

CASE STUDY

Blue Water YMCA Port Huron, MI



\$842K
Investment

The Client

The Blue Water YMCA in Port Huron, MI is dedicated to ensuring every individual has access to the essentials needed to learn, grow, and thrive. The 62,000 square-foot facility houses an oversized gym, several pools and fitness studios, and other recreational spaces.

The Challenge

Blue Water YMCA's Energy Utilization Index (EUI) was approximately 55% higher than its peer group, costing them an estimated \$1.3 million in additional utility bills over the next 20 years. Blue Water YMCA did not have a creative way to finance capital improvements that would help reduce excess utility consumption.

Our Solution

Plug Smart identified and implemented six (6) PACE-compliant energy conservation measures that help the YMCA save on energy costs while maintaining budget neutrality. We also helped solicit and facilitate project financing through Michigan's PACE program. Project scope included:

- LED lighting throughout building
- Controls Retro-Commissioning (RCx)
- Upgrade domestic hot water heaters
- Install Variable frequency drives on pool circulation pumps
- Replace hardware on all flush valves to conserve water
- Repair and upgrade roof

...
\$100K+
Annual Savings



Over \$2M in utility savings over life of the equipment

...
Approximately 616 tons of CO₂ offset from the atmosphere



Retrofit linear fluorescent fixtures with 12W, direct-wired, LED tubes

...
Replaced two (2) 1,500 MBH domestic hot water heaters with two like-for-like 1,500 MBH domestic hot water heaters

...
Repaired existing roof issues and added insulation for increased envelope R-value

“PACE financing will allow us to complete significant upgrades to the facility that will save energy and help the environment, all while supporting the long-term financial health of the Y.”

—Denise Brooks,
Blue Water YMCA
President/CEO