



L•PRIZE™

Bright Tomorrow Lighting Prizes

Transforming the
lighting landscape



Transforming the lighting landscape

The 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. The competition will recognize winning products as the best of the best, offer immediate market potential for sales (opportunities for federal purchasing agreements, partner program promotions, and incentives), and award a cash prize.

The L Prize competition aims to substantially accelerate America's shift from inefficient, dated lighting products to innovative, high-performance products. Just as Thomas Edison transformed illumination over a century ago, the L Prize will drive innovation and market adoption.

The L Prize Competition

The Energy Independence and Security Act of 2007 directed the U.S. Department of Energy (DOE) to establish the Bright Tomorrow Lighting Prize (L Prize) competition. The legislation challenges industry to develop replacement technologies for two of today's most widely used and inefficient products: 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.

Lighting products meeting the competition requirements would consume only about 17 percent of the energy used by most common incandescent lamps today.

The legislation establishes basic requirements and prize amounts for each category. To draw on lessons learned from past lighting market introduction experiences, DOE worked with several leading California utilities to tap their deep expertise in developing a comprehensive technology competition program.

L Prize product submissions must meet strict technical specifications to ensure compliance with the general requirements outlined in the legislation, with additional details specified for quality, performance, and mass manufacturing. Lighting products meeting the competition requirements would consume only about 17 percent of the energy used by most common incandescent lamps today.

The competition also includes a rigorous evaluation process for proposed products, including product testing by independent laboratories and field assessments in real world conditions. For more details on the competition requirements, visit www.lightingprize.org.

Competition Requirements

60W Incandescent Replacement Lamp

- 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

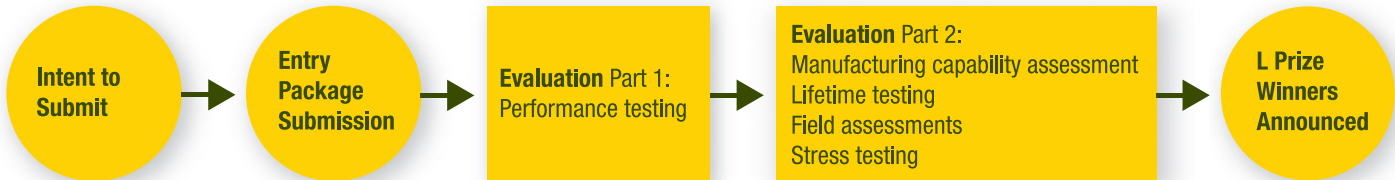
PAR 38 Halogen Replacement Lamp

- 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

21st Century Lamp

- To be defined in a future L Prize Program Announcement

Competition Process



To download the complete Program Announcement and competition requirements, visit www.lightingprize.org.

Potential to reach 100 million consumers



Leaders for Change in Illumination Technology

A growing number of utilities and energy efficiency organizations from across the country have signed on with the U.S. Department of Energy as L Prize partners, agreeing to work cooperatively to promote high-efficiency solid-state lighting technologies. These partners are prepared to assist in evaluation of product submissions and to implement incentives and promotions to stimulate additional sales for the award-winning products.

Product evaluation

During the competition, these program partners will assist in product evaluations by conducting field assessments of proposed products and providing input to the overall evaluation process and selection of the winners.

Product promotion

Program partners will also play an important role in promoting and developing markets for the winning L Prize products. Product promotions might include utility incentives, collaborative marketing and educational campaigns, retail partnerships, and demonstrations.

Join us

Learn more about becoming an L Prize partner at www.lightingprize.org.

L Prize Partners

Ameren Illinois
Cape Light Compact
Commonwealth Edison
DTE Energy
Efficiency Vermont
Energy Trust of Oregon
Eugene Water and Electric Board
Long Island Power Authority
Midwest Energy Efficiency Alliance (covers 13 states)
National Grid
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
Wisconsin Energy Conservation Corporation

About Solid-State Lighting

Solid-state lighting has the potential to reduce lighting energy use by one-third, and to revolutionize the efficiency, appearance, and quality of lighting. No other lighting technology offers so much potential to save energy, at a time when our nation needs bold solutions to vastly reduce our energy consumption.

The U.S. Department of Energy has made a long-term commitment to provide national leadership to advance research, development, and market introduction of solid-state lighting. The L Prize competition aims to accelerate the development and market adoption of innovative, high-performance products that will save significant amounts of energy and millions of metric tons of greenhouse gas emissions.

Energy Savings and Environmental Impact: 60W Incandescent Replacement Winner

If every socket in the U.S. converted from 60W incandescent lamps to the 10W L Prize winner, the country would save approximately 34.0 terawatt-hours of electricity in one year, and avoid 5.6 million metric tons of carbon emissions. That's enough electricity to power the lights of 17.4 million U.S. households.

Energy Savings and Environmental Impact: PAR 38 Halogen Replacement Winner

If all 141 million reflector lamp sockets in the U.S. converted overnight to use the new L Prize lamp, the country would save approximately 15.6 terawatt-hours of electricity per year and avoid roughly 2.6 million metric tons of carbon emissions. These savings are equal to the annual electricity consumption of the entire state of Wyoming.

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U.S. Department of Energy

Visit www.lightingprize.org for more details on competition guidelines and how to become a program partner.



U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy

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www.eere.energy.gov*

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