

case study

COMMUNITY CENTER

Acumen EMS™ deployed on Wisconsin senior center under state grant to reduce demand

THE CHALLENGE

Arch Electric, a Wisconsin-based solar company, was searching for a solution that would reduce the current energy and demand at a senior center that was placing sustainability at the forefront. The 40-acre facility, which includes several notable renewable features like water backup and a 200kW solar system, needed a system that would help with reducing demand for the entire campus. The project had garnered generous community support, with notable community members contributing financially in hopes of encouraging others to transition to renewables within the state. It also was backed financially by the state's Office of Energy Innovation and grant program Solar for Good. In hopes of getting this system installed and commissioned quickly, they continued to run into problems procuring a battery system due to supply chain issues stemming from the COVID-19 pandemic.

THE SOLUTION

Having already been modeling the project in the ETB Developer platform, the Arch Electric team turned to ETB to provide the all-in-one solution that encompassed the hardware and software components needed, making for a smooth, simple, and efficient installation. Energy Toolbase had a supply of BYD systems ready to go and could deliver according to schedule and provide support throughout the project's lifecycle. Arch Electric deployed a 120kW, 2-hour BYD Chess energy storage system equipped with Acumen EMS at the senior center, with the primary controls application being demand charge management to mitigate spikey peaks that occur throughout the day and evening. In addition, Arch Electric, the customer, and key stakeholders gained complete visibility into the energy storage system's operation through the ETB Monitor platform, allowing them to analyze performance and savings in real time. The project is forecasted to replace at least 28% of the current use for the campus, saving more than \$35,000 annually.

PROJECT SUMMARY



LOCATION

Sheboygan, Wisconsin



DEPLOYMENT DATE

February 2023



ESS PROVIDER

BYD



COMBINED SYSTEM SIZE

120 kW/266 kWh
(1) site



FACILITY TYPE

Senior Community Center



EMS APPLICATIONS

Demand Charge Management



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