

Five simple steps for sustainable lighting solutions

SEE THE WORLD IN A NEW LIGHT

SYLVANIA





The best plan for a better environment.

A quick fix doesn't go far enough.

Protecting and preserving our environment requires going beyond mercury. A multi-faceted approach is needed. That's why OSRAM SYLVANIA has developed a comprehensive five-component program for environmental sustainability in lighting products. Advanced technologies are helping us to be more efficient. We're using less energy and fewer resources, and generating less waste. So whether you're interested in lowering your energy consumption, avoiding unnecessary maintenance, identifying options for lamp and ballast recycling, or finding products with fewer hazardous materials, OSRAM SYLVANIA can help. We're committed to meeting today's lighting needs without compromising the future.

Our plan for environmental sustainability in lighting encompasses:

- 1. Longer lamp life** to reduce the use of natural resources
- 2. Reduced use of hazardous materials** including lead and mercury
- 3. Lamps with higher efficacy** to avoid over-lighting spaces with too many lamps
- 4. Energy efficiency and controllability of systems** to reduce greenhouse gas emissions
- 5. Recycling** to keep mercury and lead from the waste stream

Global Care:

Global Care represents our commitment to social and environmental responsibility worldwide. As a leader in innovative lighting solutions, we are dedicated to products and processes that contribute to solving global sustainability challenges, address economic needs and protect the environment for today and for the future.

We are using fewer natural resources, saving energy for our customers, reducing our carbon footprint, and facilitating the recycling of lamps and other materials to avoid millions of pounds of waste in landfills.



**Global Care™ represents
OSRAM SYLVANIA's
commitment to environmental
and social responsibility.**



1 Longer lamp life

The longer life of our lamps reduces the number of lamps needed for a specific application, lowering the demand for raw materials. More importantly, it significantly lowers maintenance and recycling costs, and reduces the total amount of mercury and lead used in an application.

2 Reduced use of hazardous materials

Lowering the use of hazardous materials is paramount at OSRAM SYLVANIA. To date, we have reduced mercury use by over 90% in our fluorescent lamps, and we continue to lower mercury levels in lamps while maintaining quality and performance. Our micro-mini CFL has less than 1.5 mg of mercury in it, the lowest of any screw-based CFL on the market. In addition, we are completely eliminating lead from nearly all HID (high intensity discharge) and USA manufactured fluorescent lamps.

Our ECOLOGIC® products pass the US EPA's Toxicity Characteristic Leaching Procedure (TCLP) test for hazardous waste determination. We offer nearly 1,000 ECOLOGIC products—more than any other manufacturer. In addition, all applicable SYLVANIA lamps are compliant with the California RoHS regulations to restrict the use of hazardous substances.

3 Lamps with higher efficacy

Our products make it possible for you to light to recommended levels using fewer lamps and possibly fewer fixtures. Higher LPW (Lumens Per Watt) also means less energy usage and a reduction of power plant emissions.

4 Energy efficiency and controllability of systems

Energy efficient systems with lighting controls help avoid excessive greenhouse gas emissions. In the US, 50% of our electricity comes from coal-burning power plants. Another 30% comes from power plants burning other fossil fuels. Burning fossil fuels results in emissions of CO₂, methane and nitrous oxide, as well as mercury emissions, from power plants. Lighting accounts for 30% of a commercial building's electricity load. When we can reduce our electricity demand, the attributable greenhouse gas emissions are avoided.

5 Lamp Recycling

Fluorescent and HID lamps contain small amounts of mercury. Recycling is the most responsible way to dispose of these products—keeping mercury and lead out of the waste stream. We offer turnkey recycling solutions through SYLVANIA Lighting Services (SLS). No other service company in the United States sends more lamps to be recycled than SLS.

More than mercury

Mercury is a fundamental component in fluorescent lamps. It is needed to produce light and to ensure that a fluorescent lamp will achieve excellent lumen maintenance throughout its potentially long average rated life. At the same time, there are known environmental consequences of mercury. For this reason, it has been the goal of OSRAM SYLVANIA to reduce the use of mercury in fluorescent and HID lamps without sacrificing the performance requirements of high efficacy and extended lamp life. In addition, we have always recommended lamp recycling for all mercury-containing lamps, regardless of whether they pass associated tests classifying them as non-hazardous waste.

Mercury is just one criterion to consider when selecting a fluorescent lighting system. Other factors contribute to the overall environmental impact including energy consumption, efficacy and lamp life. More efficient fluorescent systems that incorporate energy-saving lamp types and high-efficiency electronic ballasts such as OCTRON® XP lamps and QUICKTRONIC® QHE ballasts will ultimately contribute less mercury and CO₂ over their lifetime through reduced energy demand at the power plant. Additionally, longer-life lamps extend lamp replacement cycles, illustrated in the chart below.

A fluorescent lamp containing the lowest amount of mercury is not always the most environmentally preferable solution. Energy-saving, higher-performance, and longer-life fluorescent systems will ultimately prevail as a more environmentally sound choice.

For more information about the OSRAM SYLVANIA commitment to environmental sustainability, or about any of our energy-saving and environmentally preferable lighting solutions, please visit www.sylvania.com/sustainability

Fluorescent System Performance Comparisons Help You Choose the Solution That is Right For You

Lamp Type	Lamp Wattage	Mercury(mg) in each lamp	CA RoHS Compliant	Lead-free	Lamp Life (hrs at 3 hrs per start)	Number of Lamp Cycles in 5 year period	Total 5-year mercury contribution (mg)	Annual CO ₂ emissions (lbs)
Competitive 700 Series T8	32	1.7	Yes	No	30,000	2.00	36.2	320
Competitive 800 Series T8	32	1.7	Yes	No	30,000	2.00	36.2	320
OCTRON® 700XP/ECO	32	3.5	Yes	Yes	40,000	1.00	36.4	320
OCTRON® 800XP/ECO3	32	3.5	Yes	Yes	40,000	1.00	36.4	320
OCTRON® 800XPS/ECO3	32	2.9	Yes	Yes	40,000	1.00	30.4	268
OCTRON® 800XP/SS/ECO3	28	2.9	Yes	Yes	40,000	1.00	32.5	297
OCTRON® 800XP/SS/ECO3	25	2.9	Yes	Yes	40,000	1.00	29.3	268
OCTRON® 800XP/SS/XL/ECO3	28	3.5	Yes	Yes	52,000	1.00	34.3	297

Calculations assume two-lamp configuration on QUICKTRONIC high efficiency programmed rapid start electronic ballast; annual operating hours of 4380; total mercury contribution includes power-plant emissions
Cost of ownership includes energy usage, lamp recycling cost and replacement labor (\$20/hr.) initial installation and cost of product are not included
Lamp replacement assumed at 70% of rated life per IESNA Recommended Practice for Lighting Maintenance

Leadership in Energy & Environmental Design (LEED®)

Lighting in LEED

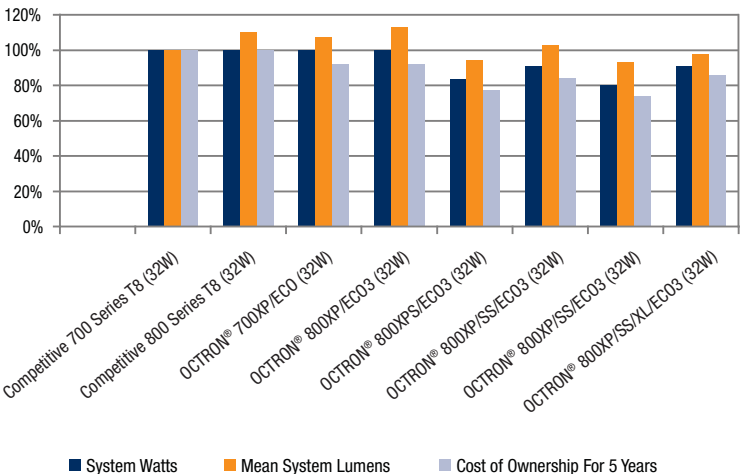
The LEED green building rating system was designed by the US Green Building Council (USGBC) to provide building owners and operators with a framework for implementing green building design, construction, and operations and maintenance solutions.

- The greatest number of points available in each of the LEED rating systems is in energy efficiency
 - Improving the lighting in a 100,000 sq. ft. building by 30% can achieve 6-8 EA credits
 - Energy-efficient lighting directly affects the bottom line, resulting in additional benefits
- SYLVANIA lamps have low mercury levels and can help achieve MR4 credit(s)
- There are no lamps that “meet” LEED
- SYLVANIA lighting controls and dimmable ballasts can help achieve the controllability of lighting systems credit



This light source meets restrictions on hazardous substances.

Relative Fluorescent System Performance:





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