

Savings for Controlled Environment Agriculture

Indoor cannabis cultivation is one of the most energy intensive industries. Efficiency Vermont can work with you to model whole building energy simulations and design for efficiency.

Contact us early in your development process and take advantage of our energy efficiency expertise to help you:

- ✓ Lower operating costs
- ✓ Increase yields
- ✓ Decrease your carbon footprint

As every project is unique, our incentives are comprehensive and customized to your facility. Projects are being enrolled weekly and developed on a first come, first served basis.

Top Tips from Efficiency Vermont:

- ✓ The systems in cannabis facilities impact each other in ways unique to this industry- make sure you are planning for multi-system interaction!
- ✓ Controls automate & monitor technologies for lighting, temperature, irrigation, humidity, CO2, and ventilation.
- ✓ Use high efficiency LEDs with dimming based on growth stage. LEDs run less hot than high pressure sodium or fluorescent technologies, allowing you to save significantly on cooling costs.
- ✓ Proper relative humidity (RH) is important for crop health. Horizontal air flow fans keep disease growth low. Consider using variable speed controls for fans.



Consider the power capacity of your facility and the needs of your operation. Electrical service upgrades can take time. Connect with your electric utility to review requirements.

Get started today

Contact us to discuss your project:
1-855-317-2254

Rebate offers subject to change.

Energy Code Review from Cannabis Control Board

Energy Standards are found in Rule 2: Regulation of Cannabis Establishments, section 2.5

Dehumidification

Your dehumidification system must include one of the following:

1. Standalone dehumidifiers:
<8.0 cubic feet must meet a minimum of 1.77 L/kWh
>8.0 cubic feet must meet a minimum of 2.41 L/kWh
2. Integrated HVAC system or Chilled Water System with on-site heat recovery designed to at least 75% of the annual energy for dehumidification reheat
3. Solid or liquid desiccant dehumidification for systems requiring dewpoint of <50°F

Lighting

- ✓ Indoor cultivation facility equipment must meet a minimum of 1.9 PPE (Photosynthetic Photo Efficacy)
- ✓ Greenhouse equipment minimum of 1.7 PPE, unless lighting load is <40 kW
- ✓ Non-cultivation spaces (offices, halls, retail, etc.) must meet current CBES code

HVAC

Systems must meet Vermont Commercial Building Energy Standard (CBES) efficiency (with the exception in the grow/cultivation rooms where economizers & heat recapture are not required)

- ✓ Cooling necessary every single day when the grow lights are on. Opportunity to use heat recovery technology to temper water, for office heating, or to occasionally heat cultivation rooms on coldest days when lights are off.