



## SENIOR CARE FACILITY: MADISON, WI

# PROJECT PROFILE

A 4-story, 60 bed senior care facility in Madison, WI installed a microCHP system to heat domestic water. The facility consists of studio, one or two-bedroom apartments with kitchen and laundry. There are common areas that include dining and social rooms, beauty/barber shop and bistro. The building has a centralized hot water system.

To meet this continuous demand, the mCHP system operates 24/7, efficiently heating domestic water while simultaneously generating electricity. This co-generation capability leads to a reduction in the facility's overall utility expenses, a key benefit for the facility's management. Furthermore, the mCHP system's consistent output minimizes the need for frequent boiler cycling, further enhancing energy efficiency.

Beyond the highlighted cost savings, the mCHP systems offer significant environmental benefits by reducing carbon emissions. Traditional power generation methods are often inefficient and result in high levels of greenhouse gas emissions. In contrast, the Axiom Energy's mCHP technology utilizes the heat produced during electricity generation, leading to higher overall energy efficiency and lower emissions. By embracing this innovative technology, the senior care facility has not only achieved cost savings but has also actively contributed to a cleaner environment, aligning with broader sustainability objectives.

**Engine Hours:**  
**13,506**

**kWh generated:**  
**55,556.53**

**Total Savings:**  
**\$8461.26**

\*based on \$0.1523 per kWh thru 9.1.24

