

Ohio Encouraging Environmental Excellence Program



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What We Cover Today

1. E3 overview - levels and benefits
2. Application and review process
3. Environmental stewardship criteria
4. Examples of successful applicants

Overview Levels and Benefits



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Program Overview

- E3 recognizes those who reduce waste, improve efficiency and work to continuously improve as an environmental steward
- Three levels: Achievement, Silver, and Gold
- <http://www.epa.ohio.gov/ohioE3.aspx>

Achievement Level Benefits

- Certificate of recognition signed by the Director
- Listing on the Ohio EPA website
- Program highlights published in one of the Agency's publications
- A decal with the E3 logo to display at the applicant's location

Silver Level Benefits

- E3 flag
- Ohio EPA news release and listing on Web page
- Awards ceremony and possibly a site visit by the Ohio EPA Director
- Case study



Gold Level Benefits

- All Silver Level benefits
- Opportunity to work with Ohio EPA on:
 - enhanced assistance
 - Director's meeting
 - reporting flexibility
 - reduced inspection frequency...



Application and Review Process



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Application Information

- **Achievement** – you can apply at any time
- **Silver and Gold** – annual application cycle, applications due October 14, 2016
- **Eligibility** – just about any organization in Ohio may apply
- **Format** – there is none, there is no application form to fill out, provides flexibility for applicant

How to Apply

- Application requirements on Ohio EPA's E3 website
- Partnership approach - we will work with you to strengthen your application
- Contact information - on last page of application instructions
- Compliance check

Achievement Level

Main Criteria

Achievement Level participants must have demonstrated significant progress in one of the main environmental stewardship criteria and some level of progress in six additional criteria

Achievement Level

Main Criteria

- Impact to the Environment
- Pollution Prevention
- Energy Efficiency
- Renewable Energy
- Renewable, Recovered or Recycled Materials
- Green Building
- Recycling Programs
- Organics Diversion

Environmental Stewardship

Additional Criteria

Overview

- There are 19 criteria to choose from
- These criteria provide examples of environmental stewardship activities
- Criteria are not scored at the Achievement Level
- A general statement of accomplishments is sufficient for Achievement Level
- Measures of achievement are always helpful
 - not required for Achievement Level

Silver and Gold Level

Application should include:

- Narrative - facility or organization-wide focus
- Facility / organization description
- Tell us about your activities - address the 19 scored criteria

Silver and Gold Level Evaluation

- The narrative is important
- Adequate detail
- Indicative of environmental stewardship
- Quantifiable
- Comprehensive
- Innovative
- *Evaluation criteria is on the Web page*

Silver and Gold Level Evaluation

- Address as many of the 19 criteria as possible
- Silver Level > 9
- Gold Level > 14
- *Must score 3 or higher to count*

Silver and Gold Level *Review Process*

- OCAPP Review team
- We will work with you to build a better application
- Review team site visit is part of the formal process
- Recommendation to the Director



Environmental Stewardship Criteria



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Environmental Stewardship Criteria

- Management commitment
- Employee involvement
- Continuous improvement
- Environmental management system
- Promotion and dissemination
- Innovation

Environmental Stewardship Criteria

- Impact to the Environment
- Life cycle analysis
- Pollution prevention
- Energy efficiency
- Renewable energy
- Renewable, Recovered or Recycled Materials
- Green building

Environmental Stewardship Criteria

- Storm water BMPs
- Environmentally Preferable Purchasing
- Recycling programs
- Organics diversion
- Economic benefits
- Environmental management accounting

Examples of Successful Applicants



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Achievement Level Examples



Achievement Level Examples

Marymount Hospital, Garfield Heights

- Sustainability program
- Green purchasing, low water toilets, microfiber mops, improved air handlers and boiler systems, lighting upgrades
- Recycling - 40.5 tons & savings of \$101,325

Achievement Level Examples

Marymount Hospital, Garfield Heights

- Reprocessing of surgical instruments
 - annual savings of \$44,239 and 9,286 pounds diverted from landfill
- LEED Gold
 - 45,000 sq. ft. new
 - 29,000 sq. ft. renovated

Achievement Level Examples

ConAgra Foods, Troy

- Reduced water use by two million gallons per year
- Recycled 3,280 pounds of cans and plastics
- Diverted 8.7 million tons of food waste into animal feed

Achievement Level Examples

Brewer-Garrett, Middleburg Heights

- 27 percent energy reduction by renovating main office
- Saved up to 15% in heating & cooling costs
- Increased size of storm water retention pond
- Berea schools recycling efforts

Achievement Level Conclusion

- If you're interested, contact us
- We will work with you
- There are no site visits for the Achievement Level
- Outstanding Achievement Level applicants may be asked to apply for Silver or Gold Levels

Gold and Silver Level Examples





- Impact to the Environment
 - Efficiency of solar modules:
9.5 percent in 2006 → 16 percent in 2015
 - Lighting sensors, automatic window blinds, and LED light fixtures
 - Laser system replacing sand blasting
16,000 pounds of HW reduction
 - Material recovery system



- Employee Involvement
 - Training programs
 - Recognition and awards
 - Sustainability blog articles
 - Teams





- Employee Involvement

Who is entitled to benefit from these incentives?	Type of incentives	Incentivized performance indicator
All employees	Monetary reward	Expansion of PV solar module production (which enables more PV solar modules to be provided to customers and therefore to displace more electricity generation by fossil fuels.)
All employees	Monetary reward	Reductions in PV solar module manufacturing costs (which reduce the costs of PV solar and thus allow PV solar to become more cost competitive with conventional technologies and helps PV solar become more widely deployed and accepted).
All employees	Monetary reward	Improvements in PV solar module efficiency (which drive reductions in the costs of PV solar as well as balance of system (BoS) components thereby expanding PV markets and displacing electricity generated by fossil fuels. Improvements in efficiency also reduce the overall life-cycle carbon footprint of our product.
All employees	Monetary reward	Reductions in PV solar balance of system (BoS) costs (which reduces the total installed costs of PV solar and thus allows PV solar to become more cost competitive with conventional technologies and help PV become more widely deployed and accepted).
Management group	Recognition (non-monetary)	Participation in First Solar Way, a leadership development program. The first two sessions of this program have each had a project focused on sustainability.
All employees	Monetary reward	Spot rewards for immediate recognition of an individual or team's contribution to the success of First Solar. Spot awards can be awarded for environmental stewardship. First Solar's awards are made in points which can be redeemed for gifts/services.
Facility managers	Monetary reward	Energy saving targets are included in the performance goals (GPS) of our facilities team. GPS is a performance





- Life Cycle Analysis
 - Life cycle inventory
 - publicly available
 - Eco-efficiency
 - more informed decision
 - Design for recycling





- Makes latex medical tubing
- Continuous improvement is a journey, not a destination. Continuous improvement is a progression, not a project
- Employee Involvement
 - Kaizen Explosion
 - Wide variety of tools
 - Employee rewards





- Impact to the Environment
 - Solid waste reduction
 - Closed loop recycling
- Energy Efficiency
 - Smaller water chiller
 - Air Compressor
 - Lighting upgrade and sensors
 - Natural gas use reductions



Platinum Level

- All Gold Level benefits
- Platinum Level Award
- Ceremony
- Same Application Process as Gold Level
- Social sustainability criteria



Platinum Level

- Social sustainability criteria:
 - Product or service design
 - Community education
 - Improving the supply and delivery chain
 - Sharing information about environmental impacts
 - Local environmental priorities
 - Maintaining ecosystems
 - Community support



Silver, Gold & Platinum Level Conclusion

- If you're interested, contact us
- We will work with you
- Applications are due by October 14, 2016
- Application instructions may be downloaded from the web-site:
<http://www.epa.ohio.gov/ohioE3.aspx>

Encouraging Environmental Excellence

Contact Information

- **Achievement Level:** Mike Kelley
Phone – 614-644-2930
E-mail – michael.kelley@epa.ohio.gov
- **Silver, Gold and Platinum Level:** Howard Dong
Phone – 614-644-3469
E-mail – howard.dong@epa.ohio.gov