

Efficiency for Access Coalition

A campaign to drive universal energy access beyond lighting

Driving Universal Access Beyond Lighting

Over one billion people globally lack access to electricity. Basic energy services such as lighting and phone charging are an important first rung in the energy access ladder, yet realizing the broader socio-economic benefits of electricity access will require the delivery of higher levels of energy services – encompassing household, income-generating, and community applications such as health and education – to off-grid populations.

Mainstream appliances and other end-use technologies consume too much power to be cost-effectively supported by available off-grid energy supply technologies such as solar home systems and mini-grids. Super-efficient appliances, end-use technologies – like fans, TVs, refrigerators, and water pumps – can unlock a wider range of energy services while minimizing the financial, social, and environmental costs of energy supply. Demand-side efficiency is thus essential to achieving the ambitious SDG7 targeting universal access to modern energy services by 2030.



Power an Off-Grid Home with 25 Watts

New classes of super-efficient appliances, equipment and other end-use devices can deliver higher levels of energy services (beyond basic lighting) affordably by bringing down the overall cost of off-grid energy supply. For example, our research shows that coupling solar home systems with super-efficient appliances, including a 19" color TV, a radio, mobile phone charging and four LED lights, requires 75% less power and reduces overall costs by as much as 50% relative to a system with conventional appliances. Collectively, this super-efficient suite of appliances can be powered by a 25 Watt PV module, less than half the power requirement of a typical incandescent bulb.

Source: Phadke, et al. (1.usa.gov/1K6yfyn)

About E4A Coalition



What ▶ The E4A Coalition is a global campaign harnessing the game-changing power of energy efficiency to **drive universal access to enhanced energy services beyond lighting by 2030.**



Why ▶ Super-efficient appliances, equipment, and other end-use technologies **increase the affordability of energy services by radically reducing the cost** of the required off-grid energy supply.



How ▶ E4A is leading a *Year of Action* in 2016 to mobilize commitments from public- and private-sector partners to **(1) raise awareness of EE+EA opportunities, (2) support the development and deployment of super-efficient end-use technologies.**

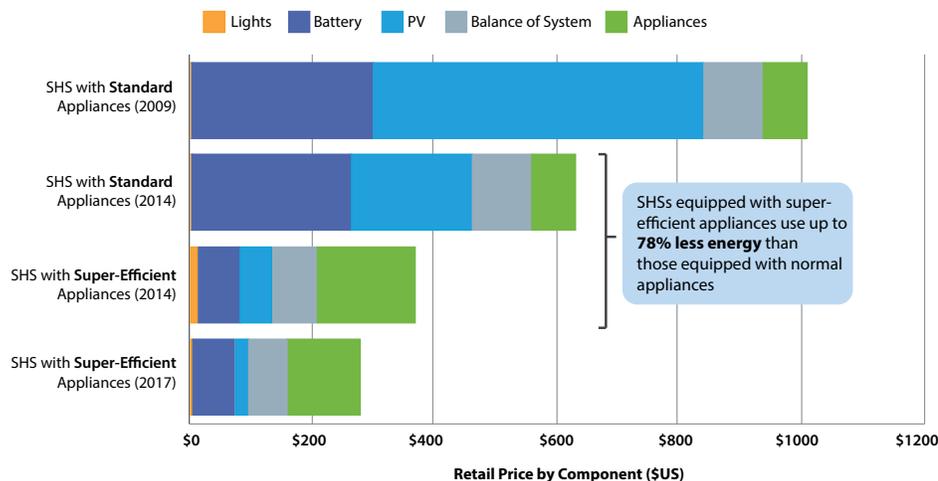
E4A is led by the Clean Energy Ministerial's Global Lighting and Energy Access Partnership (Global LEAP) and Sustainable Energy for All (SE4All). The Coalition was launched in December 2015 at the 21st annual Conference of Parties (COP21) in Paris.



Building on the LED Success Story

Super-efficient technologies are already transforming energy access. Advances in LED efficacy, coupled with falling prices, have sparked the development of a rapidly growing global market for solar lighting and phone charging products. This market has transformed the lives of millions of off-grid families and businesses – and the economics of this market are such that it simply would not exist without super-efficient LEDs.

Super-Efficient Appliances + Solar Home Systems (SHS) Reduce Costs by 50%



*Systems provide energy for 4 lights, a 19" color TV, a radio, and mobile phone charging (Source: Phadke, et al.)



Photo credit: Adolphus Opara/Twenty Ten/Panos

Mobilizing Action

Despite the tremendous potential of energy efficiency as an energy access resource, cross-cutting action is needed to spur innovation and develop the necessary market infrastructure that will enable large-scale uptake of these super-efficient off-grid appliances and other end-use technologies.

E4A will provide a cross-cutting platform within the SE4All framework to unite and amplify current efforts, mobilize additional resources through new partnerships, and strengthen linkages with supply-side energy access efforts. E4A will focus its efforts around 6 action areas:



Get Involved

Partners from government, multilateral organizations, the private sector, non-governmental organizations (NGOs), research institutions, universities, philanthropic organizations, and others are welcome to join the Coalition. Join our efforts to harness energy efficiency to accelerate energy access globally.

Efficiency4Access.org

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[@E4ACoalition](https://twitter.com/E4ACoalition)

E4A Year of Action Timeline

2015

OCT

- ▶ E4A announced at White House Forum on Catalyzing Markets for Off-Grid Clean Energy Access

DEC

- ▶ E4A launched at COP21 with Year of Action 2016 kick-off
- ▶ Public release of Framework for Action

2016

JAN

- ▶ Workshop for core partners and relevant stakeholders
- ▶ Workshop to develop detailed Year of Action Implementation roadmap

FEB

- ▶ Kick-off global partnership drive and mobilization of commitments

JUN

- ▶ Mid-point progress report and announcement of new partners and commitments at the 7th Clean Energy Ministerial (CEM7)
- ▶ High-level energy access event on the margins of CEM7

DEC

- ▶ End-of-year progress report at COP22
- ▶ Announcement of new commitments
- ▶ Targeting a launch of fully capitalized E4A Secretariat and post-2016 strategy