



Global Lighting and Energy Access Partnership (Global LEAP)

Promoting energy access by supporting innovation and competition in the off-grid market

Goals

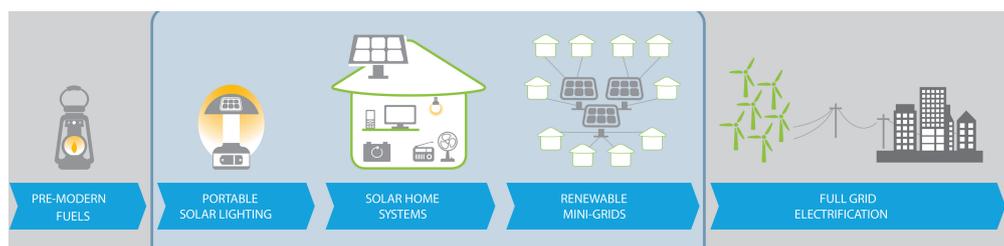
Global LEAP and its partners aim to accelerate progress toward achieving UN Sustainable Development Goal 7 – universal energy access by 2030 – by accelerating markets for small-scale solar lighting, off-grid appliances, and mini-grids through efforts focused on promotion of demand-side super-efficiency, product quality assurance, and partner collaboration.

Rationale for being included in the CEM

Globally, 1.2 billion people live without access to electricity and another billion have only unreliable access.

Emerging technologies – ranging from small solar portable lanterns and pico-lighting systems to larger standalone energy systems and mini-grids – provide off-grid households

and businesses with access to clean, reliable energy, displacing pre-modern fuels, and delivering numerous health, environmental, and socioeconomic benefits. This effort presents a significant commercial opportunity; however, the markets for these products are nascent and need to be brought to scale. According to research conducted in support of Global LEAP, by 2020 the market for three of the most promising off-grid appliances (e.g. fans, televisions, refrigerators, etc.) has the potential to reach \$4.7B per year.



Global LEAP Initiative Program Areas. Source: CLASP.

Key accomplishments

By providing the off-grid marketplace clear and actionable signals on the quality and energy performance of off-grid appliances, the Global LEAP Awards enable companies, investors, and policy-makers to make faster, better-informed decisions.

In 2014, the inaugural Global LEAP Awards identified best-in-class off-grid televisions and LED room lighting appliances. Since then, two additional rounds of the Global LEAP Awards have taken place with competitions focused on off-grid televisions, fans, and refrigerators. Industry engagement with the Global LEAP Awards has grown with each successive round, with the 2016-17 Global LEAP Awards receiving 128 nominations.

- Participants in the 2016-17 Global LEAP Awards Off-Grid Refrigerator Competition were eligible for three \$200,000 Innovation Prizes for products that demonstrate market-leading advancement in energy efficiency, off-grid appropriateness, and overall value.
- Global LEAP Awards winners and finalists are eligible to participate in an affiliated Global LEAP procurement incentives program. This program is designed to drive large-scale procurement and distribution of best-in-class off-grid appliances in key off-grid markets.
- Winners and finalists are eligible to use the Global LEAP Awards logo and brand, in addition to participation in a global promotional campaign featuring publicity and networking opportunities and inclusion in the Global LEAP Awards Buyer's Guide.
- Acumen & Shell Foundation will consider Global LEAP Awards winners and finalists as they work to identify breakthrough innovations and impact investment opportunities in off-grid appliance enterprises.



Scan to access the 2017 Buyer's Guide for Outstanding Off-Grid Refrigerators

Lead CEM Member(s)



United States*

CEM Member Participant(s)



Italy Saudi Arabia South Africa United Kingdom

*U.S. leadership is under review.

Work organisation and structure of the initiative

Global LEAP's cross-cutting research, awards programs, and corresponding market support transform off-grid markets by building technical capacity, driving and demonstrating innovation and scale, creating and sharing market intelligence, facilitating business opportunity and investment, and providing policy-maker technical assistance.

- **Off-grid energy efficiency:** Global LEAP supports the development and uptake of super-efficient appliances, equipment, and other end-use technologies in energy access contexts.
- **Collaboration:** Global LEAP facilitates programmatic, policy, and research collaboration among energy access stakeholders to advance commercial markets for high-quality, high-efficiency clean energy products.
- **Quality assurance:** Global LEAP supports the development of markets for quality-assured off-grid energy products.

Core ongoing programs under Global LEAP include the following:

- Global LEAP Awards
- Global LEAP Off-Grid Appliance Procurement Incentives
- Off-Grid Appliance Data Platform

Recent activities and deliverables since 2017

- **Global LEAP Awards:** The 2016-17 Global LEAP Awards included competitions for off-grid televisions, fan, and refrigerators, and received 128 nominations from 40 companies based in 16 countries. The trend of year-over-year increases in nominations across all rounds of the Global LEAP Awards is a clear signal of the increasing importance of the off-grid appliance market.
- **Global LEAP Off-Grid Appliance Procurement Incentives:** The pilot round of the program took place in Bangladesh in 2016, during which five off-grid solar companies procured 12,000 off-grid TVs. The second round launched in October 2017 with a procurement window for off-grid TVs and fans procured by off-grid solar companies operating in Bangladesh, Kenya, Tanzania, Rwanda, and Uganda. Twenty-seven unique incentive claims were submitted that together accounted for over 60,405 TV products and almost 226,000 fan products. This tremendous response exceeded expectations and resulted in the commitment of all available incentive funds within 72 hours. The second round will continue with a procurement window for off-grid refrigerators opening in January 2018.

- **Off-Grid Appliance Data Platform:** The program conducted a market scoping survey to understand the landscape of rural off-grid appliance markets in Bangladesh, India, Tanzania, Kenya, Uganda, and Rwanda. Using the survey results, the program facilitated the testing of 66 products – 12 TVs, 18 fans, and 36 refrigerators – sampled and procured from off-grid areas and marketplaces around the world.

Forward-looking priorities and actions

- Deepen commitments for financial and programmatic support for existing Global LEAP programs and activities.
- Expand global understanding of the critical role of end-use efficiency and quality assurance in driving energy access.
- Expand market-catalysing successes in off-grid solar devices, appliances, and mini-grid markets to benefit micro-enterprise, health, agriculture, and other off-grid applications.
- Broaden and deepen engagement between energy ministries and development agencies.

Operating Agent(s) /
Coordinator(s)



CLASP

Funding Government(s)/
Organisation(s)

Emergising Development, Good Energy Foundation, Power Africa, Scaling-off Grid Energy Grand Challenge for Development (SOGE), United States Agency for International Development (USAID), United States Department of Energy (DOE).

Global and
In-Country Technical
Partner(s)

Lawrence Berkeley National Laboratory (LBNL), Low Energy Inclusive Appliance Deployment Initiative, Rockefeller Foundation, Shell Foundation, Swedish International Development Cooperative Agency, United Kingdom Agency for International Development (UK AID), World Bank Group.