

Efficiency for Cooling: Technology and Market Trends

May 2019

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Agenda

1

**Welcome &
Introductory
Remarks**

2

**Overview of the
Clean Energy
Solutions Center**

- **Philip Voris**, Clean Energy Solutions Center

Moderating

- **Charlie Miller**, Senior Policy Expert, Energy Saving Trust

3

Presentations

- **Fadzai Chitiyo**, Strategy Consultant, Dalberg Global Development Advisors
- **Nyamolo Abagi**, Manager, East Africa, CLASP
- **Jeremy Tait**, Chairperson, Efficiency for Access Off and Weak Grid Refrigeration Technical Working Group

4

**Question and
Answer Session**

Clean Energy Ministerial

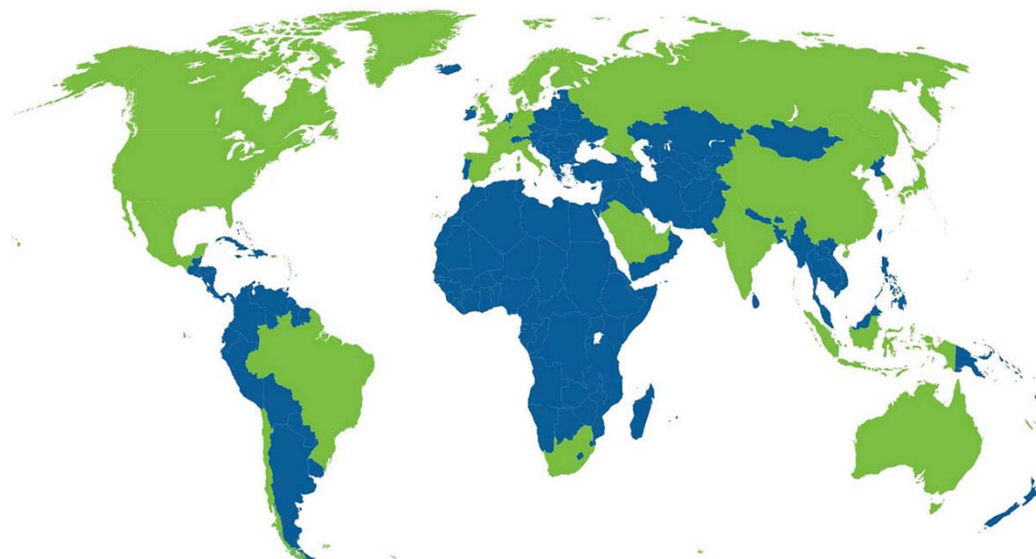


The Solutions Center:

- Launched under the Clean Energy Ministerial (CEM) in 2011

Clean Energy Ministerial:

- A high-level global forum to promote policies and programs that advance clean energy technology, to share lessons learned and best practices, and to encourage the transition to a global clean energy economy.



90%
of
Clean energy
investment

&

75%
of
Global CO₂
emissions

Solutions Center: Background & Vision

- Multilateral initiative, of the Clean Energy Ministerial, is co-led by the Australian Department of the Environment and Energy, the Swedish Ministry of the Environment and Energy, and the U.S. Department of Energy.
- Additional funding support from Power Africa & the Hewlett Foundation
- The Solutions Center is a unique CEM initiative assisting countries in all regions of the world in strengthening clean energy policies and finance measures
- Supporting transition of clean energy markets and technologies



Solutions Center: Goals and Audience

Programs and Services

- **Team of 60+ experts from around the globe responded to 450+ requests for policy support from more than 90 countries**
 - Extensive support across Africa, Asia, and LAC
 - Launched support for finance measures in 2015
- **Trained over 15,000 officials through more than 225 webinars and training events with others**
- **Strong & growing partnerships with development agencies and regional and global organizations in delivery of support**
- **Over 2500 resources in curated library for policy makers**

Target Audiences

- **Primary**
 - Government Policy Makers and Advisors
- **Secondary**
 - Private-Sector Companies
 - Energy Entrepreneurs and Investors
 - Non-Governmental Organizations
 - Civil Society
 - Others Engaged in Clean Energy

Solutions Center: Partnerships

More than 35 international partners:

- Climate Technology Center and Network (CTCN)
- ECOWAS Center for Renewable Energy and Energy Efficiency (ECREEE)
- Inter-American Development Bank (IDB)
- International Energy Agency (IEA)
- International Partnership for Energy Efficiency Cooperation (IPEEC)
- International Renewable Energy Agency (IRENA)
- Low Emission Development Strategies Global Partnership (LEDS-GP)
- Renewable Energy Policy Network for the 21st Century (REN21)
- Sustainable Energy for All (SEforALL)
- United Nations Environment Programme (UN Environment)
- USAID Power Africa (USAID PA)

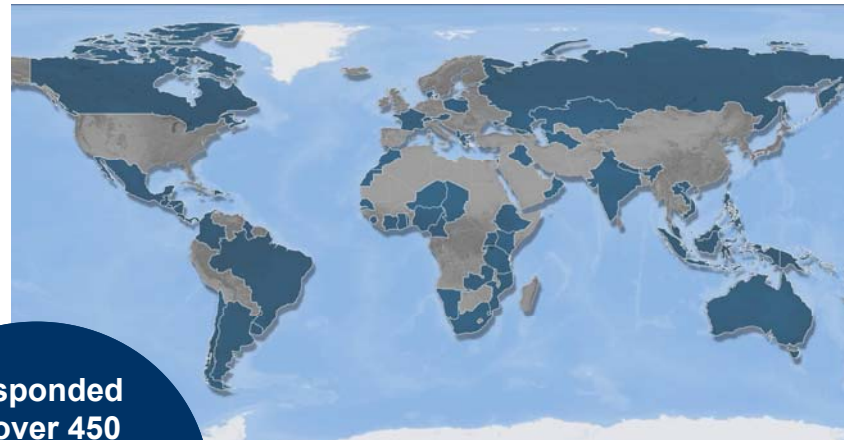


Ask an Expert: Our Experts in Action



We connect you to a global network of energy experts for personalized attention and quick response technical assistance on **strategies, regulations, standards, financial incentives, and energy transition programs** for a broad range of clean energy sectors and technologies including:

- Energy Access
- Energy Efficiency
- Renewable Energy
- Smart Grid
- Transportation
- Utilities
- Carbon Capture Utilization & Storage



Responded to over 450 requests for assistance from over 90 countries.

To request assistance, register on <http://cleanenergysolutions.org/expert>

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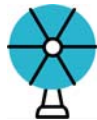
Efficiency for Access Coalition

- Efficiency for Access is a **global coalition promoting energy efficiency as a potent catalyst in clean energy access efforts.**
- Since its founding in 2015, Efficiency for Access has grown from a year-long call to action and collaborative effort under Global LEAP and Sustainable Energy for All to a coalition of 13 donor organizations.
- Coalition programmes aim to scale up markets and reduce prices for super-efficient, off- and weak-grid appropriate products, support technological innovation, and improve sector coordination.
- Current Efficiency for Access Coalition members have programmes and initiatives spanning **three continents, 44 countries, and 19 technologies.**



Cooling Campaign (May-July 2019)

- Aims to shine a light on the efficient cooling sector – latest trends in technology, products, business models, market barriers and potential solutions.
- Covers efficient fans, refrigerators and agricultural cold chain technologies.
- Three phase campaign sharing more general info at the outset and more technical or content towards the end.



Cooling Resources & Publications

Available Reports

- Off-Grid Appliance Market Surveys
- Grid Powered Refrigeration for Productive Use
- Market Baseline Performance Testing for Off- and Weak-Grid Refrigerators
- Off- and Weak-Grid Refrigeration Roundtable Report
- Appliance Data Trends
- Learning Paper: The Challenges of Field Testing Off-Grid Refrigerators
- State of Play and Innovations in Off-Grid Refrigeration Technology

Publication Date

- 2014, 2016 and 2018.
- January 2018
- May 2018
- June 2018
- September 2018
- January 2019
- March 2019

Upcoming Reports

- Off-Grid Refrigerator Technology Roadmap
- State of the Off-Grid Appliance Market Report
- Results-Based Financing for Efficient Fans: Impact Report

- June
- June
- July

<https://efficiencyforaccess.org/publications>

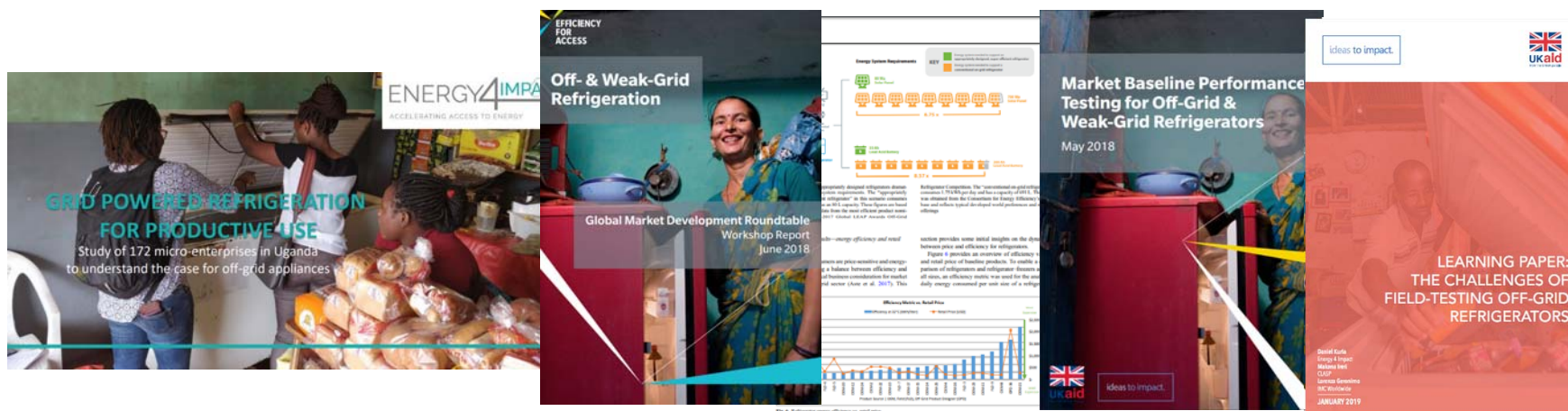


Fig. 4 Refrigerator energy efficiency vs. total price

Fadzai Chitiyo, Strategy Consultant, Dalberg Global Development Advisors



Fadzai Chitiyo is a Strategy Consultant at Dalberg Global Development Advisors. She has experience in inclusive business, renewable energy, financial inclusion, investing for development, healthcare, education, infrastructure and agriculture.

Prior to this, Fadzai supported the Bill and Melinda Gates Foundation on strengthening a public health emergency operating centre in Zimbabwe, and a National Strategy for Adolescent Health and Wellbeing in Tanzania.

In mobile for development, Fadzai supported the GSMA in authoring the report on [Accelerating affordable smartphone ownership in emerging markets](#) in Asia and Sub-Saharan Africa. In financial inclusion, she published an article on [innovative consumer finance for the poor](#).

Nyamolo Abagi, Manager, East Africa, CLASP



With nearly a decade of experience in clean energy, Nyamolo Abagi leads and supports several initiatives within CLASP's Market Development & Innovation program, including the Global LEAP initiatives for the development of the global off-grid appliance market.

She has a diverse professional background in social enterprise, the non-profit sector and development agencies, as well as academic training in electrical engineering and mathematics.

Jeremy Tait, Refrigeration Technical Working Group Chairperson, Efficiency for Access



Jeremy Tait works as a consultant on technical standards, regulations and policy initiatives that move markets towards more efficient and sustainable electrical appliances and equipment.

Jeremy has over 20-years' experience working with suppliers and policy makers on standards for refrigeration, heating, ventilation and air conditioning, as well as most other household appliances and some industrial and commercial equipment.

Question and Answer Session



**Fadzai Chitiyo,
Dalberg Global
Development Advisors**



**Jeremy Tait,
Efficiency for Access**



**Nyamolo Abagi,
CLASP**

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