POWER FOR ALL PERSPECTIVE:
Why Efficient Appliances Matter

POWER FOR ALL

50%
REDUCTION OF SOLAR LIGHT COST IN 5 YEARS

4x
MORE EFFICIENT TVS

2x
MORE EFFICIENT FANS & FRIDGES

Efficient appliances—coupled with decentralized renewables—are critical to providing 1 billion+ people with energy access. Efficiency has driven 50% cost reductions for solar lights in the past 5 years. Super efficient appliances, such as fans and TVs, can similarly reduce the total cost of decentralized solar systems by 50%.

Cost Reductions in Solar Light LEDs

» Reductions in the cost of decentralized renewables are exemplified by that of a standard LED solar light and battery: $45 in 2009; $18 in 2014[1]

» In large part this was due to improved efficiency of the LED light; the cost of LEDs halved, while their output doubled[1]

» LED costs and performance trends are expected to continue, with another near-doubling in performance and halving in cost over the coming five years[1]

Efficiency Can Reduce Cost of Other Appliances

» Efficiency has led to breakthroughs in the cost and durability of other appliances e.g. fans, TVs and mobile phones

» Super efficient fans and fridges use 50% less power than standard appliances[1]

» DC powered LCD TVs, suited to off-grid areas, are 4x more efficient than standard TVs[1]

Share the Message

The costs of decentralized renewables are projected to continue falling in 2016, but the biggest price reductions are not expected from gains in the performance of solar and batteries but from the efficiency of appliances. The Efficiency for Access Coalition[2] is making 2016 a Year of Action. Our sector should lend its support, sharing these key messages:

» Lighting is just the start. The next step in energy access is creating affordable, efficient appliances that give people more services

» Building markets for efficient appliances will increase enterprise and business opportunities

» Policy and finance measures to accelerate decentralized renewables must be complemented by support for efficient appliances

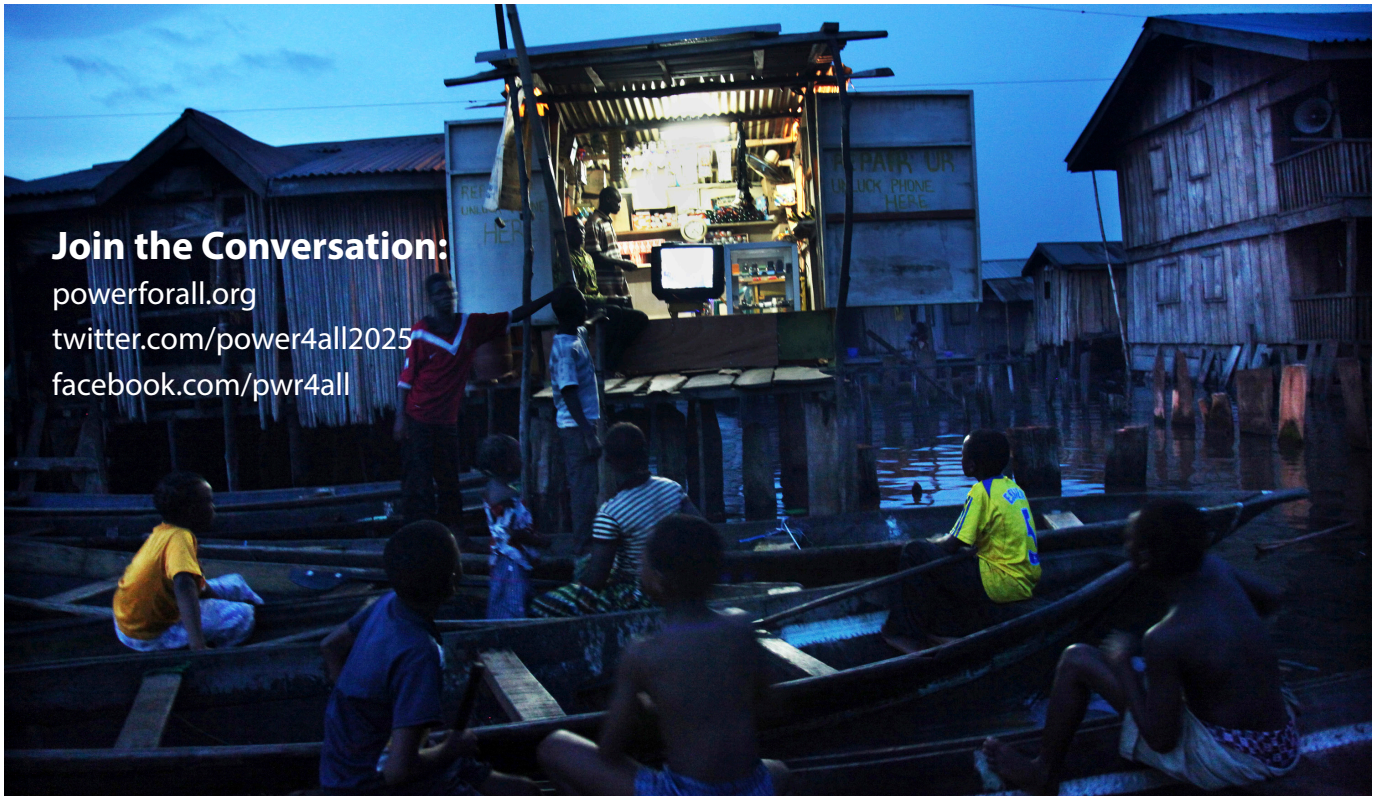


Photo: Adolphus Opara/Panos Pictures

Raise Your Voice Online

We urge you to join with us and profile the importance of efficiency for achieving **Power for All**

Use these sample Tweets to profile how efficient appliances are driving the growth of off-grid markets and helping millions to access clean energy services for the first time:

- RT: Can a new TV save money, the climate and lift millions of lives? Yes! See: http://bit.ly/1nuS6iz @PowerforAll2025 & @E4ACoalition
- RT: Efficient appliances are critical for #energyaccess & achieving @Power4All2025 - see http://bit.ly/1nuS6iz and support @E4ACoalition
- Efficiency has helped reduce cost of solar lights by 50% in 5 years - same now happening with TVs, fans and fridges: http://bit.ly/1nuS6iz
- Check out & follow @E4ACoalition - the Global LEAP & @SE4All initiative showing how efficiency is driving energy access!
- Why do efficient appliances matter? They can help millions achieve #energyaccess - less is more! See http://bit.ly/1nuS6iz
- Super efficient appliances e.g. fans, TVs & mobiles can reduce the total cost of an off-grid solar system by 50% http://bit.ly/1nuS6iz

Sources:

1. Phadke et al (2015) Powering a Home with Just 25 Watts of Solar PV: Super Efficient Appliances Can Enable Expanded Off-Grid Energy Service Using Small Solar Power Systems. Lawrence Berkeley National Laboratory
2. www.efficiency4access.org