



DISTRICT COMMUNITY CENTER

A 200,000-square-foot municipal community center — housing a senior center, preschool, gym, pool, and healthcare services — achieved a 17% reduction in annual energy use, saving \$61,770 and eliminating 694,043 kWh in wasted consumption after participating in Power TakeOff's Virtual Commissioning (VCx) Program.

The Opportunity

The community center's varied usage patterns and sometimes irregular scheduling make it challenging to limit usage to only the regular operating hours of 9:00 a.m. to 7:30 p.m. Monday through Friday and 9:00 a.m. to 3:00 p.m. on weekends. However, Power TakeOff's analysis revealed persistent indicators of energy waste and potential savings, including:

- Elevated peak demand compared to historical baselines.
- Significant energy consumption during unoccupied weekend hours, outside of the 9:00 am to 3:00 p.m. weekend operating hours.
- HVAC systems operating 24/7 regardless of building occupancy.

These findings indicated that equipment operation schedules were misaligned with actual occupancy, making the site an ideal candidate for VCx intervention.

The Action Plan

Following an introductory virtual meeting, the Power TakeOff Energy Advisor identified no- and low-cost operational adjustments. The customer quickly reprogrammed their Building Management System (BMS) to align with recommendations:

- Updated HVAC schedules to match actual occupancy hours.
- Optimized temperature setpoints for occupied and unoccupied periods.

These changes required no capital investment and maintained occupant comfort.



\$61,770
In Avoided Costs



694,000+ kWh
Saved



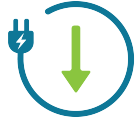
17% Annual
Energy Savings

The Outcome

The Community Center experienced measurable and sustained improvements in energy efficiency following these adjustments:

694,043 KWH
saved annually

equivalent to powering 62 average U.S. homes for one year.



Peak demand lowered, minimizing strain on the local grid and reducing demand charges.

\$61,770
in annual cost savings

achieved entirely through operational improvements without capital expenditure.



Improved alignment of HVAC operation with occupancy, preventing unnecessary wear on equipment and extending asset life.

17%
reduction in total energy consumption

reducing the building's environmental footprint and operating costs.



Energy performance gains were maintained over the following year, with ongoing monitoring ensuring that savings persisted and providing early detection of any operational drift.

These results highlight the impact of data-driven, low-cost interventions and underscore the effectiveness of VCx in municipal facilities where comfort and usability cannot be compromised.

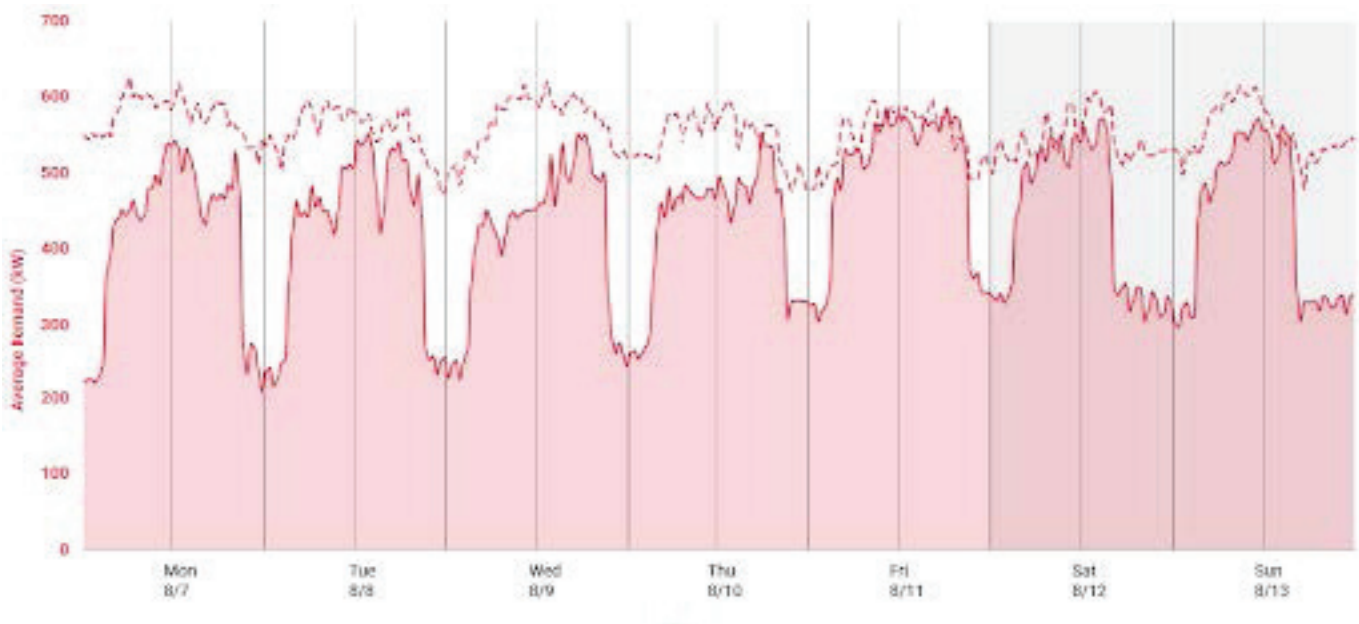


Figure 1. Comparison of Energy Usage from the Previous Year and the Period After Power TakeOff Intervention.

Since 2007, Power TakeOff has been an industry leader in data-first, virtual utility products and efficiency programs. Specializing in Energy Information Software, Power TakeOff transforms complex utility AMI data into personalized energy efficiency recommendations with proven measurement and verification results. Utilities across North America rely on Power TakeOff to enhance customer experiences, increase revenue, meet efficiency goals, and reduce greenhouse gas emissions. Learn more at www.PowerTakeOff.com.