

MEDICAL OFFICE BUILDING

52,000 SQ FT

Through participation in Power TakeOff's Virtual Commissioning® (VCx®) program, the medical office building's annual electricity consumption was reduced by **58%**, eliminating **937,000 kWh** of wasted electricity and delivering **\$83,000** in annual electricity cost savings.

The Opportunity

The medical office building operated Monday through Friday from 7:00 a.m. to 5:30 p.m., with the facility closed on weekends. However, Power TakeOff's analysis revealed persistent indicators of energy waste and potential savings, including:

- Significant energy consumption during unoccupied weekend hours when the building was empty.
- HVAC systems maintained aggressive heating and cooling setpoints regardless of building occupancy.
- Equipment operated without alignment to actual facility usage patterns.

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 operate from 5:30 a.m. to 6:30 p.m., Monday through Friday, with unoccupied mode on weekends.
- **Optimized temperature setpoints:**
 - Occupied hours: Heating 68-72°F, Cooling 73-78°F
 - Unoccupied hours: Heating 55°F, Cooling 78°F

These changes required no capital investment and maintained occupant comfort.



\$83,000
Annual Electricity
Cost Savings



937,000 kWh
Annual Electricity
Savings



58%
Electricity Usage
Reduced

The Outcome

The medical office building experienced measurable and sustained improvements in energy efficiency following these adjustments:

937,000 kWh

Annual Electricity Savings

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



Peak demand lowered—

minimizing strain on the
local grid and reducing
demand charges.

\$83,000

Annual Electricity Cost Savings

achieved entirely through
operational improvements
without capital expenditure.



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

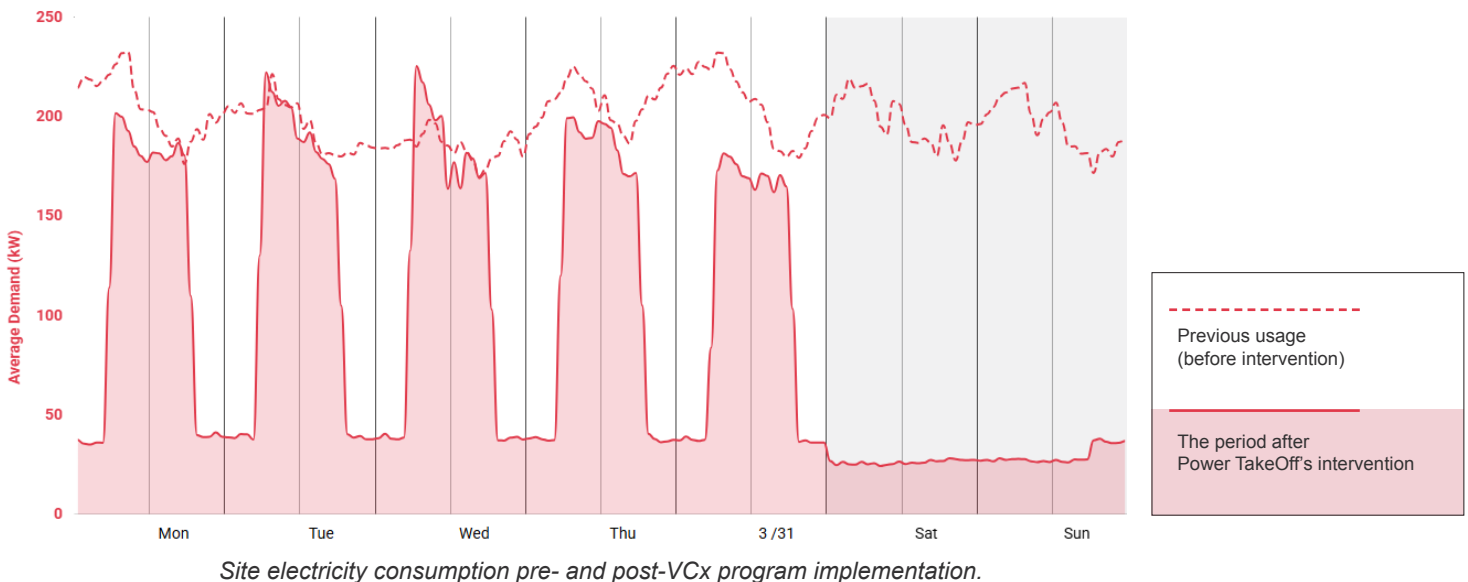
58%

Electricity Usage Reduced

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.



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 AML 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.