AXIOM ENERGY GROUP

Facility: Multi-Family Building

Location: South Milwaukee, WI

Application: Domestic Hot Water

Equipment Installed: 1 mCHP System

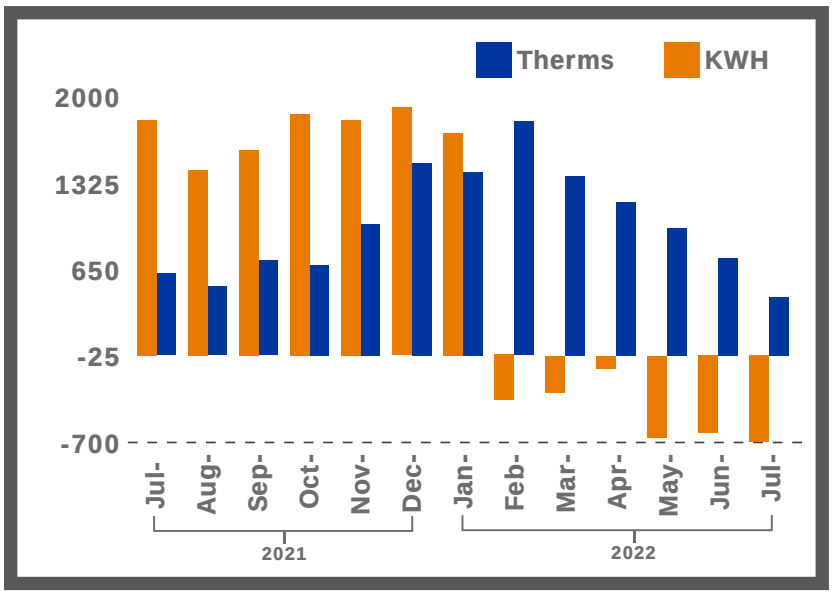
PROJECT PROFILE

Project Description:

One 4.4kW mCHP system is installed at a 32-unit multi-family apartment building in South Milwaukee, WI. The system heats the centralized water supplied to each apartment and the community laundry room.

Currently the system is running approximately 20 hours per day at an average of 2900 rpm's. The engine automatically slows down when the demand for hot water is low and speeds up during peak times.

In the six months since start-up (January 2022 - July 2022), the microCHP unit has generated 11,639 kilowatts of electricity. That is more electricity than the building's common areas consume. This excess generation spins the utility meter backwards showing a surplus on the monthly bill. The system has also reduced the natural gas consumption by offsetting the existing boiler that was previously used for domestic hot water production.



KEY BENEFITS

- Electric consumption eliminated
- Overall natural gas bill reduced by over 10%*
- Net metering for 2602 kWh
- CO_2 and GHG emissions reduced
- Minimized use of less efficient equipment

*mCHP used for water heating only. July shows 20% average daily therm reduction. The utility bill shows total natural gas consumption for space and water heating.

	FEB 2022	FEB 2021	MAR 2022	MAR 2021	APR 2022	APR 2021	MAY 2022	MAY 2021	JUN 2022	JUN 2021	JUL 2022	JUL 2021
Avg Temp	14°F	25°F	29°F	26°F	40°F	46°F	47°F	50°F	62°F	63°F	72°F	72°F
KWH Used	-351	1538	-274	1555	-93	1626	-629	1802	-599	1668	-656	1821
Avg KWH/Day	-11.3	54.9	-9.4	53.6	-3	54.2	-21	58.1	-17.6	55.6	-21.2	52
Therms Used	1806.8	1527.8	1395.2	1513.4	1184.5	1189.8	991.1	1115.1	746.2	777	445.4	633.1
Avg Therms/Day	58.3	54.6	48.1	52.2	38.2	39.7	33	36	21.9	25.9	14.4	18.1

Data from Jan 27, 2022 - July 15, 2022

262-642-6436
www.axiom-energy.com