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HOW TO BUILD AN ENERGY- EFFICIENT CANNABIS GREENHOUSE





STRATEGIES ON GREENHOUSE PRODUCTION EFFICIENCY

- Reduce leaks
- Insulate
- Upgrade your Lighting
- Efficient Heating System
- Efficient Ventilation System
- Check Environment Controls





Reduce Leaks

Finding and reducing leaks can have a big impact on your greenhouse energy efficiency. For one, it can reduce your heating bill by up to 10%. Additionally, reducing leaks can improve airflow, helping make a greenhouse's temperatures and humidity more uniform.



Insulate

You can modify greenhouse walls to improve their insulating capacity with little to no impact on light transmission. This is especially useful for the north-facing sidewalls, and here's why. The north wall of a greenhouse lets in very little light, especially during winter, making it easy to lose heat in the greenhouse.



Upgrade your Lighting

The cost of running cannabis greenhouse lighting is high so it's important to upgrade to an efficient lighting system. For instance, many greenhouse cannabis growers still use 400-watt or 600-watt HPS fixtures with magnetic ballasts.

Efficient Heating System

There are many reasons why your greenhouse heating system can become less efficient over time. Likewise: A dirty heat exchanger, Dirt deposits on combustion chamber components, Fans and pumps that don't work properly, Incomplete combustion



Efficient Ventilation System

Maintaining optimum growing conditions in a greenhouse requires replacing the warm and humid air within the space with cooler outside air. The fans also prevent the formation of condensation on plants when temperatures cool in the greenhouse.



Environment Controls

Controlling the various environmental parameters such as temperature, humidity, lighting, irrigation, and CO₂ is crucial in a cannabis greenhouse. Yet, you should avoid certain environmental control interactions if you're going to create an energy-efficient space.



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