

Case Study

Energy Optimization for Cannabis Grow Facility and Dispensary Network

From design to operation, Titan Energy's integrated approach turned energy efficiency into measurable growth and savings for cannabis facilities in two states.



CHALLENGE

Cannabis grow facilities are among the most energy-intensive commercial operations, requiring constant lighting, temperature control, and ventilation to sustain optimal growing conditions.

As our client prepared for new facility construction in Connecticut and expanded their dispensary network into Ohio, they faced several key challenges:

High anticipated energy costs driven by the size and intensity of operations.

Complex new construction incentive requirements needed to qualify for substantial utility funding.

Navigating energy procurement strategies across multiple states with different market structures and utility standards.

The client sought a partner capable of optimizing design efficiency, modeling projected energy use, securing incentives, and locking in advantageous supply rates to stabilize long-term costs.

AT A GLANCE

- ▲ **Location(s):** Connecticut and Ohio
- ▲ **Building Type(s):** Cannabis Grow Facility and Dispensary Network
- ▲ **Services Performed:** Energy Efficiency Audit and Electricity Procurement
- ▲ **Incentives Captured:** \$800,000
- ▲ **Reduction in Energy Use (LED):** 16.5 million kWh
- ▲ **Reduction in Energy Use (HVAC):** 2 million kWh
- ▲ **Procurement Terms:** 2-year contract in Connecticut; 3-year contract in Ohio

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APPROACH AND SOLUTION

Titan Energy implemented a comprehensive energy management strategy across the client's multi-state operations, securing nearly \$800,000 in utility incentives through the Energy Conscious Blueprint (ECB) new construction program and additional funding for dispensary sites.

Through Titan Solutions, our energy efficiency division, the team modeled high-efficiency systems to maximize incentive eligibility and managed all documentation from start to finish.

Leveraging supplier pricing aligned with the facility's low initial load, Titan Energy locked in a 2-year fixed-rate electricity contract early—mitigating market volatility and ensuring long-term cost stability as operations scale.

RESULTS AND IMPACT

By integrating energy efficiency engineering, strategic incentive capture, and competitive procurement, Titan Energy helped the client:

- ▲ Capture \$800,000 in upfront utility incentives to offset construction costs.
- ▲ Lock in favorable supply rates ahead of market escalation.
- ▲ Establish predictable, long-term budgets across multiple states.
- ▲ Position their Connecticut grow facility for scalable efficiency and sustained savings as operations expand.



Titan Energy's proactive approach ensured the client not only saved immediately but also built a foundation for continued performance and resilience in a dynamic energy market.

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