124764.3821	312006.2217	-8723.38318	1013031.914
Aug-07	30.86825455	340613.4373	140349.3531	124184.9374	338454.279	-10930.34689	1082318.879
Jul-07	31.38970745	298272.6355	113047.5759	122943.327	300670.1437	-11174.54938	982948.5791
Jun-07	27.84100265	275686.5852	113837.8429	120957.7932	317916.0675	-9841.229887	969207.4937
May-07	22.57515017	212915.5647	151438.6231	123945.1765	331760.3911	-7852.350758	905167.2597
Apr-07	14.81139739	220962.1224	145108.6877	118560.1392	309388.9094	-5021.168911	879917.346
Mar-07	9.893815596	266102.4079	158762.7807	125452.1748	325544.3621	-3169.408829	970444.8461
Feb-07	5.318190805	363556.6428	113939.9778	114347.9348	290301.7065	-1544.874596	1020846.409
Jan-07	4.24811054	354022.2438	103340.9291	112849.1611	302281.3335	-1111.317228	1024072.136
Dec-06	5.285930715	300077.4737	115754.3609	106069.7506	309113.0259	-1363.643619	956840.3201
Nov-06	9.074856089	236817.4189	150422.85	103827.8625	296818.4705	-2677.936325	868678.3304
Oct-06	16.85220375	224544.4616	166310.4222	118778.2273	317498.0637	-5402.626146	906922.9221
Sep-06	25.92324475	282548.8845	176300.9707	119403.1809	304554.441	-8675.37083	972269.7101
Aug-06	32.26967124	334242.0341	146859.2855	125808.9876	335512.7519	-10870.1877	1082938.362
Jul-06	32.84478519	316460.0989	110576.4203	121158.9046	301812.0581	-11113.04614	1010995.58
Jun-06	29.21382065	263784.4457	111364.8521	117695.5423	319346.6231	-9787.065057	946960.2707
-			110628.5783		326147.0487	-7809.132456	864370.5033
Apr-06	15.63064512	191226.5386	165807.3556	113621.4299	315061.25	-4993.53306	831322.0369
Mar-06	10.61408392	264121.1263	134623.3102	122169.2889	331230.2461	-3151.964821	956792.0572
Feb-06	5.767828225	311837.5756	127519.8653	115628.3606	287412.049	-1536.37181	950230.6707
Jan-06	4.650068862	318668.6775	106712.5145	112051.5635	293416.1648	-1105.200685	962711.9806
Dec-05	5.387321725	351465.7412	121408.1733	113917.2154	311356.5979	-1349.491407	1031848.829
Nov-05	9.363874181	215625.186	149864.7873	111677.0268	302955.9551	-2650.144078	867297.4892
Oct-05	17.4581033	226869.9663	154656.9819	126141.9476	316743.5139	-5346.556433	922931.5381
Sep-05	27.22302386	264620.1742	149569.6476	123548.5691	312058.6519	-8585.335811	961090.2285
Aug-05	33.71155353	283509.1788	128466.1121	127784.1976	331530.0119	-10757.37436	1012989.325

Jul-05	34.26496566	277100.815	113209.6746	121439.4105	272413.1498	-10997.71236	936365.3201
Jun-05	30.41718318	224519.3063	125908.4487	118365.5842	277710.8701	-9685.492616	865806.3875
May-05	24.59504532	184240.6471	157090.4683	127115.8181	285165.0237	-7728.08746	829733.9996
Apr-05	16.17444189	183839.841	128999.6346	116431.2923	274113.2952	-4941.709011	781188.9838
Mar-05	10.747564	276693.774	111442.2152	123421.0186	282298.61	-3119.252996	924330.8843
Feb-05	5.771705476	299997.5628	128904.5455	118851.7619	251309.8829	-1520.426986	898118.3052
Jan-05	4.606836416	334329.3319	103711.7304	115550.2236	265567.457	-1093.730655	964448.3751

		Tot	al Monthly Ele	ctricity Consum	ption per Sect	or (KWh) (Based	l on Georgia Po	wer Files Receiv	ed from the Co	ounty)			
_						Mon	ths						
Sectors	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total (KWh)
Administration	1,391,499	1,162,887	1,074,981	1,271,289	1,193,943	1,342,590	1,517,424	1,502,088	1,417,431	1,516,398	1,160,283	1,245,105	15,795,918
Airport	80,265	83,624	73,526	72,503	65,385	66,431	79,315	78,950	74,385	76,078	63,535	77,276	891,273
Facilities Management	1,462,908	1,495,332	1,317,223	NA	1,442,342	1,545,064	1,705,784	1,629,243	1,626,261	1,682,406	1,536,375	1,700,165	17,143,103
Fire Stations	774,123	NA	639,269	721,887	693,642	756,486	854,733	797,957	766,679	799,920	679,543	687,765	8,172,004
Parks	360,449	406,589	306,052	270,426	298,427	449,135	545,833	512,956	448,774	441,954	341,043	383,901	4,765,539
Police	365,391	360,547	311,485	310,791	296,821	387,438	412,028	416,159	405,403	369,059	281,689	313,342	4,230,153
Sanitation	195,239	220,075	200,517	180,595	178,374	194,908	197,999	215,146	210,702	218,958	167,822	201,459	2,381,794
Senior Centers	239,252	245,012	227,769	232,305	235,187	NA	282,011	308,659	283,943	277,510	230,929	232,423	2,795,000
Street Lights and Highwa	1,847,490	1,784,270	1,595,081	1,712,843	1,683,815	2,005,347	2,056,713	1,994,899	1,913,050	1,936,505	2,100,038	1,828,924	22,458,975
Watershed	6,513,769	6,543,855	5,855,532	6,243,812	5,865,508	6,358,140	6,234,001	6,172,421	5,959,316	6,767,743	6,400,011	6,122,336	75,036,444

DeKalb County Emissions by Sector







Emission Factors for Greenhouse Gas Inventories

Blue text indicates an update from the 2022 version of this document.

Typically, greenhouse gas emissions are reported in units of carbon dioxide equivalent (CO2e). Gases are converted to CO2e by multiplying by their global warming potential (GWP). The emission factors listed in this document have not been converted to CO2e. To do so, multiply the emissions by the corresponding GWP listed in the table below.

Gas	100-Year GWP
CH4	25
N2O	298
Source: Intergovernmental Panel on Climate	Change (IDCC) Fourth /

Source: Intergovernmental Panel on Climate Change (IPCC), Fourth Assessment Report (AR4), 2007. See the source note to Table 11 for further explanation.

Table 1 Stationary Combustion

Fuel Type	Heat Content (HHV)	CO2 Factor	CH4 Factor	N2O Factor	CO2 Factor	CH4 Factor	N2O Factor
	mmBtu per short ton	kg CO2 per mmBtu	g CH4 per mmBtu	g N2O per mmBtu	kg CO2 per short ton	g CH4 per short ton	g N2O per short ton
Natural Gas							
Natural Gas	0.001026	53.06	1.0	0.10	0.05444	0.00103	0.00010
Other Fuels - Gaseous							
Propane Gas	0.002516	61.46	3.0	0.60	0.15463	0.007548	0.001510
Petroleum Products							
Distillate Fuel Oil No. 2	0.138	73.96	3.0	0.60	10.21	0.41	0.08
Biomass Fuels - Liquid							
Biodiesel (100%)	0.128	73.84	1.1	0.11	9.45	0.14	0.01

Source: Federal Register EPA; 40 CFR Part 98; e-CFR, (see link below). Table C-1 and Table C-2 (78 FR 71950, Nov. 29, 2013, as amended at 81 FR 89252, Dec. 9, 2016), Table AA-1 (78 FR 71965, Nov. 29, 2013).

Emission factors are per unit of heat content using higher heating values (HHV). If heat content is available from the fuel supplier, it is preferable to use that value. If not, default heat contents are provided. The factors represented in the table above represent combustion emissions only (tank-to-wheel) and do not represent upstream emissions or well-to-wheel emissions.

Table 2 Mobile Combustion CO2

Fuel Type	kg CO2 per unit	Unit
Biodiesel (100%)	9.45	gallon
Compressed Natural Gas (CNG)	0.05444	scf
Diesel Fuel	10.21	gallon
Motor Gasoline	8.78	gallon

Federal Register EPA; 40 CFR Part 98; e-CFR, (see link below). Table C-1 (78 FR 71950, Nov. 29, 2013, as amended at 81 FR 89252, Dec. 9, 2016) https://www.ecfr.gov/current/title-40/chapter-l/subchapter-Cipart-98

LNG: The factor was developed based on the CO2 factor for Natural Gas factor and LNG fuel density from GREET1_2022.xisx Model, Argonne National Laboratory (Fuel_Specs worksheet).

The factors represented in the table above represent combustion emissions only (tank-to-wheel) and do not represent upstream emissions or well-to-wheel emissions.

Table 3 Mobile Combustion CH4 and N2O for On-Road Gasoline Vehicles

Vehicle Type	Year	CH4 Factor (g / mile)	N2O Factor (g / mile)
Gasoline Passenger Cars	1973-1974	0.1696	0.0197
	1975	0.1423	0.0443
	1976-1977	0.1406	0.0458
	1978-1979	0.1389	0.0473
	1980	0.1326	0.0499
	1981	0.0802	0.0626
	1982	0.0795	0.0627
	1983	0.0782	0.0630
	1984-1993	0.0704	0.0647
	1994	0.0617	0.0603
	1995	0.0531	0.0560
	1996	0.0434	0.0503
	1997	0.0337	0.0446
	1998	0.0240	0.0389
	1999	0.0215	0.0355
	2000	0.0175	0.0304
	2001	0.0105	0.0212
	2002	0.0102	0.0207
	2003	0.0095	0.0181
	2004	0.0078	0.0085
	2005	0.0075	0.0067
	2006	0.0076	0.0075
	2007	0.0072	0.0052
	2008	0.0072	0.0049
	2009	0.0071	0.0046
	2010	0.0071	0.0046
	2011	0.0071	0.0046
	2012	0.0071	0.0046
	2013	0.0071	0.0046
	2014	0.0071	0.0046
	2015	0.0068	0.0042
	2016	0.0065	0.0038
	2017	0.0054	0.0018
	2018	0.0052	0.0016
	2019	0.0051	0.0015
	2020	0.0050	0.0014
Gasoline Light-Duty Trucks	1973-1974	0.1908	0.0218
(Vans, Pickup Trucks, SUVs)	1975	0.1634	0.0513
(,,	1976	0.1594	0.0555
	1977-1978	0.1614	0.0534
	1979-1980	0.1594	0.0555
	1981	0.1479	0.0660
	1982	0.1442	0.0681

	1983	0.1368	0.0722
	1984	0.1294	0.0764
	1985	0.1220	0.0806
	1986 1987-1993	0.1146 0.0813	0.0848 0.1035
	1994	0.0613	0.1035
	1995	0.0517	0.0902
	1996	0.0452	0.0300
	1997	0.0452	0.0871
	1998	0.0412	0.0787
	1999	0.0333	0.0618
	2000	0.0340	0.0631
	2001	0.0221	0.0379
	2002	0.0242	0.0424
	2003	0.0221	0.0373
	2004	0.0115	0.0088
	2005	0.0105	0.0064
	2006	0.0108	0.0080
	2007	0.0103	0.0061
	2008	0.0095 0.0095	0.0036
	2010	0.0095	0.0036
	2010	0.0095	0.0035
	2012	0.0096	0.0034
	2013	0.0095	0.0035
	2014	0.0095	0.0033
	2015	0.0094	0.0031
	2016	0.0091	0.0029
	2017	0.0084	0.0018
	2018	0.0081	0.0015
	2019	0.0080	0.0013
	2020	0.0079	0.0012
Gasoline Heavy-Duty Vehicles	≤1980	0.4604	0.0497
	1981-1984 1985-1986	0.4492	0.0538
	1985-1986	0.4090 0.3675	0.0515 0.0849
	1988-1989	0.3675	0.0849
	1990-1995	0.3492	0.0933
	1996	0.3246	0.1680
	1997	0.0924	0.1726
	1998	0.0655	0.1750
	1999	0.0648	0.1724
	2000	0.0630	0.1660
	2001	0.0577	0.1468
	2002	0.0634	0.1673
	2003	0.0602	0.1553
	2004	0.0298	0.0164
	2005	0.0297	0.0083
	2006	0.0299	0.0241
	2007	0.0322	0.0015
	2008	0.0340	0.0015
	2009	0.0339 0.0320	0.0015 0.0015
	2010	0.0320	0.0015
	2012	0.0304	0.0015
	2012	0.0313	0.0015
	2014	0.0315	0.0015
	2015	0.0332	0.0013
	2016	0.0321	0.0061
	2017	0.0329	0.0084
	2018	0.0326	0.0082
	2019	0.0330	0.0091
	2020	0.0328	0.0098
	1960-1995	0.0070	0.0083
Sasoline Motorcycles	1960-1995 1996-2005	0.0070 0 0.0070	0.0083 0.0083

Notes:
Emission factor updates due to a methodology change.
The factors represented in the table above represent combustion emissions only (tank-to-wheel) and do not represent upstream emissions or well-to-wheel emissions.

Table 4 Mobile Combustion CH4 and N2O for On-Road Diesel and Alternative Fuel Vehicles

Vehicle Type	Fuel Type	Vehicle Year	(g / mile)	N2O Factor (g / mile)
		1960-1982	0.0006	0.0012
Passenger Cars	Diesel	1983-2006	0.0005	0.0010
		2007-2020	0.0302	0.0192
		1960-1982	0.0011	0.0017
Light-Duty Trucks	Diesel	1983-2006	0.0009	0.0014
		2007-2020	0.0290	0.0214
Medium- and Heavy-Duty Vehicles	Diesel	1960-2006	0.0051	0.0048
iviediditi- and neavy-buty verticles	Diesei	2007-2020	0.0095	0.0431
	Methanol		0.0150	0.0040
	Ethanol		0.0150	0.0040
Light-Duty Cars	CNG		0.1460	0.0040
	LPG		0.0150	0.0040
	Biodiesel		0.0300	0.0190
	Ethanol		0.0160	0.0050
	CNG		0.1580	0.0050
Light-Duty Trucks	LPG		0.0160	0.0050
	LNG		0.1580	0.0050
	Biodiesel		0.0290	0.0210
	CNG		1.8290	0.0010
Medium-Duty Trucks	LPG		0.0090	0.0180
Medium-Duty Trucks	LNG		1.8290	0.0010
	Biodiesel		0.0090	0.0430
	Methanol		0.0750	0.0280
	Ethanol		0.0750	0.0280
Heavy-Duty Trucks	CNG		0.9210	0

0070C0Blue text indicates an update from the 2022 version of this Editoristations for Greenhouse Gas Inventories Last Modified: 12 September 2023

- MOOURE LINES LENOVO			
Heavy-Duty Trucks	LPG	0.0030	0.0070
	LNG	0.9210	0
	Biodiesel	0.0090	0.0430
	Methanol	0.1020	0.0470
	Ethanol	0.1020	0.0470
Buses	CNG	2.7870	0.0010
buses	LPG	0.0100	0.0110
	LNG	2.7870	0.0010
	Biodiesel	0.0090	0.0430

Source: EPA (2022) Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2020 (Annexes). All values are calculated from Tables A-88 through A-90.

Notes:
Emission factor updates due to a methodology change.
The factors represented in the table above represent combustion emissions only (tank-to-wheel) and do not represent upstream emissions or well-to-wheel emissions.

Table 5 Mobile Combustion CH4 and N2O for Non-Road Vehicles

Vehicle Type	Fuel Type	CH4 Factor (g / gallon)	N2O Factor (g / gallon)	
	Residual Fuel Oil	1.11	0.32	
	Gasoline (2 stroke)	4.61	0.08	
Ships and Boats	Gasoline (4 stroke)	2.25	0.01	
	Diesel	6.41	0.17	
Locomotives	Diesel	0.80	0.26	
Aircraft	Jet Fuel	0	0.30	
Aircraft	Aviation Gasoline	7.06	0.11	
	Gasoline (2 stroke)	6.92	0.47	
	Gasoline (4 stroke)	1.93	1.20	
	Gasoline Off-Road Trucks	1.93	1.20	
Agricultural EquipmentA	Diesel Equipment	1.27	1.07	
	Diesel Off-Road Trucks	0.91	0.56	
	LPG	0.33	0.94	
	Gasoline (2 stroke)	7.98	0.12	
	Gasoline (4 stroke)	2.85	1.47	
	Gasoline Off-Road Trucks	2.85	1.48	
Construction/Mining EquipmentB	Diesel Equipment	1.01	0.94	
	Diesel Off-Road Trucks	0.91	0.56	
	LPG	0.59	0.50	
	Gasoline (2 stroke)	7.28	0.31	
10 1 5 1 1	Gasoline (4 stroke)	2.99	1.49	
Lawn and Garden Equipment	Diesel	0.67	0.49	
	LPG	0.41	0.63	
	Gasoline	1.03	1.07	
Airport Equipment	Diesel	1.88	1.16	
	LPG	0.35	0.89	
	Gasoline (2 stroke)	7.12	0.50	
	Gasoline (4 stroke)	2 74	1.54	
ndustrial/Commercial Equipment	Diesel	0.41	0.60	
	IPG	0.45	0.64	
	Gasoline (2 stroke)	9.68	0.01	
ogging Equipment	Gasoline (4 stroke)	3.24	2.05	
	Diesel	0.48	1.27	
	Gasoline	3.24	1.81	
Railroad Equipment	Diesel	0.38	0.95	
• •	LPG	1.99	0.01	
	Gasoline (2 stroke)	17.61	0.11	
	Gasoline (4 stroke)	2.87	1.50	
Recreational Equipment	Diesel	0.73	0.66	
	LPG	0.43	0.60	

Notes:
Emission factor updates due to a methodology change.
The factors represented in the table above represent combustion emissions only (tank-to-wheel) and do not represent upstream emissions or well-to-wheel emissions.
A Includes equipment, such as tractors and combine, as well as fuel consumption from trucks that are used off-road in agriculture.
B Includes equipment, such as cranes, dumpers, and excavators, as well as fuel consumption from trucks that are used off-road in construction.

	Tota	I Output Emission Fac	tors	Non-Baseload Emission Factors				
eGRID Subregion Acronym	eGRID Subregion Name	CO2 Factor	CH4 Factor	N2O Factor	CO2 Factor	CH4 Factor	N2O Factor	
		(lb / MWh)	(lb / MWh)	(lb / MWh)	(lb / MWh)	(lb / MWh)	(lb / MWh)	
SRSO	SRSO (SERC South)	891.9	0.067	0.010	1,384.6	0.101	0.015	
US Average	US Average	852.3	0.071	0.010	1,410.0	0.110	0.016	

Source: EPA eGRID2021, February 2023 (Table 1. Subregion Output Emission Rates)

Whites //www.asa_govieral/download-data
Notes:
Total output emissions factors can be used as default factors for estimating GHG emissions from electricity use when developing a carbon footprint or emissions inventory. Annual non-baseload output emission factors should not be used when developing a carbon footprint or emissions inventory, but can be used to estimate GHG emissions reductions on the grid from changes in electricity use.
For technical information, reference the EPA's eGRID Technical Guide
For technical information, reference the EPA's eGRID Technical Guide

https://www.epa.gov/system/files/documents/2023-01/eGRID2021 technical guide.pdf
The factors represented in the table above represent combustion emissions only (tank-to-wheel) and do not represent upstream emissions or well-to-wheel emissions.



0070C0Blue text indicates an update from the 2022 version of this Entries for Greenhouse Gas Inventories Last Modified: 12 September 2023



Table 7 Steam and Heat

	CO2 Factor	CH4 Factor	N2O Factor
	(kg / mmBtu)	(g / mmBtu)	(g / mmBtu)
Steam and Heat	66.33	1.250	0.125

Emission factors are per mmBtu of steam or heat purchased. These factors assume natural gas fuel is used to generate steam or heat at 80 percent thermal efficiency. The factors represented in the table above represent combustion emissions only (tank-to-wheel) and do not represent upstream emissions or well-to-wheel emissions

Scope 3 Emission Factors

Scope 3 emission factors provided below are aligned with the Greenhouse Gas Protocol Technical Guidance for Calculation Guidance for more information (http://www.ghgprotocol.org/scope-3-technical-calculation-guidance)

Table 8 Scope 3 Category 4: Upstream Transportation and Distribution and Category 9: Downstream Transportation and Distribution

These factors are intended for use in the distance-based method defined in the Scope 3 Calculation Guidance. If fuel data are available, then the fuel-based method should be used, with factors from Tables 2 through 5.

Vehicle Type	CO2 Factor (kg / unit)	CH4 Factor (g / unit)	N2O Factor (g / unit)	Units
Medium- and Heavy-Duty Truck	1.387	0.013	0.038	vehicle-mile
Passenger Car A	0.313	0.008	0.007	vehicle-mile
Light-Duty Truck B	0.467	0.013	0.012	vehicle-mile
Medium- and Heavy-Duty TruckC	0.170	0.0016	0.0047	ton-mile
Rail	0.021	0.0016	0.0005	ton-mile
Waterborne Craft	0.044	0.0254	0.0011	ton-mile
Aircraft	0.698	0	0.0215	ton-mile

Source:
CO2, C.H.4, and N2O emissions data for road vehicles are from Table 2-13 of the EPA (2022) Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2020.
Vehicle-miles and passenger-miles data for road vehicles are from Table VM-1 of the Federal Highway Administration Highway Statistics 2020.
Vehicle-miles and passenger-miles data for ron-road vehicles are based on Table 4-107 of the EPA (2022) Inventory of U.S. Greenhouse Gas Emissions data for non-road vehicles are based on Table 4-107 of the EPA (2022) Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2020, which are distributed into CO2, CH4, and N2O emissions based on fuel/vehicle emission factors. Freight ton-mile data are from Table 1-50 of the Bureau of Transportation Statistics, National Transportation Statistics for 2021 (2020 data).

Notes:
Vehicle-mile factors are appropriate to use when the entire vehicle is dedicated to transporting the reporting company's product. Ton-mile factors are appropriate when the vehicle is shared with products from other companies. The factors represented in the table above represent combustion emissions only (tank-to-wheel) and do not represent upstream emissions or well-to-wheel emissions.

A Passenger car. includes passenger cars, minivans, SUVs, and small pickup trucks (vehicles with wheelbase less than 121 inches).

E light-duly truck: includes full-size pickup trucks, little laze vans, and extended-ength SUVs (vehicles with wheelbase greater than 121 inches).

C Medium- and Heavy-Duty Truck: includes Combination Trucks and single frame trucks that have 2-Axies and at least 6 tires or a gross vehicle weight rating exceeding 10,000 lbs.

Table 9 Scope 3 Category 5: Waste Generated in Operations and Category 12: End-of-Life Treatment of Sold Products

These factors are intended for use in the waste-type-specific method or the average-data method defined in the Scope 3 Calculation Guidance for category 5 and category 12. Choose the appropriate material and disposal method from the table below. For the average-data method, use one of the mixed material types, such as mixed MSW

	Metric Tons CO2e / Short Ton Material								
Material	RecycledA	LandfilledB	CombustedC	CompostedD	Anaerobically Digested (Dry Digestate with Curing)	Anaerobically Digested (Wet Digestate with Curing)			
Mixed MSW	NA NA	0.52	0.43	NA	NA NA	NA.			

[MIXED MOW]

NVA | U.3.2 | U.43 | IVA]

NVA | NVA | IVA | IV

Notes: These factors do not include any avoided emissions impact from any of the disposal methods. All the factors presented here include transportation emissions, which are optional in the Scope 3 Calculation Guidance, with an assumed average distance traveled to the processing facility. AR4 GWPs are used to

- convert all waste emission factors into CO2e.

 A Recycling emissions include transport to recycling facility and sorting of recycled materials at material recovery facility.
- A new-young unassaura survavae surrapura un veryounary licensy and sorting or nevyoura milestreas at minerate and underscovery licensy and sorting or nevyourage licensy and sorting or new licensy li

Table 10 Scope 3 Category 6: Business Travel and Category 7: Employee Commuting

These factors are intended for use in the distance-based method defined in the Scope 3 Calculation Guidance. If fuel data are available, then the fuel-based method should be used, with factors from Tables 2 through 5.

Vehicle Type	CO2 Factor (kg / unit)	CH4 Factor (g / unit)	N2O Factor (g / unit)	Units
Passenger Car A	0.313	0.008	0.007	vehicle-mile
Light-Duty Truck B	0.467	0.013	0.012	vehicle-mile
Motorcycle	0.178	0.111	0.019	vehicle-mile
Intercity Rail - Northeast Corridor C	0.058	0.0055	0.0007	passenger-mile
Intercity Rail - Other Routes C	0.150	0.0117	0.0038	passenger-mile
Intercity Rail - National Average C	0.113	0.0092	0.0026	passenger-mile
Commuter Rail D	0.135	0.0109	0.0027	passenger-mile
Transit Rail (i.e. Subway, Tram) E	0.096	0.0080	0.0011	passenger-mile
Bus	0.055	0.0063	0.0011	passenger-mile
Air Travel - Short Haul (< 300 miles)	0.207	0.0064	0.0066	passenger-mile
Air Travel - Medium Haul (>= 300 miles, < 2300 miles)	0.129	0.0006	0.0041	passenger-mile
Air Travel - Long Haul (>= 2300 miles)	0.163	0.0006	0.0052	passenger-mile

0070C0Blue text indicates an update from the 2022 version of this Editoristations for Greenhouse Gas Inventories Last Modified: 12 September 2023

Notes:

The factors represented in the table above represent combustion emissions only (tank-to-wheel) and do not represent upstream emissions or well-to-wheel emissions.

CH4 and N2O emission factor updates for motorcycle and bus due to a methodology change.

A Passenger car: includes passenger cars, minkvans, SUVs, and small pickup trucks (whiches with wheelbase less than 121 inches).

B Light-duty truck-includes fill-12ep pickup trucks, Hillsze's vans, and extended-length SUVs (whiches with wheelbase greater than 121 inches).

C Intercity rait. Antrak forg-distance rait between major cities. Northeast Cornidor extends from Boston to Washington D.C. Other Routes are all routes outside the Northeast Cornidor.

D Commuter rait all service between a central city and adjacent suburbs (also called regional air or suburbars rail or suburbars air air or suburbars air or suburbars rail or suburbars air or suburbars air or suburbars rail or suburbars air or suburba

Table 11 Global Warming Potentials (GWPs)

Gas	100-Year GWP
CO2	
CH4	2
N2O	29
HFC-23	14,80
HFC-32	67
HFC-41	9
HFC-125	3,50
HFC-134	1,10
HFC-134a	1,43
HFC-143	35
HFC-143a	4,47
HFC-152	5
HFC-152a	12
HFC-161	1
HFC-227ea	3,22
HFC-236cb	1,34
HFC-236ea	1,37
HFC-236fa	9,81
HFC-245ca	69
HFC-245fa	1,03
HFC-365mfc	79
HFC-43-10mee	1,64
SF6	22,80
NF3	17,20
CF4	7,39
C2F6	12,20
C3F8	8,83
c-C4F8	10,30
C4F10	8,86
C5F12	9,16
C6F14	9,30
C10F18	>7,50
Source:	

Source:
100-year GWPs from IPCC Fourth Assessment Report (AR4), 2007. IPCC AR4 was published in 2007 and is among the most current and comprehensive peer-reviewed assessments of climate change. AR4 provides revised GWPs of several GHGs relative to the values provided in previous assessment reports, following advances in scientific knowledge on the radiative efficiencies and atmospheric lifetimes of these GHGs and of CO2.

Factors in the 2023 Emission Factors update are based on AR4 GWPs, but EPA recognizes that Fifth Assessment Report (AR5) GWPs have been published and used in the Draft Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2021 report (published February 2023). However, this 2023 Emission Factors Hub and the GHG Reporting Program continue to use AR4 GWPs. EPA plans to incorporate AR5 GWPs into the 2024 Emission Factors Hub update.

Table 12 Global Warming Potentials (GWPs) for Blended Refrigerants

ASHRAE #	100-year GWP	Blend Composition
R-401A	16	53% HCFC-22, 34% HCFC-124, 13% HFC-152a
R-401B		61% HCFC-22 , 28% HCFC-124 , 11% HFC-152a
R-401C		33% HCFC-22, 52% HCFC-124, 15% HFC-152a
R-402A	2,100	38% HCFC-22, 6% HFC-125, 2% propane
R-402B		60% HCFC-22 , 38% HFC-125 , 2% propane
R-403B		56% HCFC-22 , 39% PFC-218 , 5% propane
R-404A		44% HFC-125 , 4% HFC-134a , 52% HFC 143a
R-406A		55% HCFC-22 , 41% HCFC-142b , 4% isobutane
R-407A		20% HFC-32 , 40% HFC-125 , 40% HFC-134a
R-407B		10% HFC-32 , 70% HFC-125 , 20% HFC-134a
R-407C		23% HFC-32 , 25% HFC-125 , 52% HFC-134a
R-407D		15% HFC-32 , 15% HFC-125 , 70% HFC-134a
R-407E		25% HFC-32 , 15% HFC-125 , 60% HFC-134a
R-408A		47% HCFC-22 , 7% HFC-125 , 46% HFC 143a
R-409A		60% HCFC-22 , 25% HCFC-124 , 15% HCFC-142b
R-410A		50% HFC-32 , 50% HFC-125
R-410B	2,229	45% HFC-32 , 55% HFC-125
R-411A		87.5% HCFC-22 , 11 HFC-152a , 1.5% propylene
R-411B	4	94% HCFC-22, 3% HFC-152a, 3% propylene
R-413A		88% HFC-134a , 9% PFC-218 , 3% isobutane
R-414A		51% HCFC-22, 28.5% HCFC-124, 16.5% HCFC-142b
R-414B		5% HCFC-22 , 39% HCFC-124 , 9.5% HCFC-142b
R-417A		46.6% HFC-125 , 5% HFC-134a , 3.4% butane
R-422A		85.1% HFC-125 , 11.5% HFC-134a , 3.4% isobutane
R-422D		65.1% HFC-125 , 31.5% HFC-134a , 3.4% isobutane
R-423A		47.5% HFC-227ea , 52.5% HFC-134a
R-424A		50.5% HFC-125 , 47% HFC-134a , 2.5% butane/pentane
R-426A	1,508	5.1% HFC-125 , 93% HFC-134a , 1.9% butane/pentane
R-428A	3,607	77.5% HFC-125 , 2% HFC-143a , 1.9% isobutane
R-434A		63.2% HFC-125 , 16% HFC-134a , 18% HFC-143a , 2.8% isobutane
R-500		73.8% CFC-12 , 26.2% HFC-152a , 48.8% HCFC-22
R-502		48.8% HCFC-22 , 51.2% CFC-115
R-504		48.2% HFC-32 , 51.8% CFC-115
R-507		5% HFC-125 , 5% HFC143a
R-508A		39% HFC-23 , 61% PFC-116
R-508B	13,396	46% HFC-23 , 54% PFC-116

0070C0Blue text indicates an update from the 2022 version of this Entrois sincer of Greenhouse Gas Inventories Last Modified: 12 September 2023

Source:
100-year GWPs from IPCC Fourth Assessment Report (AR4), 2007. See the source note to Table 11 for further explanation. GWPs of blended refrigerants are based on their HFC and PFC constituents, which are based on data from http://www.epa.gov/ozone/snap/refrigerants/refblend.html.

Draft Dekalb County Climate Action Inventory

This inventory describes actions that can be taken by Dekalb County, GA to mitigate its greenhouse gas emissions in line with County goals. Actions are categorized by sector, and characterized by their estimated cost, emissions mitigation potential, deployment timeline, and equity considerations. This inventory will support the further research, refinement, and selection of actions to be included in the Dekalb Decarbonization Scenarios effort.

Submitting feedback

To submit feedback (including comments, questions, and other responses) in response to an individual action, please use the "Specific Feedback" column in each sheet. Please indicate the name and/or department of the commenter.

General feedback or responses that do not fit in the "specific feedback" column should be entered in the "additional feedback" sheet at the end of this document.

Action Title

Unique name used to identify the action in the inventory and future scenario documents

Action Description

A brief description of the action to provide greater context; descriptions used in the draft inventory will be expanded and updated when included in inventory documents

Timeframe - Estimated Start

Estimated year that action could be initiated, based on five-year intervals; note that this start year is not the same as the timeline that will be associated with each scenario, some actions may be pushed forward or backward, based on scenario goals and other actions used in a scenario

Timeframe - Duration

Approximate number of years required to fully implement the action (in five-year increments); actions that can be accomplished immediately are indicated as 5-year actions; actions that would require a decade-plus for rollout are predominantly infrastructure replacement/improvement/hardening actions

Characteristics - Cost

This is a first-pass estimate of the cost of implementation of an action on a scale of 1 - 4; idealized cost brackets grow exponentially (i.e., \$1 -10k, \$10-100k, \$100k - 1m, and \$1m - 10m+); estimates within this document are based on secondary sources and expert opinion; costs will be reestimated for scenario analysis

Characteristics - Emissions Impact

Estimate of emissions mitigation potential of each action on a scale from Very Low to Very High; brackets correspond to percentages of **sectoral emissions** that could be mitigated by an action (i.e., VL: <<1%, L: ~1%, M: 1-5%, H:5-20%; VH 20%+); mitigation estimates in the draft inventory carry significant uncertainty due to a lack of benchmark knowledge about existing conditions as well as County emissions

Equity Impacts

A discussion of equity considerations identified in the initial equity analysis of mitigation actions

Notes

Additional notes, sources, or relevant considerations associated with each action

DeKalb Climate Action Inventory

Action		Timeframe	Characteri	stics			Specific Feedback (please indicate responding Agency/Department)
Action Title Building Efficiency	Description Lighting	Estimated Start Duration	Cost	Emissions Mitigation	Equity Impact Metrics	Notes	
ED Lighting	Replace remaining incandescent, halogen, and neon bulbs with energy efficient LED alternatives Install low-voltage direct current (LVDC) wiring in new-build and renovated office		s ss	VL VL	Assess potential health benefits of improved lighting quality provided by LED bulbs, particularly for populations with specific health concerns such as migraines or visual impairments Measure number of jobs created in CEIS-designated disadvantaged communities [DAGs] through installation of	Possibly complete? Barriers incl. standards development	
mers/motion ensors uilding Efficiency	Install motion sensors and timers in office and facility spaces where lighting is not required for safety Envelope	2025 5	i s	VL	Evaluate accessibility of office and facility spaces equipped with motion sensors and timers for people with disabilities and/or limited ranges of motion; this can involve gathering feedback from individuals with these circumstances to identify barriers to navigation or usability	Passibly complete?	
/indow lamination	Add laminates to building windows to reduce heat loss/gain	2025 5	s - \$\$	VL-L	Measure improvements in indoor temps and comfort levels after window lamination to assess whether the initiative contributes to a better work environment and productivity among Country employees, particularly those in buildings with inadequate heating or cooling	Scope of opportunity depends in part on current conditions within County facilities	
indow upgrades	Replace building windows with higher-rated alternatives; contributes to the United Plan's goal of maintaining county participation in ARC Green Communities Program	2025 20	SS-SSS	L	Assess the impact of window upgrades on operational costs for County facilities, especially reductions in heating and cooling expenses; this metric and demonstrate potential opportunities to redistribute County budget/funds to essential social services to improve County equity	Scope of opportunity depends in part on current conditions within County facilities	
etrocommissioning invelope thermal spection	Conduct regular retrocommissioning of county buildings; contributes to the United Plan's goal of maintaining county participation in ARC Green Communities Program	2025 25	s - \$\$\$	M - VH	Measure the distribution of funds/resources allocated for retrocommissioning & envelope thermal inspection across County buildings, assessing whether investments are positively impacting departments serving vulnerable populations/the needs of underserved communities Assess the distribution of vendor contracts for weatherization upgrades among minority-owned or	Scope of opportunity depends in part on current conditions within County facilities	
leatherization ogrades to building ovelopes uilding Efficiency	Catch-all weatherization upgrade program for building insulation, windows, doors, roofs, etc. HVAC	2025 25	N/A	L-M	disadvantaged business enterprises (MBEs/DBEs) to promote economic equity and accessible contracting opportunities among historically marginalized groups in the local business community.	Scope of opportunity depends in part on current conditions within County facilities	
dd zone control to VAC systems	Install variable control zones in County buildings to minimize waste cooling/heating	2025 15	ss-sss	VL-L	Measure the impact of zone control on comfortability and indoor temperature regulation, especially in areas where employees/sixtor spend extended periods, particularly in buildings in historically underserved departments or locations	Potentially limited applicability	
ariable refrigerant ow/variable requency drives	Utilize variable refrigerant flow air handlers or variable-frequency drive chillers for County building HVAC to maximize effiency	2025 15	ss-sss	L	Measure distribution of energy cost savings across county- operated buildings to determine whether energy efficiency benefits are distributed equitable among facilities serving vulnerable and/or energy burdened communities	Scope of opportunity depends in part on current conditions within County facilities	
eat recovery fresh ir circulation	heating/cooling energy as possible	2025 10	S-SS	L	Evaluate potential health benefits of enhanced indoor air quality for surrounding communities, especially in neighborhoods disproportionately affected by air pollution/respiratory illnesses	Scope of opportunity depends in part on current conditions within County facilities	
ir Source Heat umps	Install air-source heat pumps where they can increase County building HVAC efficiency; contributes to the United Plan's goal of maintaining county participation in ARC Green Communities Program	2025 10	\$5-\$55	М	Evaluate the accessibility of maintenance and repair services for air-source heat pump systems, particularly in underserved areas, helping identify & address disparities in service delivery and response times based on geographic location or facility type. Evaluate whether the initiative leads to more equitable access to cooling services for county residents, particularly in	part on current conditions within County facilities	
ligh efficiency hillers	Install high-efficiency chillers where they can increase County building HVAC efficiency	2025 15	SS-SSS	М	buildings serving vulnerable populations such as senior centers or homeless shelters. This might be assessed by looking at changes in cooling capacity/service reliability in areas with historically limited access to AC. Examine the resilience of county-operated buildings to	Scope of opportunity depends in part on current conditions within County facilities	
Thermal load storage Building Efficiency	Utilize thermal load storage systems (e.g., thermal batteries, heat sinks) to optimize daily and weekly energy use in County buildings Other	2035 25	SSSS	М	power outages after implementation of thermal load storage systems, particularly those in/serving DACs. This might involve looking at changes in backup power usage/facility downtime during extreme weather events/grid disruptions, especially in areas with higher risk of service interruptions.	Scope of opportunity depends in part on current conditions within County facilities	
stablish Building fficiency lanagement ystems (BEMS)	Establish set practices for building operations, maintenance, and management teams to maximize building energy efficiency	2025 5	s-sss	м	Look at accessibility of training & capacity-building opportunities for building operations, maintenance, & management teams to implement BEMS practices & ensure support of skill development across diverse workforce	Scope of opportunity depends in part on current conditions within County facilities	
nergy efficency (e. . tree canopy) in ounty green spaces nd building green reas	Develop and shift landscaping practices to provide cooling benefits to buildings Similar to establishing BEMS, retro- commissioning ensures buildings are performing at their optimum	2030 5	s-ss	L	Measure potential public health benefits of increased tree canopy coverage & cooling benefits in county green spaces, particularly for communities disproprioritoately affected by heat-related illnesses or air pollution		
county buildings	LEED certification (various levels available), EnergyStar certification, or other certification	2025 5	s - \$\$	L	Assess whether retrocommissioning efforts lead to more equitable distribution of maintenance and repair resources across county facilities	Cost depends on retrocommissioning prcess and scope, but \$.0550 per sqft from literature	
ertification/ erformance andards for County uildings	(e.g., BREEAM, Green Globes, etc.); contributes to the United Plan's goal of y maintaining county participation in ARC Green Communities Program The 2015 IECC is the current code requirement for energy conservation in buildings; Dealb County could adopt the	2030 10	sss	М-Н	Look at distribution of job creation & economic benefits resulting from green building projects, particularly for historically marginalized communities or MBEs/DBEs	Scope of opportunity depends in part on current conditions within County facilities	
dopt latest ternational Energy onservation Codes	2024 code (once published) for county-wide application, or limited simply to County buildings	2025 5	sss	M - H	Evaluate whether insulation/interior upgrades contribute to more equitable distribution of property values across		
sulation/interior grades	buildings; contributes to the United Plan's goal of maintaining county participation in ARG Green Communities Program Replace non-EnergySTAR appliances (incl. water heaters, air conditioners, refrigerators, furnaces, etc.) with approved appliances across County facilities to reduce energy	2025 5	sss	L	county-owned buildings and neighborhoods, while maintaining acute awareness of the risks of gentrification to low-income communities. Examine impact of EnergySTAR appliance upgrades on utility	Scope of opportunity depends in part on current conditions within County facilities	
nergySTAR opliance upgrades	Ensrue schoolyards are resilient to heat and extreme weather by making improvements,	2025 10	ı ss	L	costs for County-owned housing units or properties with subsidized housing programs, especially in low-income neighborhoods or communities with limited access to retail options Conduct extensive community outreach and socioeconomic	Scope of opportunity depends in part on current conditions within County facilities	
limate resilient and on-toxic :hoolyards	such as planting shade trees, installing permeable surfaces, and using green infrastructure to reduce urban heat island effects and manage stormwater	2025 10	ss	VL	geospatial analysis to determine where school children are most vulnerable to hazards such as urban heat island effect to ensure both equitable and efficient implementation.	Minimal emissions mitigation impact; potentially not relevant	

Action		Timeframe		Characteris	stics			Specific Feedback (please indicate responding Agency/Department)
Building operations optimization	Conduct an evaluation of building utilization by County operations to identify potential efficiency improvements, including sites with a significancy improvements, including sites with a significance of the	2025		s - ssss	VL-H	Evaluate changes in employee satisfaction and productivity resulting from building operations optimization, particularly in departments or facilities with historically high turnover rates or low morale.	Scope of opportunity depends in part on current conditions within County facilities	(prease mulcare responding Agenty) Department
Establish Energy Manager division or role in Facilities Department Building Energy	across all County sites. The energy manager function may include additional staff and/or fractional effort of existing staff at specific sites. The energy manager would be responsible for identifying opportunities to eliminate energy waste or improve energy efficiency. Onsite DERS	2025	5 5	SS - SSS	м		Scope of opportunity depends in part on current conditions within County facilities	
Rooftop Solar	Install solar panels on rooftops. Includes assessment of energy needs, potential solar capture, angle optimization, and conversion.	2030	5 5	\$\$\$\$	VH	Measure accessibility of rooftop solar installations across county buildings, particularly in DACs or energy burdened communities, looking at changes in energy sourcing or utility costs to ensure equitable distribution of benefits	Additonal cost relative to field solar	
Solar sheds/solar parking lots	Install solar panels in parking areas and on storage sheds/areas. Install solar panels with rotation potential (to maximize solar capture) in large fields or	2030	5 \$	ssss	VH	Look at accessibility of benefits provided by solar sheds and parking lot installations to countly employees and visitors, especially in areas with limited residential solar options. This might involve tracking changes in parking availability, shading, and electric wheich changing infrastructure. Measure extent to which field solar projects incorporate community benefits sharing mechanisms, such as revenues having agreements or community investment funds,	Additional cost relative to rooftop solar	
Field solar	open spaces. Also known as solar farms/parks.	2030	5	ssss	VH	tracking allocation of project revenues and assessing impact on local economic development/social wellbeing	Characteristics estimated for County-scale solar energy provision	
Onsite wind	Install smaller on-site wind turbines for county buildings, minimizing transmission losses and providing more localized, resilient energy generation.	2030	5 5	5555	VH	Examine the level of community engagement and collaboration in the planning and implementation of onsite wind projects, Tracking local stakeholder involvement in decision-making processes and benefit-sharing agreements. Evaluate potential job creation opportunities associated	Costs roughly 30% - 100% greater than Field Solar Implementation of fuel cells is not a direct mitigation measure, but a supporting measure for renewable	
Fuel cells	Fuel cells are highly efficient, scaleable chemical energy processes that cleanly and efficiently produce heat and electricity Using batteries to store energy for future use allows captured renewable energy (i.e. from solar power) to be stored and used later, rather than being lost if not used	2035	5 \$	sss	N/A	with deployment, such as manufacturing, installation, and maintenance. This might involve tracking employment and business growth in clean energy related sectors. Measure changes in energy reliability and resilience of battery electric storage systems for county facilities,	energy generation that could potentially reduce costs as energy charaze device Implementation of battery electric storage is not a direct mitigation measure, but a supporting measure for renewable energy generation	
Battery electric storage	immediately. Allows for increased use of renewables: Similar to microgrid, but potentially including steam or hot/cold water provision; district energy system would allow greater efficiency and economics for building energy use within	2030	5 5	SSS	N/A	particularly in areas with intermittent reneable energy resources or unreliable grid infrastructure. Measure health and safety benefits associated with optimizing County heating and energy systems, like	that could potentially reduce costs as energy storage device Characterizing costs and mitigation potential are highly specific to the	
District energy/heat system for County facilities	centralized energy production and use of CHP or renewables	2030	5 5	SSS - SSSS	M - VH	improved air quality and reduced energy burden. Conduct indoor air quality assessments and health surveys to gauge the impact on County employee and resident wellbeing.	selected district and buildings, energy services to be supplied, and energy source	
Building Energy	Offsite PPA							
Discourage natural gas use; promote electrification in new development	Discourage the use of natural gas by providing homeowners with information about the benefits of electrification Promote building electrification benefits, including efficiency, affordability, safety, and	2025	5 \$	s	L-M	Measure health and safety benefits associated with electrification, like improved air quality and reduced exposure to combustion-related pollutants. Conduct indoor air quality assessments and health surveys to gauge the impact on resident wellbeing		
Promote all-electric development	health benefits associated with electrification; consider incentives such as tax credits, zoning bonuses, etc. for participating homeowners and builders Install distributed solar networks in communities, allowing residents to access solar energy without the expense of installing	2025	5 5	\$	М-Н	Measure accessibility of incentives for all-electric development for participating homeowners and builders, like tax credits or zoning bonuses; look at things like changes in building permit applications, construction trends, etc Measure impact of community solar networks for residents		
Community Solar	solar panels on their own homes. Can also be through purchase agreement. Resilience and quity co-benefits. Local, independently controlled power grids that operate on renewable energy separately from the main grid; enables campuses	2030	10 5	SS - SSSS	M-VH	in vulnerable or energy burdened communities, looking at metrics relating to changes in energy sourcing and electricity costs	Large potential variation in scale	
Solar Microgrids Utility PPAs	(including schools, hospitals, administrative buildings) to operate on a single connection ot the grid and self-supply energy internally. Resilience co-benefits. Utility Power Purchase Agreements to purchase renewable energy from off-site generation.	2030 2025	10 5	\$\$\$ \$\$ - \$\$\$\$	M-H M-VH	Measure extent to which solar microgrids enhance energy independence for communities, particularly in areas with unreliable or centralized grid infrastructure, looking at changes in energy reliability and resilience Measure impact and utilization of financing opportunities for residents and businesses to participate in utility PPAs, sepecially in DACs or energy burdened households	Large potential variation in scale Large potential variation in scale	
Buildings - Other	Carbon					Measure distribution of onsite green infrastructure features,		
Onsite green infrastructure planning (e.g. street trees, bioswales, green roof, etc.)	Green landscaping and building features to offset impact of heat on buildings (resilience) while also contributing to carbon mitigation and air pollution reduction.	2025	5 \$	S - SSS	VL-L	such as street trees and green roofs, across neighborhoods/communities, especially in areas with limited access to green spaces or high levels of urban heat island effect. Look at environmental justice impact of composting initiatives on surrounding communities, particularly areas		
Utilize compost collection and carting for organic wastes at County facilities Buildings - Other	Collect and compost organic waste from County facilities, including parks, schools, offices, etc. Natural Gas	2025	5 5	SS - SSS	VL-L	with existing environmental burdens/vulnerabilities. Might involve conducting environmental assessments and community surveys to gather feedback and identify potential mitigation measures to address concerns such as oddor or noise pollution.	Similar to recommendation for MSW, but focused only on County facilities rather than Community compost collection	
Fugitive methane survey protocols (indoor/outdoor)	Conduct a survey of all county buildings to detect sources of fugitive methane leaks Convert NG appliances to electric or other	2025	5 5	s - ss	ι	Measure equitable implementation of fugitive methane survey protocols across county facilities, ensuring all locations are surveyed regardless of geographic location or demographic characteristics. May involve tracking distribution of survey efforts and assessing completeness of coverage to identify potential gaps or disparities. Assess health and safety benefits of	Potential for significant ROI if large leaks exist	
Electrification/ conversion of NG appliances	power source. Begins with survey of current NG appliances, followed by potential replacement options and cost framework.	2025 5	5 to 10	\$\$	L - M	electrification/conversion of NG appliances, such as indoor air quality and reduced exposure to combustion-related pollutants		
Buildings - Other	High GWP Gases Establish program to regularly check refrigerant appliances (incl. HVAC, refrigerators, etc.) in County buildings to					Evaluate the level of community engagement and participation in refirgerant leak inventory and management initiatives, especially in neighborhoods directly impacted by		
Refrigerant leak inventory and management plan	identify current and potential leaks, followed by monitoring options and management/cost framework Promote refrigerant leak awareness through	2025 5	5 to 10 \$	\$\$	L	refrigerant emissions. This might involve conducting outreach events or public meetings to inform residents about the program and solicit input on areas of concern. Measure the accessibility of information regarding refrigerant leaks through the mechanical permitting system, ensuring all contractors and building owners are informed	Internal program for county facilities	
leak awareness	mechanical permitting system	2025	5	\$	L-M	regardless of location, size, or type of building.	Community-wide program	

Action	Timeframe	Characteristics		Specific Feedback (please indicate responding Agency/Department)
Management Require a Leak Management Plan for new mechanical permits; implement recurring reinspections for commercial buildings (potentially part of retrocommissioning)	2025 10	SS M-H	Measure equitable implementation of leak management plan requirements and recurring reinspections for commercial buildings, ensuring all businesses are held to the same standards regardless of size or ownership. This may involve tracking enforcement actions and penalties to identify potential disparities or inconsistencies in compliance.	

Antinu		Time of me		Chanastanisti				Specific Foodbook
Action Action Title	Description	Timeframe Estimated Start	Duration	Characteristics	Emissions Mitigation	Fauity Impact Matrice	Notes	Specific Feedback
Fleets - Efficiency	Description Vehicle Upgrades	Estimated Start	Duration	Cost	Emissions Mitigation	Equity Impact Metrics	Notes	(Please indicate responding Agency/Department)
rieets - Efficiency	Where possible, replace county fleet vehicles						While there are	
Fleet vehicle size reduction and	with smaller vehicles to improve vehicle efficiency; consider options for non-highway wehicle transportation (including transit, carpool, and e-micromobility solutions) for County workforce. For internal mobility at large-facilities consider golf-cart style					Impact on operations: evaluate the impact of wehicle size reduction on county operations, particularly in departments serving underserved communities or populations with specific transportation needs by conducting surveys/interviews with frontline staff to gather	associated costs, it is expected that replacing large vehicles with smaller or non-vehicle alternatives will	
replacement	vehicles. Evaluate county workforce and fleet vehicle trips; where possible, maximize route efficiency (reduce idling, doubling back, distance travelled, etc.) to reduce energy consumption and associated emissions. Include considerations of relocation of	20	10	0 \$	L-M	feedback on vehicle usability and suitability. Measure the equitable distribution of service improvements resulting from route optimization, ensuring that all communities and neighborhoods receive fair and consistent access to county services regardless of geographic location or demographic characteristics, looking at changes in service	result in overall	
Route optimization	worksites if reasonable. Cost reduction co-					delivery times and frequency to identify areas of		
for energy efficiency	benefits. Ensure fleet maintenance addresses issues that can improve vehicles efficiency,	20	25	5 \$	VL - L	improvement and potential disparities. Measure changes in maintenance schedules and		
Maintain vehicles for optimal fuel	including factors like tire air pressure, air filter flow, and elimination of unnecessary vehicle weight (e.g. surplus or redundant					service availability to identify potential gaps or disparities in equitable maintenance services across all county departments and vehicles, especially		
efficiency	equipment/attachments)	20	25	5 \$	VL - L	those serving DACs.		
Fleets - Efficiency	VMT Mitigation Ensure fleet vehicle operators are trained on anti-idling policy, provide in-vehicle					Conduct operational reviews to determine where idling is most common and its causes to further		
Idling policy/training/	reminders to cut unnecessary idling, and establish a means of measuring and correcting unnecessary fleet vehicle idling if	20		- ^		understand which regions and communities are disproportionately affected by unnecessary idling; ensure vehicle operators are well informed of these		
monitoring Route/trip planning	problems are identified. Establish a policy that encourages and trains County fleet users to reduce trip lengths	20	30	5 \$		assessments to promote proactivity. Conduct route optimization studies to determine which regions are disproportionately affected by unnecessarily long routes. Address discrepancies		
training and policy Auxiliary air	wherever possible Installation of auxiliary air conditioning	20	25	5 \$	VL	with fleet operators and planners.		
conditioners for vehicle cabs Fleets - Energy	systems for cab comfort in heavy duty vehicles to eliminate need for idling Vehicle Upgrades	20	25	5 \$\$	L	Monitor health and safety benefits of reduced idling for vehicle operators and community members		
Tieets - Lifetgy	Convert all ICE fleet vehicles to fully electric					Evaluate the distribution of charging infrastructure for electric vehicles, ensuring that charging stations are accessible to all employees and fleet vehicles,	Our expectation ist that heavy-duty vehicles (including trucks, buses, and off-highway vehicles) will take	
Full electrification of County fleets Accelerated full	vehicles; adopt commercially-available vehicles as offerings enter the market	20	30 1	5 \$\$\$	M-H	particularly in DACs or regions with limited access to transportation services.	>10 years to electrify	
electrification of County fleets, including demonstration of heavy-duty electric	Pursue a strategy of early-adoption of electric vehicles to replace fleet vehicles, including heavy duty vehicles; this strategy will accelerate fleet decarbonization at the expense of increased costs and greater					Investigate and analyze the community co-benefits of fleet electrification and implement an equitable distribution strategy to deploy electrified fleet vehicles where vulnerabilities tied to combustion	Higher-ambition alternative to full	
vehicles	technology uncertainty Staged conversion of County fleets to electric vehicles and plug-in hybrid vehicles to	20	125 10	0 \$\$\$	M-H	Assess any irramental impact (amissions reductions)	electrification	
of County fleets including PHEVs	replace ICE vehicles; adoption of only commercially-available technologies as they become availabe Conduct an assessment and analysis of the Country's heavy duty vehicles that pose a challenge to electrification; evaluate available and near-maturity battery-electric and plug-in hybrid replacement options,	20	30 19	5 \$\$\$	м-н	Assess environmental impact (emissions reductions) of PHEVs compared to traditional fuel vehicles to understand impact on surrounding communities.	Lower-ambition alternative to full electrification	
Heavy-duty vehicle assessement and strategy	including technology availability, fleet replacement timelines, cost/benefit (CBA), maintenance trade offs, etc.; identify opportunities to reduce or eliminate need for HDVs	20	125 10	0 \$\$	L - M	Conduct fleet assessment to determine which heavy-duty vehicles servce LIDAC communities or communities that are disproportionately vulnerable to hazards such as air pollution; consider prioritizing these vehicles in electrification strategy.	Separate from full- electrification	

	Evaluate alternative fuel options for fleet vehicles.	2025	10 \$\$\$	VL - L	Evaluate the level of community engagement and stakeholder collaboration in promoting the adoption of alternative fuels, particularly in neighborhoods and communities with a stake in environmental and public health outcomes.	This approach is included for completeness, but not recommended	
	Install high-voltage (Level 3) EV charging						
	as fleet hubs to increase charging speed and						
	capacity for electrified county vehicles; this					Supporting action	
	action would support deep electrification of				Measure equitable distribution of charging	(no direct	
	County fleets	2025	5 \$\$ - \$\$\$	N/A	infrastructure across the county	mitigation)	
	Deploy public charging infrastructure at						
	major County facilities such as the Courthouse parking garage or Burgess						
	building; this action would provide additional						
	public charging infrastructure at major			L - M (community	Measure equitable distribution of charging with		
sheds)	activity hubs in the county	2025	5 \$\$	only)	solar parking across the county		
	Expand access at all L2 and L3 County					Mitigation potential	
	charging stations to public access (i.e., add					is unknown,	
	public charging points where high voltage					depends on scope of	
	infrastructure is already installed); public and County charging points could be separated					project and details such as proximity of	
	but with shared backbone; this action would				Determine which regions of the County face	public charging	
	provide a substantial increase in EV capacity				barriers to EV ownership as well as where need for	points to	
	in the County and incentivize residents to			L - H (community	EV charging stations may be highest: regions where	commercial/resident	
access	adopt vehicle electrification	2025	5 \$\$	only)	individuals commute or carpool to work, etc.	ial centers	

Action		Timeframe	Characteristics				Specific Feedback
ction Title treets - Efficiency	Description Lighting	Estimated Start Duration	Cost	Emissions Mitigation	Equity Impact Metrics	Notes	(Please indicate responding Agency/Department)
ED street lighting	Replace remaining incandescent, halogen, sodium, etc. street light bulbs with energy-efficient LED alternatives	2025	5 \$ - \$\$\$	L	Measure for equitable distribution of LED street lighting upgrades across neighborhoods to ensure equitable benefit from improved lighting quality and energy efficiency, especially focusing on areas with higher safety concerns.	Scope of opportunity depends in part on current conditions within County facilities	
.ED traffic lighting	Replace incumbent traffic lights with energy efficient LED alternatives	2025	5 \$-\$\$	VL	Assess accessibility of LED traffic lighting for vulnerable road users, such as pedestrians, cyclists, and people with disabilities, ensuring signla timings and designs prioritize their safety and mobility needs.	Scope of opportunity depends in part on current conditions within County facilities	
Develop a County- wide Active	An active transportation network should connect activity centers with off-travet multi- use paths that provide direct, convenient, predictable, and comprehensive routes. The network should serve as the backhone of an alternative surface transportation system within the country to enable residents to select alternatives to automobiles to travel around the Country, the network should	202	344		As the cost of car ownership increases, the provision of an alternative transportation network for local trips will	Deployment of an active transportation network will work best with development of new ROWs (or segregation of portions of existing ROWs from roadways); the active transportation network would see fewer lane miles lost,	
Transportation Network	prioritize non-automobile travel timing and safety at road crossings Implement a comprenehsive complete streets program that expands criteria for complete streets interventions to all public roadways; this action would constitute a substantial transformation in how public ROWs are used in the County, converting roadway space to active transportation lanes, sidewalks, safety interventions, and space for tree canopy coverage; this action would require substantial effort including a plan for phased deployment as well as intensive		10 5\$5 - 5\$5\$	M - VH (community emissions)	enable households to select lower-cost modes of travel while ensuring safety, reliability, and resilience.	compared to a complete streets approach Deployment of a comprehensive complete streets plan would not require new ROWs, but would move loss of vehicle lane miles and/or parking areas for conversion to alternative uses; large variation in costs depending on timeframe of rollout; updating roads to complete streets prior to scheduled reparing can add	
mplement a comprehensive complete streets	public-facing consultation to inform residents on the value and purpose of active transportation lanes, safety interventions,			M - VH (community	As the cost of car ownership increases, the provision of an alternative transportation network for local trips will enable households to select lower-cost modes of travel	substantial costs, however updates concurrent with regular maintenance add	
orogram Streets - Energy	and land use conversions for tree canopy Lighting	2030	10 \$ - \$\$\$\$	emissions)	while ensuring safety, reliability, and resilience.	marginal costs	
Solar-powered	Lighting .						
ignals (traffic,	Utilize solar power to run traffic lights and				Improve road safety in areas where lighted signs can be		
edestrian)	pedestrian signals at intersections	2030	5 \$-\$\$	VL	installed without connection to utility service		
Streets - Resilience	Canopy Prioritize the preservation and expansion of				Assess impact of canopy protection efforts on public		
	tree canopy in County public works, streets,				health and wellbeing outcomes in areas with higher rates		
Integrate canopy	water, and planning projects, incl. by				of air pollution, heat islands, and health disparities to		
rotection into	preserving existing canopy trees and by				ensure equitable benefits from improved air quality,	Significant resilience benefits; indirect benefits to cooling	
oublic works services	designing/engineeering projects to sustain more large shade tree plantings	2025	5 \$-\$\$	VL-L	temperature regulation, and mental health benefits associated with trees.	energy emissions	
	Initiate a new cross-departmental program to identify high-priority areas for tree canopy expansion (including areas with high concentrations of vulnerability), design interventions, and install infrastructure and trees to ensure canopy; this program could						
Urban canopy expansion program	include conversion of impermeable surfaces to permeable, realignment of street/parking areas, and focused maintenance to ensure large shade trees are healthy and protected from premature failure Active transportation and electric micromobility are becoming increasingly important alternatives to driving, but both alternatives suffer from incompatibility with automobile-focused infrastructures.	2025	15 \$\$-\$\$\$	VL	Utilize data from publicly available tools such as Tree Score to understand where need for canopy coverage may be highest; prioritize expansion of canopy coverage in these areas and monitor community health co-benefits associated with canopy coverage.	Not a mitigation policy, but some emissions savings from related cooling	
implement state of the art active transportation policy and training	Consistent with the Comprehensive Tansportation Plan, County planners and engineers should seek to modernize and improve active transportation infrastructure, including participation in national trainings such as National Walking Summit and the Association of Pedestrian and Bicycle Professionals (APBP)	2025	5 \$\$ - \$\$\$	N/A	Conduct community outreach and qualitative analysis to determine which communities face barriers to active transportation due to lack of resources or health concerns. Develop programs targeted to these communities to ensure equitable consideration of community needs as well as promote widespread awareness.	This is a supporting policy to active transportation network actions, so no associated emissions are attached	

Action		Timeframe		Characteristics				Specific Feedback
Action Title	Description	Estimated Start	Duration	Cost	Emissions Mitigation	Equity Impact Metrics	Notes	(Please indicate responding Agency/Department)
ZEVs for Ground Service	Replace ground service equipment (including fuel trucks, tugs, or any other GSE) with zero- emissions vehicles (e.g. battery electric vehicles)	20	025	10 \$\$	L	Measure the reduction in air pollutants (e.g., NOx, particulate matter) from ground service equipment operations, with particular attention to neighborhoods most affected by this pollution currently.		
irports - Efficiency	Aviation							
	Avoid unnecessary use of inefficient and polluting turbofan engines and aircraft auxiliary power units (APUs) on the ground. Airport policies can set limits on engine/APU use, infrastructure upgrades (separate					Measure the equitable distribution of benefits	Cost may vary	
	action) can mitigate need, and operations tracking can assist in identifying periods of					from reduced engine/APU use on	depending on a number of unknown	
n tarmac	non-essential running.	20	025	5 \$	L-M	communities disproportionately impacted by airport noise and pollution.	factors	
Airports - Efficiency	Facilities							
ise of preconditioned ir units (if applicable at PDK)	Use of preconditioned air units enables aircrafts to remain cool without running engines, reducing emissions from aircraft engines or APUs Ground power units (also called 400Hz units) allow planes to operate electrical systems using connections to the power grid,	21	030	5 \$-\$\$\$	L-M	Measure improvement in air quality and reduction in health risks for airport workers and nearby communities due to decreased aircraft emissions.	Applicability to PDK operations is unknown, significant uncertainty in associated cost/mitigation estimates Applicability to PDK operations is unknown, significant	
round power units (if pplicable at PDK)	eliminating the need for engine or APU use; while ground power units are an important emissions mitigation strategy for commercial airports, applicability is unknown at PDK)	20	030	5 \$-\$\$\$	L-M	Monitor improvement in air quality and reduction in health risks for airport workers due to decreased aircraft emissions and idling. Monitor cost savings achieved by tenants	uncertainty in associated cost/mitigation estimates	
ubmetering for airport	If not already done, install submetering for tenants, including for hangars, FBO vendors, etc. to monitor energy consumption	20	025	5 \$\$ - \$\$\$	L - M	through improved energy management, and how these cost savings will benefit communities equitably. Assess the increase in accessibility of EV charging for employees and visitors, with		
nfrastructure for	Install EV charging stations in visitor and	2	025	5 \$\$	L (community emissions	particular attention to people from		
Replace conventional appron and approach ighting with energy- ifficient LEDs Apply buildings afficiency technologies incl. lighting, envelope/windows,	employee parking lots Replace any remaining incumbent lighting with energy efficient LED alternatives Implement established efficiency measures to airport facilities including terminal		025	5 \$\$	only)	disadvantaged communities. Training and job opportunities provided to local workers for LED installation and maintenance; Equitable distribution of benefits from cost savings Assess the accessibility of energy efficiency upgrades to small or diverse businesses operating within the terminal; Track engagement of local suppliers and contractors in the implementation of building efficiency projects; Measure improvement in indoor air quality and thermal comfort for airport	Cost and mitigation potential depend on the number of conventional bulbs still in use	
rport buildings	buildings, hanagars, service buildings, and administration buildings New airport construction should implement sustainability standards, such as with operations, design, and integrated social, economic, and environmental considerations; Dekalb should continue to	21	025	10 \$\$-\$\$\$	м-н	workers and passengers, particularily those who have disabilities. Assess the number of construction contracts awarded to local businesses and	potential depend on current conditions Cost and mitigation potential depend on	
andards for future rport development	coordinate with partner agencies in the City of Chamblee to integrate their goals for future airport expansion. Create policies that will ensure future airport construction accounts for anticipated climate change, including extreme temperatures,	21	025	5 \$-\$\$	L-H	disadvantaged enterprises; Assess the socioeconomic impacts of airport construction projects on neighboring communities.	current conditions and scope of policy amendments	
esilience measures and to future airport evelopment	intense precipitation, and flooding hazards; implement reccomendations from the United Plan to continue work with partner agencies to provide multimodal transportation to the airport. Onsite	21	025	5 \$-\$\$	VL	Consider of social equity principles in the allocation of resources for climate resilience initiatives; Engagement with vulnerable communities to identify climate risks and adaptation priorities for future planning.		
	Large-scale solar development offsite in unused open space to provide airports with sustained solar electricity. Couple with battery storage.	21	030	5 \$\$\$ - \$\$\$\$	H - VH	Number of local job opportunities created in the development, installation, and maintenance of solar infrastructure; Reduction in pollution in surrounding communities	Cost and mitigation potential depend on scale of installation	

Action		Timeframe		Characteristics				Specific Feedback
Action Title	Description	Estimated Start	Duration	Cost	Emissions Mitigation	Equity Impact Metrics	Notes	(Please indicate responding Agency/Department)
							Sustainable aviation fuels are not currently commercially viable, this action is only relevant if they	
	When new technologies emerge at the					Develop training programs and informational sessions for airport workforce on sustainable aviation fuel infrastructure; aim to upskill in order to retain current workforce and provide	become viable, estimated start date is uncertain; emissions mitigation estimate is VL	
Explore sustainable aviation fuel	demonstration or commercial phase, deploy sustainable aviation fuel distribution infrastructure onsite (e.g., fuel storage and					equitable opportunity for airport staff engagement and participation in infrastructure development and	because aircraft operations are not part of County	
infrastructure	distribution infrastructure)		2035 1	0 \$\$\$	VL	implementation.	emissions	
Collect and evaluate energy use and emissions data alongside operations data	Operations/Monitoring If not already implemented, utilize integrated energy management system to track airport energy use (including submetering), identify trends, and isolate and mitigate energy waste; track energy use alongside operations to demonstrate improved efficiency over time			5 \$	VL-L	Regular reporting on progress towards energy, equity and emissions-reduction goals to promote accountability and transparency; Transparency and accessibility of energy and emissions data to the public and relevant stakeholders.		
Airports - Other	Fugitive Emissions		1023		VLL	Starcholders.		
Carbon mitigation practices for disused land						Monitoring and evaluation of social and environmental co-benefits associated with carbon mitigation practices; incorporation of community input and preferences in the planning and implementation of projects.		

Action		Timeframe		Characteristics				Specific Feedback
Action Title Vaste & Water -	Description Operations	Estimated Start	Duration	Cost	Emissions Mitigation	Equity Impact Metrics	Notes	(Please indicate responding Agency/Department)
nplement	Implementation of the Dekalb County Water/Wastewater Master Plan will address numerous constraints on both water supply and wastewater removal that threaten to					Conduct geospatial analysis to determine which regions of the County are disproportionately exposed to the hazards associated with insufficient wastewater removal infrastructure	https://www. dekalbcountyga. gov/sites/default/fil es/users/user541/D C%20Water% 20and%20WW% 20MP%202020-	
Vater/Wastewater	impair the system's efficiency and					as well as dispropoprtionate exposure to toxic waste or unsafe	2050_Summary_Fin	
Master Plan	sustainability Historically, Pole Bridge AWWTP has used significantly more energy than Snapfinger or other WWTPs on a per-gallon basis of treated water; the district should identify if this is still the case, evaluate opportunities to improve		2025	25 \$\$\$\$	L-H	water supply. Current operations at Pole Bridge include use of biosolids for	al_03042022.pdf	
prove Energy	energy efficiency, and priporitize capital					hay fertilization; potential community impacts (negative or		
Efficiency at Pole Bridge AWWTP	improvements necessary to achieve these improvements; consider conversion to WTE Conduct energy audit at Snapfinger and Pole Bridge AWWTPs. Review processes, systems, and equipment for efficiency gaps, identify		2035	10 \$\$-\$\$\$	М	positive) related to converting to an anaerobic and/or waste to energy facility.		
WTP energy audit	outdated equipment (and replacement options), and evaluate plant processes to identify potential alternatives with energy (and emissions) savings potential. Establish process for recurring review every five years.		2030	5 \$\$ - \$\$\$		Assess impact of internal control systems reviews on environmental health and safety outcomes in surrounding communities, especially in areas with higher pollution, by conducting env. assessments and health surveys		
ficiency	Equipment							
/ariable speed	Switch to variable speed drives for water pumps to minimize wasted energy and better					Analyze changes in consumption patterns, conservation program participation rates, and water bill affordability to measure equitable access to water conservation beenfits		
rives for pumps	meet facility needs.		2025	5 \$\$	L	resulting from pump optimization measures.		
/aste & Water - nergy	Use							
lectrification? apture and use naerobic	Electrify componends of waste & water systems currently using non-electric energy. Converts methane into CO2, a less potent GHG. Capture processes and facilities would		2030	10 \$\$	М	Conduct public meetings, stakeholder workshops, or community surveys to gather input on energy priorities and evaluate the level of community-driven prioritization in electrification initiatives. Conduct health assessments, env. Assessments, and community surveys to measure the impact of gas capture &		
itiate programs to lentify and mitigate	need to be established. Initiate a county facilities program to conduct building water audits of county and school facilities, identify and mitigate high-priority leaks and/or wasteful uses. Seek external		2030	10 \$\$\$	М	combustion on public health outcomes. Conduct community health surveys to determine high-priority facilities serving students and faculty facing health issues	Action is recommended in 2011 Long-range	
	funding for major mitigation efforts.		2025	5 \$\$	VL - L	connected to poor water quality.	Sustainability Plan	
faste & Water - nergy ternal facility DER oportunities (install	Source							
olar?								
/aste & Water - ther	Other							
ewerage sludge ugitive emissions litigation at WWTPs	Minimize leaks of anaerobic decomposition gases at AWWTPs to reduce release of GHGs and VOCs. Focus on mitigating uncontrolled anaerobic decomposition in sewer trunk lines, within plant, and in plant outputs (e.g., incl. biosolids)		2025	5 \$-\$\$\$	VL-L	Reduction of VOC emissions can benefit nearby communities by reducing nuisance odors, e.g.	Large potential variation in scope of measure; depends on sufficiency of current conditions	
formation ampaign to romote water use fficiency	Use communications with ratepayers to promote water use efficiency with periodic notifications of water efficiency strategies, data on historical water use, analysis of significant changes in water use, etc. the water bill for customers. Improved customer efficiency reduces overall system load and energy		2025	5 \$	VL-L	Develop accessible and publicly available PSAs and educational materials to raise awareness in easily digestible formats for residents of all backgrounds, ages, and education levels. Conduct demographic analysis to determine which languages informational materials and PSAs ought to be developed in/translated into to ensure widespread accessibility and community consumption.	Improved water use efficiency	
	Initiate a program to evaluate the capacity and sufficiency of Dekalb sewer and stormwater infrastructure for anticipated changes to precipitation patterns under climate change		2030	10 \$\$\$ - \$\$\$\$	VL - L	Anticipated changes to precipitation patterns in Dekalb County include increases in the number of days per year experiencing extreme precipitation; insufficient stormwater infrastructure capacity can result in localized flooding in areas where sewers back up or in low lying area where runoff collects before draining. Improved stormwater capacity also reduces the risk of stormwater runoff into the Chattahoochee watershed.		

Replace fixtures, meters, appliances, etc. to ensure maximum water conservation following LEED measures (or other sustainabile building practices); recommendation consistent with 2011 long-range sustainability plan

Determine which County facilities serve Justice40 disadvantaged communities and prioritize their retrofitting to amplify the extended co-benefits of building upgrades and sustainability to more vulnerable communities.

10 \$\$

VL

2030

Improved water use efficiency

Action		Timeframe		Characteristics				Specific Feedback
Action Title	Description	Estimated Start	Duration	Cost	Emissions Mitigation	Equity Impact Metrics	Notes	(Please indicate responding Agency/Department)
Parks - Mitigation	Operations							(
Rewild County green spaces	Improve ecological diversity and resilience of county green spaces by reintroducing native plants and animals, restoring natural processes where possible (incl. fire, hydrology, etc.), and managing green spaces for ecosystem services. Unused/underused areas maintained with mowing/spraying are a primary candidate for conversion to meadow/savannah/forest.	20	25 1	15 \$-\$\$	L	Percentage increase in availability of native plants in community gardens or public spaces in low-income neighborhoods.	Improved ecosystem resilience to disruptive weather events	
and flood mitigation		20	30	5 _, \$-\$\$\$	N/A	Reduction in stormwater runoff and flooding incidents in areas with rainwater harvesting systems, particularly in flood-prone underserved communities	Aligns with Activity #09 in the Future Land Use Plan's Community Work Program - Planning and Sustainability	
Parks - Mitigation	Investment							
Urban tree canopy and green space expansion plan	Develop a plan to expand tree canopy coverage and green spaces (permeable surfaces) county-wide to mitigate Urban Heat Island effect (UHI) during extreme heat emergencies. Increased tree canopy (either through more trees or larger trees) provides shade, insulating streets, sidewalks, buildings, and parks from sunlight, reducing temperatures and cooling energy demand; green spaces that allow water to permeate the surface also contribute to cooling. Policies may include outreach, incentives, updates to tree ordinance, zoning/code regulations, etc.; evaluate progress implemented since 2011 sustainability plan and adapt lessons learned Promote alternative landscaping for	20	25 1	10 \$\$	м	Block- or neighborhood-scale tree canopy can be measured with remote sensing; metrics can include a minimum canopy coverage threshold to trigger interventions; Measure improvements in the number of parks and green spaces accessible within a certain distance (e.g., within a 10-minute walk) for residents of underserved communities; Maintain community satisfaction with each park	Expanded tree	
Initiate public information campaign focused on sustainable residential and commercial landscaping	residential and commercial lots (including native vegitation, drought-hardy landscapes, and ecosystem supporting plantings) with public information campaigns (e.g., competitions for outstanding lawn conversions, etc.), outreach to professionals (e.g., via County composting facility, etc.), and other channels	20	25	5 \$	VL	Improved landscape resilience can protect vulnerable communities from extreme weather, especially where permeable surfaces and tree canopy are increased; improved soil health and ecosystem resilience also protects local ecology		

Action		Timeframe		Characteristics				Specific Feedback
ction Title	Description	Estimated Start	Duration	Cost	Emissions Mitigation	Equity Impact Metrics	Notes	(Please indicate responding Agency/Department)
SW - Efficiency								, , , , , , , , , , , , , , , , , , , ,
·	Waste resulting from disposal of durable							
	goods (appliances, devices, etc.) can be							
	challenging for MSW and increase lifetime					Assess how affordable these repair		
	emissions. Dekalb County can promote local					services and resources are, particularly for	•	
	businesses that repair devices and appliances					low-income households; Assess the		
	as waste reducers, promote organizations					diversity of promoted businesses and	Includes risks	
	that refurbish or recycle devices and					organizations; Track distribution of repair	associated with	
omote repair and	appliances, and implement appliance/device					training locations across the county to	promoting	
use opportunities	repair training in schools	20	030	5 \$	VL (community only)	ensure equitable access.	businesses	
	Consumer and commercial waste includes							
	large volumes of single-use packaging, such							
	as plastic bags and containers that can be					Accessibility of resources and support for		
	replaced with biodegradable or reusable					individuals and businesses seeking to	Additional benefits	
	alternatives. Promotion of alternatives can						to Sanitation	
	include awareness campaigns, outreach to					campaigns); Measure the participation	operation costs; e.g.,	
	retailers, bonuses for waste mitigation goals,					rate in waste reduction campaigns and	plastic bag bans	
omote waste	or restrictions on the use of certain				VL - L (community	initiatives across the county to identify	reduce costs of MRF	
duction	packaging (e.g., plastic bag bans)	20	025	5 \$	only)	and address barriers to participation.	operation	
auction	Develop a program to be operated by the	20	,25	3 0	J,	and dudiess burriers to participation	орегистоп	
eploy an exchange							DonateNYC is	
epioy an exchange or donation of used							operated by the NYC	
surplus	materials, and other durable goods to					Assess the diversity of businesses/non-	Department of	
uipment,	businesses or non-profits; program could					profits benefitting from donation	Sanitation;	
uipment, rniture, materials,						exchange programs, with particular	opportunities for	
		20	025	5 \$	\// (aaaaaaaaaita aaba)			
c.	County/connected with others	20	J25	5 \$	VL (community only)	attention to disadvantaged communities;	community support	
	Building demolition creates large volumes of							
	landfill waste with embodied carbon,							
equire full or	transportation emissions, and landfill gas					Measurement of economic benefits and		
artial building	emissions; deconstruction as an alternative					job creation opportunities associated with		
econstruction/	reduces lifecycle emissions and landfilling					building deconstruction and waste	OR; Charlotte, NC;	
ilding waste	emissions, and potentially reduces					recycling initiatives, particularily in the	opportunities for	
cycling	transportation emissions	20	030	5 \$\$	L	areas most burdened by landfills	jobs training	
							Extending single-	
							stream recycling	
							collection to all	
							households served	
							by sanitation was	
							considered in the	
							DeKalb County	
							Government Long-	
							Range	
							Comprehensive	
						Engagement with underserved	Energy &	
	Increase recycling capabilities and collections					communities to address barriers to	Sustainability Plan	
	(e.g., by extending single-stream recycling					recycling participation; Accessibility and	(2011) and was	
						convenience of recycling infrastructure	found to have	
						for residents and businesses (ex: how	significant potential	
rrease recycling	collection to all county residents) to reduce						significant potential	
	collection to all county residents) to reduce landfilling (and associated emissions) and				VI - I (community	much does recycling cost, how far does	to reduce MSW	
crease recycling tes to reduce	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste	20	125	5 \$\$	VL - L (community	much does recycling cost, how far does	to reduce MSW	
es to reduce	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products	20	025	5 \$\$	VL - L (community only)	much does recycling cost, how far does someone need to go to recycle, etc.)	to reduce MSW operations	
es to reduce adfill emissions	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort	20)25	5 \$\$			operations	
es to reduce dfill emissions velop/Expand	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams,	20)25	5 \$\$			operations Unknown how	
es to reduce dfill emissions velop/Expand terials Recovery	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for	20)25	5 \$\$			operations Unknown how current single-	
es to reduce dfill emissions velop/Expand terials Recovery ility (MRF) at the	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of	20	025	5 \$\$			operations Unknown how current single-stream recycling is	
es to reduce dfill emissions velop/Expand terials Recovery ility (MRF) at the ninole Road	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of an MRF will enable much greater rates of				only)		Unknown how current single- stream recycling is processed/capabiliti	
es to reduce dfill emissions elop/Expand terials Recovery lity (MRF) at the ninole Road dfill	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of		025	5 \$\$			operations Unknown how current single-stream recycling is	
es to reduce dfill emissions velop/Expand terials Recovery ility (MRF) at the ninole Road idfill	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of an MRF will enable much greater rates of both recycling and composting of MSW.				only)		Unknown how current single- stream recycling is processed/capabiliti	
es to reduce dfill emissions velop/Expand iterials Recovery illity (MRF) at the minole Road adfill	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of an MRF will enable much greater rates of both recycling and composting of MSW. Convert captured landfill gas (LFG) to usable				only)		Unknown how current single- stream recycling is processed/capabiliti	
es to reduce dfill emissions velop/Expand terials Recovery ility (MRF) at the ninole Road idfill	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of an MRF will enable much greater rates of both recycling and composting of MSW. Convert captured landfill gas (LFG) to usable methane for electricity generation or				only)		Unknown how current single- stream recycling is processed/capabiliti	
es to reduce dfill emissions velop/Expand terials Recovery ility (MRF) at the ninole Road dfill	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of an MRF will enable much greater rates of both recycling and composting of MSW. Convert captured landfill gas (LFG) to usable				only)		Unknown how current single- stream recycling is processed/capabiliti	
es to reduce dfill emissions velop/Expand iterials Recovery illity (MRF) at the minole Road adfill	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of an MRF will enable much greater rates of both recycling and composting of MSW. Convert captured landfill gas (LFG) to usable methane for electricity generation or				only)		Unknown how current single- stream recycling is processed/capabiliti	
es to reduce dfill emissions velop/Expand terials Recovery ility (MRF) at the ninole Road idfill	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of an MRF will enable much greater rates of both recycling and composting of MSW. Convert captured landfill gas (LFG) to usable methane for electricity generation or transportation fuel, rather than being				only)		Unknown how current single- stream recycling is processed/capabiliti	
es to reduce dfill emissions	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of an MRF will enable much greater rates of both recycling and composting of MSW. Convert captured landfill gas (LFG) to usable methane for electricity generation or transportation fuel, rather than being released as emissions Already in use at				only)		Unknown how current single- stream recycling is processed/capabiliti	
es to reduce dfill emissions velop/Expand terials Recovery ility (MRF) at the ninole Road dfill	collection to all county residents) to reduce landfilling (and associated emissions) and lifecycle emissions associated with waste products MRFs are facilities that screen and sort valuable materials out of MSW streams, enabling their recycling, diversion (e.g., for composting), or sorting; implementation of an MRF will enable much greater rates of both recycling and composting of MSW. Convert captured landfill gas (LFG) to usable methane for electricity generation or transportation fuel, rather than being released as emissions Already in use at Seminole Rd; consider expansion to maximize landfill capacity; explore PPAs with				only)	someone need to go to recycle, etc.)	Unknown how current single- stream recycling is processed/capabiliti	

Onsite solar PV at Seminole Rd. facility Track/optimize MSW operations energy use and efficiency MSW - Other	Evaluate potential for Solar PV deployment (County owned or leased) at old Seminole Road MSW Landfill; feasibility depends largely on site suitability; dearlorstics including structural stability; deployment over long-term Evaluate current MSW collection, transportation, processing, and disposition processes for energy consumption; identify opportunities to mitigate energy use in processes Fugitive Emissions - Initiatives	2030 2025	15 \$\$\$ 5 \$	M VL-L	Evaluate impact of solar PV deployment on grid resilience, ensuring widespread co-benefits are realized across nearby communities. Track reduction in energy consumption per unit of recycled material across different recycling locations, measuring for equitable distribution of improvements and benefits.	Seminole Rd. facility offers excellent solar resource, insolation, land availability and immediate access to transmission capacity
Provide municipal & commercial compost collection; eliminate	Proper management of composting processes reduces methane emissions, improves soil carbon sequestration, and improves soil and plant health by reducing the need for synthetic fertilizers. Alternative to full-scale; a pilot program	2030	5 \$\$\$	м-н	Measure the pollution reduction and improved health outcomes in neighborhoods and communities most burdened by organic landfill waste; Assess plant and soil health for consistency across the county.	Applies to MSW service area (limited to uninc. & some cities); involves additional infrastructure, labor, etc.; well-established programs in peer jurisdictions; existing compost selection reduces bio load by ~1/2 (per long-range energy plan)
Establish food waste compost collection pilot program Ensure fugitive LFG emissions monitoring programs are sufficient MSW - Other	would establish regular food waste composting at small scale to develop internal knowledge and skills; potential candidates to include schools, hospitals, campuses, prisons, or even entire cities (e.g., Decatur). Review Seminole Rd. Landfill Operations and ensure an adequate Leak Detection and Repair (LDAR) program is in place for LFG collection, clean energy facility gases, and methane/CNG products. Fugitive Emissions - Operations	2025 2025	5 \$\$	VL - M VL-M	Evaluate potential candidates for pilot program and prioritize those which are overburned and would benefit from this program. Ensure current workforce is adequately trained to implement LDAR programming to promote equitable opportunities for developing careers in sustainability.	Emissions mitigation impact depends on current state
Accelerate garbage deliveries/minimize in-transit anaerobic decomp	Maximizing garbage delivery/pickup route efficiency, increasing the number of garbage trucks to shorten routes and delivery times, and/or improving collection method to reduce emissions.	2035	5 \$	VL - L	Measure social, health, and environmental benefits associated with reduced in-transit waste decomposition, such as odor mitigation and GHG emission reduction, across the county to ensure equitable distribution of benefits.	Contingent on preexisting municipal compost collection program

Action		Timeframe	Characteristic	s			Specific Feedback
Action Title	Description	Estimated Start Duration	Cost	Emissions N	litigation Equity Impact Metrics	Notes	(Please indicate responding Agency/Department)
Health - Heat	Planning						
Implement heat health strategy	Prepare for heat-related health incidents by improving communication about heat and heat risks, preparing a heat emergency strategy (incl. protocols for cooling centers, patient outreach, combined training etc.), promoting heat-resilient infrastructure (e.g. tree canopy, shaded transit shelters, etc.) across departments, and operational protections for County workers. Initiate a program for targeted occupational safety outreach in the agriculture/horticulture/landscaping, forestry, hunting/fishing, construction, and waste/remediation sectors. Ensure that heat health and air quality emergencies are	2025	5 \$\$	N/A	Important resilience action with disproportionately large benefits for vulnerable populations (incl. low-income, seniors, disabilities, etc.)		
Conduct targeted occupational heat health outreach	communicated to workers in these sectors via appropriate channels (incl. via licensing/permitting, mass & social media, labor unions and/or professional networks). Initiate a program for targeted heat health	2025	5 \$	N/A	Focus on workers in the most vulnerable sectors		
Conduct targeted heat health outreach for medical facilities, nursing homes, and assisted living facilities Health - Heat	outreach to the medical, geriatric care, and assisted living sectors. Include both year-round operational planning as well as channels for ensuring healthcare providers and facility operators are notified during extreme heat/air quality emergencies Energy Resilience	2025	5 \$	N/A	Focus on elderly and disabled populations, among the most vulnerable for extreme heat/air quality emergencies		
Heat emergency power outage response plan Health - Public	Create a heat emergency power outage response plan, either as an independent plan or as a component of a heat health strategy. The plan should identify the unique hazards associated with a partial or full power outage occuring during an extreme heat emergency. The plan should include specific actions to mitigate heat health impacts, including the distribution of generators for cooling centers, a system for notifying residents, and other prudent actions	2025	5 \$\$	N/A	Determine potential barriers and challenges community members may face during emergency power outages and strategize equitable solutions to ensure comprehensive and quality emergency plans are in place for all residents and communit members. For example, ensuring transportation to cooling centers for community members without access to vehicles or developing emergency broadcasting in multiple languages according to community needs.	Opportunity to integrate into plans for new clean / energy sources (e.g., through colocation of County DERs/battery	
Public health communication strategies (tick, mosquito-borne, etc.)	Emerging Diseases Continue/improve public communications strategies about risks of existing and emerging vector-borne diseases, including West Nile, and Lyme viruses as well as emerging disease risks such as Zika, Malaria, Chikungunya, Dengue, etc. for which risk increases with increased heat and shorter cold periods.	2025	5 \$	N/A	Develop public communications utilizing strategies that prioritize equitable accessibility; i.e., develop multilanguage marketing, use digestible language and meaningful visuals, include resources and references to publicly available resources and materials, etc.		
Ensure adequate disease monitoring	Consult with Dekalb dept. of Public Health to establish whether existing capacity for monitoring emerging diseases and public health threats is sufficient, given expectations of new diseases.	2025	5 \$	N/A	Determine potential barries community members may face in recognizing and/or reporting symptims of emerging diseases such that it may affect community wellbeing and efficient disease monitoring (i.e., barriers to health insurance coverage or systemic inequities in the healthcare diagnosis system, etc.)		

Ensure adequacy of insect control programs Health - Air Quality	Consult with Dekalb Public Health to ensure the adequacy of the existing mosquito control program and explore additional measures to control vectors of diease. Consider appropriateness of additional methods, including bilogical control methods, sterile insect technique, environmental control, and physical control. Transportation/Energy	2030	5 \$\$	N/A	Determine potential impacts of insect control programs on community health and wellbeing as well as local wildlife ecosystems to ensure no inadvertent negative side effects take place from measure implementation.
Implement improved air quality monitoring	Expand air quality monitoring networks to identify problem areas with dangerous concentrations of air pollutants (especially particulates) associated with high-traffic urban intersections and highways; leverage state and federal funding to support air pollution reduction efforts. Establish plans for air quality emergency days	2025	5 \$	VL	While identification of localized problet areas will have no direct effect on GH Air quality monitoring is currently insufficient to identify highly localized dangerous concentrations of air pollutants, a problem that disproportionately affects vulnerable urban communities While identification of localized areas will have no direct effect on GH emissions, follow-to air pollutants will also reduce community GHG emissions
Implement air quality emergency plans	(days where localized AQI is expected to exceed dangerous thresholds) and implement actions to mitigate hazard (incl. reduced operations at major point sources and targeted low-speed zones in areas with worse air quality.	2025	10 \$	L	Targeted mitigation of dangerous concentrations of air pollutants (especially on high-heat days) can mitigate serious public health threats in vulnerable communities

Action		Timeframe		Characteristics	•			Specific Feedback
Action Title	Description	Estimated Start	Duration	Cost	Emissions Mitigatio	n Equity Impact Metrics	Notes	(Please indicate responding Agency/Department)
Land Use - Planning								
	Implement the Unified Plan's recommendations for sustainable zoning,							
Sustainable zoning	emphasize zoning that reduces energy-							
recommendations	related emissions from vehicle miles					Significant variation in scale, depending on intensity of policy;		
for energy/	traveled, and building heat gain and loss;					direct costs likely low, however additional litigation costs may		
transportation	deemphasize zoning that preserves or		2025	10 \$	L-VH (community	be anticipated.		
emissions mitigation	exacerbates VMTs and building energy use Implement the Unified Plan's SAPs, but with		2025	10 \$	only)	EQUITY - goes to housing supply & affordability		
	a focus on transportation and land-use							
	emissions mitigation; all SAPs should have							
	robust internal active transportation							
	networks; corridor-based SAPs should be					SAPs may accomplish much of sustainable zoning reform if		
	reimagined with active transportation corridors, crossings, and connections to					new uses call for intensive density and transit connections;		
Focus Small Area	surrounding communities; SAPs designed					scale depends on intensity of policy; direct costs likely low,		
Plans (SAP) on	around highway/arterial corridors should be				L-H (community	however additional litigation costs may be anticipated		
emissions mitigation			2025	10 \$	only)	EQUITY - goes to housing supply & affordability	"don't want it to apply	every small area plan"
	The Unified Plan indicates new developments							
Concentrate new development in	should focus on existing activity centers, locations near transit stations, and high-					Transit-oriented high-density development achieves the most		
high-density, low-	capacity corridors; create compact, mixed-					important goals of sustainable zoning reform and can be		
emissions activity	use developments which decrease reliance				H-VH (community	accomplished relatively quickly with overlays		
centers	on single-passenger vehicles		2025	5 \$	only)	EQUITY - goes to housing supply & affordability		
	The most ambitious strategy, increasing							
	density across all zoning classes would ensure future development maximizes							
	efficient use of space and minimizes energy							
	and transportation emissions in the							
	residential sector; differential zoning							
	intensificiation can apply to different classes,					Track the change in available affordable housing units within		
	for example SFH zoning can be augmented with auxilliary dwelling units (ADUs), higher-					high-density developments to ensure equitable access to housing for low-income residents; Measure inclusion and		
Implement higher	intensity zoning can be similarly upzoned					access to public green spaces and community amenities		
density across all	(either in terms of units per parcel,				M-VH (community	integrated into high-density development plans to enhance		
zoning classes	FAR/height limites, etc.)		2025	25 \$	only)	quality of life and mitigate environmental disparities.		
	Identify opportunities for concentrating all							
	new development around transit facilities,					Differs "concentrate new development in activity centers" by		
Concentrate new	bike and pedestrian paths, and other forms of public transit that minimize reliance on					exclusively focusing on transit connections and including the design and implementation of community master plans.		
development in	single-occupancy vehicle use; creating zoning					Equity measures include evaluate frequency of service,		
dense, transit	overlays to allow much greater density, as					affordability, and connectivity, to ensure that public transit		
connected town	well as master plans for new town centers				M-VH (community	meets the needs of low-income residents, people with		
centers	that ensure walkable amendities. Offer incentives to developers to incorporate		2030 Ongoing	\$\$\$	only)	disabilities, and communities of color.		
	environmental protection and alternative							
	transportation facilities into their plans; this							
Zoning bonuses for	is in line with the Future Land Use guiding							
alt. transportation	principle to provide Density Bonuses to					Evaluate increases in availability and accessibility of		
facilities/ compatibility	density bonuses for projects that provide community benefits.		2025 Ongoing	\$\$-\$\$\$	M (community only)	alternative transportation facilities in historically underserved neighborhoods and communities.		
	Zoning		2025 Oligonig	77-777	ivi (community only)	neignoomoods and communices.		
						Measure the increase in deployment and adoption of		
Zoning bonuses for	Offer incentives to developers to incorporate					islandable microgrids within underserved neighborhoods and		
islandable	islandable microgrids into plans for new					communities, particularly those vulnerable to power outages		
microgrids	developments		2030 Ongoing	\$\$-\$\$\$	M (community only)	and energy insecurity. Measure the increase in development and deployment of		
						Measure the increase in development and deployment of community solar projects within underserved neighborhoods		
	Amend current zoning regulations to enable					and communities, particularly those with limited access to		
	community solar, which minimizes costly and					rooftop solar and renewable energy resources; Measure		
	burdensome solar modifications to homes by					participation rates and benefits of community solar programs		
to enable	private owners and allows communities to		2025	ΕĊ	M-H (community	among low-income residents, renters, and multifamily housing		
community solar Land Use - Emissions	enjoy greater access to solar energy		2025	5 \$	only)	occupants, to track equitable access to clean energy.		
Carbon	- ragitive Linissions -							
sequestration	Utilize carbon sequestration practices such as							
practices for	establshing forest and vegetation on					Measure the amount of carbon dioxide (CO2) sequestered		
marginal/waste	brownfield sites, diverse plant communities,				I M (correct)	annually through implemented practices on marginal/waste		
land/brownfield sites	restoration of degraded land, and proper vegetation management.		2030 5, then ongoing	\$\$\$	L-M (community only)	land/brownfield sites, specifically focusing in underserved communities.		
-	-0		,	***	- '11			

In line with the guiding principles of the Future Land Use Plan, tree preservation and landscaping standards should be built into requirements into zoning code, landscape-scale cooling, reducing energy especially in activity centers months

2025

25 \$\$

L-M (community in

only)

Ensure tree canopy standards prioritize regions facing insufficient canopy coverage. Monitor community health impacts of improved regulations.

Additional Feedback

Please use this space to provide feedback (other than specific feedback related to an individual action). When contributing feedback, please indicate the reviewer's name and/or department.



The Clean Energy Plan will set goals and outline steps to efficiently and equitably transition DeKalb away from fossil fuels.

 $\downarrow \downarrow \downarrow$



Email Address		
First Name		
Last Name		
Organization		
Subscribe		



Past Events

Community Climate Champions 1 | Slide Deck



Community Climate Champions 2 | Slide Deck



Community Climate Champions 3 | Slide Deck





- Fixed Charge (Sometimes called basic or base charge etc.)
 - The customer has very little control over this portion of their bill
 - The customer pays this charge even if they used no energy
- Usage Charge (Sometimes calle ble or volumetric charge)
 - Usually based on the amount of energy used
 - · Using less energy usually lowers this portion of the bill



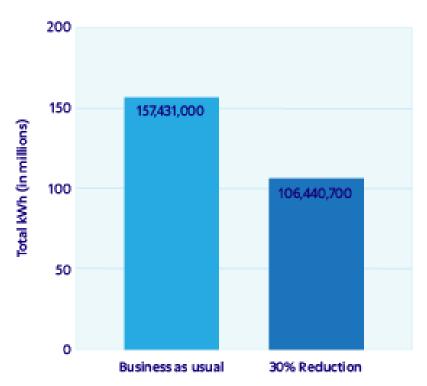
Community Climate Champions 4 | Slide Deck

DeKalb County Operations Committee Feedback

- 1. Addressing Cost for Sustainability Officer (Deputy COO)
 - National Average Salary: \$85,000 \$140,000
 - Examples
 - i. Chief Resilience Officer Mobile, AL: \$100,000 \$120,000
 - ii. Director of Sustainability King County, WA: \$115,000 \$155,000
 - iii. Sustainability Officer Maricopa County, AR: \$95,000 \$135,000
 - iv. Chief Sustainability Officer Orange County, FL: \$90,000 \$130,000
 - DeKalb County Deputy COO
 - i. (Deputy COO Police) hired in 2018: \$175,000
 - ii. CFI \$219,278.35
 - Southface's recommendation
 - i. \$140,000 \$160,000
- 2. Addressing Cost for Energy Manager
 - National Average Salary: \$80,000 \$120,000
 - Examples
 - i. Energy and Sustainability Manager City of Decatur: \$57,117 (2021)
 - 1. The City of Decatur's Operating budget is ~38,000,000
 - 2. DeKalb County's Budget ~ 1,700,000,000
 - Southface's recommendation
 - i. \$80,000 \$100,000
- 3. Monetizing the Fiscal Impact of a 30% reduction in County Buildings by 2030
 - As part of the DeKalb Clean Energy Transportation Transition Plan, one key recommendation is to achieve a 30% reduction in energy consumption across County-owned buildings by 2030. Southface has analyzed and highlighted the financial and environmental impacts of reaching this goal.
 - In 2022, DeKalb County buildings consumed approximately 157,431,000 kWh of electricity, costing the County \$20,785,847.46 in utility bills. To calculate a \$/kWh rate, the total cost is typically divided by total consumption. However, since certain fixed fees remain constant regardless of consumption levels, Southface has determined that a more accurate estimate of the County's electricity cost is \$0.11 per kWh.

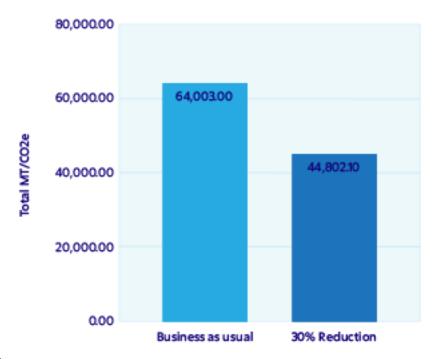
 The graphics below illustrate the potential impacts—both in terms of energy savings and financial benefits—of achieving a 30% reduction in energy usage by 2030.

DeKalb County Facilities' Annual kWh Consumption



0

DeKalb County Facilities' Annual Emissions



DeKalb County's Financial Outlook



 The graphic titled "DeKalb County's Financial Outlook" provides several key insights regarding the financial implications of energy consumption. It illustrates the total expenditure on electricity at the assumed rate of \$0.11 per kWh. If

0

DeKalb County successfully achieves a 30% reduction in energy consumption, it stands to gain approximately \$5,195,223.00 in annual savings. In addition to these savings, the graphic incorporates the Social Cost of Carbon, defined by the EPA as "a measure, in dollars, of the long-term damage done by a ton of carbon dioxide (CO2) emissions in a given year" (EPA). By achieving this energy reduction, the citizens of DeKalb County would avoid damages amounting to \$978,245.90 annually.

The GoodUse team at Southface specializes in assisting nonprofits to reduce utility costs and reinvest those savings into their programs. On average, the GoodUse team invests about \$150,000 in a building with a size range of 5,000 to 15,000 square feet to achieve a 30% energy savings. Based on this average investment, DeKalb County would need to allocate approximately \$41,100,000 across its 274 buildings to attain a 30% reduction in energy consumption. Given the projected annual savings of \$5,195,223.00 from these investments, the simple payback period is estimated to be just under eight years.

Central Staff's Questions

- There are pictures with Commissioners on pages 12 and 44 of the plan. In an effort to be
 more equitable in messaging, are there pictures of all DeKalb Commissioners engaging
 with this project that could be utilized? If not, we would advise that no pictures with
 commissioners be included.
 - a. Addressed in report
- 2. PG. 18 refers to supplementary measures that the County could pursue; is there a current accounting from you all's research that shows what measures we are currently active in? PG. 30: In your research, are there other Community Assistance Programs that DeKalb County Government currently offers that could be mentioned in the plan?
 - a. **St. Vincent de Paul Utility Program**: This program, available through the efforts of Commissioner Robert Patrick, specifically assists residents of District 1 who are facing financial hardships, particularly those with past-due water bills. To qualify, applicants must reside in District 1 and meet certain income criteria.
 - b. DeKalb County's Tree Protection Ordinance serves as a robust framework for environmental stewardship and community well-being, positioning it as a vital tool in addressing local climate resilience. The ordinance requires specific canopy coverage, regulates tree removal, and enforces replanting mandates, all of which

contribute to the preservation and expansion of the county's tree canopy. By safeguarding large "specimen trees" and promoting reforestation efforts, DeKalb enhances carbon sequestration, reduces urban heat island effects, and improves air quality—delivering measurable climate benefits. This ordinance operates as a community assistance program, offering ecological services that mitigate climate impacts and foster a healthier environment for all residents. Through these proactive measures, DeKalb County not only supports sustainable development but also ensures that the community enjoys long-term environmental and public health advantages.

- c. The Partnership for Community Action, Inc. (PCA) administers the Weatherization Assistance Program (WAP) in DeKalb County, Georgia, helping low-income households improve energy efficiency through upgrades like insulation and HVAC improvements. This program reduces energy consumption and carbon emissions, contributing to climate change mitigation efforts. By lowering energy bills, it also alleviates the energy burden on vulnerable families, helping them achieve greater financial stability. Targeting low-income, elderly, and disabled populations, PCA ensures that energy-saving resources are distributed equitably, supporting both environmental sustainability and social justice in the community. PCA also offers utility assistance that can provide a one-time payment towards home utility bills for eligible households across DeKalb County and surrounding areas. Their programs are designed to alleviate the financial burden of utility costs for low-income individuals and families.
- 3. PG. 22: Regarding potential sites for solar, were there any county-owned open fields reviewed as potential sites for larger solar farms? Additionally, what is the viability of floating solar farms at any of the County's lakes and ponds?
 - a. All solar installations were associated with building structures, and consequently, had an energy load that the solar systems would effectively offset. Under the Territorial Act, the Georgia Public Service Commission (PSC) restricts the use of the grid for distributed energy generation, such as from fields or water sources, permitting only minimal amounts above the anticipated energy load of a particular use. Therefore, DeKalb County would need to collaborate with a utility provider to address the costs associated with power from such facilities.
- 4. PG. 24: Regarding the model ibE created which allows the input of any bill amount for residential utilities, could a tiered structure be included in this document that shows a spectrum of monthly costs for utility bills? (ex. \$150, \$200, \$250, \$300, \$400). Then these

numbers could give a broader representation of energy bills percentage of median household income for DeKalb residents. Staff also has questions regarding the \$150 bill assumption in the report.

- a. Addressed in report
- 5. PG. 25: What equity initiatives could be used for renters? Is this an opportunity for the County to enter into agreements like we do with Watershed to subsidize or offer a tax abatement to apartment complexes that install solar?
 - a. The split incentive problem, wherein landlords own and maintain energyconsuming equipment while tenants bear the cost of energy bills, presents a
 significant challenge to energy efficiency efforts. Many municipalities have
 implemented benchmarking and energy performance disclosure requirements to
 enhance transparency regarding rental unit costs. Furthermore, the Pay As You
 Save™ (PAYS™) program demonstrates effectiveness even in split incentive
 scenarios. Property owners with multi-unit developments represent a promising
 target audience for PAYS™ programs.

For most apartments, the initial focus should be on efficiency upgrades through such programs. However, the deployment of solar energy in apartment complexes is notably hindered by the split incentive issue. Offering Community Solar as a tenancy program may attract interest and participation.

In examining these challenges within other communities, we have encountered "equal protection amendment" concerns, where tax abatements for purposes other than economic development prove to be problematic.

- 6. PG. 28: Please provide an additional explanation regarding the "20th percentile" metric when discussing water burden as a measure of affordability.
 - a. In the water sector, many experts, including officials at the EPA, recognize the limitations of using the MHI as an indicator of affordability. In fact, EPA contracted with the National Academy of Public Administration (NAPA) to develop a report on the topic. The resulting report ("Developing a New Framework for Community Affordability of Clean Water Services"), published in 2017 stated that "MHI is a poor indicator of economic distress bearing little relationship to poverty or other measures of economic need within a community." The median, by definition, "ignores" half the population of an area. In other words, any income levels below the median are not reflected in the all-too-

common measures or MHI, and the water bill as a percentage of the MHI. Following up on the NAPA report, several national water affordability experts presented an alternative to the MHI. Their 2019 report was called "Developing a New Framework for Household Affordability and Financial Capability Assessment in the Water Sector." Since every household needs water, the new measure was based on a lower income level than the median to "reflect the households that are most economically challenged." They selected the 20th percentile as a more relevant point to measure affordability. Their recommendation for a household affordability assessment methodology was two-fold:

- i. The Household Burden Indicator (HBI), defined as basic water service costs (combined) as a percent of the 20th percentile household income (i.e., the Lowest Quintile of Income (LQI) for the Service Area); plus
- ii. The Poverty Prevalence Indicator (PPI), defined as the percentage of community households at or below 200% of Federal Poverty Level (FPL).
- iii. For simplicity, the PoPs model by ibE uses the HBI above
- 7. PG. 31: Please review the dates listed as they conflict with pg. 32 of the document regarding community events.
 - a. Addressed in report
- 8. Could we include CPACE as well as PACE as a potential mechanism in the "invest in community" sections of the plan? Including CPACE allows consideration of commercial property owners. This was also a priority in DeKalb Board of Commissioners' legislative agenda to the State General Assembly in 2024. HB 206 CPACE legislation was passed by General Assembly during the 2024 Session
 - https://legiscan.com/GA/bill/HB206/2023
 - a. Addressed in question 9
- 9. How can the County engage with the PAYS, PACE, and CPACE programs to ensure residents are aware of the benefits? Are they programs we can apply for and then fill with people or do we need the people to apply first?
 - a. To implement a Commercial Property Assessed Conservation, Energy (C-PACE) program in Dekalb County, the program should be housed within the DeKalb County's Local Development Authority (Decide DeKalb), which is responsible for promoting sustainable growth and economic development. The Board of Commissioners must first pass an ordinance or resolution authorizing the C-PACE program, followed by entering into an intergovernmental agreement with the Development Authority to administer the program. This will allow the authority to finance energy efficiency, water conservation, and resilience improvements on

commercial properties, with repayment through special property assessments. The program aligns with climate change mitigation efforts by reducing greenhouse gas emissions and encouraging renewable energy adoption, directly benefiting the community's environmental goals. Additionally, C-PACE can support equity by making capital-intensive improvements accessible to businesses in underserved areas, fostering resilience in vulnerable communities. The final steps include creating a program guidebook, approving financing applications, and ensuring administrative oversight for long-term success. This initiative will lead to sustainable economic growth while addressing the county's climate resilience and social equity needs.

- b. PACE could also be housed in DeKalb's Local Development Authority if a partnership is made to ensure rigours payback measures. PAYS would require partnering with a local utility and may need state-level support at the PSC to bring in our investor-owned utility. Recently, a PAYS ™ pilot program was proposed, if deemed successful, this may be expanded.
- 10. Is there any other way outside of the IRP to reduce or remove potential fees from homeowners who would like to install solar?
 - a. A Solarize program, such as Solarize Decatur-DeKalb, presents an effective solution for counties interested in reducing fees and making solar installations more affordable for residents. This program leverages group purchasing power to negotiate lower prices with solar installers, typically resulting in savings of 10-20% for participants. By organizing interested homeowners and businesses into a single campaign, Solarize programs streamline the process of solar adoption through pre-negotiated contracts and vetted installers, ensuring both quality and affordability. Additionally, this approach eliminates the need for residents to independently research and negotiate, making the solar transition process more accessible. For residents, joining is simple: they express interest through the program's portal, attend an information session, and receive a personalized site assessment and quote from the chosen installer. This approach not only reduces upfront costs but also supports long-term savings on energy bills, aligning with the county's goals of promoting renewable energy adoption and financial savings for its citizens.
- 11. PG. 43 What does this chart tell us about our CO2 emissions?

a. This chart displays DeKalb County's operational emissions from both its buildings and transportation practices. A key takeaway from this chart is the tradeoff between building emissions and transportation emissions.

Historically, transportation emissions account for a large portion of any system's Greenhouse Gas (GHG) emissions. In this context, the chart is only examining the County's operational transportation emissions. What is significant here is the amount of GHG emissions attributed to county buildings and facilities. This chart demonstrates that DeKalb County's buildings and facilities are responsible for the vast majority of operational GHG emissions while transportation accounts for significantly less operational GHG emissions. This chart can be leveraged to inform clean energy investments to drive down higher GHG-emitting processes.

Feedback on Clean Energy Transition Plan draft:

Page #	Topic	Comment/s	Commenter
1	Title	 Calling this a "transportation" plan does not really make a lot of sense 	F. Laguaite (watershed)
22	Potential sites for solar	 Is the capacity shown for solar at the Polebridge WWT facility estimated based on the open fields there? If so, we need to check with watershed to see if the spray field permit will allow for solar installation on these fields. I don't see the Snapfinger WWT facility listed here, and especially with their recent expansion, there seems to be great potential for solar at that location. 	K. Reed (Planning & Sustainability)
22	Potential sites for solar	 Polebridge has a far greater potential for solar generation given the nearly 600 acres available and not being used for their original purpose of land application of ww sludge. Focusing the solar installations here, rather than spreading across 39 sites, would be a more efficient method of managing and maintaining the subsequent solar infrastructure. Likely the entire 17,000 kW could be generated at this one location. 	F. Laguaite

39	Graphic on Sustainability Committee	 Suggest adding Georgia Composting Council under "non-profit sector" We should try to stick to non-profits in the energy sector. Will there be a similar graphic for the Environmental Justice committee? As the Environmental Justice committee was added scope from a piece of proposed legislation we only integrated it as requested. The proposed legislation has a proposed structure. 	K. Reed
45	Milestones, topic = streets	 "Adopt a Complete Streets Policy"—perhaps reword this to "Review and Update DeKalb's Complete Streets Policy" DeKalb County's Complete Streets Policy was put into effect in 2014 and serves as a guide during the planning and development process. Do they mean establish a 'Minimum Tree Canopy'? Will there be a Carbon Mitigation Plan? (Land Use) 	K. Reed
46	Milestones	 In order to cut down on Confusion; we may want to consider addressing the Zoning Regulations separately from Land Use. Replace 'Land Use' with 'Zoning' 	B. Brewer (Planning & Sustainability)
54	Appendix	 Not included in this draft; cannot provide input 	K. Reed

45	Streets	 Include micro-mobility in goals/accommodate in Complete Streets 	G. Kenna (Public Works)

Planning & Sustainability Feedback

- 1. PG 22: Is the capacity shown for solar at the Polebridge WWT facility estimated based on the open fields there? If so, we need to check with watershed to see if the spray field permit will allow for solar installation on these fields. I don't see the Snapfinger WWT facility listed here, and especially with their recent expansion, there seems to be great potential for solar at that location.
 - a. All solar installations were associated with building structures, and consequently, had an energy load that the solar systems would effectively offset. Under the Territorial Act, the Georgia Public Service Commission (PSC) restricts the use of the grid for offsite power charging, such as from fields or water sources, permitting only minimal amounts above the anticipated energy load of a building. Therefore, DeKalb County would need to ensure the energy generated would be mostly consumed by the Polebridge facility.
 - b. Snapfinger WWT Facility analysis added to the Plan
- 2. PG 22: Polebridge has a far greater potential for solar generation given the nearly 600 acres available and not being used for their original purpose of land application of ww sludge. Focusing the solar installations here, rather than spreading across 39 sites, would be a more efficient method of managing and maintaining the subsequent solar infrastructure. Likely the entire 17,000 kW could be generated at this one location
 - a. All solar installations were associated with building structures, and consequently, had an energy load that the solar systems would effectively offset. Under the Territorial Act, the Georgia Public Service Commission (PSC) restricts the use of the grid for offsite power charging, such as from fields or water sources, permitting only minimal amounts above the anticipated energy load of a building. Therefore, DeKalb County would need to ensure the energy generated would be mostly consumed by the Polebridge facility.

- 3. PG 39: Suggest adding Georgia Composting Council under "non-profit sector." Will there be a similar graphic for the Environmental Justice committee?
 - a. For the purposes of the Plan, the project team chose to stick with non-profits that operate within the energy sector. This decision was made due to the large potential to achieve energy savings and climate goals. Though the Georgia Composting Council is a relevant non-profit, their expertise to advise on committee issues will be minimal given the heavy emphasis on energy usage which will directly drive down the energy consumption and GHG emissions.
 - b. As the Environmental Justice committee was added scope from a piece of proposed legislation we only integrated it as requested. The proposed legislation has a proposed structure.
- 4. PG 45: Adopt a Complete Streets Policy"—perhaps reword this to "Review and Update DeKalb's Complete Streets Policy" DeKalb County's Complete Streets Policy was put into effect in 2014 and serves as a guide during the planning and development process. Do they mean establish a 'Minimum Tree Canopy'? Will there be a Carbon Mitigation Plan?
 - a. Addressed within the Plan
- 5. Pg 45: Include micro-mobility in goals/accommodate in Complete Streets
 - a. Addressed within the Plan
- 6. PG 54 Appendix not included in this draft cannot provide comment
 - a. Appendix shared with Planning & Sustainability. Edits applied.
- 7. Pg 46: In order to cut down on Confusion; we may want to consider addressing the Zoning Regulations separately from Land Use. Replace 'Land Use' with 'Zoning'
 - a. In order to keep consistency throughout the milestones, the project team chose not to make this change.

DeKalb County's Library Transition Plan 3.0 A microcosm for regenerative landscape

DeKalb County has proposed transforming the landscapes of all 23 county libraries through a partnership with Roots Down. Commissioner Terry's initiative aims to integrate regenerative landscaping practices, demonstrating the broader carbon sequestration potential if adopted countywide.

Collectively, the 23 library sites encompass approximately 75 acres of landscape. The Library Transition concept aligns closely with Project Drawdown's *Multistrata Agroforestry* solution, which estimates a sequestration rate of 4.45 MTCO $_2$ e per hectare¹. Based on this methodology, Southface calculated that the library landscapes could sequester roughly 135 MTCO $_2$ e. However, when compared to DeKalb County's total community-wide emissions of 8,797,366 MTCO $_2$ e, this impact alone is not substantial enough to be considered a standalone emissions reduction strategy.

By positioning the Library Transition as a model for a countywide shift to regenerative landscaping, its principles could be applied on a much larger scale, significantly enhancing DeKalb's carbon sequestration potential.

In collaboration with the DeKalb County Planning and Sustainability Department, Southface assessed this potential across the county's entire permeable, non-forested land area, which spans approximately 52.207 square miles. If all of this land were converted to regenerative landscaping, it could sequester an estimated 60,477 $MTCO_2e$ —enough to offset an estimated 95% of the county government's electricity consumption in 2022.

The DeKalb Library Transition Plan sets a precedent for the future of regenerative landscaping, demonstrating its potential for meaningful carbon sequestration. The following section outlines the calculations and mapping used to estimate the sequestration impact of these practices. This was conducted by DeKalb's Planning and Sustainability's Long Range Planning Division.

https://drawdown.org/solutions/multistrata-agroforestry

¹ Han, R. F. Z. (2024, March 2). *Multistrata agroforestry*. Project Drawdown.

Open Space Analysis

DeKalb County Long Range Planning and Sustainability Department

A. Data

- Import NAIP Imagery Prepared and mosaiced by outside consultant
 - o NAIP 2023 Ortho Imagery, false color, Leaf-on
 - o Roughly 2 ft Resolution

B. Define Training Samples

- Training Samples Manager used to manage training sample for supervised classification, Pixel-Based Classification
- Land cover types: Over 50 samples per class
 - Forest
 - o Impervious Surface
 - Open Space (potential planting area)
 - Shadows
 - Water

c. Train Classifier

- Samples used for training of classifier
 - Support Vector Machine (SVM) used due to its ability to handle large images
- Training performed 4X iterations to achieve usable result (This due to bad classifications in earlier classifiers, samples are added and run again.)

D. Classify Imagery

- DeKalb county boundary used to create a 2000m buffer to ensure overlap at the edge
- Classified image Clipped to DeKalb County boundary
- SVM model used in classification

E. Validation

- Compare the classified raster with ground truth data (Manual, visual inspection based on original imagery, performed on 2000m buffered area.)
 - o Confusion matrix 160 pts sample
 - o Overall accuracy 95.6%
 - Kappa coefficient 93.8%
- Achieved by reclassifying Bare Soil to Impervious Surface due to similar raster values and misclassification, i.e. Roads were misclassified as Bare Soil at a high rate.
- Classification error overlap from classified forest can increase the estimation
 of forest spaces and create underestimations of other cover types, especially
 open space as it has the largest amount of bordering area with forest spaces.

F. Results

Sq Mi	
54.41343779	Impervious Surface
134.4824187	Forest
46.22404142	Low Vegetation/Open
	Space
31.04948677	Shadows
4.751850657	Water
270.9212353	Total Sq Mi

Table a – Initial Square Mile calculations of cover types present in 2023 imagery.

	Area, Sq	Relative	Additional
	Mi	Percent	area from
			shadows, Sq
			Mi
Impervious Surface	54.41344	22.68%	7.043386004
Forest	134.4824	56.06%	17.40767766
Low Vegetation/Open	46.22404	19.27%	5.98333389
Space			
Water	4.751851	1.98%	0.615089209
		100.00%	31.04948677

Table b – Relative estimates of additional cover types from observed shadows.

Final Estimate

Square Miles	Surface Type
61.457	Impervious Surface
151.890	Forest
52.207	Low Vegetation/Open Space
5.367	Water
270.921	Total

Table c – Final cover classification estimates.

G. Classification Image Examples

