

INDUSTRIAL BUSINESS

230,000 SQ FT

Through participation in Power TakeOff's Virtual Commissioning® (VCx®) program, this large industrial business achieved a **17% annual reduction** in electricity consumption — eliminating **267,000 kWh** of wasted energy and delivering more than **\$32,000** in cost savings annually.

The Opportunity

The industrial facility operates Monday through Friday, 6:30 AM–3 PM, with full closure on weekends. Despite a well-defined weekday schedule, energy analysis revealed that compressed air systems continued to run outside active production hours, including during evenings and weekend shutdowns. For a facility of this size, compressed air infrastructure represents a significant energy load, and misalignment between compressor runtime and actual production needs drove substantial avoidable consumption.

Key observations:

- Compressed air systems operated beyond verified production hours, running during unoccupied evenings and weekend closures.
- Energy consumption during off-hours was disproportionate, given the facility's defined shutdown schedule.
- No automated controls were in place to align compressed air availability with active production periods.



\$32,000
Annual Electricity
Cost Savings



267,000 kWh
Annual Electricity
Savings



17%
Electricity Usage
Reduced

The Action Plan

- **Compressed Air Measure:** A compressed air measure was implemented to reduce compressor runtime and align system availability with active production hours, 6:30 AM–3 PM, Monday through Friday, preventing energy-intensive equipment from operating during unoccupied periods.
- **“HVAC” Setpoint Adjustments:** Interval electric meter data was used to track compressed air system trends before and after the intervention, to validate savings, and to inform any further operational adjustments.

The Outcome



267,000 kWh
Annual Electricity Savings



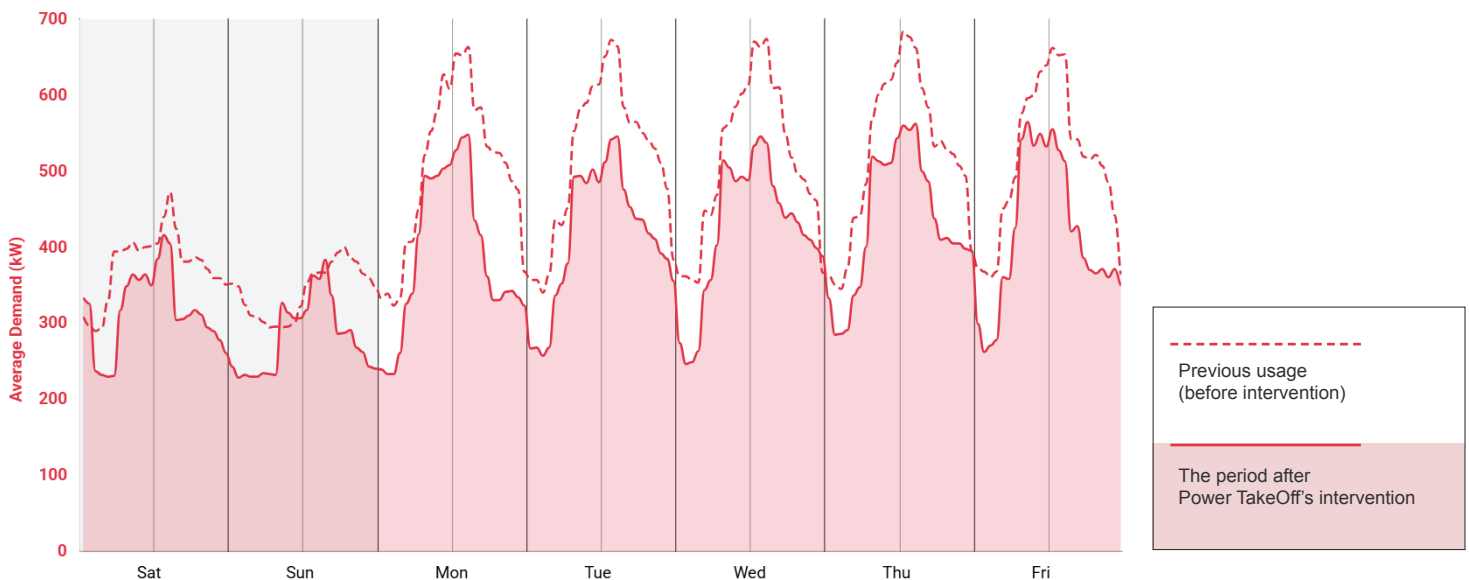
\$32,000
Annual Electricity Cost Savings



17%
Electricity Usage Reduced



Compressed air systems now **fully aligned** with active production hours, eliminating runtime during evenings and weekend shutdowns.



Site electricity consumption pre- and post-VCx program implementation.