

Climate Friendly Nurseries Project

BEST MANAGEMENT PRACTICES

Save Money Save Energy

Invest in ENERGY EFFICIENCY

Lighting

- Remove lamps in areas with adequate lighting and utilize natural day lighting where possible
- Transition T12 lighting to T8 lighting
- Replace all incandescent lights with CFLs and LED lighting
- Install occupancy sensors

Greenhouse Efficiencies

- Check for and seal any leaks in the ceiling, around doors, windows and vents
- Reduce temperatures at night, where possible
- Conduct regular maintenance on heaters and/or boilers and calibrate thermostats
- Install a programmable thermostat
- Replace single poly with two layers: one poly and one infrared poly
- Replace fiberglass with double or triple polycarbonate
- Upgrade to an energy efficient boiler with under-bench heating

Irrigation Efficiencies

- Schedule irrigation early in the day to avoid water loss through evaporation
- Check soil moisture to reduce overwatering of plants and nutrient loss
- Repair or replace broken sprinkler heads, gaskets and leaking pipes
- Perform regular maintenance on pumps
- Upgrade to more efficient sprinklers and consider installing drip irrigation
- Install variable frequency drives on pumps



Did You Know?

The USDA and EPA estimates that annual carbon sequestration opportunities in the agricultural industry range from 590 to 990 million MTCO₂ per year, which could offset the national annual inventory between 8 and 14 percent.

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Where do I start?

1. Prioritize projects you have in mind. Do the easy, low- or no-cost things first.
2. Contact Energy Trust (for PGE and Pacific Power customers) or local utility to understand current incentives and training opportunities.
3. Find a contractor near you.
Energy Trust trade allies—
<http://energytrust.org/library/find-a-contractor>
Other public utilities use BPA trade allies—
<http://northwest-lighting.org>
4. Schedule onsite assessment.
5. Get quote and understand project cost and available incentives (Energy Trust or utility + State of Oregon's Business Energy Tax Credit).
6. Talk to someone who's done it. See case studies at www.climatefriendlynurseries.org
7. Consider applying for additional incentives such as USDA's Rural Energy for America Program and/or NRCS programs such as EQIP. Apply for applicable incentives BEFORE you begin.
www.rurdev.usda.gov/or/reapee.htm
<http://www.or.nrcs.usda.gov>
8. Set up installation to work with your production cycle.

Climate Friendly Nurseries Project

The Climate Friendly Nurseries Project, a collaborative partnership between the Oregon Association of Nurseries and the Oregon Environmental Council, has developed a guide, Best Management Practices for Climate Friendly Nurseries, to help nurseries reduce operating costs and greenhouse gas emissions. The BMP Guide contains detailed recommendations, Oregon case studies, and low and no-cost efficiency improvements for nurseries.

Learn more at www.climatefriendlynurseries.org

