Accelerating Energy Efficiency and Market Transformation through Appliance Standards and Labeling (S&L)

NARUC
Washington, DC
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Historical Overview

CLASP's primary objective is to provide technical expertise and assistance to global standards and labeling practitioners and policymakers to improve energy efficiency in appliances, lighting, and equipment worldwide, as well as reduce the emission of greenhouse gases that cause climate change.

- Established in 1999 by the Alliance to Save Energy, the International Institute for Energy Conservation, and Lawrence Berkeley National Laboratory.
- Became a ClimateWorks Foundation Best Practice Network (BPN) in March of 2009.
- CLASP has expanded and matured with more than 25 full time team members in offices in Beijing, Brussels, Delhi, and Washington, DC.
- Became the Operating Agent for the Super-efficient Equipment and Appliance Deployment (SEAD) Initiative in 2011.

Core Services

CLASP provides national governments and other stakeholders with technical assistance and expertise, including:

- S&L Program Design
- Product Prioritization Studies
- Product Specific Technical Analysis

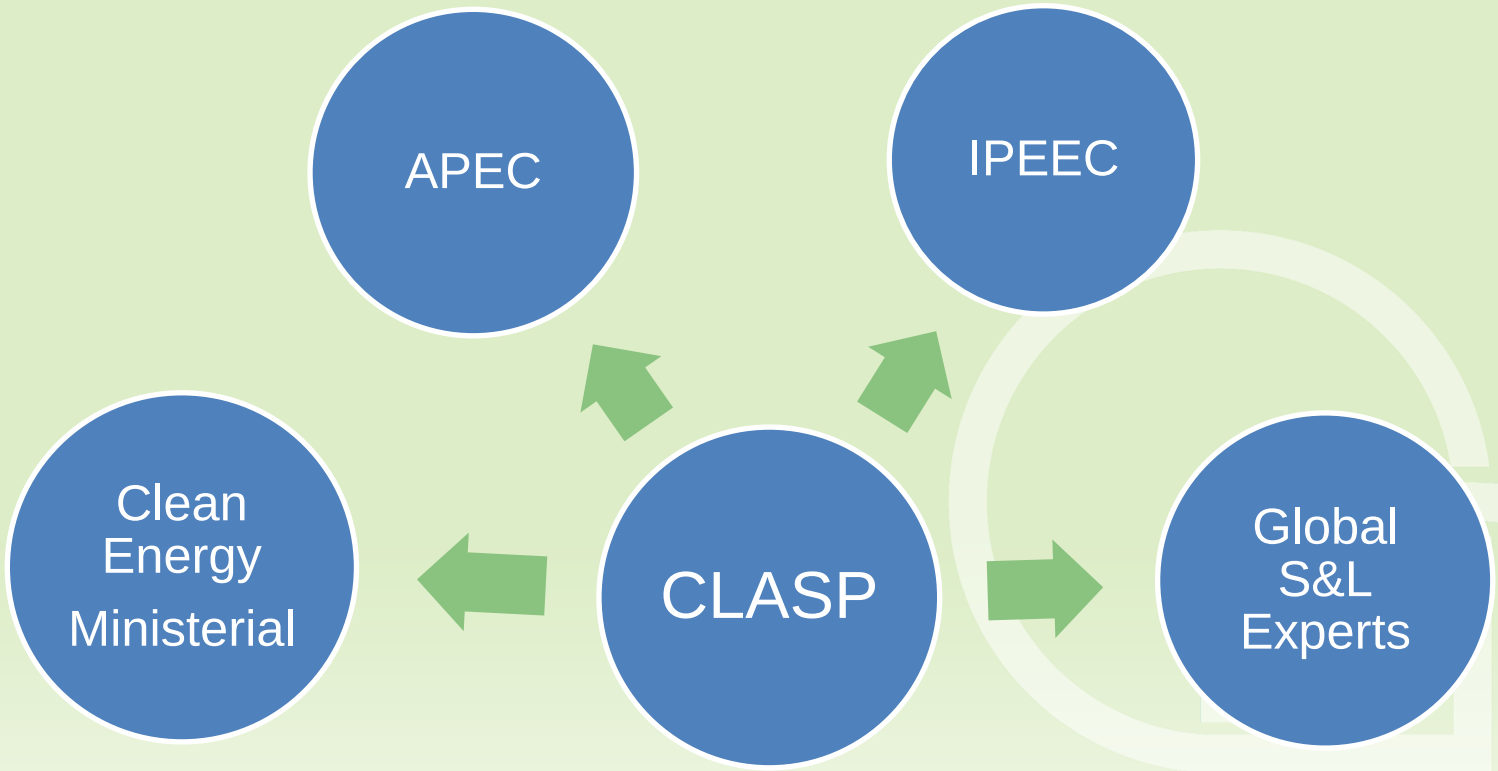
- Design of Minimum Energy Performance Standards (MEPS)
- Label Design Research
- Test Method Development

- S&L Impacts Assessment
- Market Impacts Studies
- Energy Savings Modeling

- Program Evaluation
- Training and Capacity Building

Core Services (Cont'd)

CLASP facilitates collaboration among a wide global network:



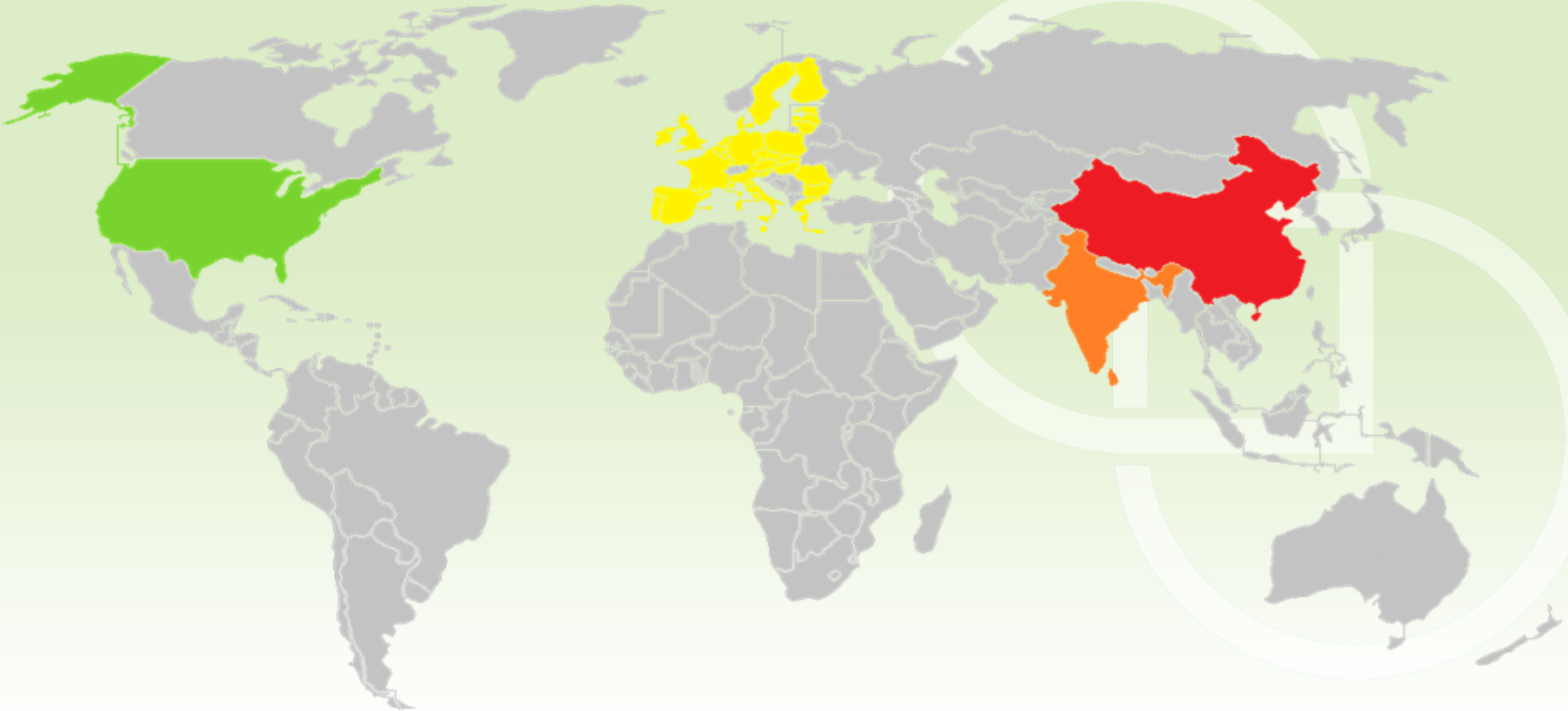
CLASP impacts energy use through Country Programs and Global activities

Country Programs

- US
- China
- EU
- India

Global Programs

- Global Research
- SEAD Initiative



China

CLASP partners with the China Sustainable Energy Program (CSEP) to support the China National Institute of Standardization (CNIS) and other stakeholders in developing China's S&L program

Program Highlights:

2011 Accomplishment:

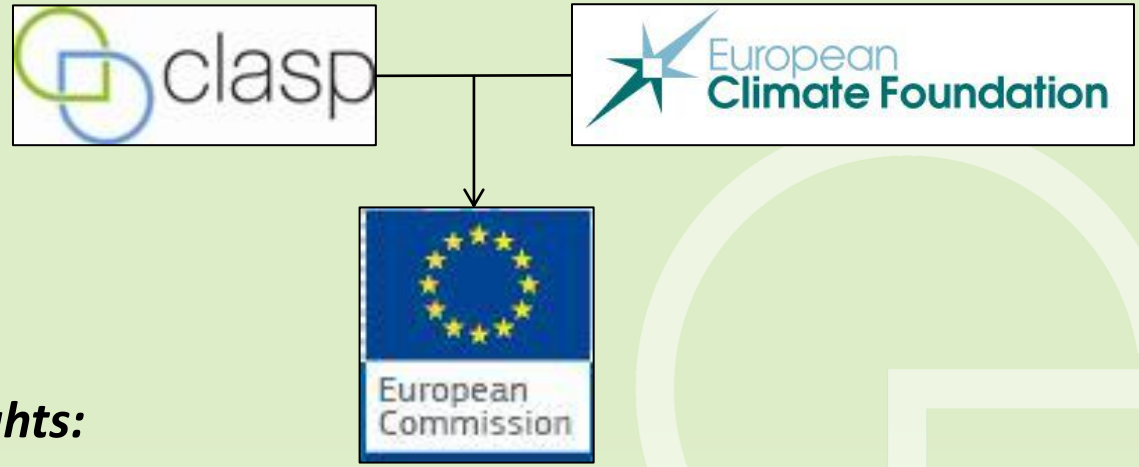
MEPS for printers and fax machines, which is estimated to save **16 TWh of electricity and cut CO_2 emissions by 15.3 million tons in 2030**.

2012 Project:

Energy label implementation rules for three new products, with a **digital information system** to monitor and enforce mandatory energy labels.

Europe

CLASP partners with the European Climate Foundation (ECF) to support the European Commission (EC) in developing the European Union's S&L program



Program Highlights:

2011 Accomplishment:

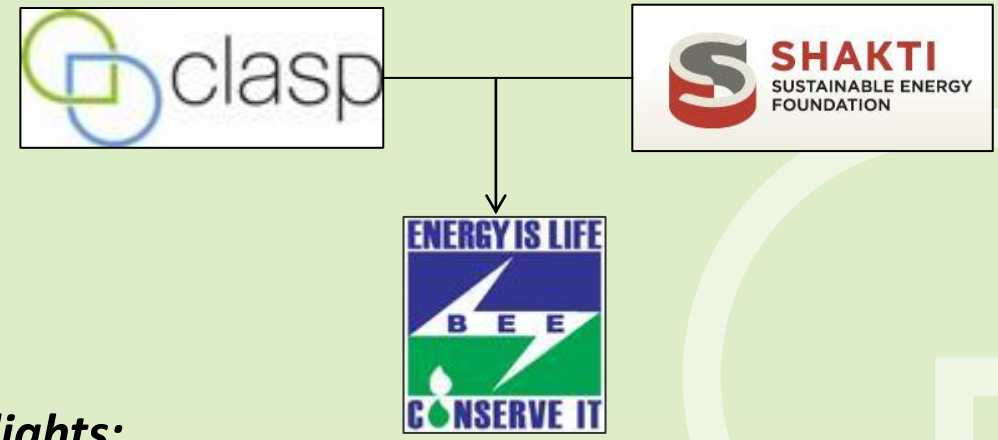
Support of MEPS and energy labeling requirements for domestic air conditioners and non-residential ventilation fans, resulting in **45 TWh of annual electricity savings in 2020**.

2012 Project:

Assess efficacy of the new **EU energy label** for market transformation, and provide recommendations to the EC for improvement.

India

CLASP partners with the Shakti Sustainable Energy Foundation to support the Bureau of Energy Efficiency (BEE) in the development and implementation of India's S&L program.



Program Highlights:

2011 Accomplishment:

Development of **comprehensive performance, safety, and quality standards for LED lamps**. India is now the international front-runner on this energy efficient product.

2012 Project:

Provide training and capacity-building to India product test labs to support the development of more robust **monitoring and verification**.

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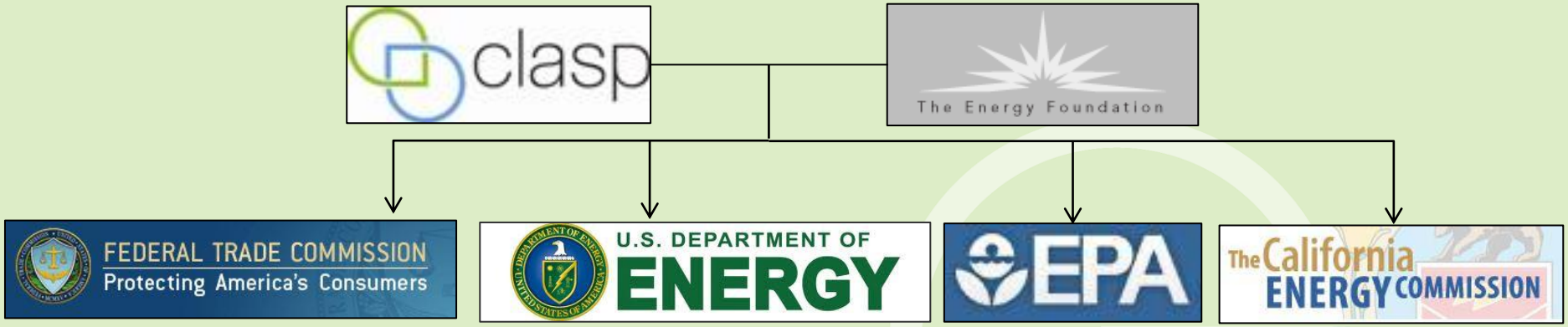
U.S.

CLASP partners with the Energy Foundation to support S&L programs in the United States managed by federal and state agencies.



Program Highlights:

2011 Accomplishment:

CLASP has released testing data on **computer graphics cards** that will support U.S. and global S&L programs to accurately measure desktop computer energy consumption.

2012 Project:

Market transformation initiative to introduce super-efficient dryers into the North American market.

Project Profile

Development of LED Standards in India

Key Drivers

Identified as a national priority

- Lighting load, peak demand and overall energy consumption.

Initiation Process (*Prior to June 2010*)

Bureau of Indian Standards (BIS) recognized the need for LED standards based on the Proposal moved from industry, utility and BEE.

Development Process *(June 2010 – April 2011)*

- BIS National Committee on lighting constituted a special expert panel which includes BEE
- CLASP approached by BEE to develop the LED standards
- Series of consultative meetings of the expert panel – June 2010, June-April 2011
- CLASP provided technical assistance to BEE in the development of 10 LED standards – April 2011

Review/Consultation Process *(April - July 2011)*

- Public comments on the working document invited – April 2011
- Review of the working document and key recommendations of the expert panel by BIS technical committee with stakeholder participation (April - July 2011)

Spillovers

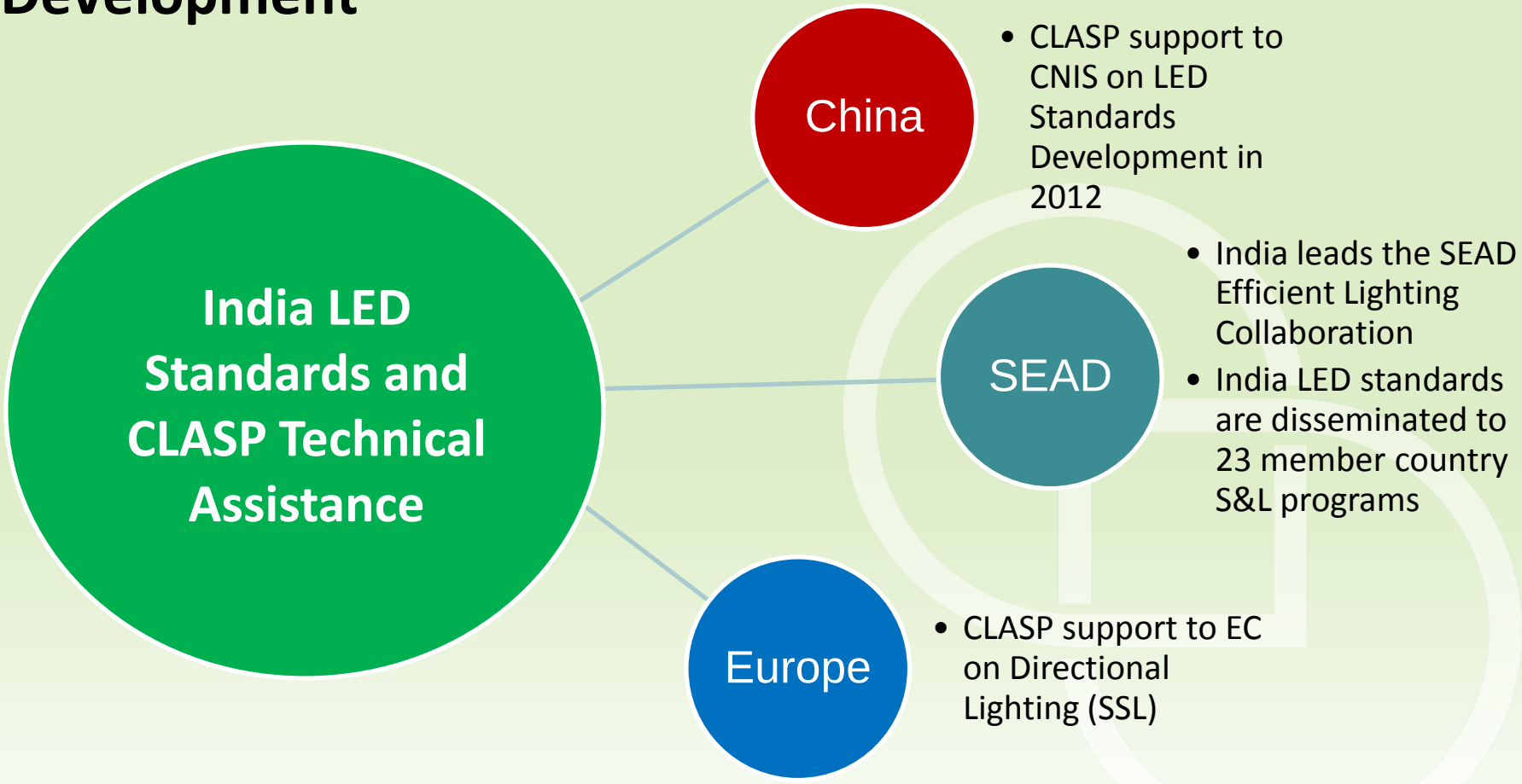
- *India lead the SEAD-LED standards Working Group*
- *Indian lighting industry positioned for global/regional LED manufacturing hub*
- *LED standards potential model for other venues like China, EU, etc.*

Outcome (July 2011)

- LED standards approved by BIS technical committee – July 2011
- Standards officially published (February 2012)

Program Spillover

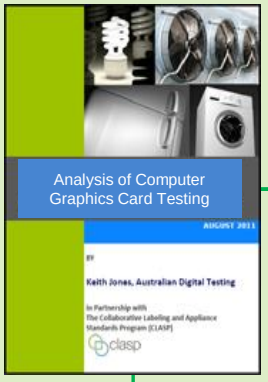
Potential Spillovers from India's LED Standards Development



- CLASP support to CNIS on LED Standards Development in 2012
- India leads the SEAD Efficient Lighting Collaboration
- India LED standards are disseminated to 23 member country S&L programs
- CLASP support to EC on Directional Lighting (SSL)

U.S. Study: Global Impact

Analysis of Computer Graphics Card Testing



Disseminate Study

California Energy Commission (CEC) *State Standard*

U.S. Environmental Protection Agency (EPA) *ENERGY STAR Label*

European Commission *Standard*

Regional Spillover

U.S. Department of Energy (DOE) *Federal Standard*

International Spillover

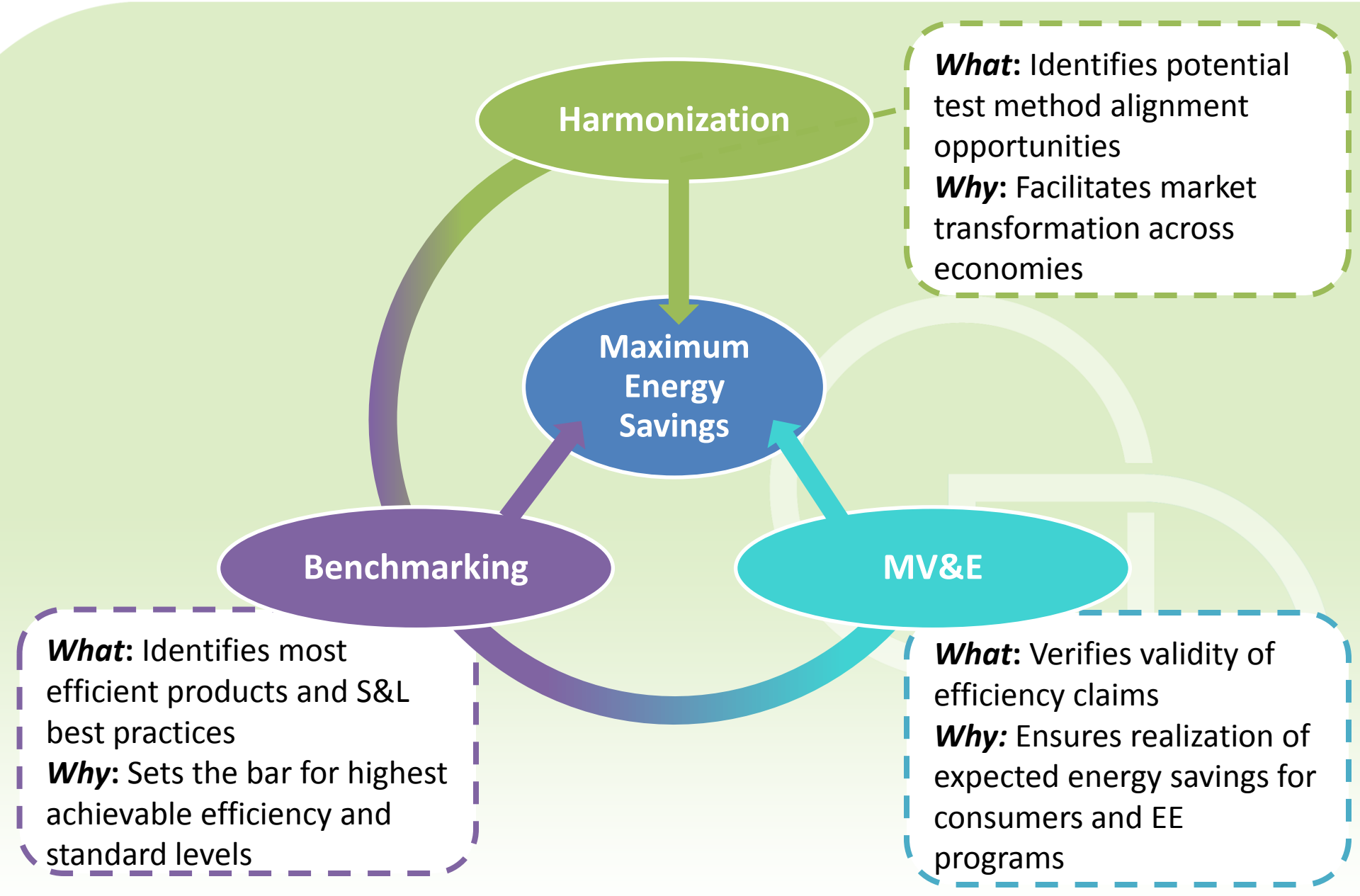
Standards and Labels in China, India, & Other Economies

Disseminate Study

Super-efficient Equipment and Appliance Deployment (SEAD) Initiative

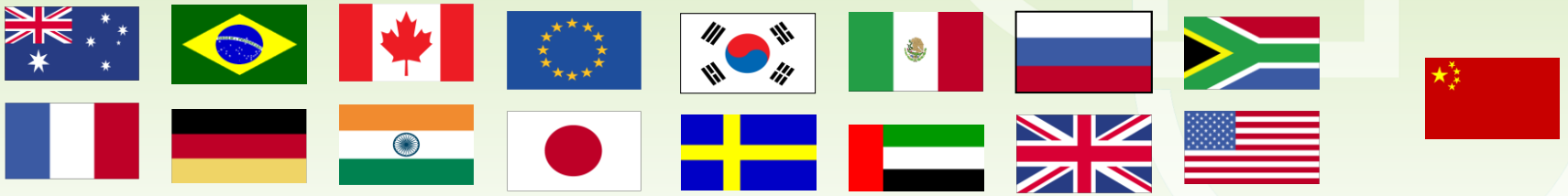
International Spillover

Global Research

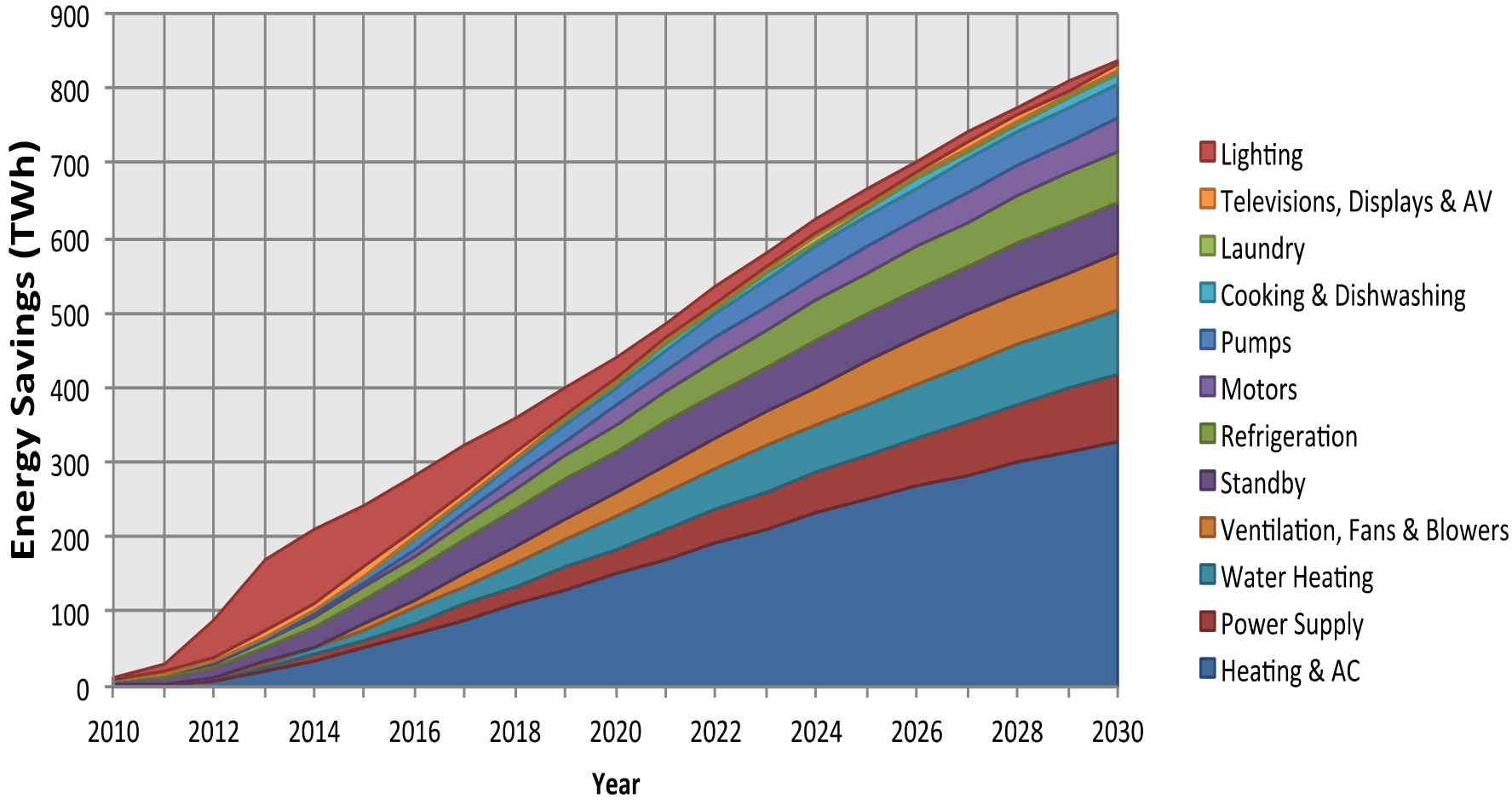


Super-efficient Equipment and Appliance Deployment (SEAD) Initiative

- A ***global market transformation initiative*** for super-efficient equipment and appliances
- Funded by US Department of Energy, UK, Sweden, and ClimateWorks
- CLASP is the Operating Agent
- Coordinates with international initiatives including APEC, IEA, SE4All



Impacts of MEPS in SEAD countries since January 2010



SEAD Expands CLASP's Global Impact

Direct Policy Influence

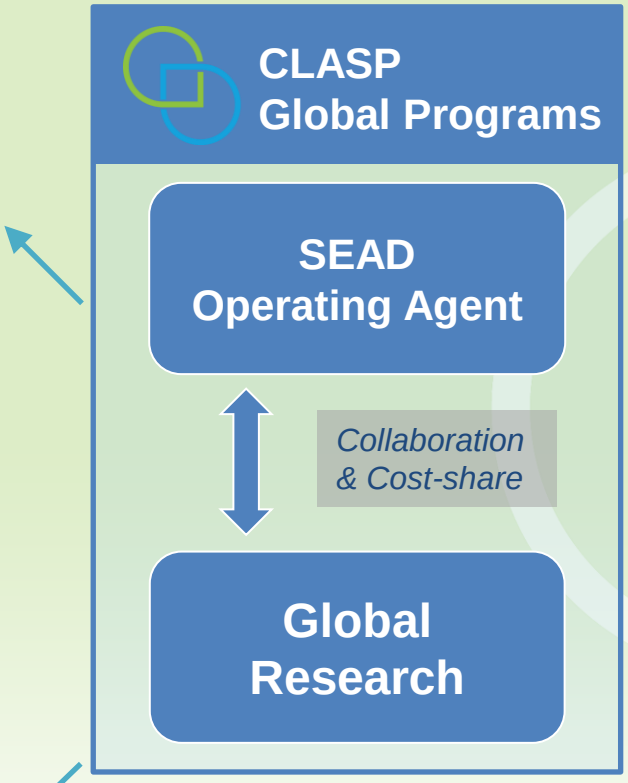
Impact S&L policy processes in SEAD economies:

- Product collaborations and directed research
- Mapping & Benchmarking studies and policy recommendations

Innovative Global Programs

Implement groundbreaking international initiatives:

- SEAD Global Efficiency Medal
- Efficient Product Promotion Collaborative
- Cross-cutting research tasks



High-level Access

Gain direct access to high-level policy makers:

- Moderating the Clean Energy Ministerial Super-Efficient Appliances Roundtable
- Delivering expert-level strategic briefings to Secretary Chu

Global Outreach

Leverage Clean Energy Solutions Center to provide:

- Expert consultation services to diverse global governments and S&L practitioners
- Dissemination of global best practices through S&L webinars

CLASP Resources

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More information about CLASP's activities:
http://www.clasponline.org/en/WhatWeDo

More information about CLASP's Programs:
http://www.clasponline.org/WhereWeWork

More information about the SEAD Initiative:
http://superefficient.org/