

# LEAFY SEMINARS

A large indoor cannabis cultivation facility. The room is filled with rows of green cannabis plants growing in pots. The plants are densely packed and appear to be in the vegetative stage. The ceiling is equipped with numerous rectangular LED grow lights and several circular fans. The overall atmosphere is industrial and brightly lit.

A Cannabis Education Series  
Presented by Enlighten Your Grow

**Massachusetts Energy Regulations: The CCC Sharpens Its Rules for 2020**

#LeafySeminars



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The background of the slide is a photograph of the Massachusetts State House, featuring its prominent golden dome and classical columns. The text is overlaid on this image.

# Cannabis Energy Regulations

What's new after July 1?  
Insights for Massachusetts  
Cannabis Businesses

*Thank you to today's sponsor*

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The Cannabis Center of Excellence, INC. (COE, INC.) is a registered 501c3 non-profit founded by [Cannabis Community Care and Research Network \(C3RN\)](#) that promotes active participation, education, social justice, and scientific excellence in the cannabis industry. The COE, INC is funded through tax-deductible individual and corporate donations.

# How this will work

Our two speakers will each speak for ~10 minutes

## Q & A

- Submit your questions via the Q & A function as they come to you
- We will respond to them during the final portion of the session

Evaluation survey at the end of the webinar. Thank you for your feedback!

# ▶ PRINCE LOBEL



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# The Regulations

## ▶ 935 CMR 500.105: General Operational Requirements

▶ 500.105(1)(q) and 500.105(15): Written Operational Procedures for Energy Efficiency and Conservation shall include consideration of the following:

- ▶ Identify energy use reduction opportunities, and a plan for implementation of such opportunities;
- ▶ Consideration of opportunities for renewable energy generation including; where renewable energy generation can be located and if not proposed, the reasons why;
- ▶ Strategies to reduce electric demand; and
- ▶ Engagement with energy efficiency programs offered by the state or through municipal lighting plants.

# The Regulations, Cont.

- ▶ 935 CMR 500.120: Additional Operational Requirements for Indoor and Outdoor Cultivators
  - ▶ 500.120(11): Cultivators are subject to the following minimum energy efficiency and equipment standards:
    - ▶ (a) Building Envelope meets all MA building Code regulations.
    - ▶ (b) Lighting:
      - ▶ Horticultural Lighting Power Density (HLPD) restrictions of 36 watts/sf, but Tier 1 and 2 as high as 50; or
      - ▶ Comply with the Horticultural Lighting Qualified Product List (HQPL).
    - ▶ (c) Heating Ventilation and Air Condition (HVAC) and dehumidifier systems must meet MA building code regulations.
    - ▶ (d) Safety plans to protect workers and customers.
    - ▶ (f) Provide an Energy Compliance Letter prior to Final Licensure.
  - ▶ 500.120(12)(e): Cultivators shall maintain energy efficiency written policies and procedures as follows:
    - ▶ Reduce energy and water usage, and
    - ▶ Engage in energy conservation and mitigate other environmental impacts.



# The Regulations, Cont.

- ▶ 935 CMR 500.130: Additional Operational Requirements for Product Manufacturers
  - ▶ 500.130(5)(e): Product Manufactures shall maintain energy efficiency written policies and procedures as follows:
    - ▶ Reduce energy and water usage, and
    - ▶ Engage in energy conservation and mitigate other environmental impacts.

# Exceptions to the Regulations

## ▶ 500.120(11)(e):

- ▶ The requirements in 500.120(11)(b) (HLPD standards), and (c) (the HVAC and dehumidifier standards) are not required if an indoor Cultivator is generating 80% or more of the total annual on-site energy use from an onsite clean or renewable generating source.
- ▶ Additionally, the Cultivator must document that renewable energy credits or alternative energy credits representing the portion of the operator's energy usage not generated onsite has been purchased and retired on an annual basis.

## ▶ 500.120(11)(g):

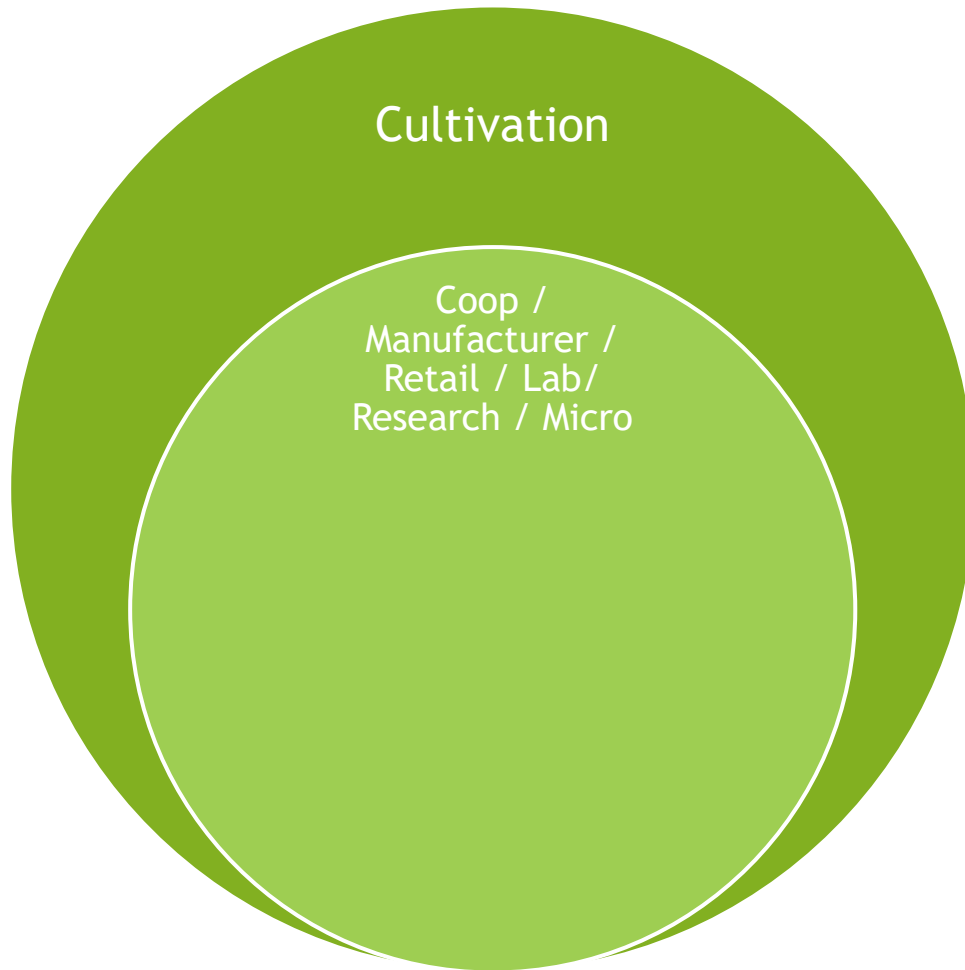
- ▶ A Cultivator may apply for an additional 6-month extension to the Energy compliance Letter requirement if it agrees to:
  - ▶ install meters to monitor energy usage, water usage and other data determined by the Commission, and
  - ▶ provide reports on energy usage, water usage, waste production and other data in a form and manner determined by the Commission.



A project of  
Climate Resources Group



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### Cultivation

Below plus

- Written operating procedures
- Energy Compliance Letter or Energy Compliance Exemption Letter
- Energy use report (on renewal)

### Manufacturer / Retail / Lab/ Research / Microbusiness / Coop

Demonstrate consideration of

- Energy use reduction opportunities and implementation plan;
- Electricity demand reduction strategies;
- Renewable energy generation opportunities; and
- Engagement with energy efficiency programs

Transporters  
& Delivery

### Transporters & Delivery

- Describe fleet selection decisions and garage energy & water management

# Documenting energy compliance

## ▶ Energy Compliance Letter

- ✓ **Building envelope standard**
- ✓ **Equipment standards**
  - ✓ Lighting
    - ✓ Horticulture Lighting Power Density
    - ✓ Horticultural Lighting Qualified Product List
  - ✓ HVAC and dehumidification

## ▶ Energy Compliance Exemption Letter

- ▶ Lighting and HVAC standards shall not be required if an indoor marijuana cultivator is generating 80% or more of the onsite load from a renewable resource

## ▶ Energy Extension Survey Worksheet



# Consequences of non-compliance



- ▶ Delay in application process
- ▶ Potential denial of application?
- ▶ Potential fines?
- ▶ Other penalties TBD?



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