



Benchmarking Report

Calendar Year 2025

Village Facilities Included:

Stanley H. Kellerhouse Municipal Building
Harmon Firehouse
Grand Street Firehouse
Washington Engine Firehouse
Dept. of Public Works Garage

Background

In August 2018, the Village Board of Trustees adopted an [Energy Benchmarking Policy](#) which requires the collecting, reporting, and sharing of building energy data on a regular basis. This allows municipal officials and the public to understand the energy performance of municipal buildings relative to similar buildings nationwide.

The following Village-owned buildings are covered by this policy:

1. Stanley H. Kellerhouse Municipal Building
2. Harmon Engine Firehouse
3. Grand Street Firehouse
4. Washington Engine Firehouse
5. Department of Public Works Garage

Each year, the Manager's Office is responsible for entering the total energy consumed by each covered building into an online portfolio, as well as creating a report containing summary statistics on annual energy consumption. These data points are available to the public on the Village website at crotononhudson-ny.gov/benchmarking.

Methodology

The Village monitors and records its energy usage in three distinct categories:

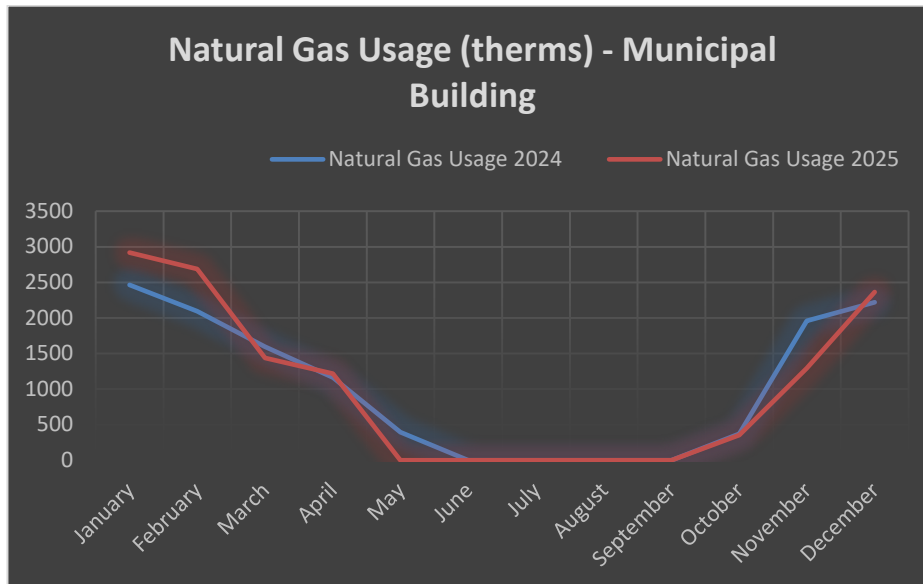
1. **Natural Gas (therms):** This refers to the consumption of natural gas, measured in units called "therms." A therm is a unit of heat energy equal to 100,000 British thermal units (BTU), commonly used for billing purposes by gas companies.
2. **Electric (kWh):** This indicates the usage of electricity, measured in kilowatt-hours (kWh). A kilowatt-hour is a unit of electrical energy equivalent to one kilowatt (1 kW) of power expended for one hour.
3. **Oil (Gallons):** This represents the consumption of oil. It refers to the volume of oil consumed for heating purposes.

By tracking these three categories of energy consumption, the Village can monitor its overall energy usage, identify trends, analyze patterns, and potentially implement measures to improve energy efficiency or reduce consumption in specific areas.

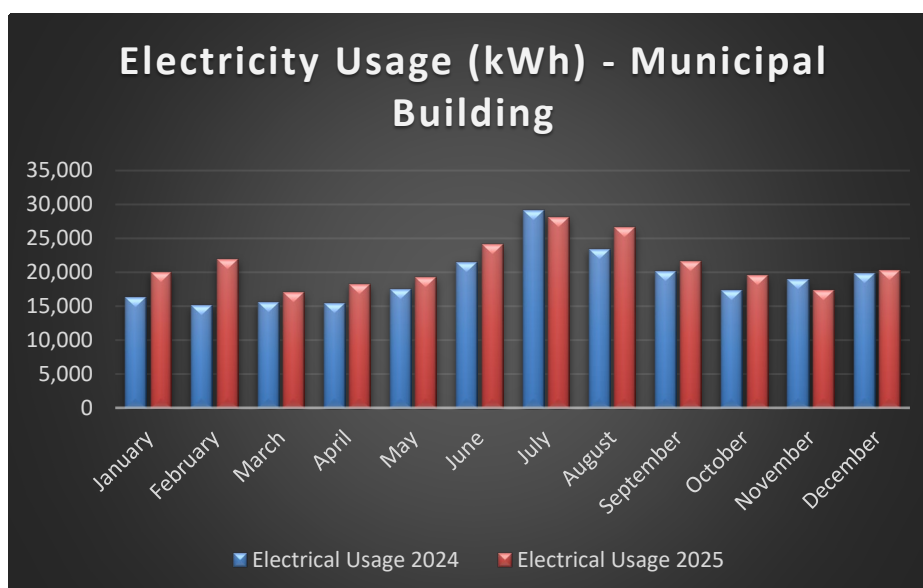
The usage data is collected from monthly billing statements provided by utility companies or service providers for natural gas, electricity, and oil consumption. Each month, the Village receives detailed invoices that outline the amount of energy consumed within the billing period, typically measured in therms for natural gas, kilowatt-hours (kWh) for electricity, and gallons for oil.

Stanley H. Kellerhouse Municipal Building

The use of natural gas at the Municipal Building was essentially flat between 2024 and 2025. Natural gas is primarily used for heat at the building.

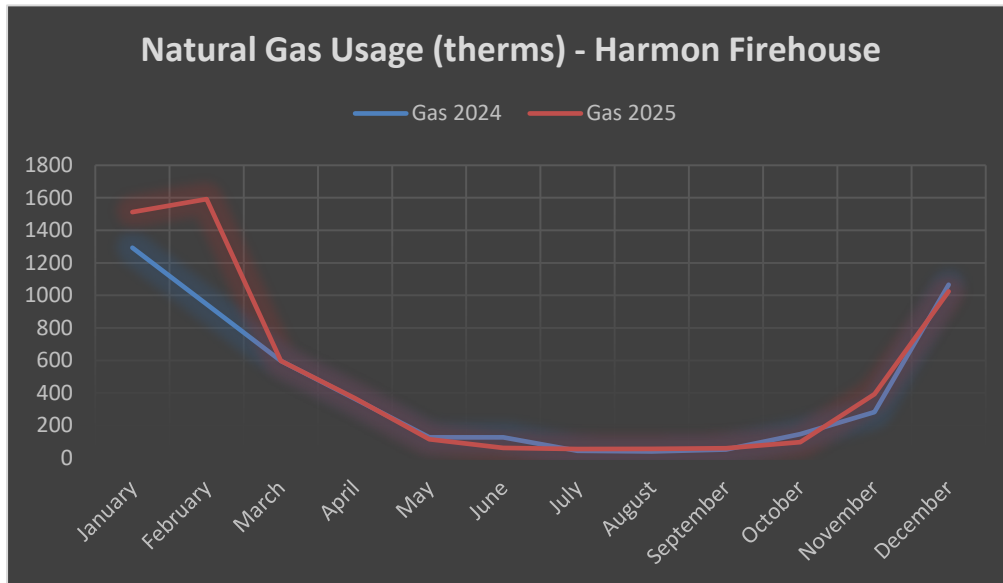


In comparing electricity usage between 2024 and 2025, an increase of 10.4% in usage was seen in 2025. Both years exhibited peak usage during the summer months, reflecting typical patterns driven by increased cooling needs. The Village continues to purchase electric vehicles, which increases the use of electricity at the building. Some areas of the building have also begun using electric heat pump systems for both heating and cooling.

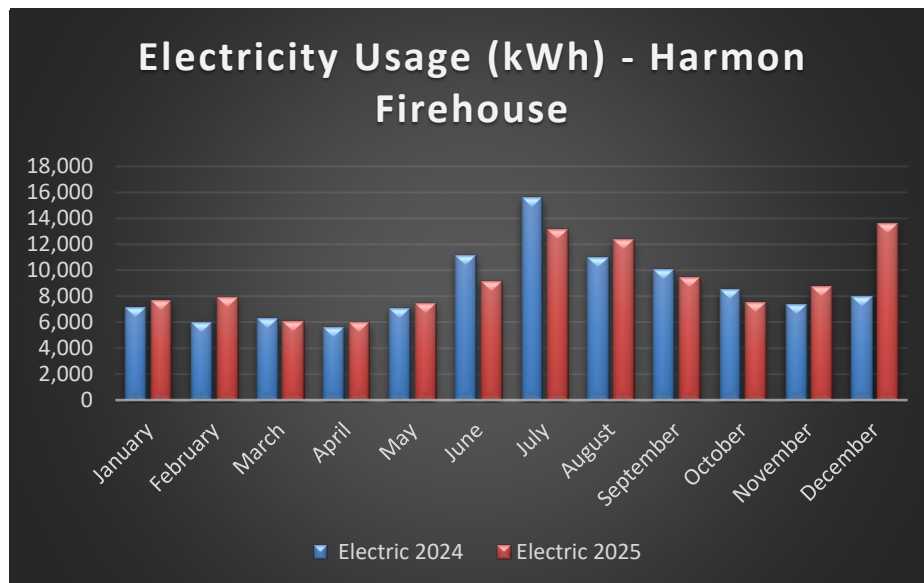


Harmon Engine Firehouse

There is a similarity in natural gas usage at the Harmon Firehouse from 2024 to 2025 with an increase in usage during the winter months. Construction of the addition at the firehouse began in 2024 and the work ongoing in 2025 explains the approximately 16.7% increase in usage.

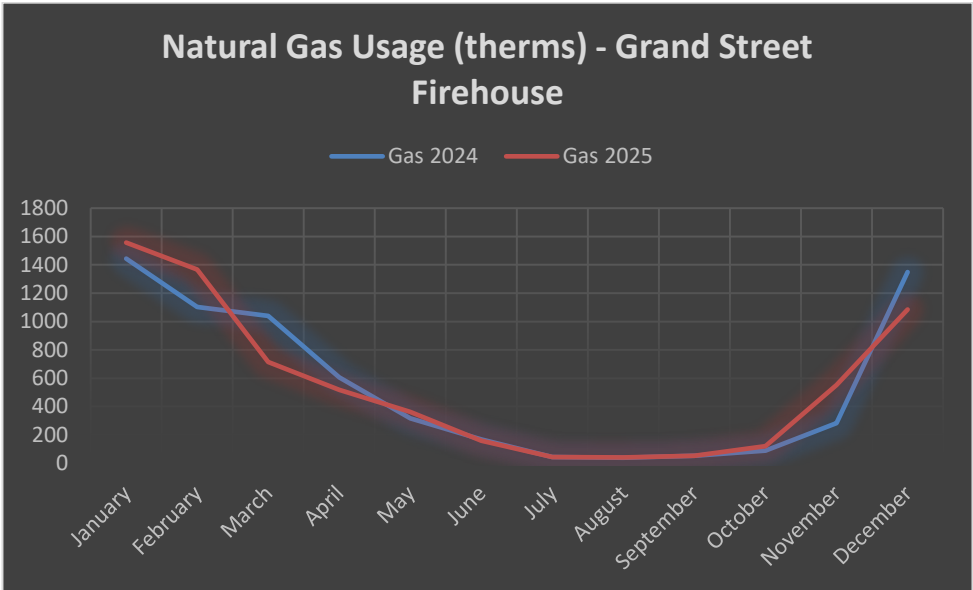


Overall, there is a slight increase of 5% in electric usage from 2024 to 2025 at the Harmon Firehouse. The heating systems in the EMS addition to the firehouse are powered by electric heat pumps, which explains the large increase in December 2025 compared to December 2024.

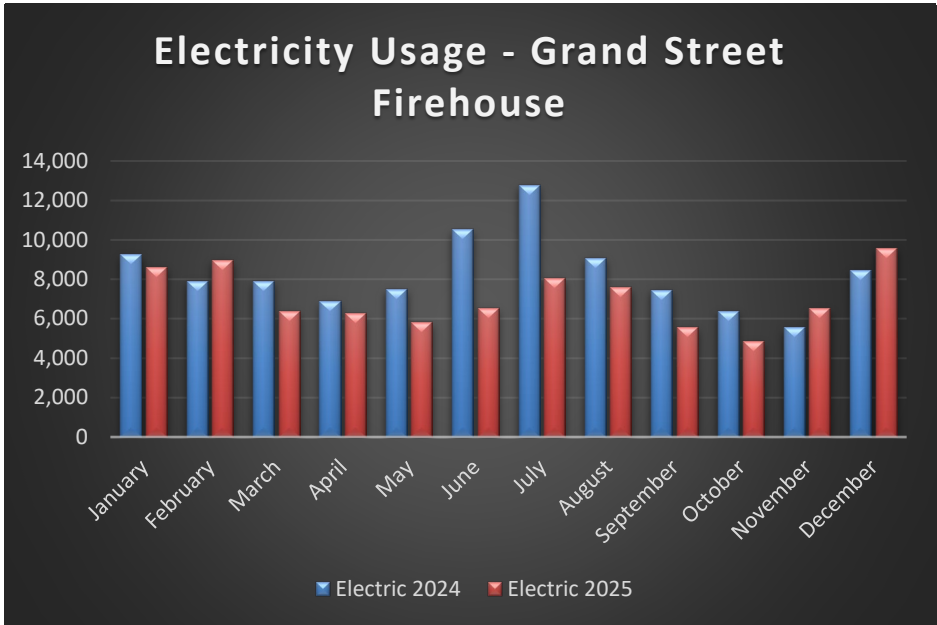


Grand Street Firehouse

Grand Street Firehouse saw a 0.5% increase in natural gas usage from 2024 to 2025. Small fluctuations in usage will occur from year-to-year due to the nature of the usage at these buildings.

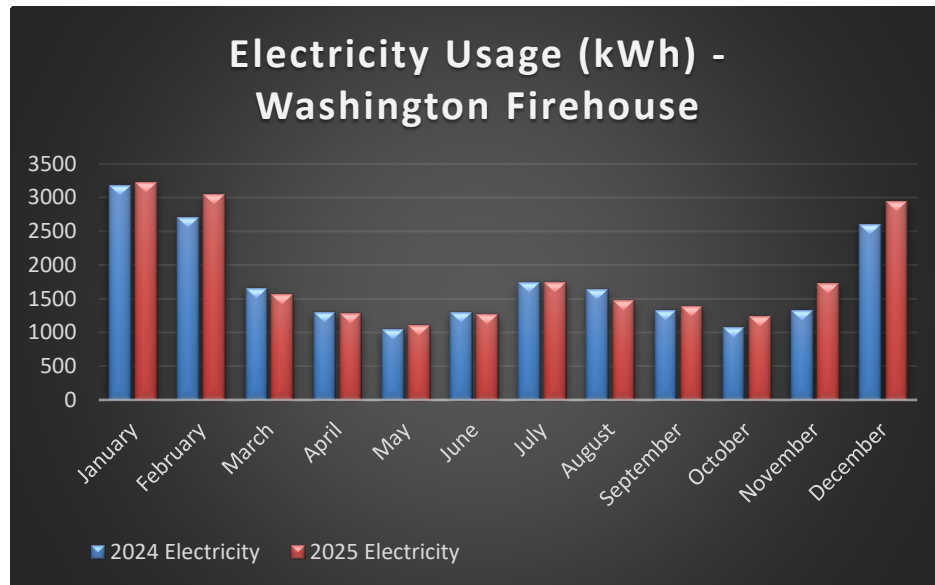


Grand Street Firehouse saw a 15% decrease in electricity usage from 2024 to 2025. Electricity usage during the summer months was considerably higher in summer 2024 compared to summer 2025.

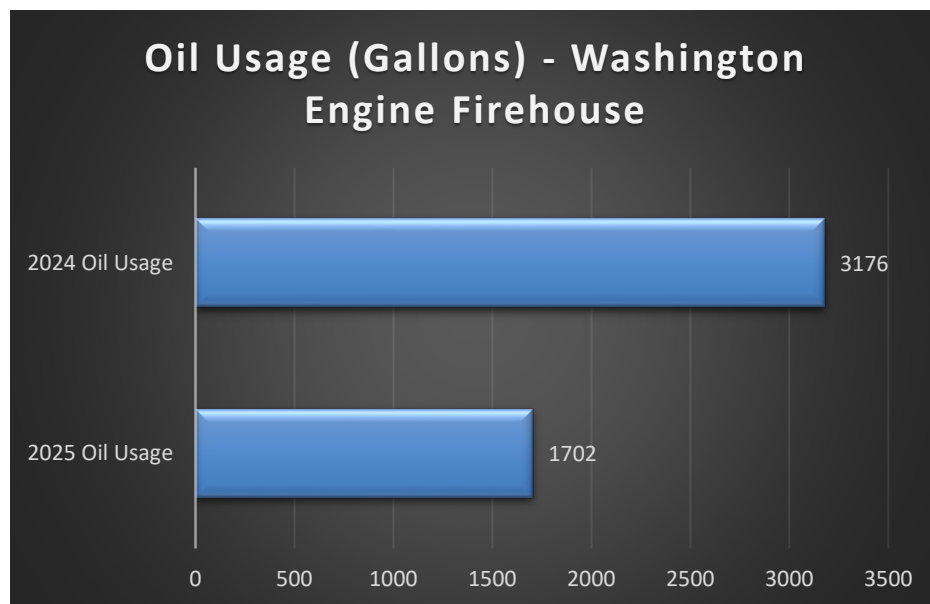


Washington Engine Firehouse

Washington Engine Firehouse saw a 5.2% increase in its electricity usage from 2024 to 2025. This increase is likely the result of switching to heat pumps for heating portions of the building during the winter. Usage during the summer has remained roughly the same from 2024 to 2025.

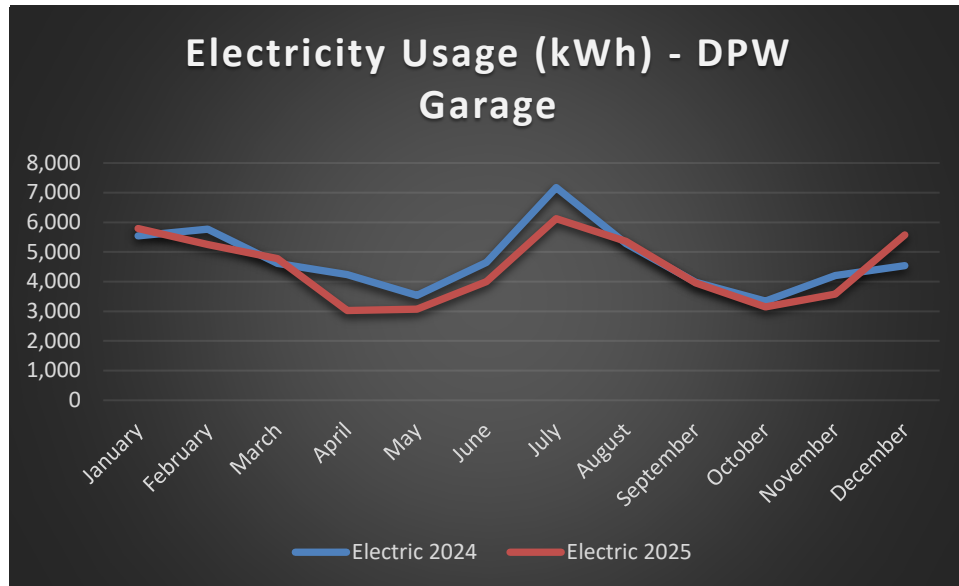


Washington Engine Firehouse saw a decrease in fuel oil usage from 2024 to 2025. The existing oil-fed boiler reached the end of its useful life in 2025 and has since been replaced with a new natural gas-fed boiler.

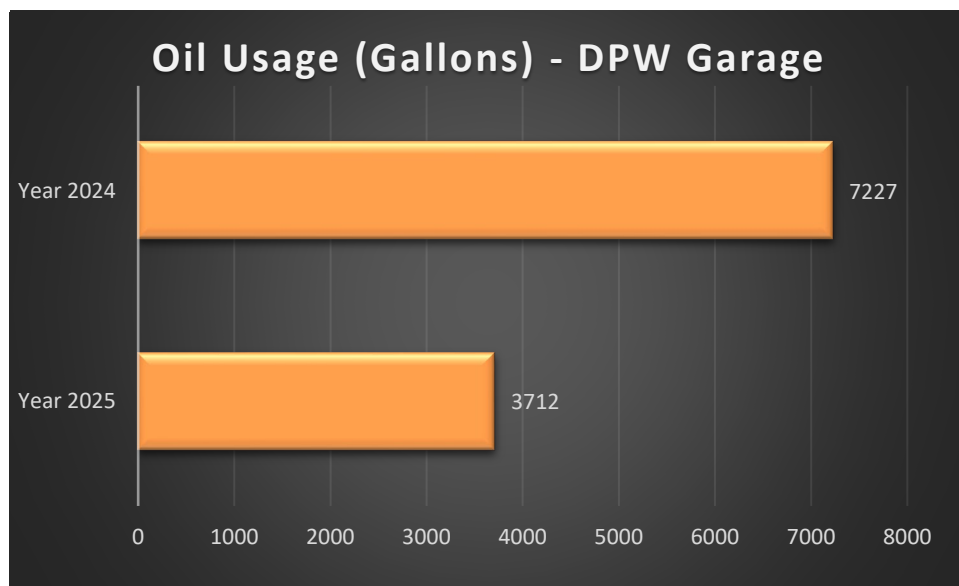


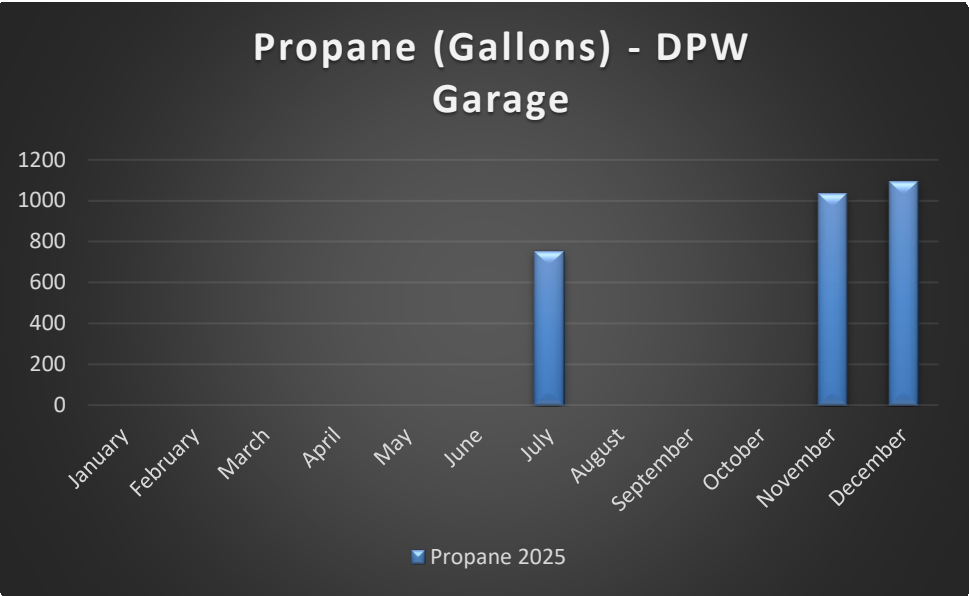
Department of Public Works Garage

The Department of Public Works saw a 5.7% decrease in electricity usage at the DPW Garage.



Oil usage at DPW Garage is significantly lower compared to 2024 as a new boiler was installed at the garage that operates on propane.





Benchmarking Program - 2025

	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
Natural Gas (therms)												
Municipal Building	2918	2689	1438	1218	-	-	-	-	-	355	1294	2364
Grand St. Firehouse	1557	1366	715	518	362	158	44	41	54	120	552	1084
Harmon Firehouse	1512	1592	598	367	115	62	55	56	59	98	393	1025
Washington Engine Firehouse	21	22	21	18	19	22	19	18	21	19	18	21
Electric (kWH)												
Municipal Building	20080	21888	17026	18212	19326	24079	28148	26594	21665	19573	17302	20286
Grand St. Firehouse	8604	8980	6380	6252	5804	6540	8072	7564	5574	4850	6518	9565
Harmon Firehouse	7666	7906	6045	5975	7441	9144	13180	12398	9423	7543	8739	13610
Washington Engine Firehouse	3234	3046	1569	1287	1110	1274	1738	1475	1382	1236	1730	2954
DPW Garage	5788	5248	4773	3027	3071	4005	6124	5357	3956	3151	3579	5578
Oil (units)												
DPW Garage	1066	2143	503	-	-	-	-	-	-	-	-	-
Washington Engine Firehouse	851	351	-	-	-	-	-	-	-	-	-	500
Propane (gals)												
DPW Garage	-	-	-	-	-	-	754	-	-	-	1035	1097

Benchmarking Program - 2024

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24
Natural Gas (therms)												
Municipal Building	2464	2093	1594	1165	396	-	-	-	-	374	1960	2221
Grand St. Firehouse	1444	1104	1040	607	318	169	44	39	52	88	283	1349
Harmon Firehouse	1293	945	598	363	126	126	44	40	52	147	283	1065
Washington Engine Firehouse	24	21	21	21	18	20	21	18	4	-	16	23
Electric (kWH)												
Municipal Building	16340	15142	15621	15479	17467	21507	29105	23429	20154	17382	18915	19792
Grand St. Firehouse	9254	7917	7897	6878	7486	10527	12760	9071	7460	6381	5537	8455
Harmon Firehouse	7186	5993	6290	5603	7070	11182	15584	11012	10032	8548	7390	7960
Washington Engine Firehouse	3190	2711	1659	1303	1043	1306	1747	1634	1336	1072	1330	2609
DPW Garage	5540	5770	4617	4243	3532	4651	7173	5285	3976	3345	4202	4542
Oil (units)												
DPW Garage	1501	2093	425	627	502	-	-	-	-	410	230	1439
Washington Engine Firehouse	413	180	-	-	504	-	-	-	-	-	400	-