

2026 Municipal Electricity Source Report

for the 2025 Calendar Year



Mayor Steven T. Noble

This Municipal Electricity Source Report reviews the electric sources of the City of Kingston’s municipal accounts for 2025.¹

This report includes:

- An introduction to Kingston’s municipal electricity demand and renewable energy goals
- Renewable energy sourcing strategies employed by the City of Kingston
- Municipal account electricity sources and renewable energy programs

Introduction

Municipal properties in the City of Kingston use significant quantities of electricity to operate and serve the Kingston community. This report tracks the sources and procurement methods of electricity as Kingston moves to transition from fossil fuels to 100% renewable energy.

City of Kingston Municipal Electricity Use 2025

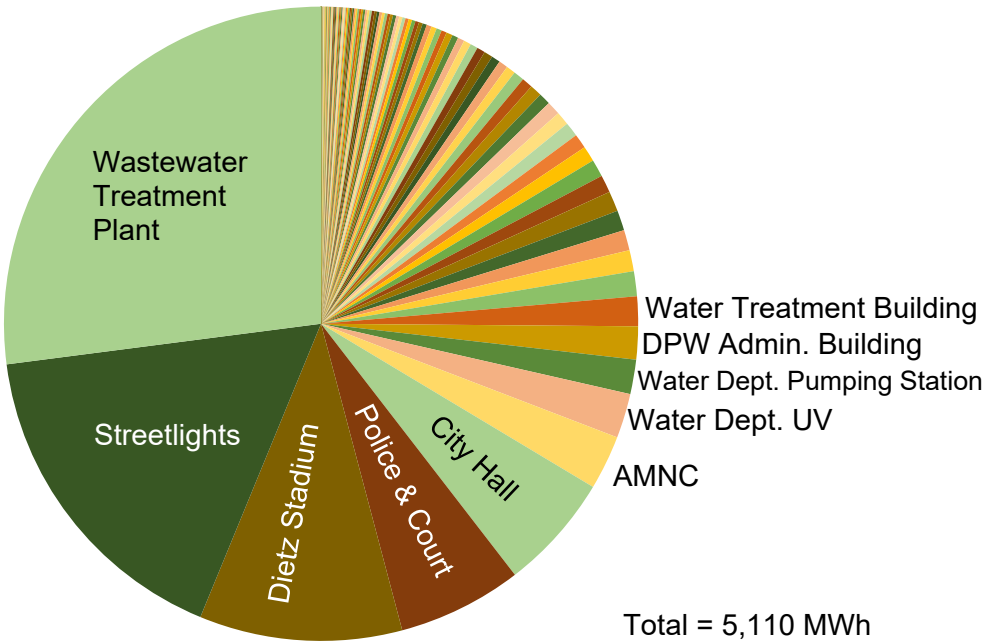


Figure 1. City of Kingston municipal electricity usage in 2025. The ten highest-demand accounts are labeled.

¹ All utility bills with a start date in 2025 were used to calculate annual electric consumption for this report.

In 2025, the City of Kingston consumed a total of 5,110 MWh of electricity across 127 utility accounts. Municipal annual electric use in 2025 was ~3% of the electricity consumed citywide. In 2025, the cost for supply and delivery of electricity to municipal accounts was \$987,933.90. 36 accounts accrued demand charges due to high instantaneous electric demand or high usage. More than 50% of municipal electric consumption was for three accounts: the municipal wastewater treatment plant, the city's street lighting infrastructure, and Dietz Stadium. The ten highest consuming properties accounted for three quarters of municipal electricity consumption.

Electricity in the City of Kingston is delivered by Central Hudson and they are responsible for maintaining the distribution network of utility lines and poles. New York's deregulated power market gives Kingston the ability to choose their electricity supplier independent of the utility that delivers the electricity. This lets Kingston purchase electricity from sources that better align with the City's goal to achieve 100% renewable electricity in municipal operations.

Renewable Energy Sourcing Strategies

The City of Kingston currently accesses and supports renewable energy through a variety of mechanisms, including:

1. **Municipal on-site solar installation:** On-site solar panel installation on municipal property directly increases renewable energy production and use by the City of Kingston. This strategy requires upfront capital investment but saves money over time and results in an increase in renewable energy production and consumption within the city.
2. **Renewable Energy Certificates (RECs):** RECs serve as proof that a certain amount of electricity has been generated from renewable sources such as wind or solar and can be bought and sold on a national or state power market. RECs can be bundled with electricity procured through a power purchase agreement (PPA) or unbundled and purchased independent of electricity. By purchasing RECs, Kingston can claim ownership of renewable energy, even if the electricity was produced thousands of miles away.
3. **Community solar:** Through community solar programs or community distributed generation (CDG) Kingston subscribes to local shared solar projects and earns credits. These credits discount electric utility bills from Central Hudson. Community solar enables the municipality to participate in renewable energy production without having to directly own or install solar panels. Unlike RECs, community solar credits do not correlate to the purchase of renewable electricity and cannot be claimed as renewable energy for a given utility account.
4. **Passively through the grid mix:** The electricity accessible to Kingston through Central Hudson was approximately 16% renewable energy and 40% zero-emissions in 2024, the most recent year with available data.² As more renewable energy projects come online and the state pursues the CLCPA goal of 70% renewable energy by 2030, the proportion of renewable energy delivered by Central Hudson will rise.

Together, these strategies allow the City of Kingston to access renewable energy and achieve its clean energy and climate goals.

² <https://www.cenhud.com/globalassets/pdf/about-us/environmental-responsibility/environmental-disclosure-labels/edplabel2025.pdf>

2025 Municipal Electricity Sources

Kingston's electricity sourcing strategy is focused on advancing renewable energy initiatives and fostering strategic partnerships to support sustainability goals. Below, we review electricity account affiliation with renewable sourcing strategies for the 2025 calendar year.

Affiliation	# of Accounts	2025 kWh consumed
Municipal Solar*	2	62,400
REC	70	2,459,902
REC & Community Solar	30	2,015,037
Community Solar (CDG)	6	41,043
Grid Electricity	19	531,648
Total	127	5,110,030

*Table 2. City of Kingston municipal account and electricity consumption program affiliations for calendar year 2025. * Municipal solar accounts were also in contract with Constellation Energy for RECs when electricity was purchased from the grid.*

Municipal solar generation continues to play a small role in the City's energy mix in 2025. A 49-kW system at the Andy Murphy Neighborhood Center (AMNC) generated 54.1 MWh of electricity in 2025. Two smaller solar arrays at the Forsyth Nature Center Greenhouse had a total 6 kW capacity.³ In total, the electricity produced from active municipal solar arrays covered ~1% of municipal electricity consumption in 2025. These arrays represent the start of a larger build-out of municipal electricity generation. Two additional solar arrays were installed on city property in 2025: a 50-kW system was installed on the Albert Brown Community Center and a 20-kW system on the Andretta Pool building. Both arrays are expected to be activated in mid-2026.

The City of Kingston also had a power purchase agreement with Constellation Energy, through the NewMix® REC program for 99 accounts.⁴ This program supplied electricity 100% sourced from wind power facilities in Texas. Approximately 78% of the city's accounts and total electricity consumption were linked with REC purchases. Two contracts covered municipal accounts in 2025. The first contract for 35 accounts ran from 11/24-11/25 and electricity was fixed at 0.09681 \$/kWh. The second contract for 102 accounts started on 11/25 and will expire on 10/26. Electricity for this contract is fixed at 0.09680 \$/kWh.

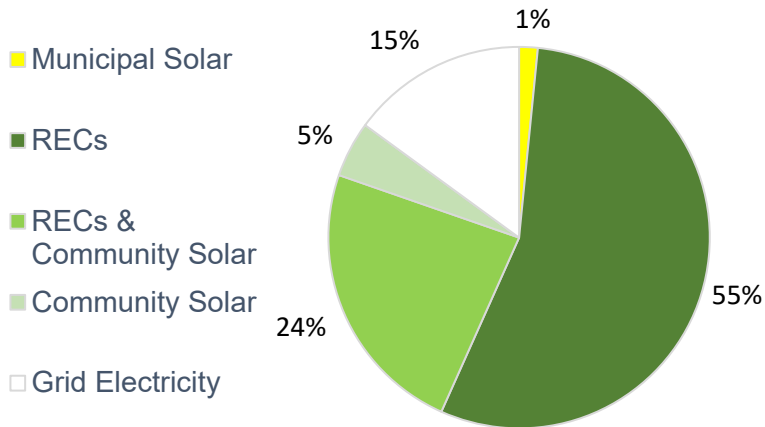
In addition to on-site solar installation and REC purchases, 36 utility accounts were linked to community solar through contracts signed with Community Energy, SunCommon, and WKNY. Engagement with community solar ensured that the city benefited from and promoted locally sourced renewable energy.

A smaller number of accounts were not affiliated with any renewable sourcing strategy. The 19 accounts with no affiliation comprised 10% of the total kWh consumed by the municipality in 2025. The average standard rate for electricity purchased through Central Hudson in 2025 was 0.11 \$/kWh.

³ The annual quantity of electricity generated at the Forsyth Nature Center Greenhouse is not tracked. Assuming standard generation rates for the Hudson Valley, these panels generate ~8.3 MWh per year.

⁴ Contract terms for REC purchases do not coincide with the calendar year. Any account that was affiliated with a REC purchase in 2025 was counted in this report.

2025 Account Affiliation



2025 kWh Affiliation

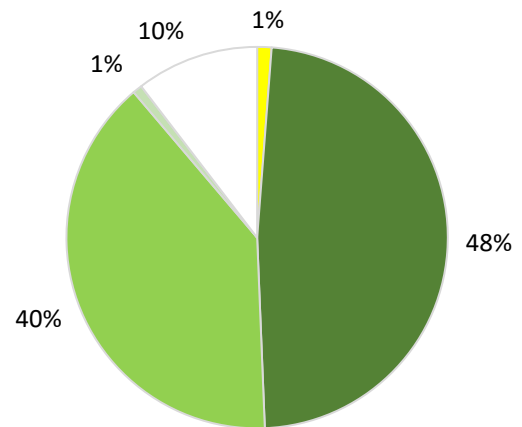


Figure 2. City of Kingston utility account and electricity affiliations.

Conclusions

As the City of Kingston takes proactive steps to transition to renewable, non GHG emitting, energy sources, it plays a vital role in advancing the region and state's broader efforts to decarbonize the power sector. In 2025, 89% of the City's electricity sourced from the grid, on-site solar, and RECs was zero emissions. This represents a 16% improvement over electricity sources in 2023. Total electric consumption only emitted ~145 tons of CO₂e, equivalent to 34 cars driven for a year⁵. If the city did not actively pursue the production and purchase of renewable and zero-emissions energy, it would have emitted ~1,398 metric tons of CO₂e from electricity use in 2025. By continuing to pursue renewable energy programs, such as RECs, Community Solar, and on-site solar installation, the City can not only reduce its environmental impact but also support the growth of renewable energy capacity locally and nationally.

⁵ Using emissions estimates for fuel sources from <https://www.eia.gov/tools/faqs/faq.php?id=74&t=11>

2025 Municipal kWh Renewable Electricity

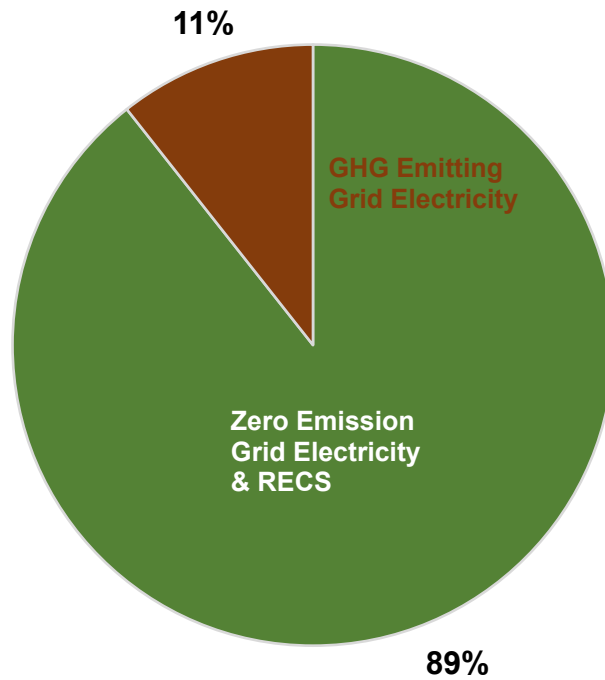


Figure 3. Portion of City of Kingston electricity sourced from GHG emitting and zero-emissions sources.

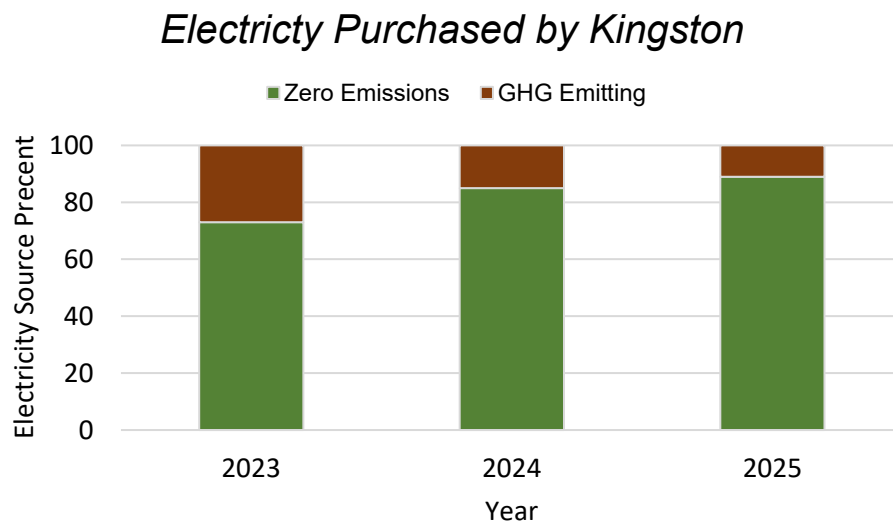


Figure 4. Changes in City of Kingston electricity source from 2023-25