

The Race to Replace the Common Light Bulb

The Bright Tomorrow Lighting Prize (L Prize™) competition is the first government-sponsored technology competition designed to spur lighting manufacturers to develop high-quality, high-efficiency solid-state lighting products to replace the common light bulb. It aims to substantially accelerate America’s shift from inefficient, dated lighting products to innovative, high-performance products.



The Energy Independence and Security Act (EISA) of 2007 directed the U.S. Department of Energy (DOE) to establish the L Prize competition. The legislation challenges industry to develop replacement technologies for two of today’s most widely used and inefficient technologies: 60W incandescent lamps and PAR 38 halogen lamps. It also calls for development of a 21st Century Lamp that delivers more than 150 lm/W. The competition will award winning products with a cash prize, plus opportunities for federal purchasing agreements, partner program promotions, and other incentives.

Competition Requirements Set the Bar High

L Prize submissions must meet strict technical specifications to ensure compliance with the general requirements outlined in the legislation. Additional details are also specified for quality, performance, and mass manufacturing. To download the complete competition requirements, see www.lightingprize.org.

60W Incandescent Replacement Lamp	PAR 38 Halogen Replacement Lamp	21 st Century Lamp
<ul style="list-style-type: none"> • More than 90 lm/W • Less than 10 watts • More than 900 lumens • More than 25,000 hour life • More than 90 CRI • Between 2700–3000 K CCT 	<ul style="list-style-type: none"> • More than 123 lm/W • Less than 11 watts • More than 1,350 lumens • More than 25,000 hour life • More than 90 CRI • Between 2700–3000 K CCT 	<ul style="list-style-type: none"> • To be defined in a future L Prize announcement

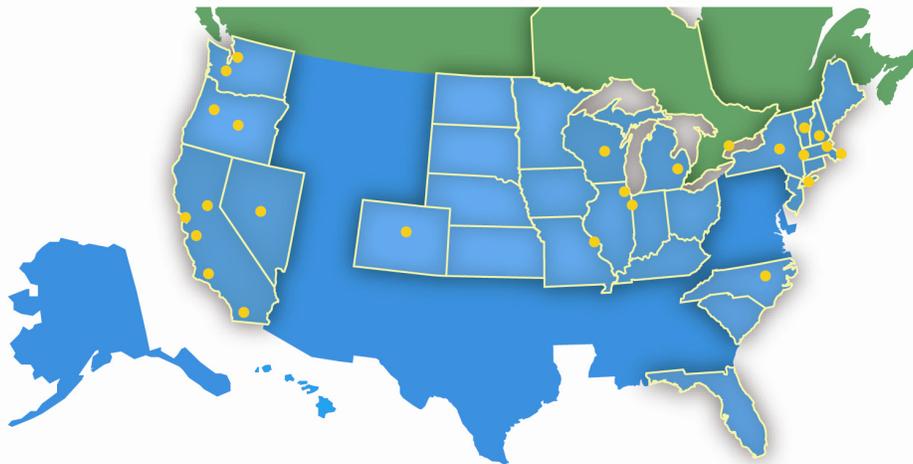
The competition also includes a rigorous evaluation process for proposed products, designed to detect and address product weaknesses before market introduction, to avoid problems with long-term market acceptance. Comprehensive product evaluation will include performance and lumen depreciation testing conducted by independent laboratories, field assessments conducted in collaboration with utilities and other partners, and stress testing under extreme conditions. This multistep evaluation process is designed to provide a high level of confidence in the performance and energy efficiency of the winning products.

Partners Leverage Know-How and Market Pull

A growing number of utilities and energy efficiency organizations from coast to coast have signed on with DOE as L Prize partners. These program partners have agreed to play an important role in evaluating and promoting the winning L Prize products, developing markets, and providing access to more than 100 million customers from Los Angeles to Cape Cod. These organizations participate in bi-monthly planning meetings, working with DOE to develop region-specific plans for field assessments and product promotion.

Field assessments of submitted products will provide valuable information on energy use, lighting system performance, reliability, customer acceptance, and cost-effectiveness in real-world conditions. Product promotions may include incentives paid directly to manufacturers or to consumers, collaborative marketing and educational campaigns, retailer partnerships, and demonstrations. To learn more, see www.lightingprize.org.

POTENTIAL TO REACH 100 MILLION CONSUMERS.



L PRIZE PARTNERS

- Ameren Illinois
- Cape Light Compact
- Commonwealth Edison
- Connecticut Energy Efficiency Fund
- Connecticut Light & Power
- DTE Energy
- Efficiency Vermont
- Energy Trust of Oregon
- Eugene Water and Electric Board
- green Tbiz, Toronto Association of Business Improvement Areas
- Long Island Power Authority
- Midwest Energy Efficiency Alliance (covers 13 states)
- National Grid
- Natural Resources Defense Council
- New York State Energy Research and Development Authority
- Northeast Energy Efficiency Partnerships (covers 8 states)
- NSTAR Electric
- NV Energy
- Pacific Gas & Electric
- Platte River Power Authority
- Progress Energy
- Puget Sound Energy
- Sacramento Municipal Utility District
- San Diego Gas & Electric
- Seattle City Light
- Southern California Edison
- United Illuminating Company
- Wisconsin Energy Conservation Corporation

Opportunities for Recognition

The L Prize competition offers significant opportunities for recognition. All competitors and program partners will be in the media spotlight, both on the L Prize Web site and in national, trade, and regional publications.

For more information on L Prize, see www.lightingprize.org.

EERE Information Center
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