



A global transition to highly efficient LED lamps would avoid 462 megatonnes of CO₂ emissions in 2030

Lighting the World, Efficiently

Lighting accounts for 15% of total electricity consumption and 5% total greenhouse gas emissions worldwide. It is one of the first energy services that households acquire, and its benefits are far-reaching—from education to safety to productivity.

Despite rapid evolution in recent decades toward more efficient, sustainable lighting technologies like LEDs, many people around the globe lack access to lighting altogether or resort to expensive, polluting stopgap methods. In fact, 1 in 3 people worldwide obtain light from kerosene, candles, batteries, or other pricey sources, spending 15% of total global lighting costs but receiving only 0.2% of lighting services. Furthermore, the public health hazard presented by flame-based light sources contributes to burns, house fires, air quality problems and poisonings.

CLASP is expanding its work around the world to accelerate market transitions toward energy-efficient, high quality LED lighting – phasing-out incandescent and mercury-based light sources, and flame-based lighting. We are engaging with policymakers on-and off-the-grid, offering a wide range of support to design and implement efficient lighting policies and programmes. Through market analysis, CLASP helps determine and implement the most appropriate and cost-effective demand-side energy efficiency solutions, saving energy and money for everyone.

Drawing on the best policy practices and technical expertise, CLASP engages key stakeholders at the local, national, and regional level to promote energy-efficient lighting in five key ways:



Policy & Analysis

Supporting governments to determine and implement the most ambitious and cost-effective policy solutions, drawing on global best practice and leading technical expertise



Market Development

Accelerating market adoption of better technologies, mitigating risk, enhancing communications, and maximising benefits for consumers, businesses, and policymakers



Financing

Analysing internal and external sources of funding and financing mechanisms to mitigate up-front costs and accelerate market transitions to energy-efficient lighting



Compliance

Creating and sharing trusted resources on developing compliance frameworks, providing capacity building and training to governments, test labs and other key partners



Test Laboratory Support

Building and enhancing test laboratory capacity, promoting regional partnerships and strengthening testing capabilities

For nearly 20 years, CLASP has promoted energy-efficient policies and programs that facilitate a shift towards more energy-efficient lighting, appliances, and equipment. Our team of international experts has collectively worked in nearly 100 countries designing and delivering on these programs.



India – CLASP has played a critical role in India’s transition to efficient lighting. We supported BIS to develop India’s first standards for LEDs in 2012 and LED street lights in 2016, and helped BEE to develop S&L for LEDs in 2016. These standards laid the groundwork for India’s Unnat Jyoti by Affordable LEDs for All (UJALA) program, which is working to deploy 800 million LED lights to residents throughout the country. Today, the UJALA program has led to sales of over 320 million certified LED lights and has brought the price per light down from around USD \$5 to less than \$1 per light in 2016. To support India’s transition toward efficient lighting, CLASP assessed the Indian lighting market to identify market transformation for several types of residential lighting, and expect to recommend increasing stringency of some existing lighting policies.



Caribbean & Central America – CLASP developed a roadmap for appliance energy efficiency policies that aims to harmonize test methods, energy-efficiency metrics and MEPS levels for energy-intensive household appliances and products among members of the Caribbean Community (CARICOM). The Policy Roadmap notes the benefits of energy-efficiency in domestic lighting, air conditioning, and refrigeration as a way to achieve low cost, realistic climate change mitigation targets in the region. We are now working with CARICOM on standards for lighting as they begin their phase-out of incandescent lamps.



CLASP has also been closely following an effort by SICA (the Central American Integration System) to harmonize standards in the region. Most recently, NIST and the OAS have engaged CLASP to review the regional regulation on LED luminaires (for street lighting) and the conformity assessment procedure (i.e., compliance regime) that will be used to ensure products are complying with the standards.

South America – In Peru, CLASP reviewed a draft policy measure and provided suggestions for ways to strengthen the measure such that, once adopted, citizens of Peru would enjoy from high-quality, cost-effective, energy-efficient LED lighting products.



Europe – CLASP plays a central role in advising and collaborating with the European Commission (EC), Member States, and environmental NGOs on high-impact lighting policies. Since 2010, CLASP has providing technical support on the European lighting regulations, including testing and test standard development, research and analysis, international comparisons, and briefings for key stakeholders. CLASP quantifies energy savings potential, forecasts technology trends, identifies and develops remedies for loop-holes, and conducts studies directly linked to policy measures.



Africa – In the ECOWAS region, CLASP staff helped promote the development of quality and performance requirements for on-grid and off-grid lighting products throughout ECOWAS. Two harmonised standards were published and the governments of this region are actively looking at these policy measures. CLASP also supported standards bodies in developing quality and performance requirements for off-grid lighting products in Kenya, Tanzania, and Ethiopia.

CLASP improves the energy and environmental performance of the appliances & equipment we use every day, accelerating our transition to a more sustainable world. Our programs increase uptake of affordable, low-impact, high-quality appliances. We serve as the leading international voice & resource for appliance energy efficiency policies and market acceleration initiatives.