



### Environmental Stewardship Categories

1. Environmental Policy
2. Environmental Management System
3. Annual Environmental Report
4. Carbon Footprint Analysis
5. Environmental Purchasing Policy
6. Vendor/Supply Chain Requirements
7. Mentoring to Other Businesses
8. Outreach Program
9. Green Building Certification
10. Green Building Implementation
11. Life Cycle Assessments
12. Hazardous Materials Reduction
13. Water Use Reduction
14. Material Conservation
15. Employee Trip Reduction
16. Process/Operation Energy Use Reduction
17. Transportation Energy Use Reduction
18. Renewable Energy Use
19. Environmental Enhancement Projects
20. Innovative Program
21. EPA Voluntary Programs



### **New Jersey Department of Environmental Protection**

Bob Martin, Commissioner

Chris Christie, Governor

Kim Guadagno, Lt. Governor

**For more information visit:**

<http://www.stewardship.nj.gov/>

**Or Contact:**

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# Process/ Operations Energy Use Reduction

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Part of the **Environmental Stewardship Initiative**: a voluntary program that utilizes existing Department infrastructure and personnel to capture information during routine enforcement inspections and recognize members of the regulated community who are engaging in positive activities that benefit the environment.

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NJDEP



## Qualifying for Process/ Operations Energy Use Reduction Stewardship Recognition

To receive stewardship recognition for **PROCESS/OPERATIONS ENERGY USE REDUCTION**, a site must reduce its energy use associated with process and production operations. Changes such as replacement of older manufacturing equipment with more efficient models, resulting in a reduction in energy use during the manufacturing process, will qualify a company for recognition.

## Energy efficiency through **PROCESS/OPERATIONS ENERGY USE REDUCTION**

\*Changes resulting in reduced energy consumption should be observable or documented.

\*Changes should have a noticeable impact on a site's carbon footprint.



\*Because of expected efficiency improvements and inherent economic savings, improvements must have been made within the five years prior to the time recognition is awarded.

### Changes that can result in **PROCESS/ OPERATIONS ENERGY USE REDUCTION**:

- ⇒ Updating manufacturing equipment to more energy efficient models
- ⇒ Engaging in proper machinery maintenance and upkeep
- ⇒ Implementing procedural changes to reduce energy consumption - changes to the length or schedule of operations
- ⇒ Increasing employee education and awareness of energy-saving practices

### Tips for Reducing Process/ Operations Energy Use:

1. Energy use reductions may be achieved without major overhaul simply by engaging in proper maintenance practices and implementing procedural adjustments.
2. Frequent energy use assessments and comparisons to energy use figures of other industry peers can help an organization identify areas where energy efficiency is in need of and has potential for improvement.
3. To receive recognition, new technology must provide environmental benefit that exceeds that demonstrated by the industry norm.

For more information on **PROCESS/  
OPERATIONS ENERGY USE  
REDUCTION**, visit:

#### Energy Star Website

[http://www.energystar.gov/index.cfm?  
c=about.ab\\_index](http://www.energystar.gov/index.cfm?c=about.ab_index)

#### Making Your Plant More Energy Efficient

[http://www.aiche.org/uploadedFiles/Energy\\_Website/  
Publications/051231\\_Energy\\_Efficiency\\_Rossiter.pdf](http://www.aiche.org/uploadedFiles/Energy_Website/Publications/051231_Energy_Efficiency_Rossiter.pdf)

#### US DOE Industrial Technologies Program

[http://www1.eere.energy.gov/industry/program\\_areas/  
index.html](http://www1.eere.energy.gov/industry/program_areas/index.html)

#### American Council for an Energy-Efficient Economy

<http://www.aceee.org/industry/index.htm>

