



The Solutions Network

Rochester, New York

ENERGY STAR[®] Purchasing Resources



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What is ENERGY STAR[®] Purchasing & Procurement?



- ENERGY STAR Purchasing & Procurement helps organizations identify, specify, and purchase ENERGY STAR qualified products as part of an overall energy management strategy.

www.energy2004.ee.doe.gov

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The ENERGY STAR® Label



- A trusted symbol that identifies products with superior energy performance
- Voluntary labeling program jointly managed by EPA and DOE
- Over 40 product categories and 14,000 product models

Benefits of Purchasing ENERGY STAR® Qualified Products



- Equivalent or better quality
- Consume less energy
- Lower utility bills
- Publicly demonstrate commitment to environment

ENERGY STAR® Qualified Product Categories



Lighting

Appliances

Consumer Electronics

Office Equipment

Food Service Equipment

Heating & Cooling

Windows & Roofing

Transformers

Traffic Lights



www.energy2004.ee.doe.gov

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ENERGY STAR® Purchasing Tools



- Product listings (both ENERGY STAR qualified and FEMP designated)
- Sample product specifications
- Sample drop-in procurement language
- Sample savings/life cycle cost calculators
- Briefings for procurement officials on ENERGY STAR Purchasing Resources

Available at www.energystar.gov/purchasing

www.energy2004.ee.doe.gov

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Purchasing Web Site

www.energystar.gov/purchasing



Example: Procurement Language & Specifications - Exit Signs



- Drag and drop procurement language

The Vendor Must:

Provide exit signs that meet the ENERGY STAR guidelines for energy efficiency. For ENERGY STAR qualified exit sign guidelines, see table:

- | | |
|-----------------------------------------------------------------|------------------------|
| • Input power - | ≤ 5 watts |
| • Luminance contrast - | > 0.8 |
| • Average luminance-
(measured at 0° and 45° viewing angles) | > 15 cd/m ² |
| • Manufacturer warranty - | 5 years |

Savings Calculator - Exit Signs



• Purchasing Assumptions

- Number of exit signs: 500
- Purchase price
 - ENERGY STAR: \$85
 - Non- ENERGY STAR : \$55
- Lamp Replacement Costs
 - ENERGY STAR : \$0 each year
 - Non- ENERGY STAR : \$16 total each year
- Electricity cost: \$0.06/kWh

Savings Calculator - Exit Signs



	ENERGY STAR	Non- ENERGY STAR
<i>Annual Operating Cost</i>		
Energy cost	\$1,314	\$10,512
Maintenance cost	\$0	\$13,860
Total:	\$1,314	\$24,372
<i>Life Cycle Cost</i>		
Lifetime operating cost	\$10,658	\$188,315
Purchase price	\$42,500	\$27,500
Total:	\$53,158	\$215,815

Savings Calculator - Exit Signs



- **Savings Results**

- Total annual savings: \$23,058
- Total net life cycle savings: \$162,658
- Payback in 8 months
- Carbon emissions reduction equivalent to removing 229 cars from the road.

Energy-Efficient Purchasing



- **States:**
 - Indiana
 - Maryland
 - Hawaii
- **Colleges and universities:**
 - Penn State University
 - University of Maine
 - Green Mountain College

5 Steps for Procuring ENERGY STAR® Qualified Products



- 1 **Review** purchasing policies and identify product categories where savings exist
- 2 **Visit** www.energystar.gov/purchasing for product listings, and access Savings Calculators to determine savings opportunities
- 3 **Coordinate** with appropriate offices within organization to encourage the purchase of identified ENERGY STAR products
- 4 **Modify** procurement language and inform employees
- 5 **Track and communicate** success

Why Monitor Power Management (MPM)?



- 54 million office computers and monitors use 1% of the nation's electricity
- More than half of electricity used to power monitors is wasted:
 - 60% left on at night
 - 45% not enabled for power management
- MPM places active monitors (70 watts) into a low power "sleep" mode (4 watts)
- Free software available at www.energystar.gov/powermanagement

Why MPM? Savings



- A 1,000-computer organization typically saves 200,000 kWh by enabling MPM. Equivalent to...
 - \$20,000/year (at 10 cents/kWh),
 - 40 acres of trees,
 - Emissions from 27 cars, or
 - 170 homes lit

Case Studies



- Cisco Systems
 - 50,000 Computers
 - Will save \$1 million annually
- Fairfax County Public Schools
 - 60,000 Computers
 - Will save \$600,000 annually
- Westchester County
 - 3,000 Computers
 - Projected to save \$60,000 annually

MPM Barriers and Tools



- **IT Manager**
 - Barrier: Time consuming task that has no bearing his performance
 - Tools: Free software and IT consulting services
- **End User**
 - Barrier: Education Hurdle
 - Tools: Outreach materials to demonstrate MPM virtues
- **Upper Management**
 - Barrier: Indifference
 - Tools: Positive publicity through a successful PR campaign

PR Tool - Million Monitor Drive Campaign



- Organizations pledge to “contribute” to the goal of addressing a million monitors in 2002. (Goal reached in 2002.)
- Helps secure high priority for MPM within organization.
- Honored Top Contributors to Million Monitor Drive at ENERGY STAR Awards ceremony

For More Information



- www.energystar.gov
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