

Energy Saving Lighting

GE has a suite of products to upgrade your public spaces, making them more efficient while also reducing CO₂ emissions.



Public and parking area lighting

Advanced optical design provides high uniformity in a reduced wattage system that can replace existing HID fixtures in public areas, municipal parking lots, and parking garages.

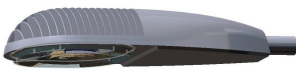


- ✓ Energy savings
- ✓ Quality of light, fewer fixtures
- ✓ Reduced light trespass and light pollution
- ✓ Long 10-year product life

53%
Less energy used
Lower maintenance cost

Roadway and street lighting

Advanced optical design provides high uniformity in a reduced wattage system that can replace existing HID fixtures on a one-for-one basis in typical roadway and street lighting applications.



- ✓ Energy savings
- ✓ Reduced light trespass and light pollution
- ✓ Long 10-year product life

21%
Less energy used
Lower maintenance cost

Traffic and pedestrian signals

LED light module replaces existing incandescent light sources, providing significant energy and maintenance savings over the life and warranty period.



- ✓ Energy savings
- ✓ Long service life
- ✓ Incandescent look

93%
Less energy used
Lower maintenance cost

Linear fluorescent interior lighting

GE's linear fluorescent line helps you increase energy savings, reduce maintenance costs, and reduce environmental impact through proven energy savings systems in schools and office buildings.



- ✓ GE's Super X-tra Life T8 Lamps have a 47% longer life than standard F32T8s
- ✓ GE's F28T8/UMX/ECO with GE UltraMax® Ballast provides a 44% reduction in wattage

Up to **40%**
Less energy used
Lower maintenance cost



imagination at work

LED products deliver cost savings and reduction in CO₂ emissions

(Annualized Metrics ¹)	Public lighting and parking	Roadway and street lighting	Traffic and pedestrian signals	Total benefits
Energy savings (kW)	4,809,230	3,153,600	5,553,950	13,516,780
Energy reduction vs. incumbent	53%	21%	93%	70%
\$ Savings from energy reduction	\$360,693	\$236,500	\$416,000	\$1,013,193
Reduced CO ₂ emissions	2,900	1,900	3,349	8,149 (metric tons)

¹ Calculations are based on typical number of intersections and fixtures in a municipality with 500,000 inhabitants (7,500 area fixtures, 30,000 roadway fixtures, 700 intersections). Operating hours with normal use of approximately 30-50%. Utility rate of \$0.75 (NC state average). CO₂ calculations based on GE ecomagination certified formulas).

² Data based on 800,000 sf building. \$.10/kWh. T12 lamp system operating at 148 watts switching to T8 lamp system at 96 watts.

GE partners with City of Sacramento to light historic auditorium

The Sacramento Memorial Auditorium is listed on the National Historic Register and has been the home of concerts, inaugurations, commencements, and other civic events in the city of Sacramento for 80 years. Because of its importance, a design team was tasked with developing a lighting design with GE products that is significantly better than California Title 24 and that respects nighttime skies.



Comprehensive solution - The chosen design features several GE ConstantColor® CMH® ceramic metal halide and GE T5 High Output Ecolux® fluorescent lamps. Interior lighting features fluorescent GE 32-watt T8 3000K lamps. The lighting design also includes all plaza, street and walkway lighting for the building.

Energy efficiency - The project used a combination of GE lighting products to achieve desired effects with the lowest practical wattage. In the end, the design betters California Title 24 limits by 22% and the project received a LEED® Credit SS8 for lighting pollution reduction.

Awards - As a result of the project's functional excellence, energy effectiveness, and cost effectiveness, it received the 2008 GE Edison Award and an Award for Excellence in Environmental Design. The City of Sacramento partnered with Benya Lighting Design and M. Neils Engineering, Inc. to light the historic auditorium.



Absorb 1,100 metric tons of CO₂

Your city could save up to \$200,000 a year in energy costs simply by replacing 10,000 linear fluorescent fixtures from a T12 lamp and electromagnetic ballast system to a more energy efficient T8 lamp and ballast system. GE's Ultra F28T8 lamp and UltraMax® ballast system in this application example would reduce CO₂ emissions equivalent to planting 395 acres of trees per year.²

ecomaginationSM

