



Berkeley Climate Action Plan: Tracking our Progress

Building Energy Use – Smart Lights Program



Goal: Enhance energy services & standards and encourage energy upgrades for existing commercial properties

Performance metric: Annual KWh saved across all Smart Lights Program projects

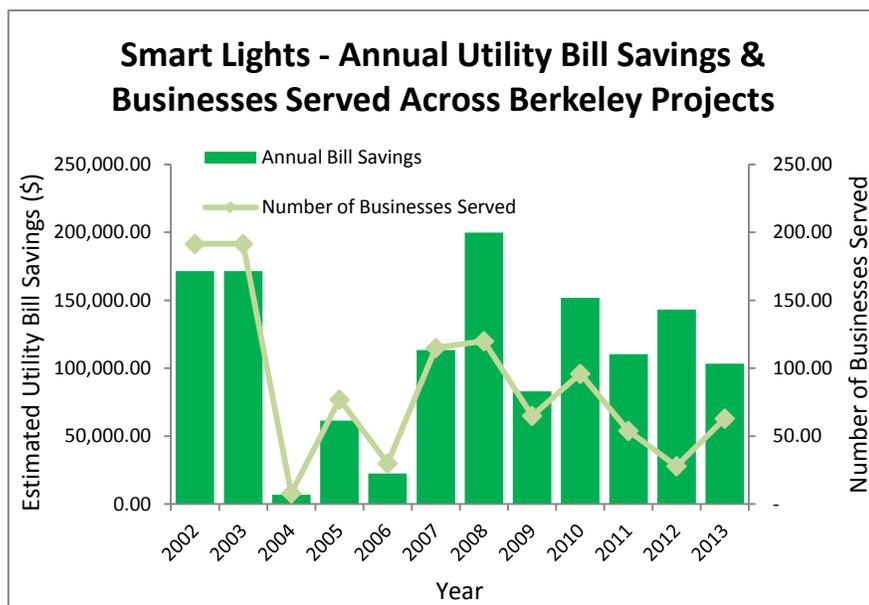
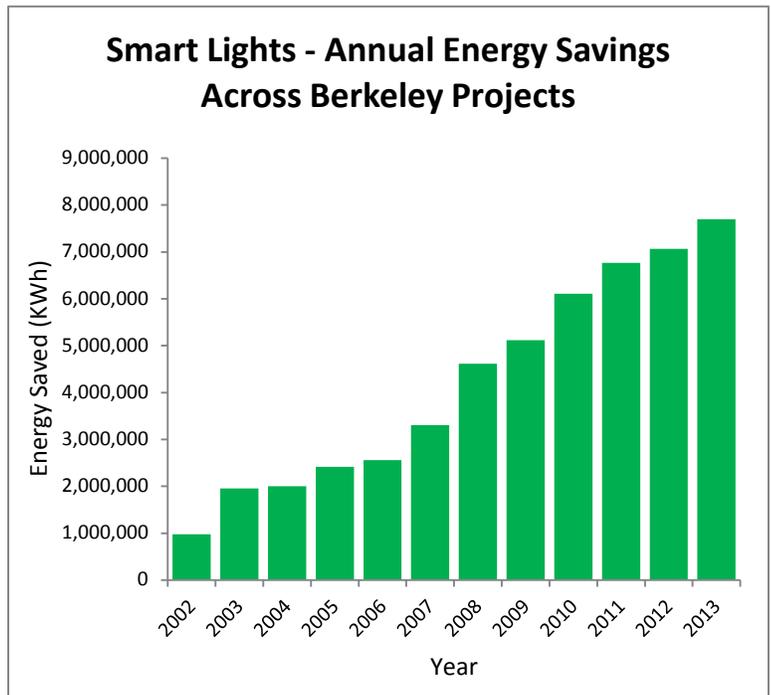
Target: The Smart Lights program, offered by Community Energy Services Corporation, helped businesses save over 30,000,000 KWh in Alameda and Contra Costa Counties during 2010-2012. In the 2013-2014 program, SmartLights seeks to reduce energy use by ~3,500 kW and save 17.5 million kWh. Smart Lights outcomes contribute to efforts to achieve Berkeley’s target of reducing community-wide building energy use-related greenhouse gas emissions 33% (2% per year) below 2000 levels by 2020.

Status: Smart Lights finished ahead of schedule for its 2010-2012 program cycle. The program achieved 105% of its 3-year electricity use reduction target for Alameda and Contra Costa Counties with savings totaling 31,391,358 KWh.

In Berkeley alone, Smart Lights provided high quality energy-efficient lighting and refrigeration improvements to 28% of the approximately 3,500 Berkeley businesses between 2002 and 2012.

As of 2013, cumulative annual savings on energy bills across all Berkeley businesses served by Smart Lights exceeds \$1.3 million. The corresponding energy saved annually across all Berkeley projects is 7.7 million KWh.

This translates to an annual reduction of approximately 1,900 metric tons of GHG emissions, the equivalent of taking over 400 passenger vehicles off the road. In 2013, Smart Lights served 63 Berkeley businesses, resulting in over 630,000 KWh of energy saved.



Why is this metric important?

The Smart Lights program is a critical component of Berkeley’s efforts to help small businesses save energy. Smart Lights targets businesses that use less than 200 KW. Administered by the Community Energy Services Corporation, Smart Lights offers free start-to-finish technical assistance and instant rebates to reduce the cost of upgrades such as comprehensive lighting retrofits; refrigeration tune-ups, controls, and seals replacement; and referrals to appropriate HVAC programs. Since lighting typically constitutes 40% to 80% of small business’ energy bills, efficient lighting is a reliable way save energy while reducing costs.

Resources and assistance for community members

Smart Lights (www.ebenergy.org/smart-lights) offers businesses free, independent, start-to-finish technical assistance and instant rebates to help defray the cost of upgrading and/or repairing existing equipment.

SmartSolar (<http://ebenergy.org/smart-solar-program/>) provides free, independent energy education and site-specific project advice to help Berkeley residents and businesses go solar.

Berkeley Solar Map (www.CityofBerkeley.info/solarmap) is an interactive tool for viewing locations of existing solar installations in Berkeley. It also allows one to calculate the benefits of going solar by determining the potential size and cost for solar PV or solar thermal on any rooftop within the City of Berkeley.

Data sources and technical notes: Data provided by Community Energy Services Corporation.

Tracking our progress: Review Climate Action Plan performance metrics at www.cityofberkeley.info/climate