
Government Operations Greenhouse Gas Inventory

Prepared For
Albany County

112 State Street
Albany, New York

November 2024

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Albany, New York 12207

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EXECUTIVE SUMMARY

This Government Operations Greenhouse Gas Emissions Inventory (GHG EI) provides a comprehensive inventory of Albany County's 2022 greenhouse gas emissions from municipal owned and operated properties, including the combustion of fossil fuels in stationary sources (such as the heating of buildings), mobile sources (such as government transportation vehicles), and electricity usage. The report satisfies the Pledge Element Action 2 of the New York State Climate Smart Communities program, which Albany County has been a member of since 2009, and it serves as an update to the baseline GHG EI completed in 2013.

Albany County's GHG emissions for all County facilities totaled 17,923 metric tons of carbon dioxide equivalents (MTCDE) in 2022. The largest source of GHG emissions were stationary fuel sources primarily consisting of natural gas building heating, accounting for 58% of overall emissions. The largest contributor of GHG emissions by County Management Office was the County Executive Office, accounting for 49% of overall emissions. The largest contributor of GHG emissions by County Department was the Water Purification District, accounting for 30% of overall emissions.

This GHG EI details the progress that the County has made in the reduction of GHG emissions since the prior EI was completed in 2013. During this time period, total energy use has changed as follows:

- 12% Decrease in Electricity Use
- 14% Decrease in Natural Gas Use
- 18% Decrease in Fuel Oil Use
- 16% Increase in Gasoline Use
- 2% Increase in Diesel Fuel Use

The resulting emissions profile has also changed. In total, the County reported an emissions total of 34,882 MTCDE in 2013. By comparison to 2022 emissions, that is a 49% decrease. Although significant and partially the result of a commitment from the County to curb emissions through effective policymaking contribute, a greener electricity grid also contributes to this overall decrease. Additionally, updates and improvements to emission factors also contribute to this decrease. For comparison, when 2013 energy use is converted to GHG emissions using 2022 emission factors, the resulting total emission rate is 18,826.74 MTCDE. This is a 4.8% reduction between 2013 and 2022, which is directly due to the decrease in overall energy use.

ABBREVIATIONS

ACCF	Albany County Correctional Facility
AR3	Third Assessment Report
AR5	Fifth Assessment Report
CAP	Climate Action Plan
CFC	Chlorofluorocarbons
CH ₄	Methane
CLCPA	Climate Leadership and Community Protection Act
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalents
CSC	Climate Smart Communities
DGS	Department of General Services
DPW	Department of Public Works
EI	Emissions inventory
EV	Electric vehicle
GHG	Greenhouse gas
HFC	Hydrofluorocarbons
IPCC	Intergovernmental Panel on Climate Change
kWh	Kilowatt-hours
LEED	Leadership in Energy and Environmental Design
LGOP	Local Government Operations Protocol
mcf	thousand cubic feet
MMBtu	Million British thermal units
Mmt	Million metric tons
MTCDE	Metric tons of carbon dioxide equivalents
MWh	Megawatt-hours
N ₂ O	Nitrous oxide
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSERDA	New York State Research and Development Authority
ppm	Parts per million
P&R	Parks and Recreation
SD	Sewer District (Water Purification District)
SHS	Shaker Heritage Society
SUV	Sports utility vehicles

USEPA	United States Environmental Protection Agency
VMT	Vehicle miles travelled
WPD	Water Purification District
WWTP	Wastewater Treatment Plant

1.0 INTRODUCTION

The Climate Smart Communities (CSC) program is a New York State (NYS) initiative that helps local governments take action to reduce GHG emissions and adapt to a changing climate as outlined in New York's Climate Leadership and Community Protection Act (CLCPA). Albany County took the Climate Smart Communities (CSC) Pledge in 2009, which enables the County to receive technical support from New York State and assistance to help the County progress through the ten CSC Pledge Elements. One of the pledge elements is to set goals, inventory emissions, and move to action.¹ As part of the County's 2011 Climate Smart Communities Regional Coordinators Pilot Program, the County developed a baseline greenhouse gas (GHG) emission inventory (EI) for 2013 municipal operations associated with its owned and operated buildings and properties.

Albany County, with support from Barton & Loguidice, D.P.C., developed a GHG EI for 2022. This 2022 GHG EI is an update to the 2013 Baseline GHG EI Report,² and together, they serve as the emission inventory for the County. The GHG EI are updated periodically to measure progress using the Plans started by this CSC Program, and the County can use them to assess existing programs as well as potential new emission reduction targets and strategies to achieve outlined climate action goals.

1.1. Climate Leadership and Community Protection Act (CLCPA)

The CLCPA, signed into law in July 2019, established the following statewide targets:

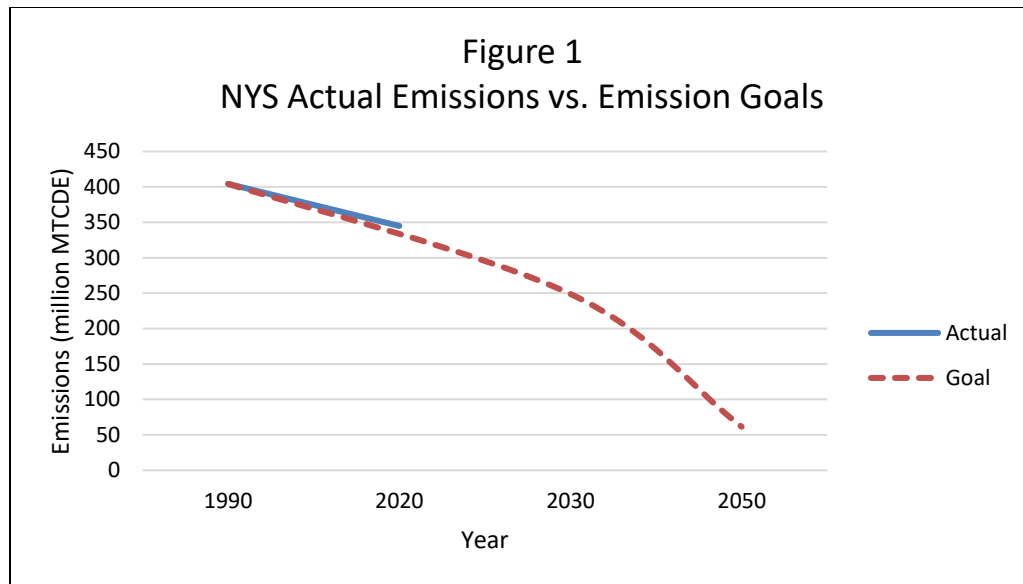
- To reduce total GHG emissions by 40 percent from 1990 levels by 2030,
- To achieve a zero-emission electricity sector by 2040, and
- To reduce total GHG emissions by 85 percent from 1990 levels by 2050.

As inventoried by the New York State Department of Environmental Conservation (NYSDEC), statewide baseline emissions were 404.26 million metric tons of carbon dioxide equivalents (MTCDE) in 1990. The CLCPA established emission goals for the years 2030 and 2050 based on these emissions to help the State combat climate change. Total gross emissions statewide in 2020 were 15% lower than 1990 and 8% lower than in 2019.³ While emissions have decreased, work remains to meet the CLCPA target objectives. Figure 1 illustrates these emission goals and New York State's current emissions.

¹ Albany County, "Climate Smart Communities Profile," March 2013, <https://www.albanycounty.com/home/showpublisheddocument/946/636984653559470000>.

² Albany County, "Government Operations GHG Inventory Report," October 2014, [Local Government Operations Greenhouse Gas Inventory \(albanycounty.com\)](https://www.albanycounty.com/home/showpublisheddocument/946/636984653559470000)

³ New York State Department of Environmental Conservation, "2022 Statewide GHG Emissions Report," [2022 Summary Report of the NYS Statewide GHG Emissions Report](https://www.dec.ny.gov/press/115879)



In December 2022, the New York’s Climate Action Council released its Final Scoping Plan. This plan outlines a variety of regulatory and legal changes, sector-specific strategies, market mechanisms, and technologies essential to achieving the CLCPA’s goals and requirements.

The Final Scoping Plan identifies actions needed from a variety of different sectors, and economy-wide, for New York to achieve the CLCPA target objectives.

1.2. Climate Smart Communities

The Climate Smart Communities (CSC) program began in 2009 and helps to provide guidance, technical support, and recognition to communities as they take action to address climate change. Benefits to participation in this program include:

- Cost savings through decreased energy use,
- Greater energy independence,
- Improved air quality,
- Reduction in flood risk,
- Green space conservation for people and wildlife, and
- Investment in a green economy.

The first step in becoming a Climate Smart Community is to adopt the Climate Smart Communities pledge and send it to the New York State Department of Environmental Conservation (NYSDEC). This pledge is a public commitment to reduce GHG emissions and adapt to a changing climate.

The program is centered on the following ten priority elements:

- 1) Build a climate-smart community;
- 2) Inventory emissions, set goals, and plan for climate action;
- 3) Decrease energy use;
- 4) Shift to clean, renewable energy;
- 5) Use climate-smart materials management;
- 6) Use climate-smart land use;
- 7) Enhance community resilience to climate change;
- 8) Support a green innovation economy;
- 9) Inform and inspire the public; and
- 10) Engage in an evolving process of climate action.

The program also includes more than 100 actions to assist in achieving program goals. The actions fall into two categories: mandatory and priority. Mandatory actions are required for certification, and priority actions tend to be relatively low-cost assessments and policies that establish a baseline knowledge and plan for future action. An example of a mandatory action for this program would be the completion of this GHG EI, whereas an example of a priority action would be informing and inspiring the public to reduce emissions. Local governments earn points for completing the various actions, and they can attain bronze, silver, and gold certifications as specific milestones are reached.

The 2013 Baseline Report and the current 2022 GHG Emissions Inventory was part of the pledge element to “inventory emissions, set goals, and plan for climate action.” The CSC program provides an inventory guidance document that was referenced in the preparation of this GHG EI update. The 2013 Baseline Report was also referenced.⁴

1.3. Basis for Development

A GHG emission inventory is one of the first and most important steps in the local climate action process. In general, an EI is used as an account of emissions emitted to or removed from the atmosphere during a specific period. This County government operations GHG inventory is an accounting, analysis, and report of the GHG emissions resulting from everyday operations of the County. GHG emissions from the consumption of energy and fuels in government buildings, municipal vehicles, wastewater treatment facilities, and other County government-run facilities and operations are summarized in this inventory.

GHG inventory reports serve as a tool to:

- Identify the largest energy users and sources of GHG emissions, by building or sector, and
- Track emissions over time to help plan for emission reduction efforts.

⁴ Albany County, “Government Operations GHG Inventory Report,” October 2014, [Local Government Operations Greenhouse Gas Inventory \(albanycounty.com\)](https://www.albanycounty.com/government-operations-greenhouse-gas-inventory)

1.4. Government Operations Emission Inventory Scope

Inventories categorize emissions by “scopes” to provide a consistent way of accounting for emissions based on an organization’s level of control. By using scopes to help categorize emissions sources, the County can easily identify GHGs directly emitted by County operations, and those produced by its wider influence. The Climate and Smart Communities New York Community and Regional GHG Inventory Guidance (version 1.0, September 2015) (CSC Guidance),⁵ consistent with the international Local Government Operations Protocol,⁶ further define three (3) emission scopes.

Table 1-1 Emission Inventory Scope Categories		
Scope	What They Cover	Examples
Scope 1	All direct GHG emissions from municipal operations.	- The use of refrigerants - Combustion of fuel from vehicles and buildings
Scope 2	Indirect emissions from the use or purchase of electricity.	Electricity consumption
Scope 3	Indirect emissions an entity may influence or not control.	- Community, commercial, recreational, and residential sources - Worker commutes

B&L worked with the County to determine the boundaries of the GHG inventory, including sources and facilities owned and/or operated by the Town. This Greenhouse Gas Emission Inventory includes Scope 1 and Scope 2 emission sources from County owned and operated buildings, equipment, vehicles, and other facilities.

1.5. Greenhouse Gas Emissions

GHGs trap infrared radiation emitted from the Earth’s surface and solar radiation emitted by the sun that enters the Earth’s atmosphere. By preventing this radiation from escaping, the Earth gets warmer like a greenhouse. Climate changes with the changes in characteristics of the planet, such as temperature.

GHGs include carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). Certain refrigerants, including chlorofluorocarbons (CFCs) and hydrofluorocarbons (HFCs), also contribute to climate change. CO₂ is the primary GHG emitted through human activities, accounting for approximately

⁵ Climate Action Associates LLC, “Climate Smart Communities: New York Community and Regional GHG Inventory Guidance,” version 1.0, Sept 2015.

⁶ California Air Resources Board, California Climate Action Registry, ICLEI – Local Governments for Sustainability, and The Climate Registry. “Local Government Operations Protocol,” version 1.1, 03 May 2010.

79% of all GHG emissions.⁷ Although CO₂ is naturally present in the atmosphere, emissions from human activities have significantly increased the levels of CO₂ (and other GHGs) in the atmosphere since the industrial revolution through fossil fuel combustion, deforestation, and land-use changes, which is causing climate change.

These different GHGs can have different effects on the Earth's warming, and global warming potentials (GWPs) are used to allow for comparisons of the global warming impacts on different gases. GWP was developed by the Intergovernmental Panel on Climate Change (IPCC) to address the fact that GHGs differ from each other. These differences are based on their availability to absorb energy (referred to as the "radiative efficiency") and how long they stay in the atmosphere (referred to as the gas's "lifetime"). GWP serves to measure how much energy the emissions of 1 metric ton of a gas will absorb over a given period, relative to the emissions of 1 metric ton of CO₂. CO₂ is used as the standard GHG as it is the most prevalent GHG. The larger the GWP, the more that a given gas warms the Earth compared to CO₂ over that time, typically a 100-year time period. In the IPCC Fifth Assessment Report (AR5), methane was assigned a GWP of 28, and nitrous oxide was assigned a GWP of 265. This means that methane can absorb 28 times more energy than CO₂, so 28 times more energy can be trapped in Earth's atmosphere by one metric ton of methane than one metric ton of CO₂.⁸

GHG emissions are typically reported as metric tons of CO₂ equivalents or MTCDE. These are calculated by multiplying the metric tons of each GHG emitted by that GHG's global warming potential and summing the results. Reporting the GHG emissions as MTCDE allows policymakers to compare emissions reduction opportunities across sectors and gases.

⁷ United States Environmental Protection Agency, "Overview of Greenhouse Gases," February, 2024

⁸ Intergovernmental Panel on Climate Change. "Fifth Assessment Report." IPCC, Nov 2014.

2.0 INVENTORY METHODOLOGY, DATA SOURCES, AND CALCULATIONS

This report follows the methodology laid out in the CSC NY Community and Regional GHG Inventory Guidance (CSC Guidance).⁹ This was developed by the CSC program and outlines the methods and data sources needed to conduct regional GHG Emission Inventories. Once collected, data was input into EPA's Local GHG Inventory Tool: Government Operations Module (version 2023.1) ("the Tool"). The Tool consists of an Excel template that the user can use to input data and calculate estimated GHG emissions from each emissions source.

Emission inventories that are updates to baseline emissions are kept consistent to allow for appropriate comparisons of County emissions from year to year. This is achieved by establishing the following during the baseline emissions inventory and keeping them the same during updates:

- The inventory boundary (for example, all County-owned and operated facilities and other properties within the County),
- The "scopes" selected,
- Source types within each scope (for example, stationary combustion sources), and
- The method (for example, using the same emissions accounting tool).

In addition to ensuring these are the same, the same GWP would need to be used. Prior baseline emissions may be scaled to the GWPs from the IPCC's Assessment Report used in the current inventory.

2.1. Emissions Sources and Data

Emissions sources were identified through discussions with County staff, who then provided the corresponding 2022 data for use in the emissions accounting tool. These sources include stationary combustion of fossil fuels, electricity consumption, mobile combustion sources from transportation vehicles, and wastewater treatment. Including these within this inventory helps to capture the emissions generated by County facilities in a way that is easy to understand.

The County's Baseline GHG EI inventoried 2013 emissions, which included all raw data, calculations, tables, and figures. Raw data for this baseline inventory was provided by the County and collected from a variety of sources including, but not limited to: gas and electric meters and billing data, and data provided from County-operated facilities. Sources of emissions included in this inventory were based on the outlined sources found in the CSC Guidance. To maintain uniformity between the 2013 Baseline Report and the 2022 GHG EI, the same emission sources were inventoried where possible. Table 1-2 below outlines each emission source as well as where the information was sourced from for both the 2013 and 2022 reports.

⁹ Climate Action Associates LLC, "Climate Smart Communities: New York Community and Regional GHG Inventory Guidance," version 1.0, Sept 2015.

Table 1-2 Data Sources		
Emission Source	2013 Baseline Report	2022 GHG EI Report
Electricity Consumption	National Grid and Central Hudson electricity billing information	- National Grid, Central Hudson, and Direct Energy electricity invoices - Electric vehicle charging station tracking sheet
Stationary Fossil Fuels	- National Grid bills - Reports from Department of Public Works (DPW) facilities <i>Note: No propane was reported.</i>	- National Grid bills (natural gas) - Individual department worksheets from the County <i>Note: Propane was reported in this inventory.</i>
Mobile Sources	Gasoline and diesel fuel usage reported by County for its combined fleet.	County fleet management tracking software and County Fleet vehicle fuel purchase records (gallons of gasoline and diesel fuel)
Wastewater Treatment	Reports from the County Water Purification District (WPD)	Reports from or regarding the County WPD
Solid Waste from Landfills	Not applicable. The County does not operate any landfills.	Not applicable. The County does not operate any landfills.
Refrigerant Usage	No usage of GHG classified refrigerants reported.	No usage of GHG classified refrigerants reported.
Employee Commute (Optional)	The County chose not to include this in the report.	The County chose not to include this in the report. No data was collected.

Once raw data was collected for each of the emission source categories identified, the data and corresponding emissions were assigned to a specific County department for analysis.

2.2. Emission Factors

GHG emission factors were obtained from a number of sources highlighted within the Tool. Stationary emissions factors were sourced from “The Climate Registry 2022 Default Emission Factors and Emission Factors for Greenhouse Gas Inventories” from the USEPA.¹⁰ Electricity factors were sourced from eGRID2021 for the New York Upstate Region (released January 30, 2023).¹¹ GWPs were also sourced from the IPCC Fifth Assessment Report.¹² Wastewater treatment process emission factors were sourced from the “Local Government Operations Protocol” (version 1.1).¹³ All source activity and emissions factor data were compiled into a database developed for project-specific data storage and management (“Albany County 2022_Government GHGI tool_v06-13-2023.xlsm” and “Albany County 2022_Government GHGI_v2 Calcs_Stationary, Mobile, Elec Only.xlsx”).

2.3. Emission Categorization

An effective way to identify the emissions an entity emits from its own operations and those produced by its wider influence are by emissions categorization. The EPA’s Local GHG Inventory Tool: Government Operations Module (version 2023.1) was utilized for data input and emission calculations. Individual facility emissions were calculated based on methods and formulas identified in the module due to constraints in the module displaying this information. Data was organized through consultation with the County, similar to the 2013 GHGI. Emissions were analyzed by source type, managing office, and individual facility. Source types were used to categorize the GHG emissions at a high level. These include stationary combustion sources and electricity usage at buildings and other County facilities, and mobile sources represented by County fleet vehicles.

Within Albany County, all facilities fall under three different “managing offices.” The term “managing office” refers to the primary authority within the County who is responsible for the facility maintenance and decision-making related to energy-related upgrades. Consistent with the 2013 inventory, three main offices were found to play a primary role in this kind of decision making in the County: the County Executive, the Sheriff’s Office, and the Water Purification District (formerly known as the Sewer District). Each managing office oversees and has the ability to make energy-related decisions for a number of departments throughout the County as described below. These Departments can then implement changes as necessary to the numerous facilities operated by each department.

¹⁰ United States Environmental Protection Agency. “The Climate Registry 2022 Default Emission Factors and Emission Factors for Greenhouse Gas Inventories.” USEPA, April 2022.

¹¹ United States Environmental Protection Agency. “eGRID 2021 NYSUP Sub region.” USEPA, Revised January 2023.

¹² Intergovernmental Panel on Climate Change. “Fifth Assessment Report.” IPCC, November 2014.

¹³ California Air Resources Board, California Climate Action Registry, ICLEI – Local Governments for Sustainability, and The Climate Registry. “Local Government Operations Protocol,” version 1.1, 03 May 2010.

2.3.1. County Executive

The County Executive oversees a number of departments throughout the County. All respective facilities within these departments fall under the jurisdiction of the County Executive. Departments and associated facilities falling under this hierarchy of jurisdiction are as follows:

- 1) Department of General Services
- 2) MVP Arena (formerly the Times Union Center)
- 3) Parks and Recreation
- 4) Department of Public Works
- 5) District Attorney's Office
- 6) County Cooperative
- 7) Electric Vehicle Charging Stations

In order to financially manage all of the above listed facilities effectively, the County Executive has created a number of budget groups. These groups serve as a means of further categorizing ways to allocate funds. These budget groups within the County Executive Managing office are as follows:

- Department of General Services
- MVP Arena
- Department of Public Works
- Department of Health
- County Cooperative
- Electric Vehicle Charging Stations
- External Budget Groups

The Shaker Heritage Society and the Shaker Place Rehabilitation and Nursing Home were inventoried for this report but are included in the External Budget Groups. Both of these facilities lease their land from the County.

2.3.2. Sheriff's Office

The Sheriff's Office oversees the direct Sheriff's Office facilities and the County Correctional Facility. All respective facilities within these departments fall under the jurisdiction of the County Sheriff. Departments and associated facilities falling under the hierarchy of jurisdiction are as follows:

- 1) Albany County Correctional Facility
- 2) Sheriff's Office

2.3.3. Water Purification District

The Water Purification District (WPD) owns and operates the wastewater treatment system for Albany County. This system includes several pump stations to move raw sewage throughout the system as well as two (2) wastewater treatment plants (WWTP) in the County. All respective facilities within the County's wastewater collection and treatment systems fall under jurisdiction of the Water Purification District. A full list of these associated facilities are as follows:

- 1) North WWTP
- 2) South WWTP
- 3) Wastewater Collection System Pump Stations

2.4. Facilities Operating Under Multiple Departments

Some of the aforementioned County facilities contain multiple departments' operations. For this inventory, emissions from these sources were categorized by the percentage of each department occupying the specific building by square footage. Electricity and natural gas usages were split for the facilities at the following addresses:

- 11 Eagle Street
- 32 Clinton Avenue
- 6 Lodge Street
- 112 State Street

Separating these emission levels by managing office, department, and facility will allow the County to better understand where overall emissions are coming from, and where action can be taken to reduce overall emissions as a government.

2.5. Changes Between 2013 and 2022 Emission Inventories

Some changes have occurred in County operations since the 2013 baseline inventory. Propane usage was reported for this GHG EI and not in 2013, showing some facilities may have switched their fuel sources for heating. Another change has been the addition of electric vehicle (EV) charging stations. These stations help in the reduction of commuter emissions by providing more charging options for electric vehicles. Most data sources were the same in 2022 as in 2013.

2.5.1. Changes in Facilities Reported

Some of the facilities in the 2013 report were not reported for this GHG EI. These facilities include the following:

- Ann Lee Home (Vacant in 2022, demolished in 2023)
- DPW Bethlehem (No longer operational)

2.5.2. Data Availability

Some facilities within the inventory did not have fuel usage data for every month of 2022. When there was this limited availability, the data from the months provided were scaled to represent usage for the entire year of 2022. Using these methods, the majority of emissions throughout County-run facilities could be captured as accurately as possible.

2.5.3. Emission Factors and GWP Differences

When calculating GHG emissions, emission factors are used to convert units of individual fuel source usage into MTCDE. These emission factors are incorporated into the Tool and can impact calculated emissions results based on which set of factors are used.

For the 2022 GHG EI Report, the emission factors are sourced from the most recent version of the Tool, discussed above. The 2013 GHG EI used different emission factors than those in the current Tool. Electricity, for example, has new emission factors published annually, due to the changing energy source for electricity generation, resulting in a decreased emission rate per kWhr of electricity. It should be noted that emission factors for various energy sources change over time and at different rates.

Additionally, Global Warming Potentials (GWPs) are used to convert tons of CH₄ and N₂O to MTCDE. The most recent IPCC Report, the Fifth Assessment Report (AR5) was used to calculate emissions in the 2022 report. In this report, methane was assigned a GWP of 28, and nitrous oxide was assigned a GWP of 265. The 2013 emissions calculations used GWPs published in a previous IPCC Assessment Report (the Third Assessment Report (AR3)), which was the most recent report available at the time, in which CH₄ was assigned a GWP of 21, and N₂O was assigned a GWP of 310¹⁴. This results in an increase in CH₄ and N₂O emissions, when comparing on a metric tons of CO₂e-basis. Refer to Section 4.1 for further information.

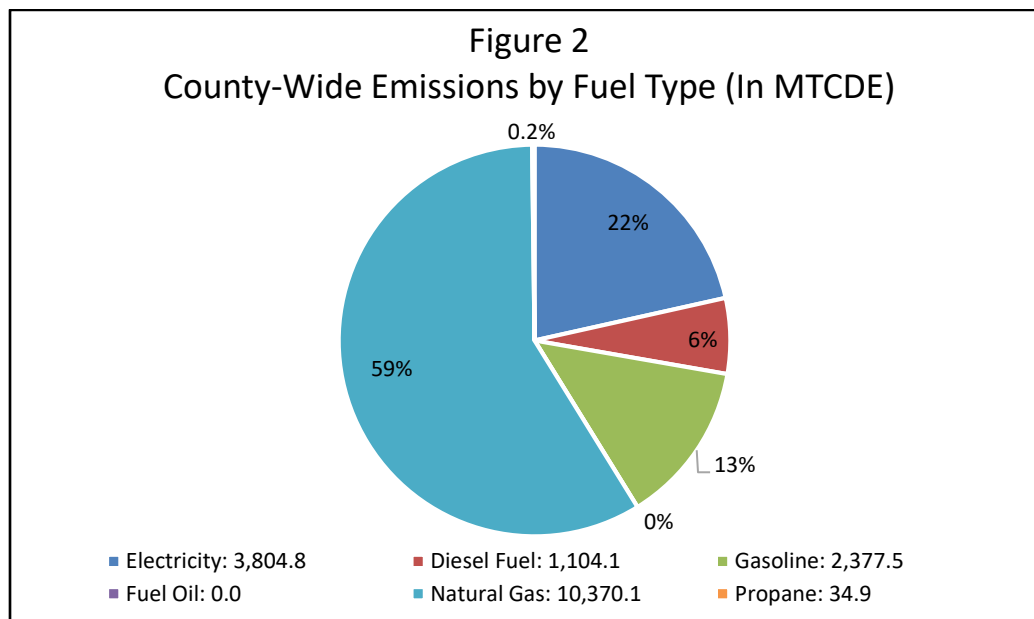
¹⁴ Intergovernmental Panel on Climate Change. "Third Assessment Report." IPCC, 2001.

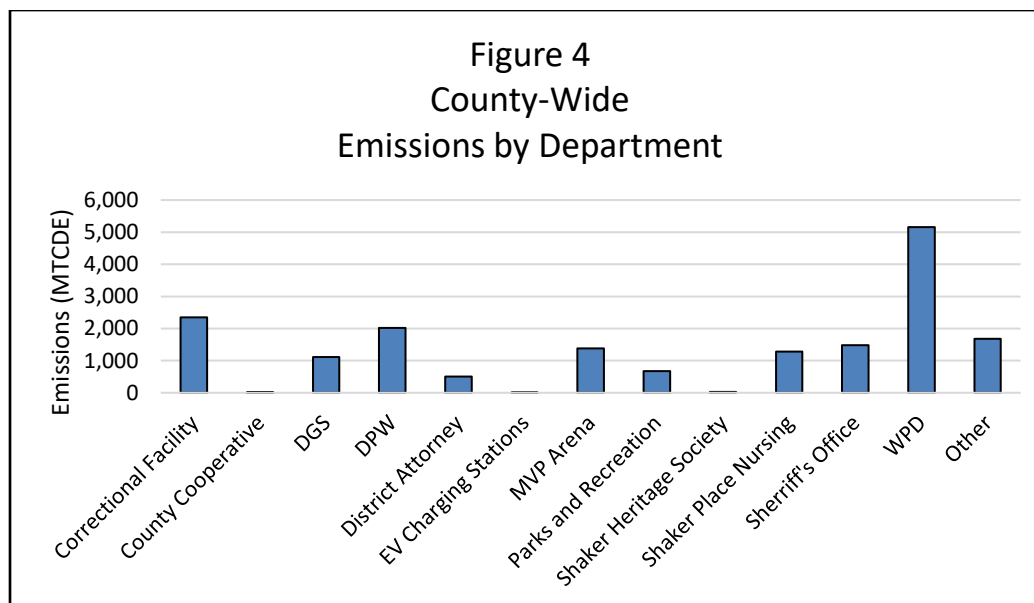
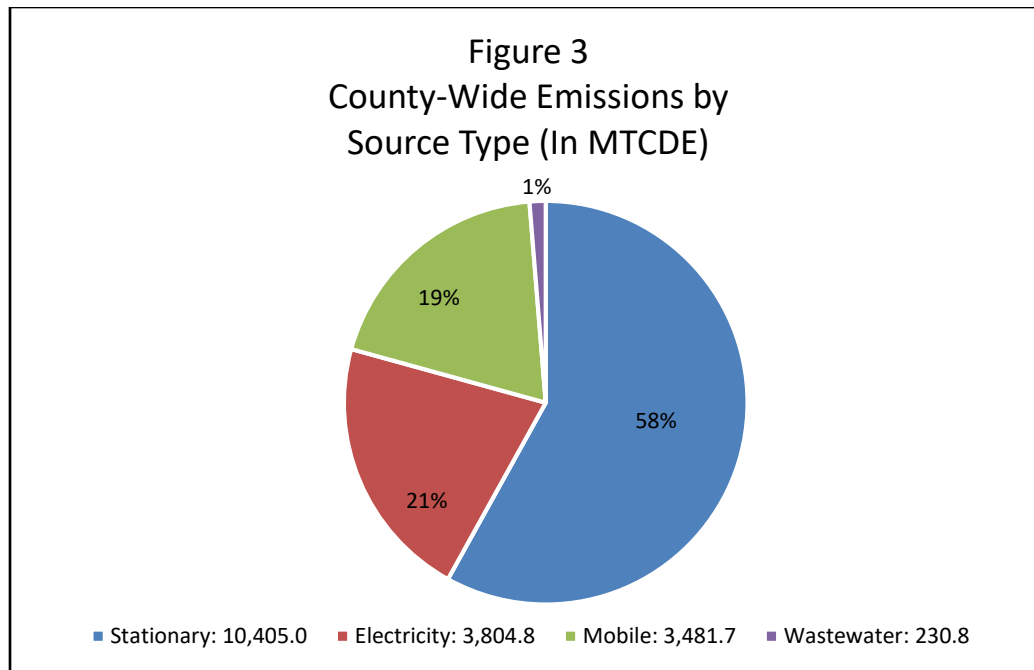
3.0 GHG INVENTORY RESULTS

3.1. County-Wide Emissions

In 2022, the County produced a total of 17,923 metric tons CO₂e (MTCDE) of GHG emissions during operations across all sectors. The County's emissions came from stationary source fuel combustion (Scope 1 emissions), electricity consumption (Scope 2 emissions), mobile combustion from transportation vehicles (Scope 1 emissions), and wastewater treatment processes (Scope 1 emissions). GHG emission outputs and fuel usage data categorized by department is included in Appendix A. GHG calculation results are included in Appendix B. Table 3-1 shows total emissions broken out by Scope. The breakdown of emissions overall by both fuel usage and source types are shown in Figures 2 and 3.

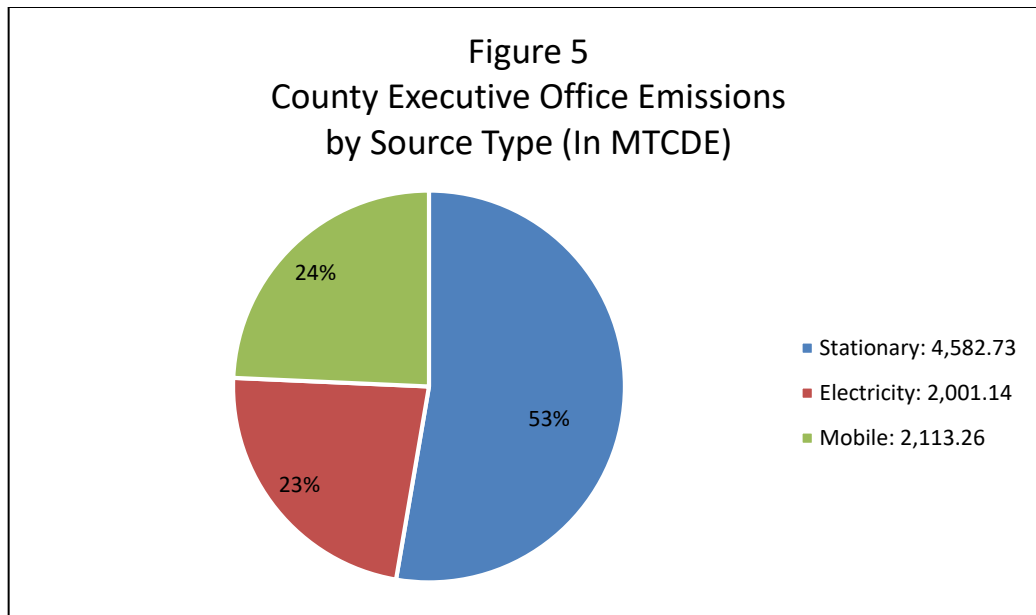
Table 3-1 Total Emissions by Scope		
Scope	Emissions (In MTCDE)	% of Total Emissions
Scope 1	14,118.2	79%
Scope 2	3,804.8	21%
Scope 3	0.0	0%





3.2. County Executive Office Emissions

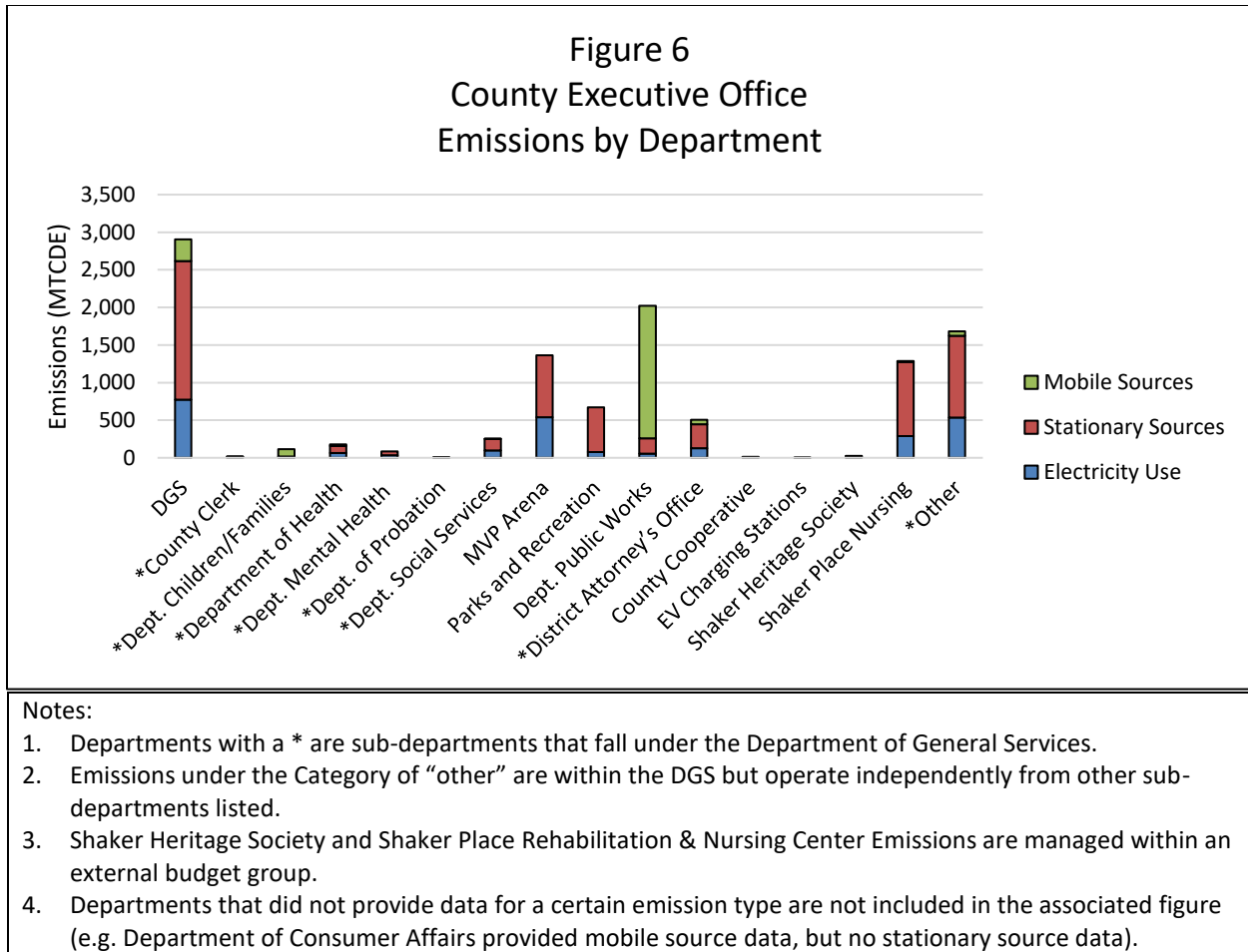
The County Executive Managing Office produced a total of 8,697.13 MTCDE during its 2022 operations. The breakdown of these emission sources for the County Executive Office are shown in Figure 5.



3.2.1. Department Emissions under the County Executive

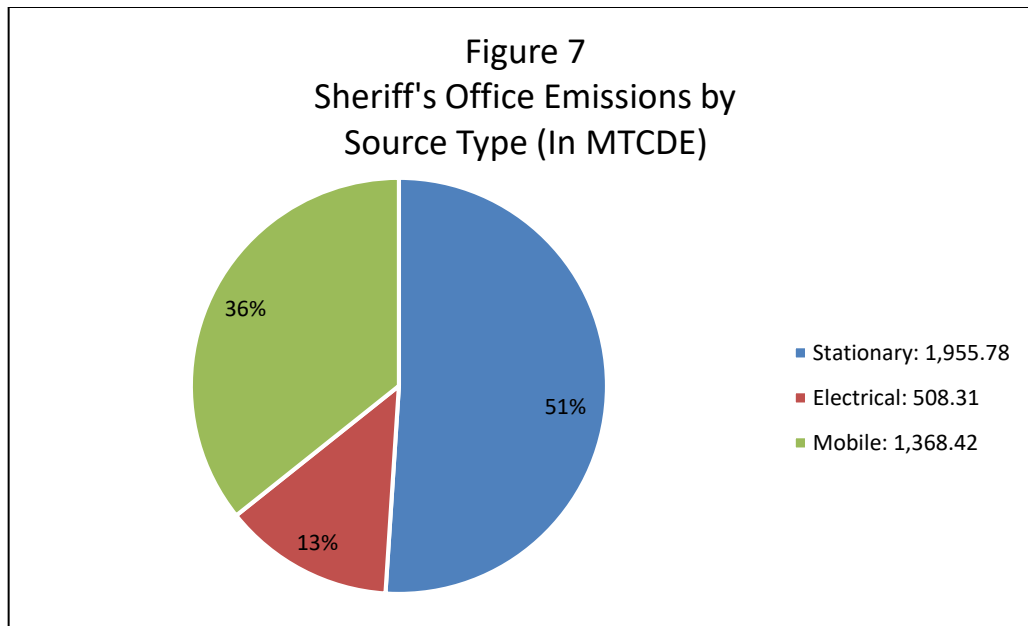
By categorizing GHG Emissions by Department the County can address certain high level GHG emitters in an effective way. A total of 52 Facilities are operated under the seven (7) departments within the control of the County Executive managing office. Within these, the Department of General Services was the largest contributor to GHG emissions, for a total of 2,906.55 MTCDE in 2022. A breakdown of each emission source category within this managing office by facility is located in Appendix C.

This department operates several facilities throughout the County, which could contribute to this usage through lighting and heating. Breakdowns of each emission type by department are shown in Figure 6.



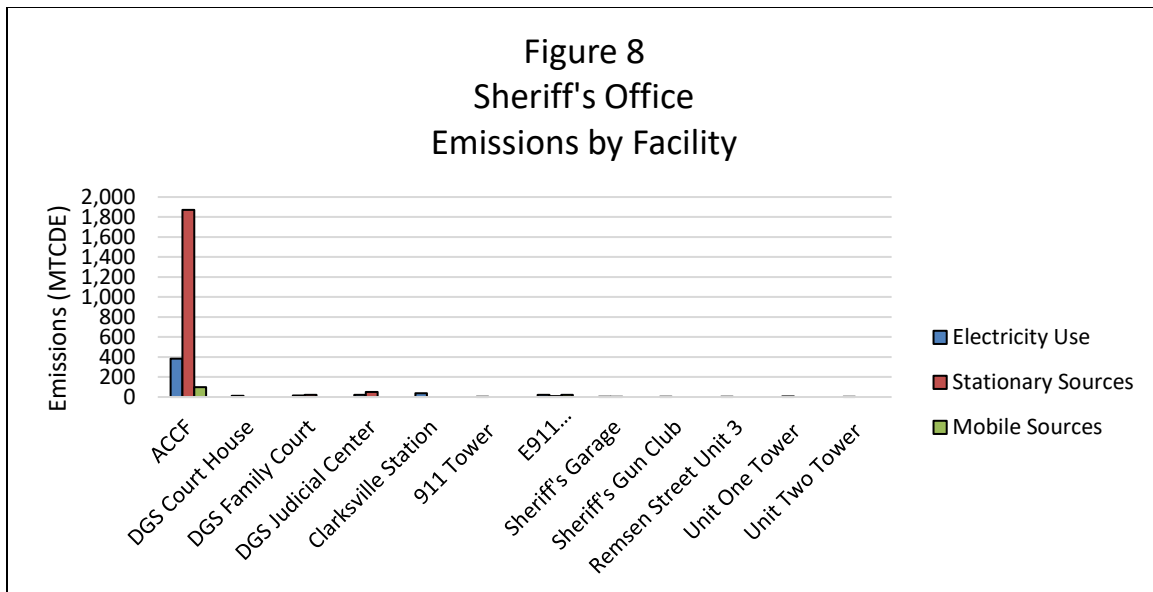
3.3. Sheriff's Office Emissions

The Sheriff Managing Office generated 3,832.50 MTCDE in 2022 operations. This managing office oversees the Sheriff's Office, which contributed 38.6% to this total, and the Albany County Correctional Facility (ACCF), which contributed the remaining 61.4%. The breakdown of these emission sources for the Sheriff's Office are shown in Figure 7.



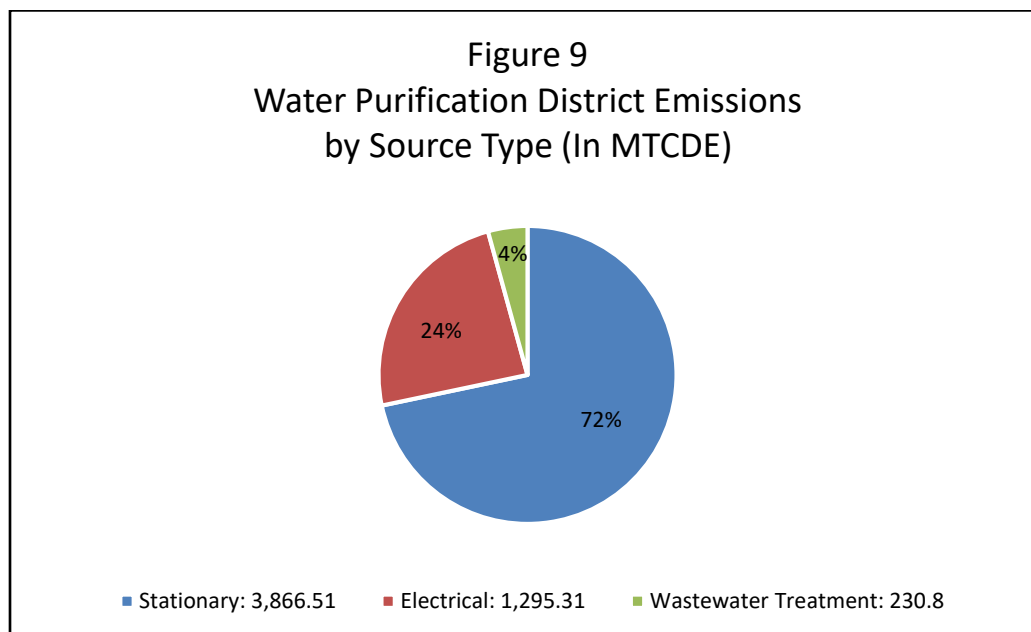
3.3.1. Facility Emissions under the County Sheriff

A total of nine (9) facilities are operated under the two (2) departments within the control of the County Sheriff. Between these facilities, the Albany County Correctional Facility was the main contributor to GHG emissions. Other than the Correctional Facility, there are eight (8) other facilities run by the County Sheriff, which include offices and communications centers. Emissions from facilities in these departments came primarily from mobile sources from the Sheriff Department fleet vehicles. The primary fuel consumed across all facilities within this managing office was gasoline for mobile combustion. A breakdown of each emission source category within this managing office by facility is located in Appendix C. Breakdowns of each emission type by department are shown in Figure 8.



3.4. Water Purification District Emissions

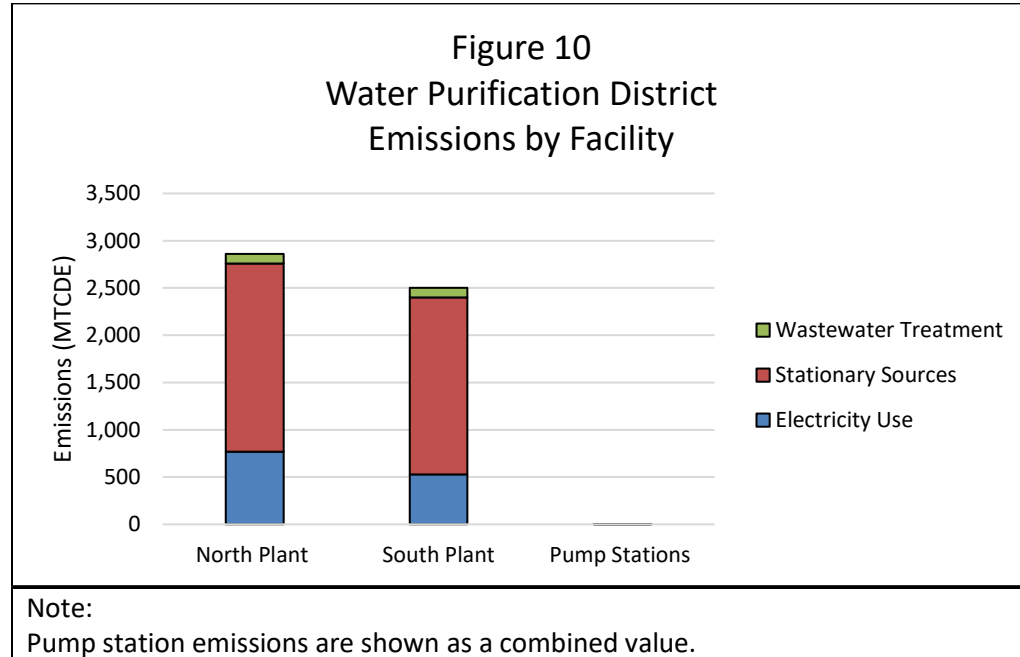
The Water Purification District generated 5,392.60 MTCDE in 2022. This managing operation oversees the entire wastewater collection and treatment operations for the County and includes two (2) treatment plants and sixteen (16) pump stations throughout the County. The breakdown of these emission sources for the WPD are shown in Figure 9.



3.4.1. Facility Emissions under the County Water Purification District

Of these treatment plants and pump stations within the Water Purification District, the South Plant and North Plant produced the most GHG emissions. These came from both

electricity usage, stationary sources, and wastewater treatment process. The pump stations contributed less than 1.0 MTCDE each from electricity usage. A breakdown of each emission source category within this managing office by facility is located in Appendix C. Breakdowns of each emission type by department are shown in Figure 10.



3.5. Sources from Various Managing Offices

Some County facilities house operations belonging to more than one managing office. When this occurs, one utility invoice is given to a single address for multiple departments. The emissions resulting from this energy use was split by percentage of floor space used per each managing office per County estimates. Table 3-1 highlights where these are located, their total emissions across all operations, and what percentage of these emissions fall into each of the three (3) managing offices.

Table 3-2 Facilities with Emissions from Multiple Managing Offices					
Address	Total Emissions (MTCDE)	Percent County Executive Office	Percent Sherriff's Office	Percent WPD Office	Percent External
11 Eagle Street	117.46	89%	11%	0%	0%
32 Clinton Avenue	142.54	88%	12%	0%	0%
6 Lodge Street	399.43	95%	5%	0%	0%

Table 3-2 Facilities with Emissions from Multiple Managing Offices					
Address	Total Emissions (MTCDE)	Percent County Executive Office	Percent Sherriff's Office	Percent WPD Office	Percent External
112 State Street	613.21	99%	0%	0%	1%

4.0 ANALYSIS AND RECOMMENDATIONS

4.1. Comparison to 2013 Emission Inventory

This 2022 GHG EI serves as an update to the 2013 Baseline Report for Albany County. By comparing the data between these two inventories, the County can track progress towards emission reduction goals. Overall, there was a decrease in emissions from mobile sources, stationary sources (building heating), and electricity emissions since the 2013 inventory. This decrease in emissions could be from a combination of energy use decrease and the changes in the emission factors used by Local Government Operations Protocol (LGOP) inventories to reflect greener of the grid through the eGRID electricity emission factor and fuel combustion factors within the Tool. These emission factor changes can make a significant difference in calculated values when comparing similar fuel usage data. Appendix D highlights these differences by comparing the emission factors used to calculate emissions in the 2013 inventory versus the 2022 inventory.

Differences in Global Warming Potentials can also change results when calculating emissions. These GWPs are used to allow for comparisons of the global warming impacts on different gases. GWP was developed by the Intergovernmental Panel on Climate Change (IPCC) to address the fact that GHGs differ from each other in both their ability to absorb energy, and the amount of time they stay in the atmosphere. The GWPs for the 2022 GHG EI report came from the most recent IPCC's AR5. The 2013 report uses GWPs from an earlier IPCC report. Comparing these GWP values shows how one GHG can differ over time relating to its CO₂e value. For example, methane (CH₄) in the 2013 report was assigned a GWP of 21, whereas by the 2022 report that value had changed to 28, meaning methane now has a greater weight when calculating overall emissions for emission inventories. Table 4-1 highlights these differences by comparing the emission factors used to calculate emissions in the 2013 inventory versus the 2022 inventory.

Table 4-1 2013 GWPs vs. 2022 GWPs by Greenhouse Gas (GHG)		
GHG	2013 GWP Values	2022 GWP Values
CO ₂	1	1
CH ₄	21	28
N ₂ O	310	265

The regional electricity grid coefficient, which is used to calculate indirect emissions from electricity consumption, decreased by almost half from 2013 to 2022 as the regional network of electricity providers drew power from a greater percentage of renewable energy sources. These sources, such as Abest Green Power and CleanChoice Energy, have started supplying major energy providers like National Grid.¹⁵ These sources provide green energy from methods such as wind turbines, which in turn reduces overall emissions related to the use of electricity. In the 2013 Baseline Report, total electricity use was 11,613 MTCDE, accounting for 34% of all emissions. In 2022, total electricity use was 3,804.8 MTCDE, accounting for 21% of all emissions. Therefore, decreasing the amount of emissions per kWh from increasing the amount of cleaner energy in electricity used in New York State significantly decreases total County emissions. For comparison, when 2013 energy use is converted to GHG emissions using 2022 emission factors, the resulting total emission rate is 18,826.74 MTCDE. This is a 4.8% reduction between 2013 and 2022, which is directly due to the decrease in overall energy use.

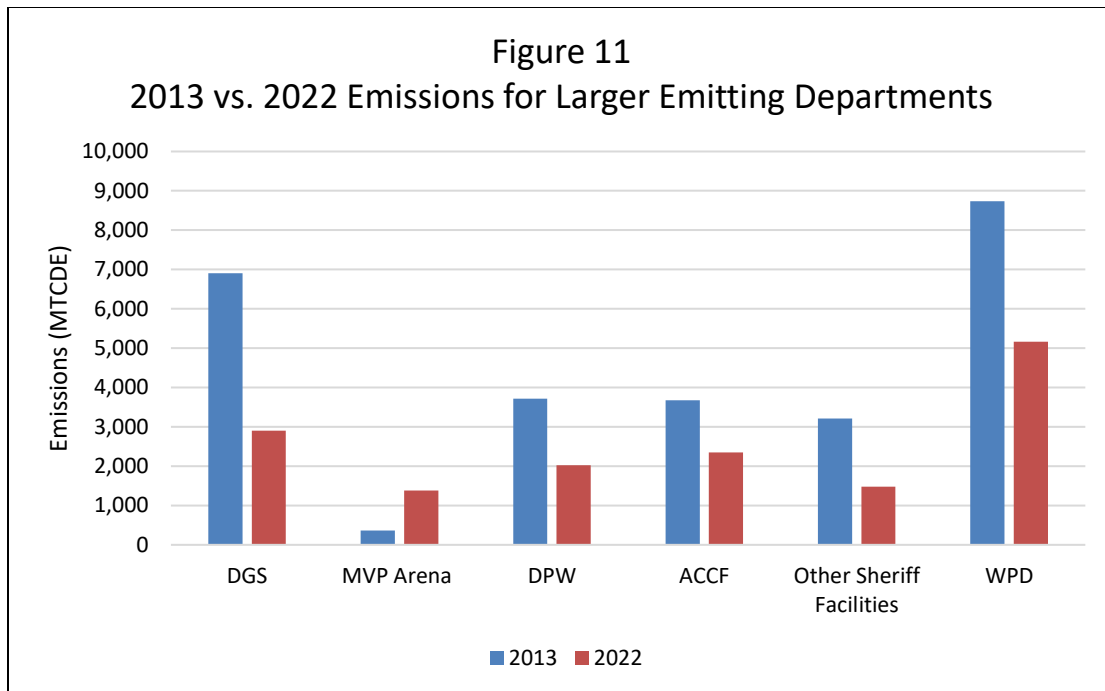
Some facilities may have also switched from less clean sources, such as heating fuel oil, to electricity or propane for heating. Table 4-2 and Figure 11 highlight these reductions.

Table 4-2		
2013 Emissions vs. 2022 Emissions by Emission Source		
Emission Source	2013 Emissions (MTCDE)	2022 Emissions (MTCDE)
Stationary/Electrical Sources from Building and Other Facilities	23,842	14,210
Mobile Sources	9,874	3,482
Wastewater Treatment (Process Emissions)	1,046	231

¹⁵ National Grid, "Energy Supplier List," 2023. [Energy Supplier List | National Grid \(nationalgridus.com\)](https://www.nationalgridus.com/en/energy-supplier-list)

Table 4-2 2013 Emissions vs. 2022 Emissions by Emission Source		
Emission Source	2013 Emissions (MTCDE)	2022 Emissions (MTCDE)
Note: 2022 emissions are based on 100-year global warming potentials obtained from IPCC AR5. 2013 emissions were based on Global Warming Potentials (GWPs) obtained from IPCC AR3. Source of GWPs from 2013 based on the most recent published IPCC Assessment Report available prior to the publishing of the 2013 Baseline Report. - Differences in emission factors and GWPs from 2013 to 2022 may increase calculated emission reduction values. - Overall Stationary/Electrical Source emissions decrease caused by less reported fuel, decreases in emission factors for natural gas and electricity, and the decreases in the regional electricity coefficient (eGRID) since the previous report. - Mobile Source emissions decrease due to emission factors for CH₄ and N₂O decreasing along with decrease in GWP for N₂O since previous report. Despite these differences, more fuel usage was reported in this category than in the previous report. - Overall decrease in wastewater treatment process emissions due to emission factor and GWP decreases for N₂O between the 2013 and 2022 inventory reports.		

Table 4-3 2013 Emissions vs. 2022 Emissions		
Managing Office	2013 Emissions (MTCDE)	2022 Emissions (MTCDE)
County Executive Office	15,941	8,697
Sheriff's Office	8,775	3,833
Water Purification District	10,166	5,393
County-Wide	34,882	17,692
Note: 2022 emissions based on 100-year global warming potentials obtained from IPCC AR5. 2013 emissions were based on GWPs obtained from IPCC AR3. Source of GWPs from 2013 based on the most recent published IPCC Assessment Report available prior to the publishing of the 2013 Baseline Report. - Differences in emission factors and Global Warming Potentials (GWPs) from 2013 to 2022 may increase calculated emission reduction values.		



4.2. Actions Taken to Date

Since taking the CSC Pledge in 2009, the County has developed a comprehensive green policy that applies to all County functions. This has led to a number of initiatives and designations including the following:¹⁶

- December 2013: Local Styrofoam ban law
- March 2017: Clean Energy Community Designation (the first County in the region)
- January 2021: Wind Turbine Development at the Port of Albany
- May 2021: Implementation of EV charging stations
- July 2021: SCOOT Program (Alternative Forms of Transportation)
- August 2021: Rollout of Reusable Bags for Groceries

4.3. Vehicle Efficiency

Emissions associated with vehicles powered by gasoline and diesel fuel were based on fuel management system records (DPW facilities) and County fuel card purchases tracked by department. Due to it not being known the specific vehicles used, it was assumed that they were light-duty trucks and sport utility vehicles (SUVs). Therefore, a vehicle efficiency associated with light-duty trucks was assumed. The vehicle efficiency, measured in miles travelled per gallon of fuel consumed, effects the amount of fuel that a particular vehicle consumes throughout the year. This consumption directly affects the quantities of CO₂, CH₄, and N₂O emitted through mobile source combustion. The Tool uses the reported total gallons of fuel

¹⁶ Albany County, "Team Green," 2023. [Team Green | Albany County, NY](#).

consumed along with VMT data to calculate total mobile source emissions from vehicle travel in MTCDE.

Fuel usage within transportation vehicles is key to understanding the actual emissions coming from mobile sources. Data on vehicle type and fuel usage would provide some basic measurements that would be influenced by vehicle miles travelled (VMT) or age of the vehicle. It is recommended that VMT records be kept, and this metric be added to the next inventory, especially as zero-emission vehicles are introduced. This would help project whether vehicle emissions are less than they used to be because they are being driven less, if it is because new fleet vehicles are simply more efficient than they used to be, or both.

4.4. Electricity Usage

County building efficiency can be measured based on a building's electrical intensity, which is the annual electricity usage per square foot. This metric helps to identify whether changes in emissions are due to electricity usage or a greening grid. Maintaining records of building intensity over time will help the County identify changes in electricity usage and efficiencies separate from the larger grid. Comparing building intensity against national averages can also be informational, but because of multiple variables including regional electricity supply, climate, and building age and use, benchmarking through this method is limited. Programs such as the Leadership in Energy and Environmental Design (LEED) use metrics such as this to determine certification, which may be possible for future County building projects.

4.5. Recommendations Moving Forward

In order to accurately track changes in GHG emissions due to climate policy, the following actions are recommended for the County moving forward.

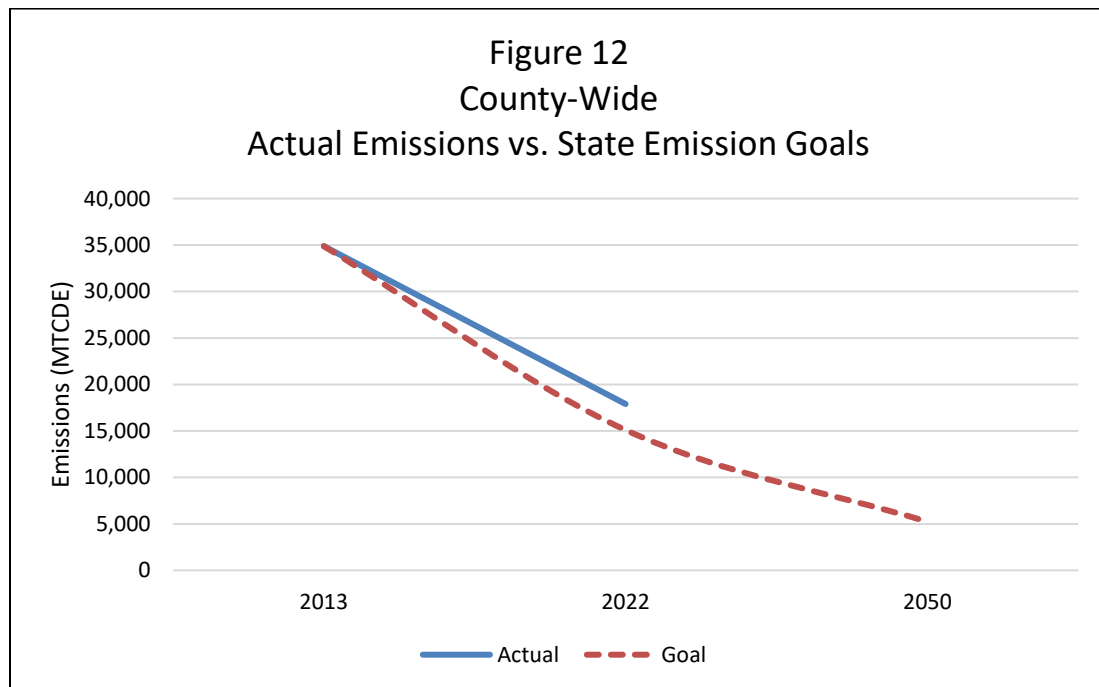
- Review the County's 2012 Climate Action Plan and Climate Resiliency Plan: This plan would assist in tracking when changes to GHG emission policies were made, and how GHGs were reduced by these measures to align with County goals.
- Establish a single point of contact for all managing offices to send emissions data: In order to continue active participation in the CSC program, the County will have to continue to track their emissions and complete GHG EIs in future years. Establishing this single contact would allow for all County GHG emissions data sets to be stored in a single place.
- Assign one employee from each budget group to gather and send yearly GHG data internally to this established contact: This way the County would be able to easily track GHG emissions and have all necessary information easily accessible for future emissions inventories in one place. The County can also use this information in between inventories to track progress on the goals set forth in their Climate Action Plan and Climate Resiliency Plan. Gathering and maintaining data will allow the County to measure if the plans they set forward are being achieved.

- Consistently track emissions from the same sources every year

While County emissions are significantly less today than they were in 2013, it is still important to make County operations more energy efficient to align with State and regional goals. In addition, energy efficiency has the potential to result in cost savings. Furthermore, it is extremely important for the County Government to promote more energy conscious practices and sustainable projects within the government and community as a whole.

4.6. Emissions Reduction Goal

As discussed in this emissions inventory, County generated GHG emissions are from fossil fuel combustion in stationary sources for heating buildings and facilities, mobile sources from vehicles, and process emissions from the County's Water Purification District wastewater treatment. In order to continue to reduce emissions with the intent of aligning with the state's CLCPA goals, it will be important to support the electric grid's transition to renewable energy and move to electrify the County's heating, cooling, and fleet.



The County can continue a positive reduction trend through proper policymaking and by continuing their commitment to being a green community.

5.0 REFERENCES

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Appendix A

Facility GHG Emission Outputs and Fuel Usage Data

EXECUTIVE MANAGING OFFICE RAW DATA

Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Department of General Services	County Clerk	DGS Hall of Records (95 Tivoli Street)	Electricity	Electricity	12	12
County Executive's Office	Department of General Services	County Clerk	DGS Hall of Records (95 Tivoli Street)	Stationary Sources	Natural Gas	61	61
County Executive's Office	Department of General Services	County Clerk	NOT SPECIFIED	Mobile Sources	Gasoline	1.15	1.15
County Executive's Office	Department of General Services	Department of Children, Youth and Families	DGS Mental Health/CAC - Children, Youth, & Family (250 South Pearl Street)	Electricity	Electricity	8.43	8.43
County Executive's Office	Department of General Services	Department of Children, Youth and Families	NOT SPECIFIED	Mobile Sources	Gasoline	45	45
County Executive's Office	Other	Department of Consumer Affairs	NOT SPECIFIED	Mobile Sources	Gasoline	8.43	8.43
County Executive's Office	Department of General Services	Department of General Services	DGS Board of Elections - Building (224 South Pearl Street)	Electricity	Electricity	14	14
County Executive's Office	Department of General Services	Department of General Services	DGS Board of Elections - Building (224 South Pearl Street)	Stationary Sources	Natural Gas	32	32
County Executive's Office	Department of General Services	Department of General Services	DGS Property Management Storage (199 Elk Street)	Electricity	Electricity	0.34	0.34
County Executive's Office	Department of General Services	Department of General Services	DGS Spruce Street Garage (3 Spruce Street)	Electricity	Electricity	3.86	3.86
County Executive's Office	Department of General Services	Department of General Services	Hill House (1 Hope Lane)	Electricity	Electricity	0.23	0.23
County Executive's Office	Department of General Services	Department of General	NOT SPECIFIED	Mobile Sources	Gasoline	62	62
County Executive's Office	Department of General Services	Department of Health	NOT SPECIFIED	Mobile Sources	Gasoline	22	22
County Executive's Office	Department of General Services	Department of Mental Health	DGS Mental Health/CAC - Mental Health (260 South Pearl Street)	Electricity	Electricity	14	14
County Executive's Office	Department of General Services	Department of Probation	DGS Mercantile (Probation) (60 South Pearl Street)	Electricity	Electricity	71	71
County Executive's Office	Department of General Services	Department of Probation	DGS Mercantile (Probation) (60 South Pearl Street)	Stationary Sources	Natural Gas	14	14
County Executive's Office	Department of General Services	Department of Probation	NOT SPECIFIED	Mobile Sources	Gasoline	10	10
County Executive's Office	Department of General Services	Department of Social Services	DGS Social Services (162 Washington Avenue)	Electricity	Electricity	96	96
County Executive's Office	Department of General Services	Department of Social Services	DGS Social Services (162 Washington Avenue)	Stationary Sources	Natural Gas	149	149
County Executive's Office	Department of General Services	Department of Social Services	DGS Washington Ave Parking Lot - Booth (208 Washington Avenue)	Electricity	Electricity	0.48	0.48

Notes: 1. Budget Group "Other: means the facility is within a certain managing office but is separate from the budget groups designated within this report.

2. "Not Specified" facilities are those which operate under a specific managing office but have no specific department.

Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Department of General Services	Department of Social Services	DGS Washington Ave Parking Lot - Lights (208 Washington Avenue)	Electricity	Electricity	0.82	0.82
County Executive's Office	Department of General Services	Department of Social Services	NOT SPECIFIED	Mobile Sources	Gasoline	3.80	3.80
County Executive's Office	Department of Public Works	Department of Public Works	DPW - Lighting (0 Old Quarry Road)	Electricity	Electricity	0.21	0.21
County Executive's Office	Department of Public Works	Department of Public Works	DPW - Lighting (112 State Street)	Electricity	Electricity	4.61	4.61
County Executive's Office	Department of Public Works	Department of Public Works	DPW - Lighting (123 County Route 101)	Electricity	Electricity	0.18	0.18
County Executive's Office	Department of Public Works	Department of Public Works	DPW - Tricentennial Circle (0 Fuller Road)	Electricity	Electricity	0.48	0.48
County Executive's Office	Department of Public Works	Department of Public Works	DPW Main Building G&E New Scotland (449 New Salem Road)	Electricity	Electricity	29	29
County Executive's Office	Department of Public Works	Department of Public Works	DPW Main Building G&E New Scotland (449 New Salem Road)	Stationary Sources	Natural Gas	155	155
County Executive's Office	Department of Public Works	Department of Public Works	DPW - Unspecified Facility (0 Krumkill Road)	Electricity	Electricity	0.46	0.46
County Executive's Office	Department of Public Works	Department of Public Works	DPW - Unspecified Facility (0 Sand Creek Road)	Electricity	Electricity	0.44	0.44
County Executive's Office	Department of Public Works	Department of Public Works	DPW - Unspecified Facility (510 Albany Shaker Road)	Electricity	Electricity	0.14	0.14
County Executive's Office	Department of Public Works	Department of Public Works	DPW Albany Shaker Sub-Division (0 Albany Shaker & Mari Drive)	Electricity	Electricity	0.17	0.17
County Executive's Office	Department of Public Works	Department of Public Works	DPW Coeymans Sub-Division (156 County Route 111)	Electricity	Electricity	4.03	4.03
County Executive's Office	Department of Public Works	Department of Public Works	DPW Coeymans Sub-Division (156 County Route 111)	Stationary Sources	Distillate Fuel O	15	15
County Executive's Office	Department of Public Works	Department of Public Works	DPW Colonie Sub-Division (756 Albany Shaker Road)	Electricity	Electricity	2.84	2.84
County Executive's Office	Department of Public Works	Department of Public Works	DPW Colonie Sub-Division (756 Albany Shaker Road)	Stationary Sources	Natural Gas	27	27
County Executive's Office	Department of Public Works	Department of Public Works	DPW East Berne Sub-Division (821 Cole Hill Road)	Electricity	Electricity	2.84	2.84
County Executive's Office	Department of Public Works	Department of Public Works	DPW East Berne Sub-Division (821 Cole Hill Road)	Stationary Sources	Distillate Fuel O	17	17

Notes: 1. Budget Group "Other: means the facility is within a certain managing office but is separate from the budget groups designated within this report.

2. "Not Specified" facilities are those which operate under a specific managing office but have no specific department.

Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Department of Public Works	Department of Public Works	DPW Knox Pole Barn (1296 Township Road)	Electricity	Electricity	1.08	1.08
County Executive's Office	Department of Public Works	Department of Public Works	DPW Knox Sub-Division (1296 Township Road)	Electricity	Electricity	2.19	2.19
County Executive's Office	Department of Public Works	Department of Public Works	DPW Knox Sub-Division (1296 Township Road)	Stationary Sources	Distillate Fuel O	48	48
County Executive's Office	Department of Public Works	Department of Public Works	DPW Main Building G&E New Scotland (449 New Salem Road)	Stationary Sources	Distillate Fuel O	49	49
County Executive's Office	Department of Public Works	Department of Public Works	DPW Medusa Tool House (265 County Route 357)	Electricity	Electricity	1.77	1.77
County Executive's Office	Department of Public Works	Department of Public Works	DPW Rensselaerville Sub-Division (265 County Route 357)	Electricity	Electricity	0.15	0.15
County Executive's Office	Department of Public Works	Department of Public Works	DPW Rensselaerville Sub-Division (265 County Route 357)	Stationary Sources	Distillate Fuel O	5.27	5.27
County Executive's Office	Department of Public Works	Department of Public Works	DPW Rensselaerville Sub-Division (265 County Route 357)	Stationary Sources	Propane	11	11
County Executive's Office	Department of Public Works	Department of Public Works	DPW Slingerland Rail Trail Depot (839 Kenwood Avenue)	Electricity	Electricity	1.45	1.45
County Executive's Office	Department of Public Works	Department of Public Works	DPW Truck Wash (449 New Salem Road)	Electricity	Electricity	1.24	1.24
County Executive's Office	Department of Public Works	Department of Public Works	DPW Westerlo Garage (County Route 410)	Electricity	Electricity	0.19	0.19
County Executive's Office	Department of Public Works	Department of Public Works	DPW Westerlo Sub-Division (19 County Route 410)	Electricity	Electricity	1.81	1.81
County Executive's Office	Department of Public Works	Department of Public Works	DPW Westerlo Sub-Division (19 County Route 410)	Stationary Sources	Distillate Fuel O	10	10
County Executive's Office	Department of Public Works	Department of Public Works	DPW Westerlo Sub-Division (19 County Route 410)	Stationary Sources	Propane	10	10
County Executive's Office	Department of Public Works	Department of Public Works	Washington Roundabout (0 Fuller Road)	Electricity	Electricity	0.46	0.46
County Executive's Office	Department of General Services	District Attorney	Community Justice Outreach Center (155 Clinton Avenue, Floor 1)	Electricity	Electricity	1.40	1.40
County Executive's Office	Department of General Services	District Attorney	Community Justice Outreach Center (155 Clinton Avenue, Floor 1)	Stationary Sources	Natural Gas	2.46	2.46

Notes: 1. Budget Group "Other: means the facility is within a certain managing office but is separate from the budget groups designated within this report.

2. "Not Specified" facilities are those which operate under a specific managing office but have no specific department.

Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Department of General Services	District Attorney	DGS Steadman House (1 Lodge Street)	Electricity	Electricity	3.65	3.65
County Executive's Office	Department of General Services	District Attorney	NOT SPECIFIED	Mobile Sources	Gasoline	61	61
County Executive's Office	EV Charging Stations	EV Charging Stations	EV Charging Station - 114 Heritage Lane (114 Heritage Lane)	Electricity	Electricity	0.11	0.11
County Executive's Office	EV Charging Stations	EV Charging Stations	EV Charging Station - 293 Lawson Lake (293 Lawson Lake Road)	Electricity	Electricity	0.03	0.03
County Executive's Office	EV Charging Stations	EV Charging Stations	EV Charging Station - 8 Grove Street (8 Grove Street)	Electricity	Electricity	0.49	0.49
External	External	MVP Arena	MVP Arena (51 South Pearl Street)	Electricity	Electricity	506	506
External	External	MVP Arena	MVP Arena (51 South Pearl Street)	Stationary Sources	Natural Gas	750	750
External	External	MVP Arena	MVP Arena Atrium (51 South Pearl Street)	Electricity	Electricity	5.58	5.58
External	External	MVP Arena	MVP Arena Fire Pump (51 South Pearl Street)	Electricity	Electricity	5.65	5.65
External	External	MVP Arena	MVP Arena Parking Garage (100 Beaver Street)	Electricity	Electricity	29	29
External	External	MVP Arena	MVP Arena Sports Bar/Dryers (51 South Pearl Street)	Stationary Sources	Natural Gas	73	73
External	External	MVP Arena	MVP Arena Walkway (51 South Pearl Street)	Electricity	Electricity	0.03	0.03
External	External	MVP Arena	MVP Arena Walkway (51 South Pearl Street)	Stationary Sources	Natural Gas	0.93	0.93
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Hockey Facility (830 Albany Shaker Road)	Electricity	Electricity	74	74
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Hockey Facility (830 Albany Shaker Road)	Stationary Sources	Natural Gas	545	545
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Lawson Lake - Unspecified Camp (272 Lawson Lake Road)	Electricity	Electricity	0.23	0.23
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Lawson Lake Barn (272 Lawson Lake Road)	Electricity	Electricity	0.05	0.05
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Lawson Lake Caretakers House (293 Lawson Lake Road)	Electricity	Electricity	0.90	0.90
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Lawson Lake Visitors Center (293 Lawson Lake Road)	Electricity	Electricity	0.05	0.05

Notes: 1. Budget Group "Other: means the facility is within a certain managing office but is separate from the budget groups designated within this report.

2. "Not Specified" facilities are those which operate under a specific managing office but have no specific department.

Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Department of General Services	Department of Mental Health	DGS Health Department (175 Green Street)	Stationary Sources	Natural Gas	61	15
County Executive's Office	Department of General Services	Department of Children, Youth and Families	DGS Mental Health/CAC - Combined (250 South Pearl Street)	Stationary Sources	Natural Gas	28	9.14
County Executive's Office	Department of General Services	Department of Mental Health	DGS Mental Health/CAC - Combined (250 South Pearl Street)	Stationary Sources	Natural Gas	28	19
County Executive's Office	County Cooperative	County Cooperative	DGS Cornell Co-op Extension Complex - Building (390 New Salem Rd)	Electricity	Electricity	15	13
County Executive's Office	Parks and Recreation	Parks and Recreation	DGS Cornell Co-op Extension Complex - Building (390 New Salem Rd)	Electricity	Electricity	15	2.14
County Executive's Office	County Cooperative	County Cooperative	DGS Cornell Co-op Extension Complex - Sign (0 Martin Road)	Electricity	Electricity	0.26	0.22
County Executive's Office	Parks and Recreation	Parks and Recreation	DGS Cornell Co-op Extension Complex - Sign (0 Martin Road)	Electricity	Electricity	0.26	0.04
County Executive's Office	Other	Office of Court Administration	DGS County Court House (11 Eagle Street)	Electricity	Electricity	119	86
County Executive's Office	Department of General Services	County Clerk	DGS County Court House (11 Eagle Street)	Electricity	Electricity	119	13
County Executive's Office	Other	Minority Counsel	DGS County Office Building (112 State Street)	Electricity	Electricity	104	0.99
County Executive's Office	Other	Chairman Legislature	DGS County Office Building (112 State Street)	Electricity	Electricity	104	4.59
County Executive's Office	Other	Public Defender	DGS County Office Building (112 State Street)	Electricity	Electricity	104	9.08
County Executive's Office	Other	Alternate Public Defender	DGS County Office Building (112 State Street)	Electricity	Electricity	104	1.81
County Executive's Office	Other	Assigned Council	DGS County Office Building (112 State Street)	Electricity	Electricity	104	1.99
County Executive's Office	Other	Immigration Services	DGS County Office Building (112 State Street)	Electricity	Electricity	104	0.91
County Executive's Office	Other	Coroner	DGS County Office Building (112 State Street)	Electricity	Electricity	104	1.42
County Executive's Office	Other	County Executive	DGS County Office Building (112 State Street)	Electricity	Electricity	104	7.21
County Executive's Office	Other	Finance	DGS County Office Building (112 State Street)	Electricity	Electricity	104	3.94

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Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Lawson Lake Visitors Center (293 Lawson Lake Road)	Stationary Sources	Propane	3.18	3.18
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Lawson Lake Waldman Lodge (272 Lawson Lake Road)	Electricity	Electricity	0.50	0.50
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Lawson Lake Waldman Lodge (272 Lawson Lake Road)	Stationary Sources	Propane	10	10
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Lawson Lake Water Treatment (272 Lawson Lake Road)	Electricity	Electricity	1.05	1.05
County Executive's Office	Parks and Recreation	Parks and Recreation	P&R Parks & Recreation Office (390 New Salem Road)	Stationary Sources	Natural Gas	36	36
County Executive's Office	External	Shaker Heritage Society	DGS (SHS) Ann Lee - Unspecified Facility (875 Watervliet Shaker Road)	Electricity	Electricity	7.25	7.25
County Executive's Office	External	Shaker Heritage Society	DGS (SHS) Ann Lee - Unspecified Facility (875 Watervliet Shaker Road)	Stationary Sources	Natural Gas	18	18
County Executive's Office	Department of General Services	Shaker Place Rehabilitation & Nursing Center	760 Albany Shaker Road	Electricity	Electricity	0.42	0.42
County Executive's Office	Department of General Services	Shaker Place Rehabilitation & Nursing Center	760 Albany Shaker Road	Stationary Sources	Natural Gas	8.29	8.29
County Executive's Office	Department of General Services	Shaker Place Rehabilitation & Nursing Center	780 Albany Shaker Road	Electricity	Electricity	292	292
County Executive's Office	Department of General Services	Shaker Place Rehabilitation & Nursing Center	780 Albany Shaker Road	Stationary Sources	Natural Gas	976	976
County Executive's Office	Department of General Services	Shaker Place Rehabilitation & Nursing Center	Shaker Place Rehabilitation & Nursing Center (820 Albany Shaker Road)	Mobile Sources	Gasoline	13	13
County Executive's Office	Department of General Services	Department of Health	DGS Health Department (175 Green Street)	Electricity	Electricity	43	33
County Executive's Office	Department of General Services	Department of Mental Health	DGS Health Department (175 Green Street)	Electricity	Electricity	43	11
County Executive's Office	Department of General Services	Department of Health	DGS Health Department (175 Green Street)	Stationary Sources	Natural Gas	61	46

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Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Other	Comptroller	DGS County Office Building (112 State Street)	Electricity	Electricity	104	4.24
County Executive's Office	Other	Management & Budget	DGS County Office Building (112 State Street)	Electricity	Electricity	104	2.30
County Executive's Office	Department of General Services	DGS Purchasing	DGS County Office Building (112 State Street)	Electricity	Electricity	104	1.16
County Executive's Office	Other	Law Department	DGS County Office Building (112 State Street)	Electricity	Electricity	104	10
County Executive's Office	Other	Civil Services	DGS County Office Building (112 State Street)	Electricity	Electricity	104	1.18
County Executive's Office	Other	Human Resources	DGS County Office Building (112 State Street)	Electricity	Electricity	104	6.94
County Executive's Office	Department of General Services	DGS Facilities Eng.	DGS County Office Building (112 State Street)	Electricity	Electricity	104	0.91
County Executive's Office	Department of General Services	DGS Administration	DGS County Office Building (112 State Street)	Electricity	Electricity	104	2.68
County Executive's Office	Department of General Services	DGS Building Maintenance	DGS County Office Building (112 State Street)	Electricity	Electricity	104	1.91
County Executive's Office	Department of General Services	DGS Janitorial	DGS County Office Building (112 State Street)	Electricity	Electricity	104	0.30
County Executive's Office	Department of General Services	DGS Code Enforcement	DGS County Office Building (112 State Street)	Electricity	Electricity	104	0.32
County Executive's Office	Department of General Services	DGS Central Services	DGS County Office Building (112 State Street)	Electricity	Electricity	104	0.55
County Executive's Office	Department of General Services	DGS Mail Room	DGS County Office Building (112 State Street)	Electricity	Electricity	104	0.69
County Executive's Office	Department of General Services	DGS Clerical/Fleet	DGS County Office Building (112 State Street)	Electricity	Electricity	104	0.08
County Executive's Office	Department of General Services	DGS Central supply	DGS County Office Building (112 State Street)	Electricity	Electricity	104	2.23
County Executive's Office	Other	Information Services	DGS County Office Building (112 State Street)	Electricity	Electricity	104	12
County Executive's Office	Department of General Services	Department of Children, Youth and Families - Care of Handicapped	DGS County Office Building (112 State Street)	Electricity	Electricity	104	2.31
County Executive's Office	Other	Crime Victims & Sexual Violence	DGS County Office Building (112 State Street)	Electricity	Electricity	104	2.89
County Executive's Office	Department of General Services	Department of Children, Youth and Families - 112 State Street	DGS County Office Building (112 State Street)	Electricity	Electricity	104	17

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Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Other	Economic Development	DGS County Office Building (112 State Street)	Electricity	Electricity	104	0.08
External	External	Trusco Bank	DGS County Office Building (112 State Street)	Electricity	Electricity	104	2.80
County Executive's Office	Other	Minority Counsel	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	4.10
County Executive's Office	Other	Chairman Legislature	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	19
County Executive's Office	Other	Public Defender	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	38
County Executive's Office	Other	Alternate Public Defender	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	7.47
County Executive's Office	Other	Assigned Council	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	8.23
County Executive's Office	Other	Immigration Services	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	3.76
County Executive's Office	Other	Coroner	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	5.88
County Executive's Office	Other	County Executive	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	30
County Executive's Office	Other	Finance	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	16
County Executive's Office	Other	Comptroller	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	18
County Executive's Office	Other	Management & Budget	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	10
County Executive's Office	Department of General Services	DGS Purchasing	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	4.82
County Executive's Office	Other	Law Department	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	41
County Executive's Office	Other	Civil Services	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	4.87
County Executive's Office	Other	Human Resources	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	29
County Executive's Office	Department of General Services	DGS Facilities Eng.	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	3.77
County Executive's Office	Department of General Services	DGS Administration	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	11
County Executive's Office	Department of General Services	DGS Building Maintenance	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	7.89
County Executive's Office	Department of General Services	DGS Janitorial	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	1.24

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Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Department of General Services	DGS Code Enforcement	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	1.31
County Executive's Office	Department of General Services	DGS Central Services	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	2.29
County Executive's Office	Department of General Services	DGS Mail Room	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	2.85
County Executive's Office	Department of General Services	DGS Clerical/Fleet	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	0.33
County Executive's Office	Department of General Services	DGS Central supply	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	9.23
County Executive's Office	Other	Information Services	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	49
County Executive's Office	Department of General Services	Department of Children, Youth and Families - Care of Handicapped	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	10
County Executive's Office	Other	Crime Victims & Sexual Violence	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	12
County Executive's Office	Department of General Services	Department of Children, Youth and Families - 112 State Street	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	72
County Executive's Office	Other	Economic Development	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	0.33
External	External	Trusco Bank	DGS County Office Building (112 State Street)	Stationary Sources	Natural Gas	432	12
County Executive's Office	Other	Minority Counsel	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.66
County Executive's Office	Other	Chairman Legislature	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	3.08
County Executive's Office	Other	Public Defender	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	6.10
County Executive's Office	Other	Alternate Public Defender	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	1.21
County Executive's Office	Other	Assigned Council	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	1.34
County Executive's Office	Other	Immigration Services	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.61
County Executive's Office	Other	Coroner	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.95
County Executive's Office	Other	County Executive	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	4.84

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Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Other	Finance	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	2.65
County Executive's Office	Other	Comptroller	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	2.85
County Executive's Office	Other	Management & Budget	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	1.54
County Executive's Office	Department of General Services	DGS Purchasing	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.78
County Executive's Office	Other	Law Department	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	6.59
County Executive's Office	Other	Civil Services	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.79
County Executive's Office	Other	Human Resources	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	4.66
County Executive's Office	Department of General Services	DGS Facilities Eng.	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.61
County Executive's Office	Department of General Services	DGS Administration	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	1.80
County Executive's Office	Department of General Services	DGS Building Maintenance	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	1.28
County Executive's Office	Department of General Services	DGS Janitorial	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.20
County Executive's Office	Department of General Services	DGS Code Enforcement	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.21
County Executive's Office	Department of General Services	DGS Central Services	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.37
County Executive's Office	Department of General Services	DGS Mail Room	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.46
County Executive's Office	Department of General Services	DGS Clerical/Fleet	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.05
County Executive's Office	Department of General Services	DGS Central supply	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	1.50
County Executive's Office	Other	Information Services	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	7.87
County Executive's Office	Department of General Services	Department of Children, Youth and Families - Care of Handicapped	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	1.55
County Executive's Office	Other	Crime Victims & Sexual Violence	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	1.94

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Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Department of General Services	Department of Children, Youth and Families - 112 State Street	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	12
County Executive's Office	Other	Economic Development	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	0.05
External	External	Trusco Bank	DGS County Office Building (112 State Street)	Mobile Sources	Diesel Fuel	70	1.88
County Executive's Office	Other	Minority Counsel	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.03
County Executive's Office	Other	Chairman Legislature	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.16
County Executive's Office	Other	Public Defender	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.31
County Executive's Office	Other	Alternate Public Defender	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.06
County Executive's Office	Other	Assigned Council	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.07
County Executive's Office	Other	Immigration Services	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.03
County Executive's Office	Other	Coroner	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.05
County Executive's Office	Other	County Executive	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.25
County Executive's Office	Other	Finance	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.14
County Executive's Office	Other	Comptroller	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.15
County Executive's Office	Other	Management & Budget	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.08
County Executive's Office	Department of General Services	DGS Purchasing	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.04
County Executive's Office	Other	Law Department	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.34
County Executive's Office	Other	Civil Services	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.04
County Executive's Office	Other	Human Resources	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.24
County Executive's Office	Department of General Services	DGS Facilities Eng.	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.03
County Executive's Office	Department of General Services	DGS Administration	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.09

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Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Department of General Services	DGS Building Maintenance	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.07
County Executive's Office	Department of General Services	DGS Janitorial	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.01
County Executive's Office	Department of General Services	DGS Code Enforcement	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.01
County Executive's Office	Department of General Services	DGS Central Services	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.02
County Executive's Office	Department of General Services	DGS Mail Room	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.02
County Executive's Office	Department of General Services	DGS Clerical/Fleet	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.00
County Executive's Office	Department of General Services	DGS Central supply	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.08
County Executive's Office	Other	Information Services	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.40
County Executive's Office	Department of General Services	Department of Children, Youth and Families - Care of Handicapped	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.08
County Executive's Office	Other	Crime Victims & Sexual Violence	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.10
County Executive's Office	Department of General Services	Department of Children, Youth and Families - 112 State Street	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.60
County Executive's Office	Other	Economic Development	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.00
External	External	Trusco Bank	DGS County Office Building (112 State Street)	Mobile Sources	Gasoline	3.59	0.10
County Executive's Office	Other	Office of Court Administration	DGS Family Court (32 Clinton Avenue)	Electricity	Electricity	72	58
County Executive's Office	Department of General Services	District Attorney	DGS Family Court (32 Clinton Avenue)	Electricity	Electricity	72	1.49
County Executive's Office	Other	Public Defender	DGS Family Court (32 Clinton Avenue)	Electricity	Electricity	72	0.66
County Executive's Office	Other	Alternate Public Defender	DGS Family Court (32 Clinton Avenue)	Electricity	Electricity	72	0.66
County Executive's Office	Department of General Services	Department of Social Services	DGS Family Court (32 Clinton Avenue)	Electricity	Electricity	72	1.65
County Executive's Office	Department of General Services	Department of Children, Youth and Families - Family Court	DGS Family Court (32 Clinton Avenue)	Electricity	Electricity	72	1.57

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Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
County Executive's Office	Other	Office of Court Administration	DGS Family Court (32 Clinton Avenue)	Stationary Sources	Natural Gas	96	77
County Executive's Office	Department of General Services	District Attorney	DGS Family Court (32 Clinton Avenue)	Stationary Sources	Natural Gas	96	1.98
County Executive's Office	Other	Public Defender	DGS Family Court (32 Clinton Avenue)	Stationary Sources	Natural Gas	96	0.88
County Executive's Office	Other	Alternate Public Defender	DGS Family Court (32 Clinton Avenue)	Stationary Sources	Natural Gas	96	0.88
County Executive's Office	Department of General Services	Department of Social Services	DGS Family Court (32 Clinton Avenue)	Stationary Sources	Natural Gas	96	2.19
County Executive's Office	Department of General Services	Department of Children, Youth and Families - Family Court	DGS Family Court (32 Clinton Avenue)	Stationary Sources	Natural Gas	96	2.09
County Executive's Office	Other	Office of Court Administration	DGS Judicial Center (6 Lodge Street)	Electricity	Electricity	203	130
County Executive's Office	Department of General Services	District Attorney	DGS Judicial Center (6 Lodge Street)	Electricity	Electricity	203	63
County Executive's Office	Other	Office of Court Administration	DGS Judicial Center (6 Lodge Street)	Stationary Sources	Natural Gas	499	318
County Executive's Office	Department of General Services	District Attorney	DGS Judicial Center (6 Lodge Street)	Stationary Sources	Natural Gas	499	155

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SHERRIFF MANAGING OFFICE RAW DATA

Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
Sheriff's Department	Correctional Facility	Albany County Correctional Facility	Albany County Correctional Facility (840 Albany Shaker Road)	Electricity	Electricity	390	390
Sheriff's Department	Correctional Facility	Albany County Correctional Facility	Albany County Correctional Facility (840 Albany Shaker Road)	Mobile Sources	Diesel Fuel	1.35	1.35
Sheriff's Department	Correctional Facility	Albany County Correctional Facility	Albany County Correctional Facility (840 Albany Shaker Road)	Mobile Sources	Gasoline	97	97
Sheriff's Department	Correctional Facility	Albany County Correctional Facility	Albany County Correctional Facility (840 Albany Shaker Road)	Stationary Sources	Natural Gas	1871	1871
Sheriff's Department	Sheriff's Office	Sheriff's Office	NOT SPECIFIED	Mobile Sources	Diesel Fuel	71	71
Sheriff's Department	Sheriff's Office	Sheriff's Office	NOT SPECIFIED	Mobile Sources	Gasoline	1177	1177
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's - Clarksville Station (58 Verda Lane)	Electricity	Electricity	38	38
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's 911 Tower (170 Biers Road)	Electricity	Electricity	3.17	3.17
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's E911 Communication Center (449 New Salem Road)	Electricity	Electricity	23	23
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's E911 Communication Center (449 New Salem Road)	Mobile Sources	Gasoline	22	22
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's E911 Communication Center (449 New Salem Road)	Stationary Sources	Natural Gas	7.72	7.72
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's Garage (21 Voorheesville Avenue)	Electricity	Electricity	3.05	3.05
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's Garage (21 Voorheesville Avenue)	Stationary Sources	Natural Gas	3.96	3.96
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's Gun Club (6378 Gun Club Road)	Electricity	Electricity	0.44	0.44
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's Remsen St (19 Remsen Street Unit 3)	Electricity	Electricity	0.91	0.91
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's Unit One Tower (28 Jansen Lane)	Electricity	Electricity	4.63	4.63
Sheriff's Department	Sheriff's Office	Sheriff's Office	Sheriff's Unit Two Tower (627 Mott Road)	Electricity	Electricity	3.93	3.93
Sheriff's Department	Sheriff's Office	Sheriff's Office	DGS County Court House (11 Eagle Street)	Electricity	Electricity	119	12
Sheriff's Department	Sheriff's Office	Sheriff's Office	DGS Family Court (32 Clinton Avenue)	Electricity	Electricity	72	8.49

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Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
Sheriff's Department	Sheriff's Office	Sheriff's Office	DGS Family Court (32 Clinton Avenue)	Stationary Sources	Natural Gas	96	11
Sheriff's Department	Sheriff's Office	Sheriff's Office	DGS Judicial Center (6 Lodge Street)	Electricity	Electricity	203	10
Sheriff's Department	Sheriff's Office	Sheriff's Office	DGS Judicial Center (6 Lodge Street)	Stationary Sources	Natural Gas	499	25

Notes: 1. Budget Group "Other: means the facility is within a certain managing office but is separate from the budget groups designated within this report.
2. "Not Specified" facilities are those which operate under a specific managing office but have no specific department.

WATER PURIFICATION DISTRICT RAW DATA

Managing Office	Budget Group	Direct Department	Facility (Address)	Emissions Category	Fuel Type	Total Facility GHG Emissions (tCO2e)	Direct Department GHG Emissions (tCO2e)
Water Purification District	Water Purification District	Water Purification District	Water Purification District - North Plant (1 Canal Road South)	Electricity	Electricity	779	779
Water Purification District	Water Purification District	Water Purification District	Water Purification District - South Plant (209 Church Street)	Electricity	Electricity	535	535
Water Purification District	Water Purification District	Water Purification District	Water Purification District - South Plant (209 Church Street)	Stationary Sources	Natural Gas	1872	1872
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 6th Street)	Electricity	Electricity	0.03	0.03
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Bridge Street)	Electricity	Electricity	0.03	0.03
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Broadway)	Electricity	Electricity	0.21	0.21
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Canal Road)	Stationary Sources	Natural Gas	2.40	2.40
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Canal Street)	Electricity	Electricity	0.03	0.03
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Commerce Avenue)	Electricity	Electricity	0.06	0.06
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Erie Street)	Electricity	Electricity	0.04	0.04
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Erie Street)	Stationary Sources	Natural Gas	1992	1992
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Fuller Road)	Electricity	Electricity	0.03	0.03
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Manning Boulevard)	Electricity	Electricity	0.03	0.03
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Railroad Avenue)	Electricity	Electricity	0.06	0.06
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Tibbitts Place)	Electricity	Electricity	0.03	0.03
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Vatrano Road)	Electricity	Electricity	0.03	0.03
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Watervliet Avenue)	Electricity	Electricity	0.06	0.06
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (0 Yardboro Avenue)	Electricity	Electricity	0.03	0.03
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (100 14th Street)	Electricity	Electricity	0.03	0.03
Water Purification District	Water Purification District	Water Purification District	Z Sewer Transfer (45 News Plz)	Electricity	Electricity	0.03	0.03

Notes: 1. Budget Group "Other: means the facility is within a certain managing office but is separate from the budget groups designated within this report.

2. "Not Specified" facilities are those which operate under a specific managing office but have no specific department.

Appendix B

Facility GHG Emissions Results

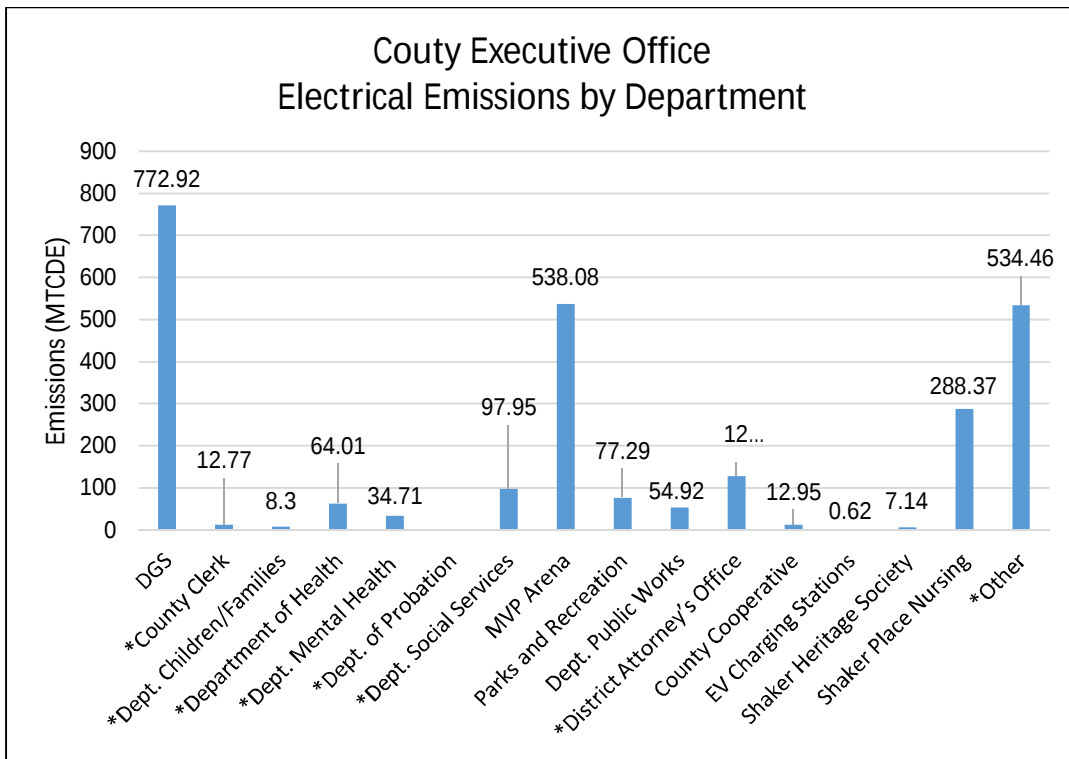
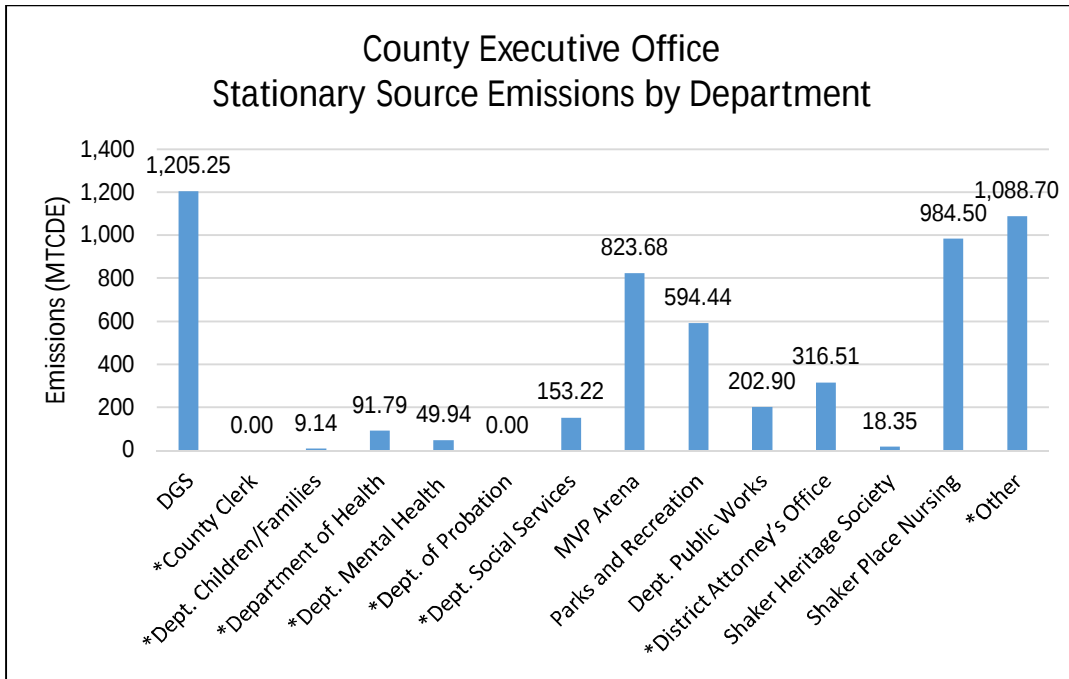
Row Labels	Sum of Department Electricity Emissions (MTCDE)	Sum of Department Mobile Sources Emissions (MTCDE)	Sum of Department Stationary Sources Emissions (MTCDE)	Sum of Total Emissions (MTCDE)
County Executive's Office	1,460.30	2,111.28	3,747.45	7,319.03
County Cooperative	12.95	0.00	0.00	12.95
County Cooperative	12.95	0.00	0.00	12.95
DGS Cornell Co-op Extension Complex - Building (390 New Salem Rd)	12.73	0.00	0.00	12.73
DGS Cornell Co-op Extension Complex - Sign (0 Martin Road)	0.22	0.00	0.00	0.22
Department of General Services	772.92	290.55	1,843.07	2,906.55
County Clerk	12.77	1.15	0.00	13.92
County Clerk NOT SPECIFIED	0.00	1.15	0.00	1.15
DGS County Court House (11 Eagle Street)	12.77	0.00	0.00	12.77
Department of Children, Youth and Families	8.30	96.61	9.14	114.05
DCYF NOT SPECIFIED	0.00	44.56	0.00	44.56
DGS Mental Health/CAC - Children, Youth, & Family (250 South Pearl Street)	8.30	0.00	0.00	8.30
DGS Mental Health/CAC - Combined (250 South Pearl Street)	0.00	0.00	9.14	9.14
WPD NOT SPECIFIED	0.00	52.05	0.00	52.05
Department of Children, Youth and Families - 112 State Street	17.12	12.28	71.96	101.35
DGS County Office Building (112 State Street)	17.12	12.28	71.96	101.35
Department of Children, Youth and Families - Care of Handicapped	2.27	1.63	9.56	13.47
DGS County Office Building (112 State Street)	2.27	1.63	9.56	13.47
Department of Children, Youth and Families - Family Court	3.09	0.00	4.18	7.27
DGS Family Court (32 Clinton Avenue)	3.09	0.00	4.18	7.27
Department of General Services	105.19	62.09	107.44	274.72
DGS Board of Elections - Building (224 South Pearl Street)	13.74	0.00	31.86	45.60
DGS Elk Street Parking Lot (199 Elk Street)	0.33	0.00	0.00	0.33
DGS Hall of Records (95 Tivoli Street)	12.08	0.00	61.15	73.23
DGS Mercantile (Probation) (60 South Pearl Street)	70.13	0.00	14.43	84.56
DGS NOT SPECIFIED	0.00	62.09	0.00	62.09
DGS Spruce Street Garage (3 Spruce Street)	3.80	0.00	0.00	3.80
DGS Steadman House (1 Lodge Street)	3.59	0.00	0.00	3.59
DGS Washington Ave Parking Lot - Booth (208 Washington Avenue)	0.48	0.00	0.00	0.48
DGS Washington Ave Parking Lot - Lights (208 Washington Avenue)	0.81	0.00	0.00	0.81
Hill House (1 Hope Lane)	0.23	0.00	0.00	0.23
Department of Health	64.01	21.75	91.79	177.55
DGS Health Department (175 Green Street)	64.01	0.00	91.79	155.80
DOH NOT SPECIFIED	0.00	21.75	0.00	21.75
Department of Mental Health	34.71	0.00	49.94	84.66
DGS Health Department (175 Green Street)	21.34	0.00	30.60	51.93
DGS Mental Health/CAC - Combined (250 South Pearl Street)	0.00	0.00	19.35	19.35
DGS Mental Health/CAC - Mental Health (260 South Pearl Street)	13.38	0.00	0.00	13.38
Department of Probation	0.00	10.04	0.00	10.04
DOP NOT SPECIFIED	0.00	10.04	0.00	10.04
Department of Social Services	97.95	3.80	153.22	254.97
DGS Family Court (32 Clinton Avenue)	3.24	0.00	4.38	7.62
DGS Social Services (162 Washington Avenue)	94.71	0.00	148.84	243.55
DSS NOT SPECIFIED	0.00	3.80	0.00	3.80
DGS Administration	2.64	1.89	11.10	15.63
DGS County Office Building (112 State Street)	2.64	1.89	11.10	15.63
DGS Building Maintenance	1.88	1.35	7.89	11.12
DGS County Office Building (112 State Street)	1.88	1.35	7.89	11.12
DGS Central Services	0.55	0.39	2.29	3.23
DGS County Office Building (112 State Street)	0.55	0.39	2.29	3.23
DGS Central supply	2.20	1.57	9.23	13.00
DGS County Office Building (112 State Street)	2.20	1.57	9.23	13.00
DGS Clerical/Fleet	0.08	0.06	0.33	0.46
DGS County Office Building (112 State Street)	0.08	0.06	0.33	0.46
DGS Code Enforcement	0.31	0.22	1.31	1.85
DGS County Office Building (112 State Street)	0.31	0.22	1.31	1.85
DGS Facilities Eng.	0.90	0.64	3.77	5.30
DGS County Office Building (112 State Street)	0.90	0.64	3.77	5.30
DGS Janitorial	0.30	0.21	1.24	1.75
DGS County Office Building (112 State Street)	0.30	0.21	1.24	1.75
DGS Mail Room	0.68	0.49	2.85	4.01
DGS County Office Building (112 State Street)	0.68	0.49	2.85	4.01
DGS Purchasing	1.15	0.82	4.82	6.79
DGS County Office Building (112 State Street)	1.15	0.82	4.82	6.79
District Attorney	128.48	60.51	316.51	505.50
Community Justice Outreach Center (155 Clinton Avenue, Floor 1)	1.38	0.00	2.46	3.84
DA NOT SPECIFIED	0.00	60.51	0.00	60.51
DGS Family Court (32 Clinton Avenue)	2.93	0.00	3.96	6.89
DGS Judicial Center (6 Lodge Street)	124.16	0.00	310.10	434.26
Shaker Place Rehabilitation & Nursing Center	288.37	13.05	984.50	1,285.92
760 Albany Shaker Road	0.41	0.00	8.29	8.70
780 Albany Shaker Road	287.96	0.00	976.21	1,264.17
Shaker Place Rehabilitation & Nursing Center (820 Albany Shaker Road)	0.00	13.05	0.00	13.05

Row Labels	Sum of Department Electricity Emissions (MTCDE)	Sum of Department Mobile Sources Emissions (MTCDE)	Sum of Department Stationary Sources Emissions (MTCDE)	Sum of Total Emissions (MTCDE)
Department of Public Works	54.92	1,762.11	202.90	2,019.92
Department of Public Works	54.92	1,762.11	202.90	2,019.92
DPW - Lighting (0 Old Quarry Road)	0.21	0.00	0.00	0.21
DPW - Lighting (112 State Street)	4.54	0.00	0.00	4.54
DPW - Lighting (123 County Route 101)	0.18	0.00	0.00	0.18
DPW - Tricentennial Circle (0 Fuller Road)	0.47	0.00	0.00	0.47
DPW - Unspecified Facility (0 Krumkill Road)	0.45	0.00	0.00	0.45
DPW - Unspecified Facility (0 Sand Creek Road)	0.43	0.00	0.00	0.43
DPW - Unspecified Facility (510 Albany Shaker Road)	0.14	0.00	0.00	0.14
DPW Albany Shaker Sub-Division (0 Albany Shaker & Mari Drive)	0.17	0.00	0.00	0.17
DPW Coeymans Sub-Division (156 County Route 111)	3.97	0.00	0.00	3.97
DPW Colonie Sub-Division (756 Albany Shaker Road)	2.80	0.00	26.62	29.42
DPW East Berne Sub-Division (821 Cole Hill Road)	2.79	0.00	0.00	2.79
DPW Knox Pole Barn (1296 Township Road)	1.06	0.00	0.00	1.06
DPW Knox Sub-Division (1296 Township Road)	2.16	0.00	0.00	2.16
DPW Main Building G&E New Scotland (449 New Salem Road)	28.59	0.00	155.04	183.63
DPW Medusa Tool House (265 County Route 357)	1.74	0.00	0.00	1.74
DPW NOT SPECIFIED	0.00	1,748.67	0.00	1,748.67
DPW Rensselaerville Sub-Division (265 County Route 357)	0.15	0.00	11.41	11.55
DPW Slingerland Rail Trail Depot (839 Kenwood Avenue)	1.42	0.00	0.00	1.42
DPW Truck Wash (449 New Salem Road)	1.22	0.00	0.00	1.22
DPW Westerlo Garage (County Route 410)	0.19	0.00	0.00	0.19
DPW Westerlo Sub-Division (19 County Route 410)	1.78	0.00	9.83	11.61
Washington Roundabout (0 Fuller Road)	0.45	0.00	0.00	0.45
DOMH NOT SPECIFIED	0.00	13.44	0.00	13.44
EV Charging Stations	0.62	0.00	0.00	0.62
EV Charging Stations	0.62	0.00	0.00	0.62
EV Charging Station - 114 Heritage Lane (114 Heritage Lane)	0.10	0.00	0.00	0.10
EV Charging Station - 293 Lawson Lake (293 Lawson Lake Road)	0.03	0.00	0.00	0.03
EV Charging Station - 8 Grove Street (8 Grove Street)	0.48	0.00	0.00	0.48
External	7.14	0.00	18.35	25.48
Shaker Heritage Society	7.14	0.00	18.35	25.48
DGS (SHS) Ann Lee - Unspecified Facility (875 Watervliet Shaker Road)	7.14	0.00	18.35	25.48
Other	534.46	58.62	1,088.70	1,681.78
Alternate Public Defender	3.08	1.27	9.23	13.59
DGS County Office Building (112 State Street)	1.78	1.27	7.47	10.53
DGS Family Court (32 Clinton Avenue)	1.30	0.00	1.76	3.06
Assigned Council	1.96	1.40	8.23	11.59
DGS County Office Building (112 State Street)	1.96	1.40	8.23	11.59
Chairman Legislature	4.52	3.24	18.99	26.75
DGS County Office Building (112 State Street)	4.52	3.24	18.99	26.75
Civil Services	1.16	0.83	4.87	6.86
DGS County Office Building (112 State Street)	1.16	0.83	4.87	6.86
Comptroller	4.17	2.99	17.55	24.71
DGS County Office Building (112 State Street)	4.17	2.99	17.55	24.71
Coroner	1.40	1.00	5.88	8.28
DGS County Office Building (112 State Street)	1.40	1.00	5.88	8.28
County Executive	7.10	5.09	29.83	42.01
DGS County Office Building (112 State Street)	7.10	5.09	29.83	42.01
Crime Victims & Sexual Violence	2.84	2.04	11.95	16.83
DGS County Office Building (112 State Street)	2.84	2.04	11.95	16.83
Department of Consumer Affairs	0.00	8.43	0.00	8.43
DCA NOT SPECIFIED	0.00	8.43	0.00	8.43
Economic Development	0.08	0.06	0.33	0.46
DGS County Office Building (112 State Street)	0.08	0.06	0.33	0.46
Finance	3.88	2.78	16.30	22.96
DGS County Office Building (112 State Street)	3.88	2.78	16.30	22.96
Human Resources	6.83	4.90	28.72	40.45
DGS County Office Building (112 State Street)	6.83	4.90	28.72	40.45
Immigration Services	0.89	0.64	3.76	5.30
DGS County Office Building (112 State Street)	0.89	0.64	3.76	5.30
Information Services	11.54	8.28	48.51	68.33
DGS County Office Building (112 State Street)	11.54	8.28	48.51	68.33
Law Department	9.66	6.93	40.62	57.22
DGS County Office Building (112 State Street)	9.66	6.93	40.62	57.22
Legislature Chambers	7.79	0.00	0.00	7.79
DGS County Court House (11 Eagle Street)	7.79	0.00	0.00	7.79
Management & Budget	2.26	1.62	9.51	13.39
DGS County Office Building (112 State Street)	2.26	1.62	9.51	13.39
Minority Counsel	0.97	0.70	4.10	5.77
DGS County Office Building (112 State Street)	0.97	0.70	4.10	5.77
Office of Court Administration	454.09	0.00	790.97	1,245.06
DGS County Court House (11 Eagle Street)	85.12	0.00	0.00	85.12

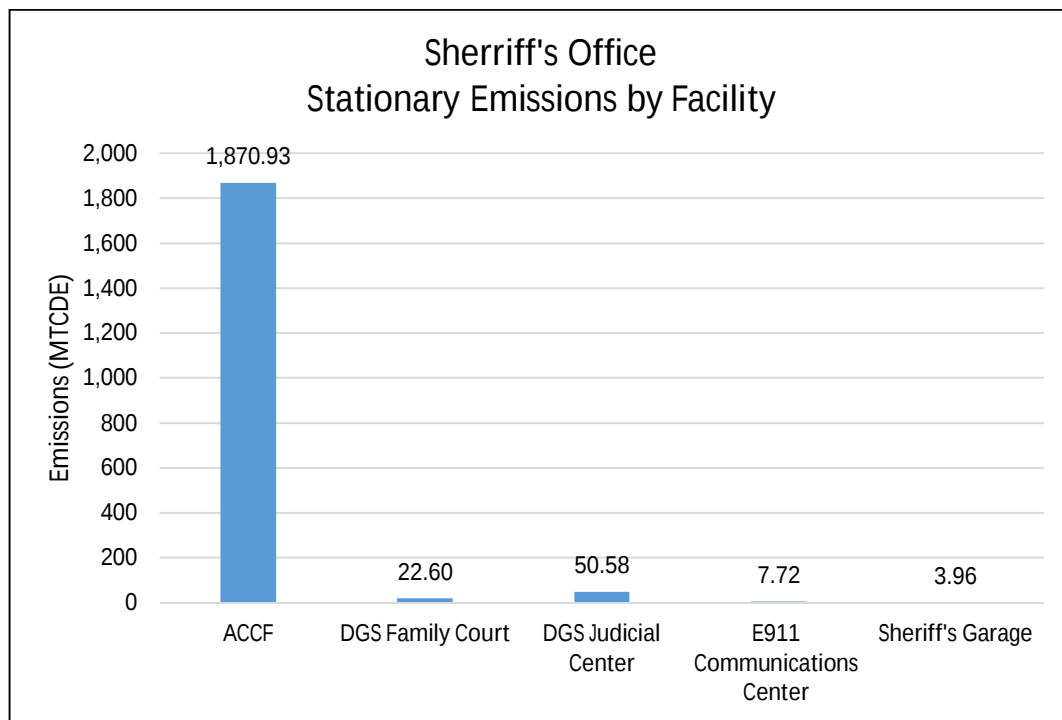
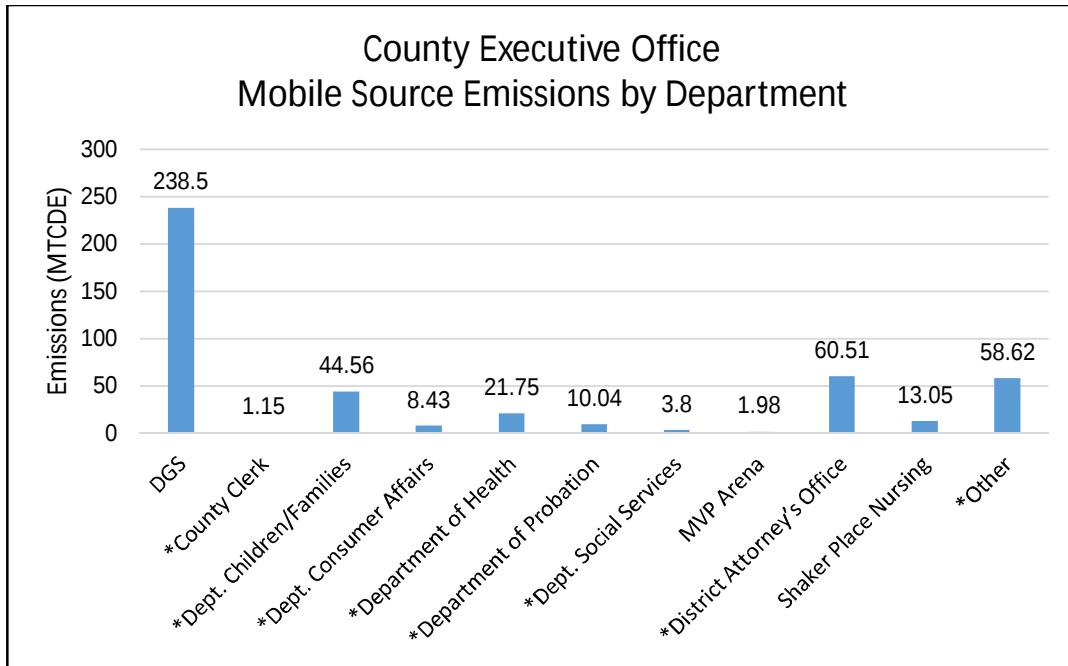
Row Labels	Sum of Department Electricity Emissions (MTCDE)	Sum of Department Mobile Sources Emissions (MTCDE)	Sum of Department Stationary Sources Emissions (MTCDE)	Sum of Total Emissions (MTCDE)
DGS Family Court (32 Clinton Avenue)	113.95	0.00	154.07	268.02
DGS Judicial Center (6 Lodge Street)	255.02	0.00	636.90	891.92
Public Defender	10.25	6.41	39.36	56.02
DGS County Office Building (112 State Street)	8.94	6.41	37.60	52.96
DGS Family Court (32 Clinton Avenue)	1.30	0.00	1.76	3.06
Parks and Recreation	77.29	0.00	594.44	671.73
Parks and Recreation	77.29	0.00	594.44	671.73
DGS Cornell Co-op Extension Complex - Building (390 New Salem Rd)	2.11	0.00	0.00	2.11
DGS Cornell Co-op Extension Complex - Sign (0 Martin Road)	0.04	0.00	0.00	0.04
P&R Hockey Facility (830 Albany Shaker Road)	72.41	0.00	544.72	617.14
P&R Lawson Lake - Unspecified Camp (272 Lawson Lake Road)	0.23	0.00	0.00	0.23
P&R Lawson Lake Barn (272 Lawson Lake Road)	0.05	0.00	0.00	0.05
P&R Lawson Lake caretakers House (293 Lawson Lake Road)	0.88	0.00	0.00	0.88
P&R Lawson Lake Visitors Center (293 Lawson Lake Road)	0.05	0.00	3.18	3.23
P&R Lawson Lake Waldman Lodge (272 Lawson Lake Road)	0.49	0.00	10.49	10.99
P&R Lawson Lake Water Treatment (272 Lawson Lake Road)	1.03	0.00	0.00	1.03
P&R Parks & Recreation Office (390 New Salem Road)	0.00	0.00	36.04	36.04
External	540.84	1.98	835.28	1,378.10
External	540.84	1.98	835.28	1,378.10
MVP Arena	538.08	0.00	823.68	1,361.76
MVP Arena (51 South Pearl Street)	498.35	0.00	750.06	1,248.41
MVP Arena Atrium (51 South Pearl Street)	5.50	0.00	0.00	5.50
MVP Arena Fire Pump (51 South Pearl Street)	5.56	0.00	0.00	5.56
MVP Arena Parking Garage (100 Beaver Street)	28.65	0.00	0.00	28.65
MVP Arena Sports Bar/Dryers (51 South Pearl Street)	0.00	0.00	72.68	72.68
MVP Arena Walkway (51 South Pearl Street)	0.03	0.00	0.93	0.96
Trusco Bank	2.76	1.98	11.60	16.34
DGS County Office Building (112 State Street)	2.76	1.98	11.60	16.34
Sheriff's Department	508.31	1,368.42	1,955.78	3,832.50
Correctional Facility	383.75	98.12	1,870.93	2,352.81
Albany County Correctional Facility	383.75	98.12	1,870.93	2,352.81
Albany County Correctional Facility (840 Albany Shaker Road)	383.75	98.12	1,870.93	2,352.81
Sheriff's Office	124.55	1,270.30	84.85	1,479.70
Sheriff's Office	124.55	1,270.30	84.85	1,479.70
DGS County Court House (11 Eagle Street)	11.79	0.00	0.00	11.79
DGS Family Court (32 Clinton Avenue)	16.71	0.00	22.60	39.31
DGS Judicial Center (6 Lodge Street)	20.25	0.00	50.58	70.83
Sheriff's - Clarksville Station (58 Verda Lane)	37.26	0.00	0.00	37.26
Sheriff's 911 Tower (170 Biers Road)	3.12	0.00	0.00	3.12
Sheriff's E911 Communication Center (449 New Salem Road)	22.64	21.54	7.72	51.90
Sheriff's Garage (21 Voorheesville Avenue)	3.00	0.00	3.96	6.96
Sheriff's Gun Club (6378 Gun Club Road)	0.44	0.00	0.00	0.44
Sheriff's Remsen St (19 Remsen Street Unit 3)	0.90	0.00	0.00	0.90
Sheriff's Unit One Tower (28 Jansen Lane)	4.56	0.00	0.00	4.56
Sheriff's Unit Two Tower (627 Mott Road)	3.87	0.00	0.00	3.87
Sheriff's Office NOT SPECIFIED	0.00	1,248.76	0.00	1,248.76
Water Purification District	1,295.31	0.00	3,866.51	5,161.82
Water Purification District	1,295.31	0.00	3,866.51	5,161.82
Water Purification District	1,295.31	0.00	3,866.51	5,161.82
Water Purification District - North Plant (1 Canal Road South)	767.44	0.00	0.00	767.44
Water Purification District - South Plant (209 Church Street)	527.12	0.00	1,872.01	2,399.14
Z Sewer Transfer (0 6th Street)	0.03	0.00	0.00	0.03
Z Sewer Transfer (0 Bridge Street)	0.03	0.00	0.00	0.03
Z Sewer Transfer (0 Broadway)	0.21	0.00	0.00	0.21
Z Sewer Transfer (0 Canal Road)	0.00	0.00	2.40	2.40
Z Sewer Transfer (0 Canal Street)	0.03	0.00	0.00	0.03
Z Sewer Transfer (0 Commerce Avenue)	0.06	0.00	0.00	0.06
Z Sewer Transfer (0 Erie Street)	0.04	0.00	1,992.09	1,992.13
Z Sewer Transfer (0 Fuller Road)	0.03	0.00	0.00	0.03
Z Sewer Transfer (0 Manning Boulevard)	0.03	0.00	0.00	0.03
Z Sewer Transfer (0 Railroad Avenue)	0.06	0.00	0.00	0.06
Z Sewer Transfer (0 Tibbitts Place)	0.03	0.00	0.00	0.03
Z Sewer Transfer (0 Vatrano Road)	0.03	0.00	0.00	0.03
Z Sewer Transfer (0 Watervliet Avenue)	0.06	0.00	0.00	0.06
Z Sewer Transfer (0 Yardboro Avenue)	0.03	0.00	0.00	0.03
Z Sewer Transfer (100 14th Street)	0.03	0.00	0.00	0.03
Z Sewer Transfer (45 News Plz)	0.03	0.00	0.00	0.03
Grand Total	3,804.76	3,481.68	10,405.02	17,691.45

Appendix C

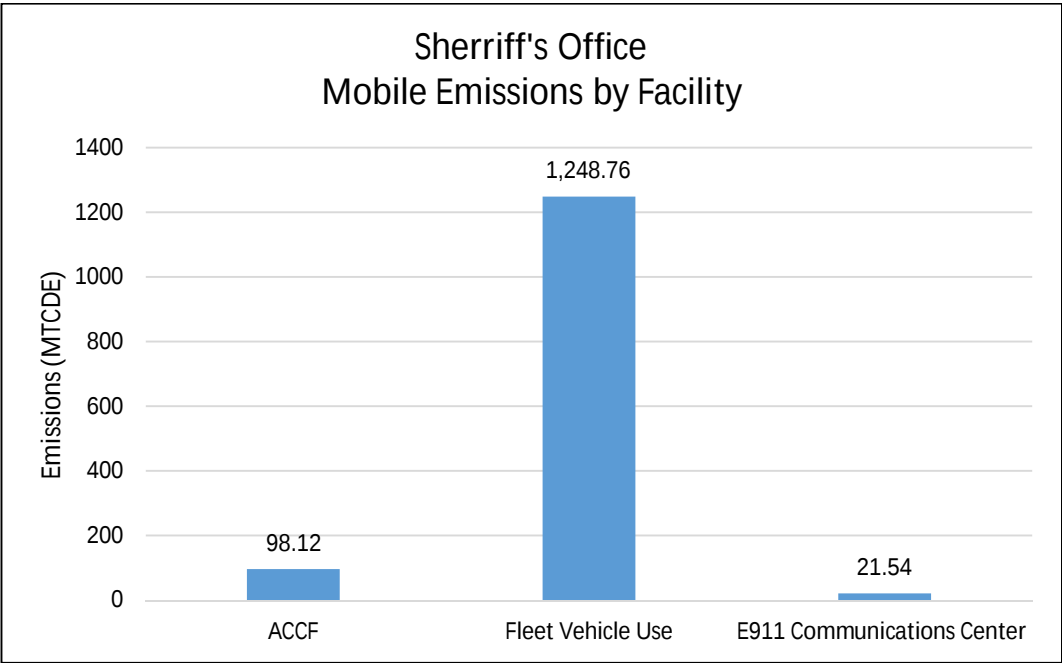
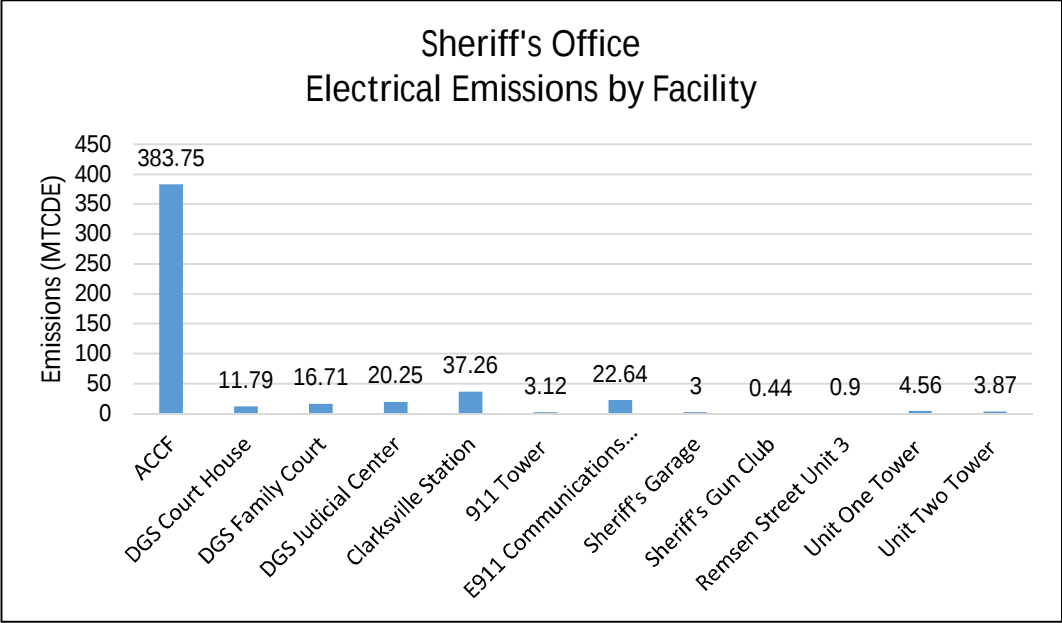
Facility Emissions Summaries Based on Emission Source

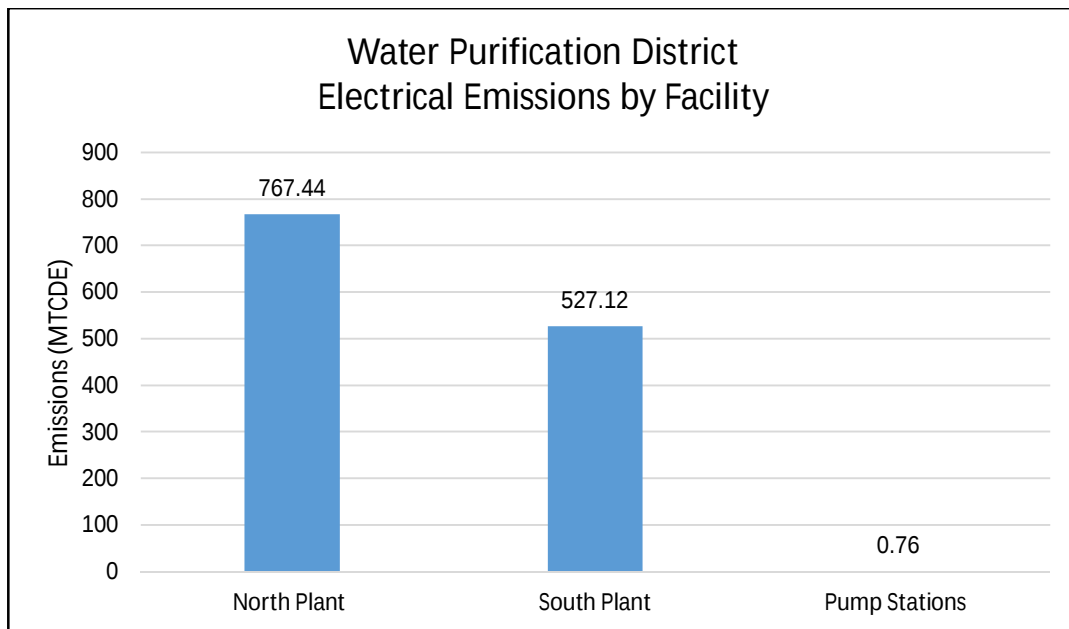
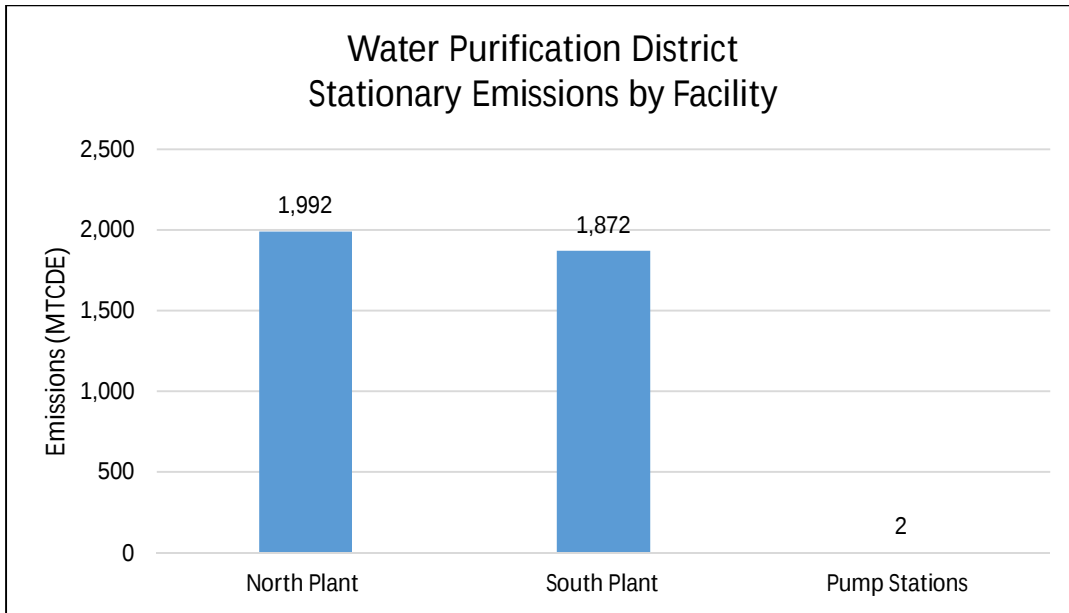


Note: Departments with a * are sub-departments that fall under the Department of General Services.



Note: Departments with a * are sub-departments that fall under the Department of General Services.





Appendix D

2013 Emission Factors vs. 2022 Emission Factors by Fuel Type

2013 Emission Factors vs. 2022 Emission Factors by Fuel Type			
Fuel Type	2013 Emission Factors	2022 Emission Factors	Units
Gasoline (CO ₂)	70.22	70.62	kg/MMBTU
Gasoline (CH ₄)	3	0.000967	kg/MMBTU
Gasoline (N ₂ O)	0.6	0.000431	kg/MMBTU
Diesel Fuel (CO ₂)	10.21	10.21	kg/gal
Diesel Fuel (CH ₄)	0.012	0.000641	kg/gal
Diesel Fuel (N ₂ O)	0.0000136	0.000473	kg/gal
Natural Gas (CO ₂)	53.0	52.8	kg/MMBTU
Natural Gas (CH ₄)	0.00469	0.000995	kg/MMBTU
Natural Gas (N ₂ O)	0.0001	0.0000998	kg/MMBTU
Propane (CO ₂)	61.46	62.56	kg/MMBTU
Propane (CH ₄)	3	0.00299	kg/MMBTU
Propane (N ₂ O)	0.6	0.000597	kg/MMBTU
Electricity (CO ₂)	625	233.081	lbs/MWh
Electricity (CH ₄)	0.0248	0.015	lbs/MWh
Electricity (N ₂ O)	0.0112	0.002	lbs/MWh

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