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## CLASP Updates

51<sup>st</sup> Meeting of the APEC Expert Group on Energy Efficiency & Conservation  
Washington DC, USA

Nicole Kearney  
April 11, 2018



# Accelerating our transition to a more sustainable world

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CLASP improves the energy and environmental performance of the appliances & equipment we use every day



# What We Do

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- **Energy & Quality Standards** push the market toward high-quality, high-efficiency products



- **Labeling & Buyer Education** communicate energy, performance, and quality to consumers & other buyers, inspiring demand for sustainability



- **Awards & Product Recognition** drive innovation, increase recognition of standout products, & develop markets



- **Incentives & Bulk Procurement** accelerate market saturation of high-quality, high-efficiency products & reduce market risk



- **Compliance, Testing & Quality Assurance** ensure products perform as promised & markets are fair to all



- **Global Collaboration & Knowledge Sharing** leverage cutting edge & collective knowledge and forge productive partnerships



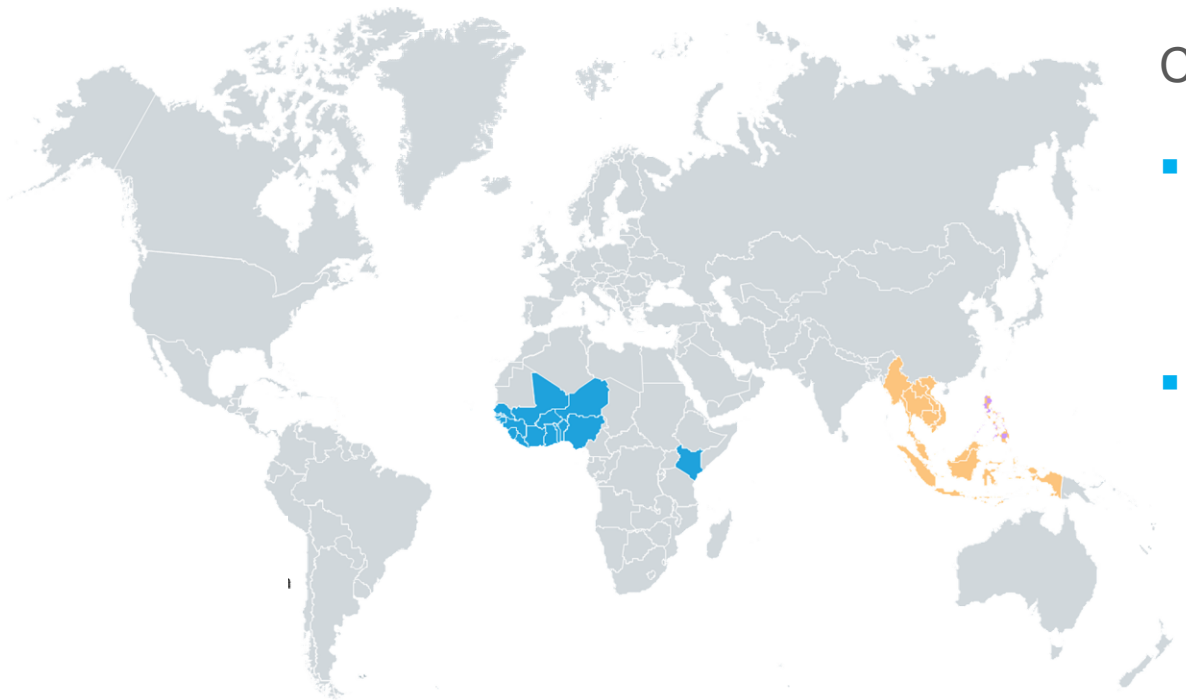
# Global Cooling Programs



# KCEP Program



- Philanthropic program to support the Kigali Amendment of the Montreal Protocol
- 18 foundations and individuals have pledged \$52 million to help increase the energy efficiency of cooling in developing countries
- CLASP is one of the implementing partners of KCEP



CLASP is leading:

- A **regional compliance** program in ASEAN and in West Africa
- **Comprehensive technical assistance** to implement efficiency standards in Philippines, Thailand, Vietnam and Kenya



# KCEP Southeast Asia Cooling Program Goals

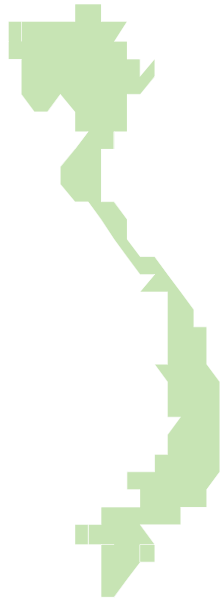
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- Provide advisory support to:
  - raise efficiency standards,
  - improve testing efforts,
  - provide training and
  - other capacity building activities
- Develop regional cooling compliance platform for ASEAN
  - building on existing capacity
  - facilitating collaborations



- More stringent AC MEPS
- Increased rates of MEPS compliance
- Enhanced compliance capabilities nationally and regionally
- Lower trade barriers
- Increased penetration of high efficiency / low-GWP cooling

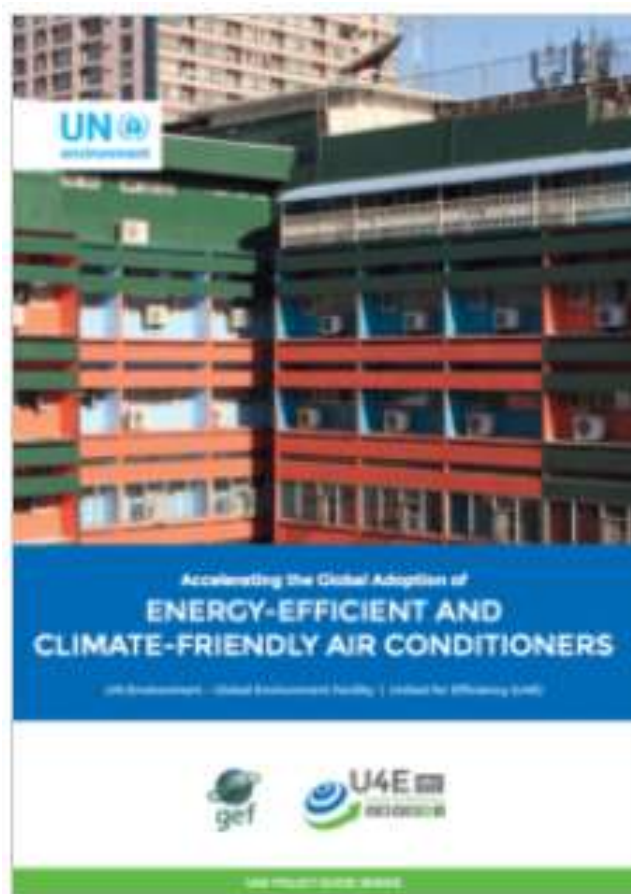
# Lower Mekong Initiative: Air Conditioning Efficiency



- Supported by US Department of State; implemented by CLASP and IIEC
- With the Vietnamese government and ASEAN member states
- Building on regional ASEAN-Shine Initiative to encourage implementation of national roadmaps for air conditioners through compliance-related engagements

- ✓ Regional workshops with ASEAN representatives
- ✓ Capacity building in AC laboratories in Vietnam (training, round robin testing)
- ✓ Compliance training and guidance





- Global partnership led by UN Environment
- Members include ICA, CLASP, other NGOs and manufacturers
- CLASP led cooling component of the initiative:
  - Country Assessments: <http://united4efficiency.org/countries/country-assessments/>
  - Policy Guides for ACs and Refrigerators <http://united4efficiency.org/resources/publications/>





SEAD

SUPER-EFFICIENT EQUIPMENT AND  
APPLIANCE DEPLOYMENT INITIATIVE



AC

ADVANCED COOLING  
CHALLENGE

A Clean Energy Ministerial Campaign

**Challenging public and private sector leaders to develop and deploy at-scale, super-efficient, smart, climate friendly, affordable cooling technologies**

## Updates

- Commitments to invest **over \$1.4 billion** in air conditioner efficiency and refrigerants – with over \$ 52m leveraged from the Kigali Cooling Efficiency Program
- Clean Energy Ministerial side-event planned with KCEP focus

## Next Steps

- CEM interest in expanding focus to include heating products and technologies
- Additional data collection efforts and improvements to the Global AC Market Tracking Tool
- Seeking funding to continue efforts

Visit: [www.superefficient.org/acc](http://www.superefficient.org/acc)



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# The SEAD Initiative

19 Governments working together to save energy

Argentina	Australia	Brazil	Canada
China	Germany	India	Indonesia
Korea	Mexico	Russia	Saudi Arabia
South Africa	Sweden	United Arab Emirates	United Kingdom
United States	Supported by:	CLASP (Operating Agent)	Berkeley Lab (Technical Support)

Visit [www.superefficient.org](http://www.superefficient.org) for more information



SEAD

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APPLIANCE DEPLOYMENT INITIATIVE

## Implementation & Training

### Collaboration with APEC to host the APEC Workshop on QPLs for Efficient Lighting



Hosted a workshop in  
China to train  
policymakers on use of  
qualified product lists to  
support procurement  
programs and reduce  
trade barriers for LED  
lighting products



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## Research and Analysis to Inform Impactful Policies

Conducting research to **collate and catalogue global testing costs for high-impact appliances**, including cost of testing products, costs of setting up and operating test labs, and **alternatives to building in-country capacity**



Electric Motor Systems  
EMSA

Published research, in collaboration with Canada and our IEA 4E partners, on how **linking energy management systems and motor efficiency incentive policies** can achieve greater savings and **unlock energy savings** from **motors**-related measures



## Awarded Two Global Efficiency Medals

### 6<sup>th</sup> SEAD Global Efficiency Medal for Industrial and Outdoor Lighting

Winning products recognized at IEA-  
hosted awards ceremony in  
November, 2017



To incentivize use of **energy efficient protocols** in **connected devices** and **spur innovation** among protocols developers, SEAD, IEA 4E and the Connected Devices Alliance ran the first ever award to identify energy efficient protocols and their authors.



**SEAD**

SUPER-EFFICIENT EQUIPMENT AND  
APPLIANCE DEPLOYMENT INITIATIVE

## SEAD Policy Exchange Forum

Potential next Webinar Topics: 1. Heat Pumps, 2. Label Communications, 3. Motors

**A tool to  
engage  
with  
industry**

**Voluntary  
peer-to-peer  
collaboration**

**Share  
experiences  
& best  
practices**

**Strengthen  
relationships  
& improve  
coordination**



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A graphic of a lightbulb with several small dots above it, representing the Global Lighting Challenge logo.

# GLOBAL LIGHTING CHALLENGE

*A Clean Energy Ministerial Campaign*

**A race to reach cumulative global sales of 10 billion high- efficiency, high-quality, and affordable advanced lighting products**

**More than 14 billion efficient lighting products pledged!**

- Developed and implemented a monitoring and evaluation plan to track success
- CEM8 side event highlighted commitments, trends, and the future of lighting
- Assessed success of private-public partnerships for global conference

**Goals Accomplished!**

Visit: [www.globallightingchallenge.org](http://www.globallightingchallenge.org)

# APEC ESIS – Overview

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- APEC Energy Standards Information System: [apec-esis.org](http://apec-esis.org)
- CLASP has served as the APEC ESIS Secretariat since 2004
- APEC ESIS provides:
  - APEC oriented online portal to the CLASP Standards & Labelling Database
  - Updates for APEC economies to the S&L Database
  - Attending EGEE&C meetings to report on status of ESIS and policies in APEC region



# APEC ESIS - S&L Database

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- Online resource that allows policy makers and S&L practitioners to compare policies and regulations across countries and by product (excel feature)
- Includes **63 economies**, which account for over 91% of the world's total energy consumption
- Covers **19 product** categories of appliances, equipment and lighting
  - Sectors include residential, commercial, industrial or multi-sector
- Distinguishes policy types, policy status, and effective dates of implementation
  - Policy types include MEPS, Endorsement label, Comparative label, and Quality Standards

# APEC ESIS - S&L Database

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- 2017 Updates
  - Database successfully transferred to new server, improving search functionality and user friendliness
  - Added Off-grid product categories (Off-grid Appliances & Equipment and Off-grid Generation & Systems) and two new African countries (Tanzania and Ethiopia)
  - Updated database product categorization system
  - No significant updates to economy policies due to resource constraints

# APEC ESIS - Global S&L Database

Search by location, product category, or policy type – or a combination of these options

## Policy Database

Search appliance and equipment energy efficiency policies around the world.

LOCATIONS

PRODUCTS

POLICIES

VIEW RESULTS

**North America**

- United States
- Canada
- Costa Rica
- Jamaica
- Mexico
- California

**South America**

- Argentina
- Brazil
- Chile
- Uruguay
- Venezuela
- Peru

**Europe**

- Russia
- Turkey
- European Union
- France
- Germany
- Poland
- Sweden
- Switzerland

# APEC ESIS - Global S&L Database

Search results can be downloaded as CSV file.

An overview of each Country or Economy including:

- Total number of policies found in the S&L Database
- Opportunity to contribute more information

Policy Database  
Search appliance and equipment energy efficiency policies around the world.

LOCATIONS PRODUCTS POLICIES VIEW RESULTS

CSV GENERATING, MAY TAKE SOME TIME...

Economy Finder  
Index of appliance energy efficiency information by country.

North America South America Europe Middle East  
Africa Oceania Asia South Asia



# APEC ESIS - Global S&L Database

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## Policy Details

### Policy Name

NOM-011-ENER-2006

### Description

Standard NOM-011-ENER-2006 applies to central, package and split type air conditioners, powered by electricity, with nominal cooling capacities of 8,800W to 19,050W, which operate by mechanical compression and which include an air-cooling evaporator coil, a compressor and either an air- or water-cooled condensing coil.

### Economy

Mexico

### Implementing Organization

Comisi Nacional para el Uso Eficiente de la Energ - CONUEE (National Commission for the Efficient Use of Energy)

### Product

Heating & Air Conditioning, Central AC

### Sector

Residential

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More information available  
in downloaded files

# APEC Economies Status

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<b>Economy</b>	<b>Most Recent Update</b>	<b>Number of Policies</b>
Australia	2016	37
Brunei Darussalam	2016	1
Canada	2016	129
Chile	2016	3
China	2015	175
Chinese Taipei	2015	117
Hong Kong	2015	32
Indonesia	2016	21
Japan	2014	57
the Republic of Korea	2016	103
Malaysia	2016	103
Mexico	2016	89

# APEC Economies Status

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Economy	Most Recent Update	Number of Policies
New Zealand	2016	32
Papua New Guinea	Not included at this time	0
Peru	2016	38
the Philippines	2016	10
Russia	2015	67
Singapore	2016	22
Thailand	2015	48
United States	2015	184
Viet Nam	2016	47

If APEC EGEE&C Economy Profiles and Database information is inaccurate, please contact Amanda McCrum at [amccrum@clasp.ngo](mailto:amccrum@clasp.ngo)

# APEC ESIS – Current Status

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- APEC ESIS Secretariat facing significant funding constraints
- Previous funding received from:
  - APEC Economies, including Australia, Chinese Taipei, New Zealand, United States
  - Super-efficient Equipment and Appliance Deployment (SEAD) Initiative
- All funding exhausted in October 2017
- Consequences:
  - APEC-ESIS website is down
  - Limited ability to update policy information
  - No future reports on progress to EGEE&C
- Seeking new financial and in-kind resources to maintain ESIS Secretariat responsibilities



# APEC ESIS – Future Needs

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- With additional funding, CLASP can:
  - Refresh and ensure [apec-esis.org](http://apec-esis.org) is online
  - Provide semi-annual policy updates to the database and the website
  - Track progress of the EGEE&C and provide semi-annual reports on S&L policy development in APEC
  - Participate and present key findings at EGEE&C meetings
- Seeking USD 100,000 per year – total of \$ 5,000 per member economy

# APEC ESIS – Future Needs

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## Proposed next steps:

- Conduct analyses on usage of the database by APEC visitors
- Understand and document value of ESIS to EGEE&C members
- **EGEE&C to make recommendations to the EWG:**
  - Shut down the website and discontinue APEC ESIS Secretariat role?
  - Continue APEC ESIS activities with contributions from APEC Economies?
- Work with EGEE&C members to update policies in the database:
  - Please contact Amanda McCrum at [amccrum@clasp.ngo](mailto:amccrum@clasp.ngo) for more information

# Contact

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# Any questions?

