

# LED Efficiency: What America Stands to Gain

No technology has more energy-saving potential than lighting with LEDs. But maximizing the energy efficiency of solid-state lighting technology will require continued R&D investment, by both government and industry.

*Is it worth it?*

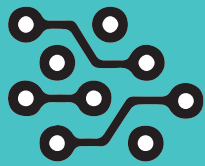
Here are five ways the United States will benefit by keeping a strong focus on efficiency in LED lighting research.



**5.1 quads** of energy  
**saved** each year by 2035

*That's nearly twice the electricity we'll get from solar power by 2035*

*Which means fewer power plants, lower energy bills, reduced carbon emissions*



Scientific **progress**  
on key technology **frontiers**

*Enhancing U.S. leadership in clean technology, electronics, and communications*

*Such as materials science, semiconductor physics, quantum dots, optics*



Better **quality** in  
efficient lighting **products**

*Better optical control, less glare, color stability, longer product lives*

*Which provide more light with less electric power and less waste heat*



**Affordable** products  
with competitive **first** costs

*For lighting that not only saves money over time on energy bills*

*but also right out of the box*



U.S. jobs with  
**domestic** manufacturers

*Who will be positioned for global market success with leadership in high-brightness LEDs*