Power TakeOff



TURNING PORTFOLIO DATA INTO ONGOING ENERGY SAVINGS:

NATIONAL APPAREL RETAILER

SECTOR: National Apparel Retail
FOOTPRINT: ~2,500 U.S. locations

A large national apparel retailer operating roughly 2,500 stores across the U.S. has partnered with Power TakeOff to identify and act on energy-saving opportunities across its portfolio through the utility-funded Virtual Commissioning® (VCx®) program.

Since 2023, the partnership has delivered over **$350,000** in recurring annual energy cost savings across **68 locations** with no capital investment required. Beyond the cost savings, these reductions in electricity use directly support the retailer's broader sustainability goals by lowering Scope 1 and Scope 2 emissions.

Building on those results, the retailer is partnering with Power TakeOff to review an additional 400+ locations, with the goal of amplifying the energy reduction to date by more than 6X, extending the same data-driven approach and its emissions-reduction impact across its national footprint.

The Opportunity

Across the national store footprint, energy is a major cost for national organizations, and energy teams face a myriad of competing priorities to control costs and reduce emissions. Energy waste at a single store can be an easy miss and, amplified across a national footprint, expensive to ignore. A few extra hours of lighting or an HVAC schedule out of sync with store hours rarely trips an alarm, but multiplied across locations, it adds up to real, ongoing cost and unnecessary emissions.

As VCx is delivered to the national retailer at zero cost, via the utilities that fund the service, Power TakeOff consistently analyses the portfolio and identifies opportunities for energy reduction by flagging stores with high energy usage compared to similar stores, turning invisible waste into an actionable, recurring savings pipeline that also advances the retailer's emissions-reduction targets.

Key Results

$350,100 in annual electricity cost savings

3,110,000 kWh in annual electricity savings

2,310 metric tons of carbon dioxide equivalent (CO_2e) avoided annually

Equivalent to taking ~500 gasoline-powered passenger cars off the road every year.

16% average electricity reduction per store

68 locations across **11 states** and **20 utility territories** eliminated energy waste

The Action Plan

- Power TakeOff meets regularly with the Facilities lead via Zoom to review locations flagged by automated smart meter data analysis.
- During these calls, the Facilities lead can often resolve issues in real time — such as fixing building automation system (BAS) schedule mismatches or lighting overrides. For flags requiring deeper investigation, Power TakeOff provides recommendations for specific equipment review and settings.
- Once a fix is made, Power TakeOff verifies the reduction using direct utility smart meter data.
- To ensure lasting savings, Power TakeOff models measurement and verification (M&V) and issues a participation report detailing the actions taken alongside the confirmed kWh and cost savings.

Ongoing Partnership

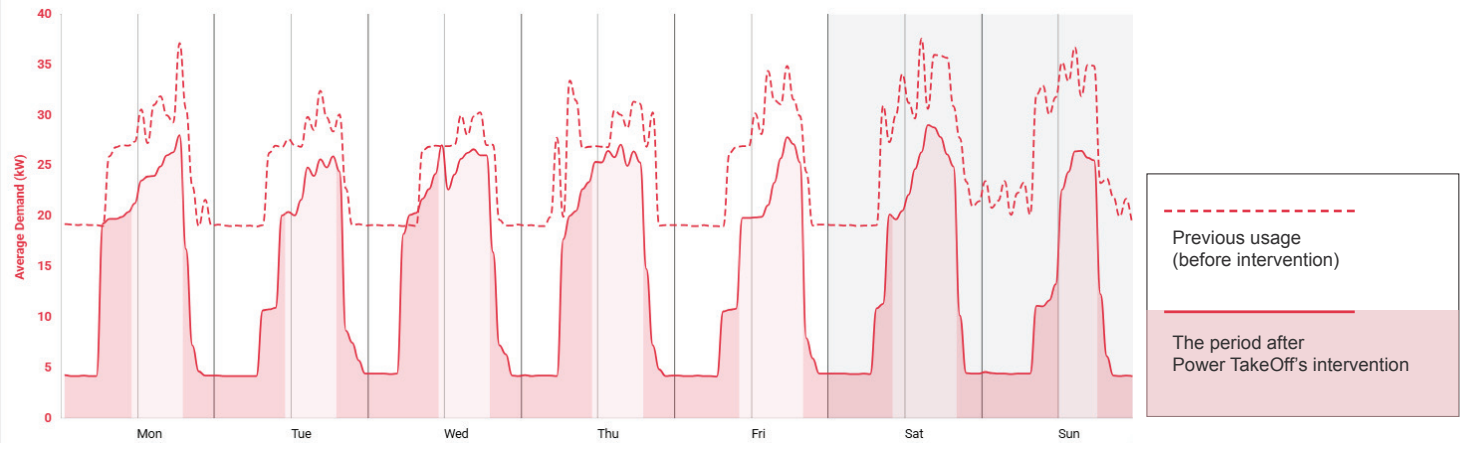
Quarterly portfolio reviews let the retailer monitor performance over time and prioritize the highest-opportunity regions for the next round of action, turning a one-time analysis into a continuous savings engine rather than a single project. Power TakeOff can support the retailer in expanding to more stores to lower costs and emissions further, without additional headcount or overhead.

Lighting and HVAC systems now run in step with store's operating hours across the full seven-day retail schedule, delivering cost savings that continue year over year rather than as a one-time gain, while steadily reducing the retailer's emissions footprint as the program expands to its next 400+ locations.

Examples in Practice

Lighting Review: After Power TakeOff identified stores with excess lighting overnight, the retailer added lighting checks to its existing security camera review protocol, closing the gap without adding new headcount or process overhead.

No-Cost HVAC Schedule Adjustments: When an opportunity was identified, HVAC schedules were reprogrammed via the BAS to align with each store's daily operating hours, generating savings without any capital investment.



Site electricity consumption pre- and post-VCx program implementation

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