

Key Learnings

Best practice, sources of information

Lighting, Appliances and Equipment: Session 10

Mark Ellis and Melanie Slade

Jakarta, 18 July 2018

🄰 #energyefficientworld



- Roundtable:
- What **<u>2-3 things</u>** have you learnt this week?



S&L Programmes



Q: Why have we focused on S&L Programmes?

A: S&L Programmes provide the foundation for a range of policy options



Best Practice Elements of S&L Programs





Legislation



- Establishes some of the key programme elements
 - Aims and objectives Responsible authorities
 - The obligations
 - Entry conditions, evidence, reporting, review, complaints, etc.
 - Test methods (or where these are)
 - Coverage
 - Participants (suppliers, importers, retailers)
 - Products (or how products can be added)
 - Market Surveillance and Enforcement powers
- Once established, difficult to amend
 - But there may be opportune moments periodically
 - Good to store-up improvements based on experience
- Administrative guidelines
 - How legislation is put into effect
 - Can be altered simply when needed



- <u>Maintaining</u> a MEPS and/or Label takes as much effort as adding new products:
 - Update scope to account for product developments
 - Update performance requirements to keep pace with improvements
 - Update test methods
- <u>Maintaining</u> a MEPS often has more impact than adding new products
 - Because the first products are often the largest energy users
- Focus on a few key products to start with
 - Better to do these well than try to be too ambitious at the start
 - Build a mandate to do more gain political will
- Allow time to transition
 - Industry to adjust products & register
 - Laboratories to test products



 Name two things that you are going to do differently as a result of this training?



- IEA Technology Collaboration Programme for Energy Efficient End-Use Equipment (4E)
- Super Efficient Appliance Deployment (SEAD)
- Collaborative Labelling and Appliance Standards Programme (CLASP)
- Sustainable Energy for All (SE4All)
- United for Energy Efficiency (U4E)
- ASEAN SHINE
- Kigali Cooling Efficiency Program









Site:

http://www.iea-4e.org

Video:

https://youtu.be/zWCpj1ff5Ds







- 4E provides an international forum for governments and other stakeholders to:
 - Share expertise and develop understanding of end-use equipment and efficiency policies
 - co-ordinate international approaches in the area of efficiency end-use equipment
- Launched in March 2008, 4E now has 12 member countries actively participating in collaborative projects
- 4E seeks to meet the challenges for policy makers to maximise energy efficiency on all types of non-transport appliances and equipment
- Over 450 publications freely available



A Global Initiative: SEAD governments work together to save energy











CLASP Resources and tools for policy makers





S&L Policy Toolkit

Product and Policy Analysis Tool (PPAT)



S&L Guidebook





MV&E Guidebook

United for Efficiency – U4E





United for Efficiency – U4E



- A public-private partnership
- U4E supports developing countries and emerging economies
- E.g. ASEAN countries, Chile, Peru



http://united4efficiency.org/



- Kigali Amendment to the Montreal Protocol.
 - phase down of hydrofluorocarbons (HCFCs).
- Cooling already accounts for more than 7% of global emissions will grow as developing country economies expand.
- Replacement of HCFCs + more efficient cooling could help avoid the equivalent of approximately 160 billion tonnes of CO2 by 2050.
- Kigali Cooling Efficiency Program (K-CEP) is a philanthropic collaboration launched in 2017 to support the Kigali Amendment to the Montreal Protocol and the transition to efficient clean cooling.



- Key areas of activity
 - **Strengthening for efficiency** (S4E)— integrate energy efficiency into the Montreal Protocol e.g. training for National Ozone Unit officers.
 - Policies, standards, and programs (PSP)—advancing specific cooling policies, standards, and programs with significant potential to reduce emissions and contribute to development.
 - **Finance**—leveraging significant additional finance, both investment and non-investment.
 - Access to cooling (A2C)—elevating the profile of efficient, low-GWP (global warming potential) cooling as a development priority.
 - Kigali Progress Tracker; monitoring, reporting, evaluation, and learning.
 - https://www.k-cep.org

ASEAN SHINE

A public-private partnership between the United Nations Environment Programme (UN Environment) and the International Copper Association (ICA).

It is in direct support of the United for Efficiency (U4E) Initiative which is a global effort supporting developing countries and emerging economies to move their markets to energy efficient appliances and equipment under the Sustainable Energy for All (SE4ALL) energy efficiency goal.

http://www.aseanshine.org/



A Private-Public Partnership to promote sustainable energy equipment and appliances in ASEAN





Strategic Framework





Task Forces



• Focus

- Air conditoners
- Lighting
- Motors
- Transformers
- Tools:
 - AC SELECT Application webversion calculator
 - PAMA model
 - PAMA model User Guide_IIEC Policy Analysis Model for ASEAN
 - AC SELECT educational video
 - MV&E Videos
 - AC technology software (China)
 - IIEC AC financial model

Achievements



- ASEAN Standards for A/c testing methods harmonized to ISO 5151:2010
- In 2015, the ASEAN Ministers of Energy Meeting (AMEM) endorsed the "ASEAN Regional Policy Roadmap for Harmonization of Energy Performance Standards for Air Conditioners"
- National policy roadmaps developed and adopted by ASEAN Member States
- Capacity building programs for AC manufacturers and testing laboratories
- AC Selection software and AC SELECT App developed to help consumers see important economic benefits of purchasing higher efficiency air conditioners
- Training of sales persons in ASEAN countries
- Lighting products included from February 2016
- In December 2016, action plans for electric motors, distribution transformers, refrigerators and solar PV were developed



• ASEAN Standards Harmonisation, Jean- Marc Alexandre-U4E



www.iea.org #energyefficientworld