



## CHANGE FOR THE BETTER WITH ENERGY STAR

Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. [www.energystar.gov](http://www.energystar.gov)

### ENERGY STAR in Local and State Government – Good for Your Budget and the Environment

Local and state governments may obtain significant reductions in energy bills by changing purchasing policies to specify ENERGY STAR qualified products. The table below presents a basket of ENERGY STAR qualified products – computers and monitors, vending machines, exit signs, copiers, and traffic signals – applicable to state and local governments. These products can save you over \$1.5 million in electricity costs (based on an electricity rate of \$0.071/kWh)<sup>1</sup> and prevent 16,658 tons of carbon dioxide emissions over their lifetime compared to conventional products.

Simple Steps to Significant Savings Applicable to Local and State Governments				
Action	Annual Energy & Maintenance Savings	Annual Savings CO2 (Tons)	Life-Cycle Energy & Maintenance Savings	Life-Cycle Savings CO2 (Tons)
Use ENERGY STAR power management to enable low-power mode on 5,000 monitors (15" LCD) and computers	\$41,700	420	\$151,500	1,681
Replace 50 conventional vending machines with ENERGY STAR versions	\$8,800	89	\$93,400	1,247
Replace 500 incandescent exit signs with the ENERGY STAR LED type	\$25,700	119	\$208,300	1,190
Use 300 ENERGY STAR qualified and enabled copiers	\$3,000	31	\$16,000	184
Replace conventional traffic signals at 100 intersections with LED signals	\$132,100	1,236	\$1,071,100	12,356
<b>Totals</b>	<b>\$211,300</b>	<b>1,895</b>	<b>\$1,540,300</b>	<b>16,658</b>

(1) Figures obtained from calculators on the Purchasing & Procurement Web page; savings have been rounded to the nearest hundred for simplicity. Calculators may be downloaded (right-click) or used from the Web (left-click).

#### To Learn More

The Purchasing and Procurement Web site ([www.energystar.gov/purchasing](http://www.energystar.gov/purchasing)) helps you locate ENERGY STAR products by brand and model number, understand the differences between ENERGY STAR and non-ENERGY STAR products, and determine savings with ENERGY STAR. Additional savings would result from using ENERGY STAR food service products in cafeterias, enabling ENERGY STAR features on printers, scanners, and other office products, using Computer Power Management, and using ENERGY STAR heating and cooling equipment, water coolers, and compact fluorescent lights.

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appropriate ITE specification (either current or future) may qualify as ENERGY STAR. The wattage requirements in the table below are to be met by the individual module, not the traffic signal heads as defined in Section 1(C). These levels include power demand from the LED power circuit.

**Table 1: Energy-Efficiency Criteria for ENERGY STAR Qualified Traffic Signal Modules**

Module Type	Maximum Wattage (at 74°C)	Nominal Wattage (at 25°C)
12" Red Ball	17	11
8" Red Ball	13	8
12" Red Arrow	12	9
12" Green Ball	15	15
8" Green Ball	12	12
12" Green Arrow	11	11
Combination Walking Man/Hand	16	13
Walking Man	12	9
Orange Hand	16	13

- 4) **Test Criteria:** The products must meet the minimum performance requirements of the relevant ITE specification, and be tested under the conditions presented in Section 6.4.2 of the VTCSH Part 2.
- 5) **Effective Date:** The date that manufacturers may begin to qualify products as ENERGY STAR will be defined as the *effective date* of the agreement. The ENERGY STAR Traffic Signal specification is effective immediately.
- 6) **Future Specification Revisions:** ENERGY STAR reserves the right to change the specification should technological and/or market changes affect its usefulness to consumers, industry, or the environment. In keeping with current policy, revisions to the specification will be arrived at through industry discussions. Specifically with regard to traffic signals, EPA expects that revisions to this specification will be discussed once the ITE specification is final for arrows and pedestrian heads. In addition, discussion will be necessary once ITE compliant amber balls and arrows are developed and marketed by manufacturers.