

# City of Charlottesville Fiscal Year 2025 Annual Energy and Water Performance Report



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## Introduction

The City of Charlottesville’s Energy and Water Management Program (EWMP) monitors and manages energy and water usage of the City’s municipal sites, including both local government and public schools. By taking intentional actions that improve efficiency, reduce reliance on fossil fuels, and decrease greenhouse gas emissions from municipal sites, the EWMP is focused on supporting **Charlottesville’s community-wide climate action goals to achieve a 45% reduction in greenhouse gas emissions by 2030 and carbon neutrality by 2050**. The EWMP tracks the energy and water usage at these municipal facilities to gauge performance, coordinates with the City’s Public Works Department Facilities Maintenance and Capital Development teams on building operations and improvement projects, works with staff to develop strategies that expand the renewable energy footprint of buildings, and engages with staff, faculty, and students to help lessen their impact on energy and water usage.

**The EWMP plays a critical role in facilitating the strategies noted in *Chapter 6 – Strategies and Actions: Municipal Emissions* of the [Charlottesville Climate Action Plan \(LINK\)](#) that focus on reducing municipal greenhouse gas emissions.**

These strategies include:

- Reduce energy demand in existing buildings
- Reduce energy demand in new construction
- Achieve carbon neutrality for all electricity that is used by City facilities by 2030
- Incorporate internal process adjustments to improve coordination effectiveness and collaboration on capital projects and planning

Building on comprehensive performance baseline data and subsequent reports (links provided in Appendix 1), the 2019 Energy and Water Management Policy, and the 2019 Resolution for Charlottesville City Schools Energy and Water Performance, this report highlights the energy and water performance of over 70 municipal sites in fiscal year 2025 (July 2024 – June 2025). The City’s performance was reviewed on an account, building, and building group level, where building groups are categories of similar use types of municipal facilities such as schools, fire stations, and offices. A list of all the facilities and building groups included in this report is provided in Appendix 2.



## Performance

### Environmental Impacts

In order to align and gauge progress towards the City’s greenhouse gas reduction goals, the City established energy and water reduction goals. The City’s utility usage performance targets are represented as Energy Use Intensity (EUI) and Water Use Intensity (WUI). These metrics are a standard for comparing building performance as they normalize against facility square footage, thereby allowing different size facilities to be compared with others of the same building type and allows the portfolio to be compared to itself over time, no matter the fluctuation in total square footage. EUI is a well-established metric with abundant data to compare building types within our region and across the nation. WUI is a less well-established metric with fewer building types and smaller data sets to compare to. *Note: WUI does not include any water usage that is associated with irrigation or outside water usage.*

- **Energy Reduction Goal** - 30% reduction in Energy Use Intensity by FY2030
- **Water Reduction Goal** - 30% reduction in Water Use Intensity by FY2030

*More detailed electricity, natural gas, and water usage and cost data across the entire municipal facility portfolio including on building group and building level for FY2024 can be accessed at the [City’s FY24 Dashboard \(LINK\)](#) (Appendix 3).*

On average, most of the City of Charlottesville building groups had a lower EUI in FY2025 compared to the regional average for their representative building groups. However, there were increases in EUI across most building groups in FY2025 compared to FY2024, mainly due to increased natural gas use for space heating. As of FY2025, the portfolio as a whole has achieved a 12.4% reduction in EUI from the FY2011 baseline but a 1.1% increase from FY2024 reaching 60.5 kBtu/sq.ft. (Table 1, Figure 1). In order to stay in line to meet the 2030 target, the City needs to see a 6% reduction in EUI in FY2026 compared to FY2025 (54.6 kBtu/sq.ft). With the energy efficiency and renewable energy measures completed in FY2025, this is an achievable target. Another measure of performance is the ENERGY STAR score. The City has 37 facilities benchmarked using ENERGY STAR Portfolio Manager, an online tool that allows buildings to receive a score (1-100) based on the level of energy efficiency compared to similar facilities across the nation. Current ENERGY STAR scores can be viewed on the [City’s FY24 Dashboard \(LINK\)](#) (Appendix 3).

#### **What is EUI and WUI?**

The EUI is a measure of how much energy (e.g., electricity and natural gas) a building uses per square foot - the lower the EUI, the better. WUI measures how much water (in gallons) a building uses per square foot – the lower the WUI, the better.

These metrics are seen as a standard for comparing building performance as they normalize against facility square footage, thereby allowing different size facilities to be compared with others of the same building type and allow the portfolio to be compared to itself overtime, no matter the fluctuation in total square footage.

Overall, there was a reduction in WUI from the FY11 baseline year. When comparing FY2025 to FY2011, there was a 15.9% reduction in WUI currently putting the FY2025 WUI at 15.4. This puts the City over halfway towards meeting its 30% reduction goal of 12.85 by 2030 (Figure 2). In addition, when compared to last fiscal year (FY2024), there was a 1.45% reduction in WUI. Most building groups saw a

## City of Charlottesville FY2025 Annual Energy and Water Performance Report

decrease in WUI from FY2024 to FY2025 with the fire station building group being the only building group showing a significant increase in WUI driven by increase water usage at Bypass Fire Station likely related to the construction of Station 1 (Table 1).

In FY25, the EWMP program and Charlottesville City Schools (CCS) were excited to announce that Tall Oaks (formerly Johnson) Elementary achieved ENERGY STAR certification, an acknowledgement that this school is performing in the top 25% of schools nationwide in energy performance.

**Johnson Elementary**  
**ENERGY STAR Certified Building**  
*Since 2024*

**ENERGY STAR Score:**  
**75 / 100**

- Outperforms **75%** of similar buildings nationwide
- Uses **25.1%** less energy per square foot than the national median
- Compared to the national median, we prevent **88.2** metric tons of greenhouse gas emissions each year.

**This Buildings Savings Equal:**

- Carbon dioxide emissions from **18** homes' electricity use for one year.
- Carbon sequestered by **88.5** acres of U.S. forest in a year.
- Emissions from **20.6** passenger vehicles in one year.

ENERGY STAR logo, Charlottesville City Schools logo, and City of Charlottesville logo.

**Image 1:** Tall Oaks (formerly Johnson) Elementary's ENERGY STAR certification, score, and efficiency statistics.

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**Table 1:** The City’s 11 building groups and portfolio performance metrics (Weather-normalized Energy Use Intensity (EUI) and Water Use Intensity (WUI) and use percent change) with regional and national comparison values. Specific buildings under each building group are listed in Appendix 2. [Source for Regional Average EUI](#) and [Source for National Average WUI](#).

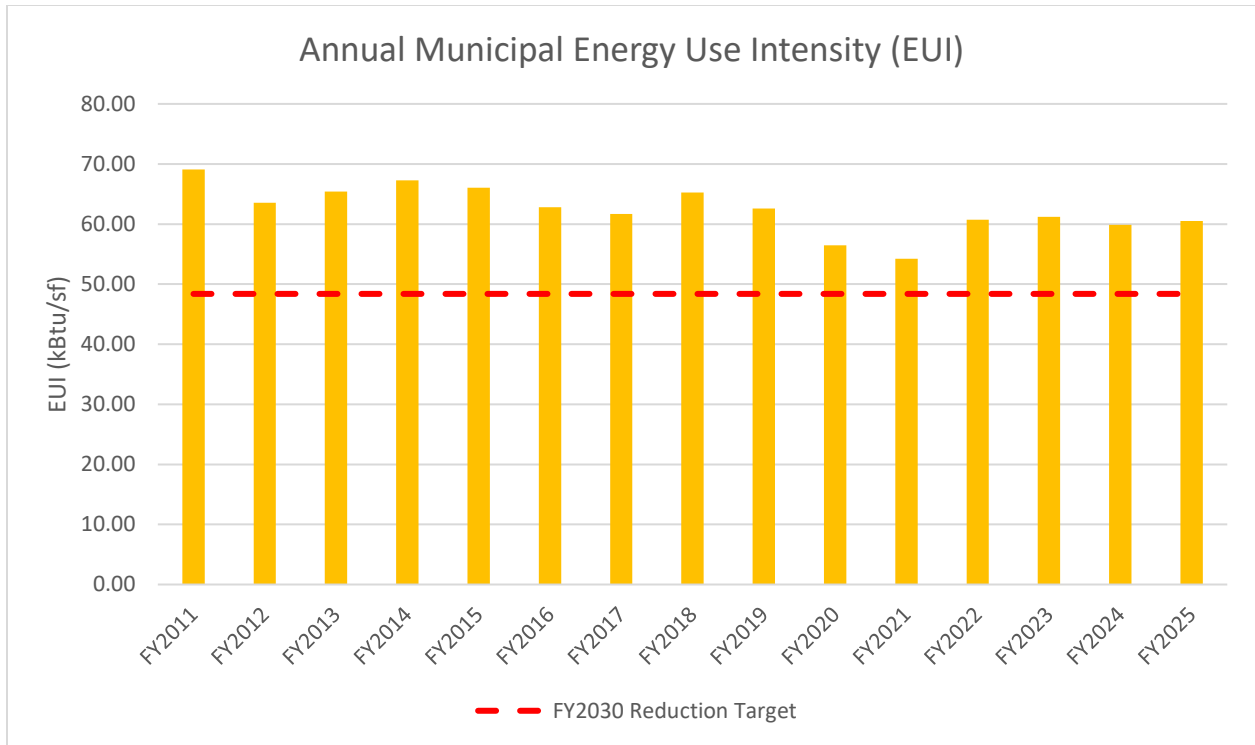
Building Group	Gross Floor Area (sq. ft.)	Energy Use Intensity (kBtu/sq.ft.)	Regional Average EUI	Water Use Intensity (gal/sq.ft.)	National Median WUI	FY2025 Energy Use Change (Compared to FY2024)	FY2025 Water Use Change (Compared to FY2024)
Courthouses	59,886	48.0	101.2	5.01	14.48	-3%	-29%
Fire Stations	59,660	59.4	63.5	11.08	28.9	4%	38%
Libraries	42,557	76.7	71.6	5.87	14.48	1%	-20%
Offices	206,373	49.5	52.9	7.80	14.48	-2%	-20%
Parks	--	--	--	--	--		24%
Recreation & Sports	120,156	113.5	50.8	42.40	--	-1%	-14%
Schools	918,587	51.8	48.5	9.01	10.84	4%	-8%
Streetlights & Traffic Signals	--	--	--	--	--		
Transit & Parking*	235,292	24.1	56.2	4.73	3.43	1%	2%
Vehicle Charging Stations	--	--	--	--	--	--	
Warehouses & Fleet Mixed Use	88,908	--	--	4.23	3.43	--	4%
Offices**	46,076	39.5	52.9	--	--	8%	--
Vehicle Repair***	45,568	57.8	47.9	--	--	14%	--

\* Includes bus terminals and parking garages. Regional Average EUI is for bus terminals.

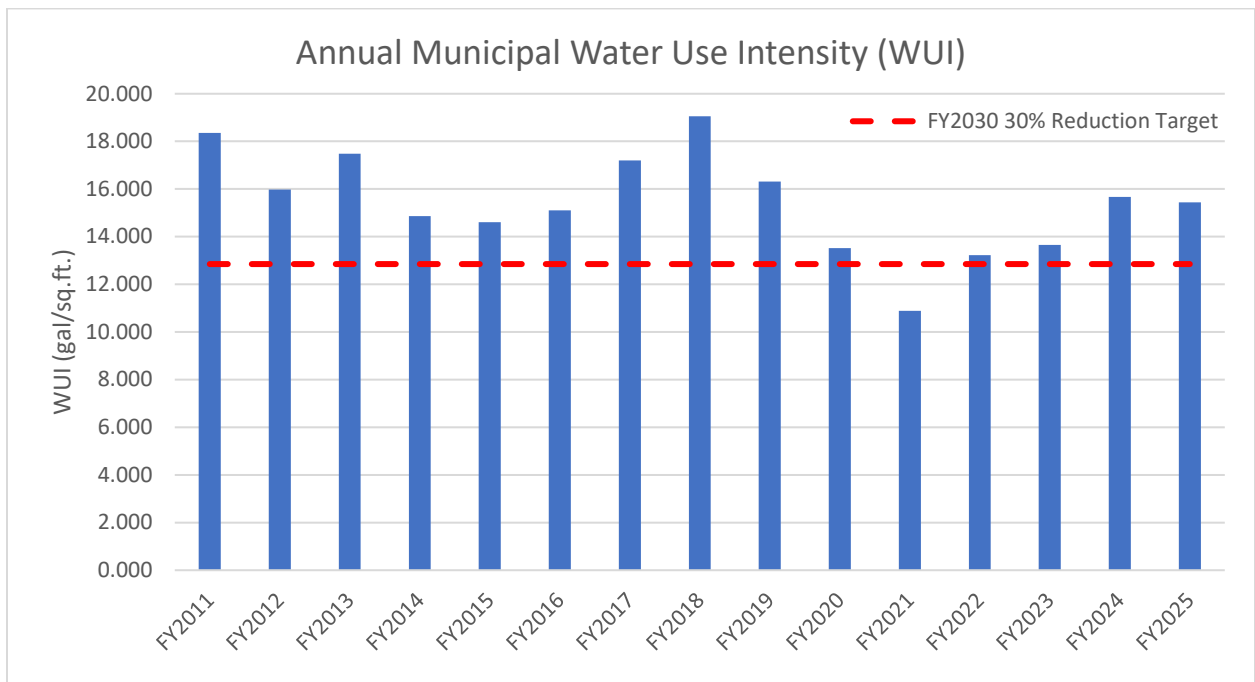
\*\*Includes Facilities Maintenance building, Pupil Transportation building, and CAT Transit Operations Center (EUI is weighted average).

\*\*\*Includes City Yard Warehouse and City Yard Wash Facility (EUI is weighted average).

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**Figure 1:** Annual municipal weather-normalized energy use intensity (EUI) for all City facilities (includes streetlights/traffic signals and vehicle charging stations). Red dashed line notes the FY2030 target of 30% reduction from the baseline year, FY2011.



**Figure 2:** Annual municipal water use intensity (WUI) for all City buildings. Red dashed line notes the FY2030 target of 30% reduction from the baseline year, FY2011. **Note:** Accounts solely associated with irrigation were omitted.

### Financial Impacts

Overall, the City government and City schools spent \$3,786,118 million on energy and water utilities in FY2025. In FY2025, 41% (\$1,553,772) of the total spend was associated with CCS utility accounts. There was a 3% increase in municipal utility spending from last year across all commodities with the largest increase coming from natural gas at 35% and from water and sewer at 9%. During this same period, electricity spending remained steady (Figure 3). This increase in utility costs is associated with increasing utility rates since 2011 (*electricity: 44% increase, natural gas: 6% decrease, water: 122% increase*), and increased usage across all utilities (Figure 4). Natural gas saw a 22% increase in the utility rate in FY2025 compared to FY2024 and an increase in usage primarily driven by higher space heating needs in larger facilities. Water usage increases were primarily driven by the construction of the Station 1 Fire Station as well as a few large water leaks at outdoor park-related sites. In addition to these mentioned factors, the Charlottesville Area Technical Education Center (CATEC) was added to the municipal portfolio in FY2025 which created additional usage and cost compared to FY2024.

### City and School Solar PV Projects

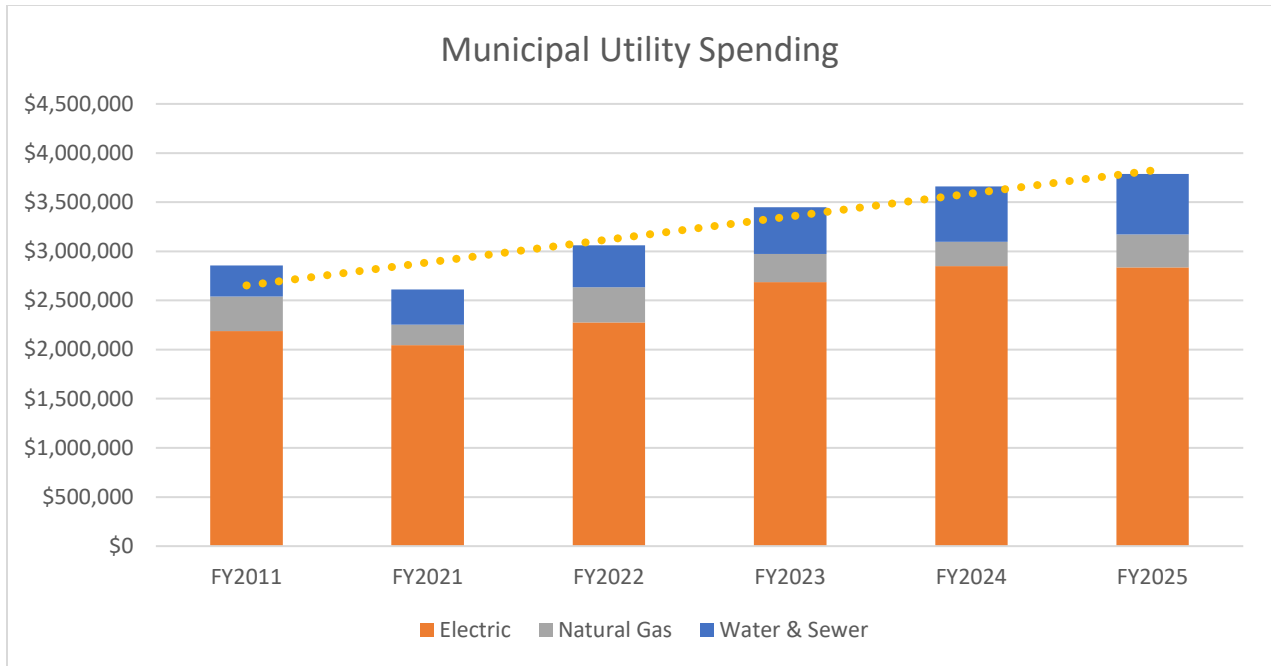
The City allocates funds on an annual basis through the Capital Improvement Process (CIP) to the City Solar fund, which locally funds PV systems on both City Government and School facilities. In FY25, two solar system projects were initiated. A [new 31kW solar system](#) was installed on the newly completed Bypass Fire Station on the Route 250 Bypass. This system is made up of 68 panels and is expected to generate more than 40,000 kW of electricity each year, accounting for more than 40% of the fire station's annual power needs (Image 2).

A second new system is being installed on the roof of CATEC (Charlottesville Area Technical Education Center) over the Summer of 2025. At 262 kW, this will be the largest system in the City's solar portfolio.

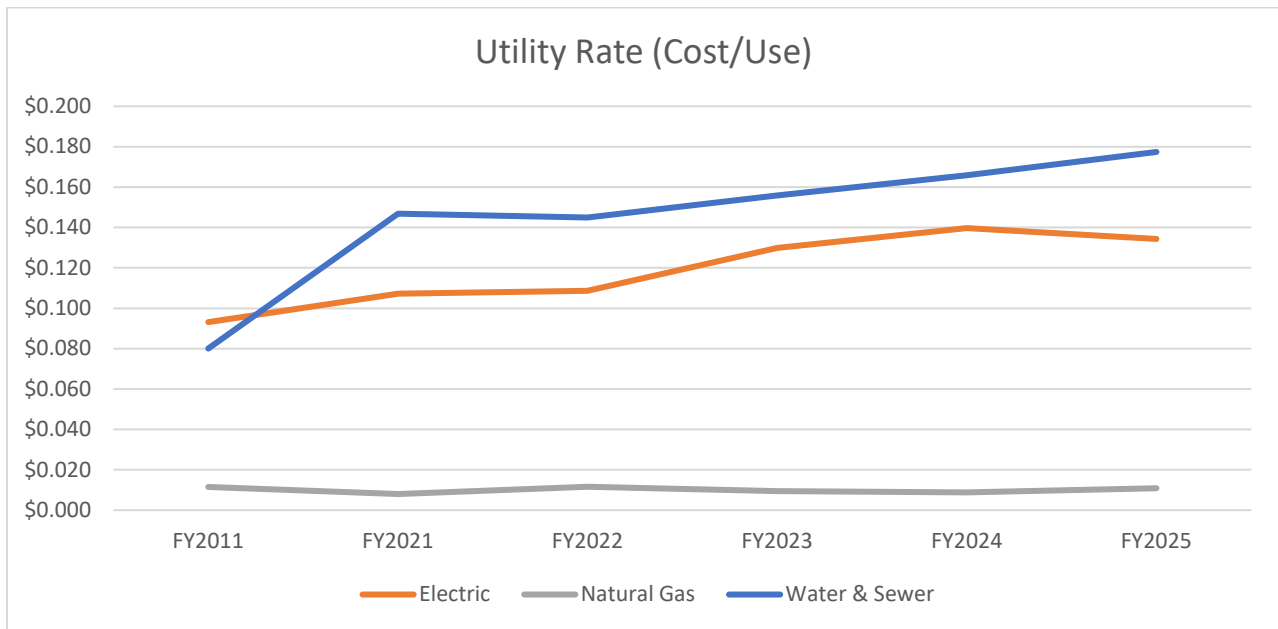


**Image 2:** Ribbon cutting at new solar system at Station 1-Bypass Fire Station.

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**Figure 3:** Municipal utility spending for the past 5 fiscal years and FY2011 (baseline year) for each commodity type across all City facilities (government and schools). The yellow dotted line is the overall trend in spending overtime across all years.

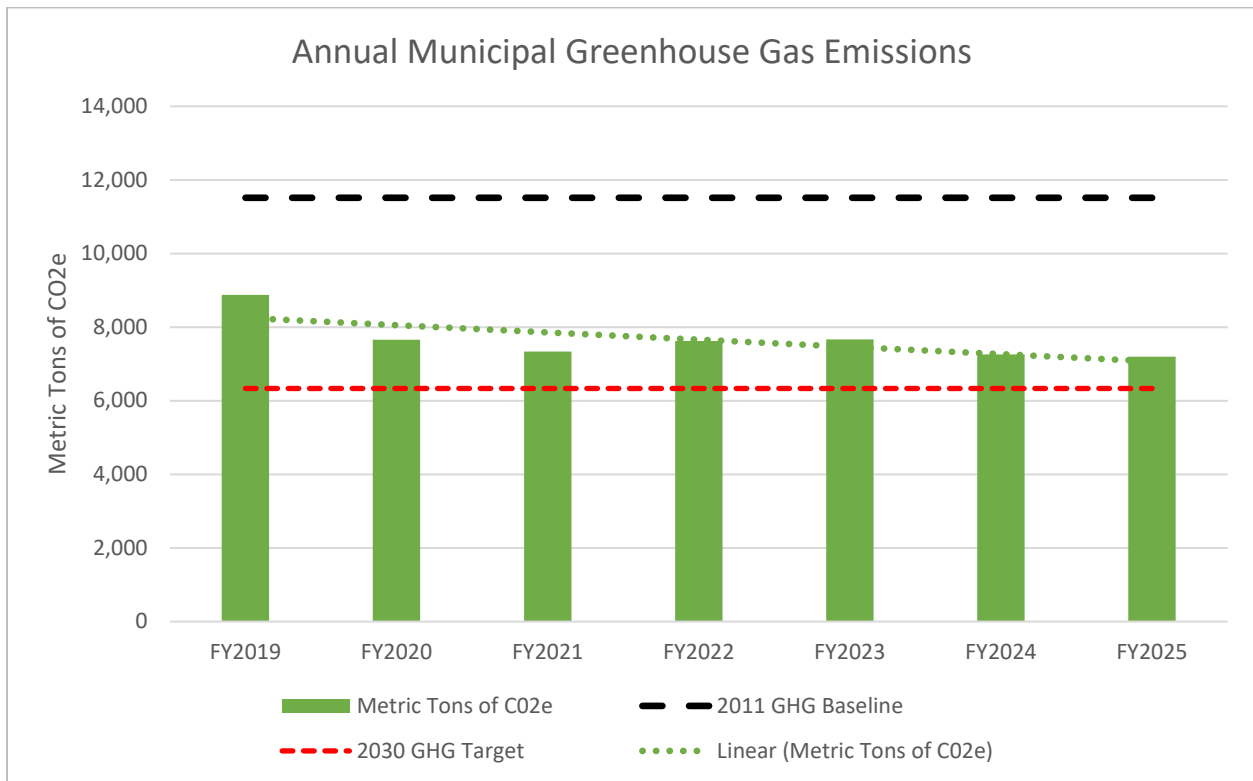


**Figure 4:** The utility rates for the past 5 fiscal years and FY2011 (baseline year) for each commodity type across all municipal facilities. Electricity rate shown is an average across all rate schedules used by municipal facilities.

## City of Charlottesville FY2025 Annual Energy and Water Performance Report

The City started and completed a number of projects in FY2025 that are projected to deliver energy and water efficiency improvements. A list of projects projected to improve the City’s energy and water usage is provided in Appendix 4.

Since 2011, the municipal portfolio has seen some fluctuation but mostly a downward trend in **achieving a 37.5% reduction in greenhouse gas emissions by FY2025** (Figure 5). To reach the City’s goal of 45% reduction by 2030, the portfolio needs to achieve approximately 1.5% reduction in greenhouse gas emissions per year. The reduction achieved to date is in part due to the electric grid generating energy from cleaner sources, so in addition to the portfolio electricity usage being lower than FY2011, the electricity that is used is producing fewer emissions providing greater greenhouse gas reductions.



**Figure 5:** Greenhouse gas emissions for the past 7 fiscal years, FY2011 baseline year, and 2030 GHG Target across all City and school facilities.

The City’s municipal energy and water footprint are generally trending in the right direction to enable the City to meet its 2030 greenhouse gas reduction goals. In addition to the existing portfolio, new facilities built to achieve LEED certification based on high performance building standards (the new Bypass Fire Station and Charlottesville Middle School) were in the construction phase in FY2025 and will contribute to a lower greenhouse gas footprint once put into operation.

## Behavior: Education & Outreach

The EWMP engages municipal building occupants of all ages to empower them to contribute to the efficient performance of the facility. Numerous outlets and media are utilized to educate and communicate with building occupants.

### Highlighted FY2025 Education and Outreach Efforts:

#### Energy and Water Education in CCS Science Pacing Guide

The EWMP continues to develop and incorporate energy and water education into the CCS Science Pacing Guide. These materials are available to all science teachers with the resources necessary to deliver the activities. Additional activities will be added to cover expanded climate-related topics. All activities align with grade relevant Standards of Learning (SOLs) and state science curriculum.

#### Climate Action Kits at Walker Upper Elementary School and all 4<sup>th</sup> Graders

In May 2025, 700 4<sup>th</sup> and 5<sup>th</sup> graders at CCS received Climate Action Activity Kits created by the Community Climate Collaborative (C3) and the Virginia Discovery Museum in partnership with the EWMP (Image 3 & 4). The kits were designed to help students gain a greater understanding of home water and energy use and climate emissions, while connecting families to local energy and water-efficiency solutions. Materials were translated in Spanish, Dari, and Pashto to increase access to this resource. [A special video was developed to introduce the kits to the students and included a special message from Mayor Wade \(LINK\).](#)



**Image 3:** Students from Walker Upper Elementary checking out the contents of the Climate Action Kits.

**Image 4:** Students at Tall Oaks Elementary showing off their LED solar night lights from their Climate Action Kits.

#### CCS STEM Fest

The Office of Sustainability attended the first district-wide STEM Fest in March 2025 at CHS. Energy and water conservation messaging was the main focus with an additional theme of finding and fixing water leaks as part of the Water Conservation Program's Fix a Leak Campaign (Image 5). Students learned the principles of water and the scientific method by exploring how many drops of water fit on a penny, how to measure how much water a leaking faucet is wasting, as well as lots of other energy and water saving information.

**Image 5:** Table and activity at the CCS STEM Fest event at CHS.



## Climate Action Workplan Alignment

The EWMP continues to work towards meeting their energy and water reduction goals to help the City make progress towards larger greenhouse gas emissions reduction goals and Climate Action Plan commitments (Table 2).

The [City’s 2023 Climate Action Plan \(LINK\)](#) presents strategies and key actions to reduce municipal greenhouse gas emissions by switching to lower emissions fuel sources and by reducing energy use through efficiency and conservation measures. Solar power generation has been identified as the primary renewable energy technology to be deployed, and multiple avenues for adding more capacity are being explored. These include internal funding and power purchase agreements (PPAs) to install solar energy systems onsite at facilities as well as consideration of accessing offsite solar through virtual power purchase agreements (VPPAs).

**Table 2:** Energy and Water Management Program alignment with the City’s Climate Action Workplan. Current reporting is referencing the published FY2026 Climate Action Workplan (<https://www.charlottesville.gov/1667/Climate-Action-Work-Plan>).

Program Name	Timing	Notes
Power Purchase Agreement (PPA)	In Progress	Procurement method to access renewable power on City/School buildings. Currently seeking for CHS and CMS.
City & School Solar PV Program	Ongoing	Annual program activity Completed/Initiated in FY2025: Bypass Fire Station and CATEC
LED Streetlight Conversion Project	In Progress	Conversion of all Dominion-owned streetlights to LED; project to take 3-4 years. Pilot completed in Fall 2024. Major roadways started in FY2026.
Green Building Standards for New Construction and Major Renovations	In Progress	Purpose is to establish internal high performance building standards for all municipal projects.
Municipal Energy Improvement Program	In Progress	First project under Master Energy Performance Agreement completed (IT HVAC Replacement). CATEC Solar PV and lighting/water/HVAC upgrades at City Hall, City Hall Annex, Key Rec Center being completed in FY26.
Municipal Building Electrification Screening	FY2025	Initial screening of electrification feasibility for City/School facilities.
Sustainability in the Workplace Program	In Progress	Deploy employee engagement program to encourage sustainability at work and preferences the City’s Energy and Water Management Policy. This is a rebrand and expanded scope of the EWMP’s WE@Work program described in previous annual reports.

# Appendices

# City of Charlottesville FY2025 Annual Energy and Water Performance Report

## Appendix 1: Previous Annual Energy and Water Performance Reports

### City of Charlottesville Reports

#### **FY2024 Energy and Water Performance Report**

- [City of Charlottesville Fiscal Year 2024 Energy and Water Performance Executive Summary \(PDF\)](#)
- [City of Charlottesville Fiscal Year 2024 Energy and Water Performance Report \(PDF\)](#)
- [EnergyCAP City of Charlottesville Fiscal Year 2024 Energy and Water Performance Dashboard \(LINK\)](#)

#### **FY2023 Energy and Water Performance Report**

- [City of Charlottesville Fiscal Year 2023 Energy and Water Performance Executive Summary \(PDF\)](#)
- [City of Charlottesville Fiscal Year 2023 Energy and Water Performance Report \(PDF\)](#)
- [EnergyCAP City of Charlottesville Fiscal Year 2023 Energy and Water Performance Dashboard \(LINK\)](#)

#### **FY2022 Energy and Water Performance Report**

- [City of Charlottesville Fiscal Year 2022 Energy and Water Performance Executive Summary \(PDF\)](#)
- [City of Charlottesville Fiscal Year 2022 Energy and Water Performance Report \(PDF\)](#)
- [EnergyCAP City of Charlottesville Fiscal Year 2022 Energy and Water Performance Dashboard \(LINK\)](#)

#### **FY2021 Energy and Water Performance Report**

- [City of Charlottesville Fiscal Year 2021 Energy and Water Performance Executive Summary \(PDF\)](#)
- [City of Charlottesville Fiscal Year 2021 Energy and Water Performance Report \(PDF\)](#)
- [EnergyCAP City of Charlottesville Fiscal Year 2021 Energy and Water Performance Dashboard \(LINK\)](#)

#### **FY2020 Energy and Water Performance Report**

- [City of Charlottesville Fiscal Year 2020 Energy and Water Performance Executive Summary \(PDF\)](#)
- [City of Charlottesville Fiscal Year 2020 Energy and Water Performance Report \(PDF\)](#)
- [EnergyCAP City of Charlottesville Fiscal Year 2020 Energy and Water Performance Dashboard \(LINK\)](#)

### Charlottesville City School Reports

#### **FY2023**

- [FY2022 Charlottesville City Schools Energy and Water Performance Executive Summary \(PDF\)](#)

## City of Charlottesville FY2025 Annual Energy and Water Performance Report

### FY2022

- [FY2022 Charlottesville City Schools Energy and Water Performance Executive Summary \(PDF\)](#)

### 2020 Charlottesville City Schools Energy and Water Performance Report

- [Charlottesville City Schools Annual Water and Energy 2020 Performance Report and Executive Summary \(PDF\)](#)
- [EnergyCAP Charlottesville City Schools Fiscal Year 2020 Energy and Water Performance Dashboard \(LINK\)](#)

### 2019 Charlottesville City Schools Energy and Water Performance Report

- [Charlottesville City Schools Annual Water and Energy 2019 Performance Report and Executive Summary \(PDF\)](#)
- [EnergyCAP Charlottesville City Schools Fiscal Year 2019 Energy and Water Performance Dashboard \(LINK\)](#)

## City of Charlottesville FY2025 Annual Energy and Water Performance Report

### Appendix 2: Building groups and specific buildings referenced in the report.

#### Courthouses

- Circuit Court
- Juvenile & Domestic Relations Court

#### Fire Stations

- Bypass Firehouse
- Central Fire House
- Fontaine Fire Station

#### Libraries

- Central Library
- Gordan Avenue Library

#### Offices

- CAFF Office (414 4<sup>th</sup> St.)
- City Hall Annex
- City Hall Complex
- Community Attention Main Office (909 E Market St.)
- DHS Administration (907 E. Jefferson St.)
- Preston-Morris Building
- Promise House (708 Page St.)
- Public Works Administration
- Wheeler Building

#### Parks

- Azalea Park
- Belmont Park
- City Market
- Court Square Park
- Downtown Mall Fountains
- Fifeville Park

- Forest Hill Park
- Greenleaf Park
- Jordan Park
- Maplewood Cemetery
- Market St. Park
- McGuffey Park
- McIntire Park
- Melbourne Road
- Northeast Park
- Oakwood Cemetery
- Pen Park
- PVCC Field
- Quarry Rd. Baseball Field
- Rives Park
- Tonsler Park
- Various Landscape Accounts
- Washington Park Center, Grounds, and Pool

#### Recreation & Sports

- Carver Rec Center
- Crow Pool/Center
- Key Recreation Center
- McIntire Golf Course
- Meadowcreek Clubhouse and Golf Course
- Onesty Pool
- Smith Aquatic Center

#### Schools

- Charlottesville Area Technical Education Center (CATEC)

- Charlottesville Middle School (formerly Buford)
- Charlottesville High School
- Greenbrier Elementary
- Jackson-Via Elementary
- Lugo-McGinness Academy
- Summit Elementary (formerly Clark)
- Sunrise Elementary (formerly Burnley-Moran)
- Tall Oaks Elementary (formerly Johnson)
- Trailblazer Elementary (formerly Venable)
- Trailblazer Elementary Annex (formerly Venable)
- Walker Upper Elementary

#### Streetlights & Traffic Signals

- Multiple Locations

#### Transit & Parking

- Downtown Transit Station
- Market St. Parking Garage

#### Vehicle Charging

- Police Vehicle Station
- Public Works Station

#### Warehouse & Fleet Mixed Use

- City Yard Warehouse
- City Yard Wash Facility
- Facilities Maintenance
- Public Transportation
- Transit Operation Center

# City of Charlottesville FY2025 Annual Energy and Water Performance Report

## Appendix 3: EnergyCAP Dashboard Info & Link

### [EnergyCAP FY2025 City Performance Report Dashboard Link](#)

(Try opening dashboard using Chrome web browser for best results)

This dashboard is an interactive option for viewing the data put forth in this report using the EWMP utility tracking software, EnergyCAP. The figures in this dashboard are all slight variations of the data provided in this report. The data in this dashboard are for all City facilities; however, you can further filter the data specifically for one facility using the “Filter by building or building group” feature in the upper right. Start typing the name of the facility or building group (from Appendix 2) and select the correct name from the auto-generated list and the data will update with your new filtered view. Many of the figures and graphs offer the ability to interact including hovering over the figures to get detailed information and changing time views of the data using the slide bar above or below a graph. Most data presented in these figures are static and are focused on FY2025; however, a few are continually updated with data over time but still include FY2025 numbers and some show calendar year views, not fiscal year.

Any questions about this data or dashboard can be directed to [EnergyWaterTeam@charlottesville.gov](mailto:EnergyWaterTeam@charlottesville.gov).

**FY25 City Performance Dashboard**

Topmost place  Site group

#### Introduction

The City of Charlottesville's Energy and Water Management Program (EWMP) has continued to monitor and manage energy and water usage of the City's municipal sites. The EWMP is focused on supporting the Charlottesville community-wide climate action goals (achieving a 45% reduction in greenhouse gas emissions by 2030 and carbon neutrality by 2050) by taking necessary actions that improve efficiency, reduce the reliance on fossil fuels, and decrease greenhouse gas emissions. The EWMP continues to track the energy and water usage at these facilities to gauge performance, coordinates with the City's Facilities Maintenance and Facilities Development teams on building operations and improvement projects, works with staff to develop strategies that expand the renewable energy footprint of buildings, and engages with staff, faculty, and students to help lessen their impact on energy and water usage.

Building on the comprehensive performance baseline in the FY2020 Annual Energy and Water Performance Report (key links provided in the Report's Appendix 1), this report outlines actions and the energy and water performance of over 70 municipal sites in the 2025 fiscal year (July 2024 – June 2025). The City's performance was reviewed on an account, building, and building group level, where building groups are categories of similar use types of the City's municipal facilities such as schools, fire stations, and offices See a list of all the City's facilities and building groups included in this report in Appendix 2.

This dashboard provides an overview of the data presented in the City of Charlottesville Annual Energy and Water Performance Report focusing on the 2025 fiscal year. You can interact with this dashboard by hovering over values, changing view ranges, and use the filter window in the upper right to filter down by a specific building or building group. The majority of the data is set to look at FY2025; however when they are titled as annual then they are set to a calendar year view.

[Check out all the Energy and Water Management Performance Reports Here](#)

#### 2025 City Utility Spending by Commodity (Calendar Year)

Commodity	Spending (Approximate)
Electric	\$1.8M
Water and Sewer	\$0.8M
Natural Gas	\$0.4M

Jan 2025–Dec 2025

#### Annual City Utility Spending (Calendar Year)

Year	Electric	Natural Gas	Water and Sewer
2016	\$1.5M	\$0.2M	\$0.3M
2017	\$1.6M	\$0.2M	\$0.3M
2018	\$1.7M	\$0.2M	\$0.3M
2019	\$1.8M	\$0.2M	\$0.3M
2020	\$1.7M	\$0.2M	\$0.3M
2021	\$1.8M	\$0.2M	\$0.3M
2022	\$1.9M	\$0.2M	\$0.3M
2023	\$2.0M	\$0.2M	\$0.3M
2024	\$2.1M	\$0.2M	\$0.3M
2025	\$2.2M	\$0.2M	\$0.3M

2016–2025 (Calendarized Data)

## City of Charlottesville FY2025 Annual Energy and Water Performance Report

### Appendix 4: Energy and Water FY2025 Project List

*Note: This is a list of projects designed to deliver specific energy and water performance improvements. It is not an exhaustive list of school and City facility capital projects in FY2025.*

#### **Charlottesville City School Facilities**

- CATEC – Began installation of 262.9 kW PV solar system. Completion targeted for FY26.
- Charlottesville High School
  - 18 variable frequency drives (VFDs) replaced
  - Phase 2 roof replacement completed during FY25. Phase 3 targeted to be completed in FY26.
  - Replaced two existing generators with two 400kW generators
  - Continued to replace lighting with LEDs as fluorescent lighting burns out in the media center.
- Charlottesville Middle School
  - Renovation of Charlottesville Middle School. Phase 1 completion targeted for FY26.
- Greenbrier – Water source heat pumps replaced
- Sunrise Elementary - Water heater replaced
- Jackson-Via Elementary – Cooling Tower replaced

#### **City of Charlottesville Facilities**

- Bypass Fire Station (Station 1)
  - Facility construction completed.
  - Installation of 31 kW rooftop PV system completed.
- J&DR – Water source heat pump replacement
- Market Street Parking Garage – Chiller replacement

#### **Other**

- Streetlights – Initiated conversion to LEDs. Project will continue for several additional years.