

Climate Friendly Nurseries Project

BEST MANAGEMENT PRACTICES

Save Money Save Energy



While improving the quality and safety of your work environment

Invest in EFFICIENT LIGHTING

Lighting upgrades are the easiest first step in any energy efficiency program and can payback investment costs through energy savings in as little as two years or less. New bulbs and fixtures last longer which means less maintenance and associated labor costs.

Have lighting improvement projects in mind?

- 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

Example of a grower who's done it

Blooming Nursery, Inc. is an example of a nursery that has completed a lighting retrofit. They replaced existing T12 lights with T8 lights, replaced metal halide lights with T8 lights and installed occupancy sensors. The project had a one year pay back and now saves approximately \$2,200 a year in expenses.

Potential \$avings

Lighting Retrofit and Occupancy Sensor Installation		
	40-acre Nursery	400-acre Nursery
Cost (before incentives)	\$1,450	\$7,200
Incentives*	\$1,408	\$6,837
Energy Trust of Oregon	\$665	\$3,147
Oregon Business Energy Tax Credit	\$380	\$1,890
USDA Rural Energy for America Program Grant	\$363	\$1,800
Annual Savings	\$441	\$2,919
Payback	<1 year	<1 year

* Examples are based on financial incentives available in Oregon as of March 2011 and are subject to change. Many states have similar programs. Opportunities for efficiency improvements are site specific and vary.

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Where do I start?

1. Contact Energy Trust (for PGE and Pacific Power customers) or local utility to understand current lighting incentives and training opportunities
2. 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>
3. Schedule onsite assessment.
4. Get quote and understand project cost and available incentives (Energy Trust* or utility + State of Oregon's Conservation Tax Credit (formerly known as the Business Energy Tax Credit)).
5. Talk to someone who's done it. See case studies at www.climatefriendlynurseries.org
6. Consider applying for additional incentives such as USDA's Rural Energy for America Program. Apply for applicable incentives BEFORE you begin.
www.rurdev.usda.gov/or/reapee.htm
7. 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



* Energy Trust of Oregon bonus lighting incentives expire November 1, 2011.