

Promotion of higher efficient equipment in ASEAN



Funded by



Program team

Program implementation team



Funding



Steering Committee

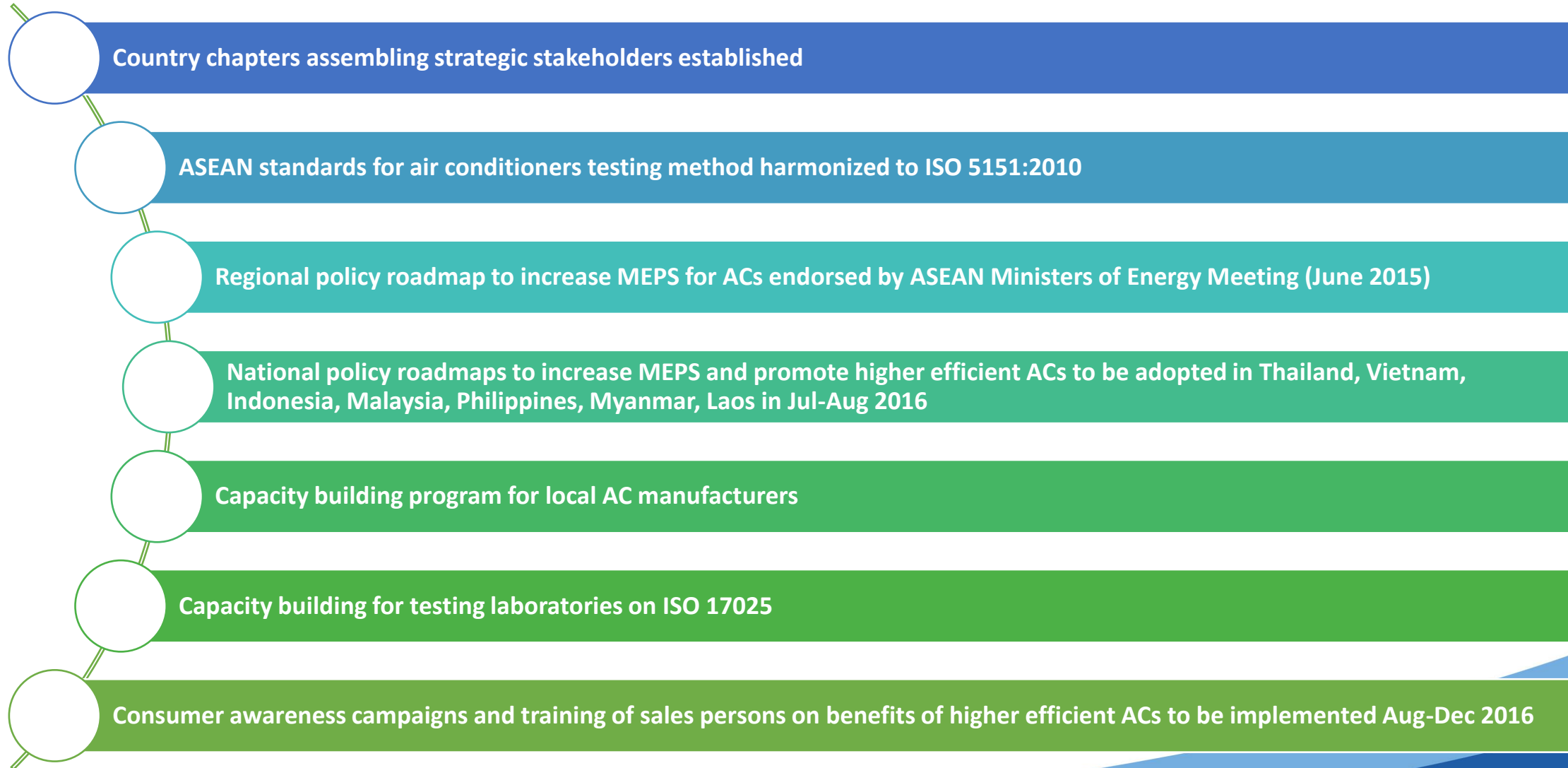


ASEAN EE&C Sub-Sector Network

Advisory Committee



Achievements to date



Country chapters

Strategic stakeholders to support the implementation of national activities

INDONESIA

- Ministry of energy and mineral resources
- Accreditation agencies: SUCOFINDO, Baristan, TUV Rheinland
- Lab testing: B4T, Panasonic, Polytron)
- GABEL – Indonesia Electronic Producers Association
- Air-con Manufacturer (Panasonic Indonesia, LG, Samsung, Sharp, Daikin Indonesia, Polytron, Maspion)
- Ministry of Trade, Ministry of Industry, Customs (Under Ministry of Finance)

MALAYSIA

Chairman: Energy Commission (Suruhanjaya tenaga) – Regulator

- MACRA – Malaysia Air Conditioning & Refrigeration Association
- Department of Environment, NRE
- MEADA – Malaysia Electrical & Electronics Distributors Association
- SIRIM Berhad – standard working organization
- KeTTHA – Ministry of Energy, Green Technology and Water
- SIRIM QAS International – Conformity Assessment Body

VIETNAM

- General Directorate of Energy, Ministry of Industry and Trade
- Standards Dept., The Directorate for Standards, Metrology and Quality of Viet Nam
- Vietnam Standards and Quality Institute
- Refrigeration and Air conditioning Association
- Quatest 1
- Customers Association

PHILIPPINES

- Department of Energy, DOE
- Department of Trade and Industry - Bureau of Products and Standards, DTI-BPS
- Department of Environment and Natural Resources - Environmental Management Bureau, DENR-EMB
- Philippine Appliance Industry Association, Inc, PAIA

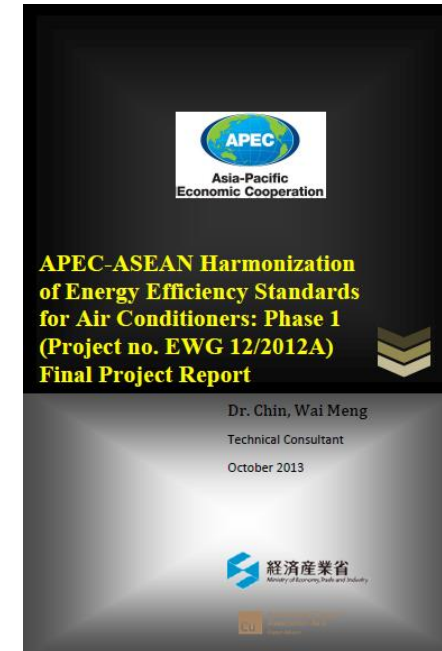
THAILAND

- DEDE, Ministry of Energy
- TISI, Thai Industrial Standards Institute, Ministry of Industry
- EEI, Electrical and Electronic Institute
- EGAT, Electricity Generating Authority of Thailand
- FTI, Federation of Thai Industries
- Air con Association

ASEAN Standards Harmonized

Achievements & plan

All ASEAN member states to use ISO 5151:2010 for the testing method for air conditioners by 2017
Adoption of ISO 16358 by 2020



Standards
harmonization
technical report,
October 2013

Standards Harmonization Technical Working Group meetings, 2013
EU-APEC-METI

ASEAN Regional Policy Roadmap endorsed

Achievements

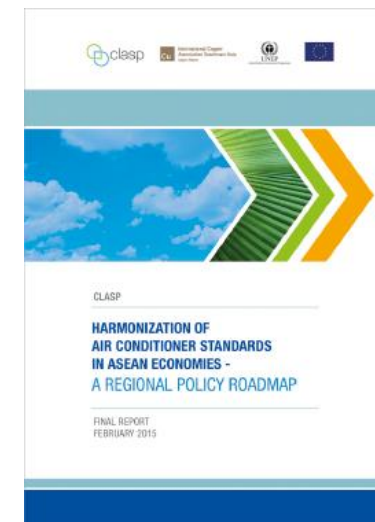
Regional Policy Roadmap endorsed by 10 ASEAN member states (Ministers of Energy Meeting, AMEM)
ASEAN Member states have agreed to increase MEPS for ACs over time

December 2014,
Jakarta



Steering Committee
meetings

June 2014
Manila



Capacity building for testing labs

Achievements

Training for testing laboratories from Thailand, Malaysia, Indonesia, Philippines, Vietnam
Increased capacity to perform testing according to ISO5151:2010 and implement ISO 17025



Completed - Participants from Labs in 5 ASEAN countries including representative from ACE attended ISO 17025 training workshop, 17-19 August 2015, in Bangkok

Capacity building for local AC manufacturers

Ongoing

Training on advanced technology to increase energy performance of ACs



Done - Conference on Trend and Micro Groove Technology for Air con industry on May 22nd, 2015

July 2016: training of small-diameter copper tubes for heat exchanger

National consumer awareness campaigns

Objectives

Train sales persons in department stores on benefits of higher efficient ACs
Disseminate Smart Phone App and online Calculator to help understand economic benefits of higher efficient ACs

Government endorsement

THAILAND
Ministry of Energy

VIETNAM
Ministry of Industry and Trade

INDONESIA
Ministry of energy and mineral resources

PHILIPPINES
Department of Energy

MALAYSIA
Energy Commission

International support



Strategic partnerships

Consumer associations

Retail chains

Testing laboratories

AC manufacturers

- Under the leadership of UNEP
- Work program:
 - **Work Package 1:** ASEAN Regional Lighting Market Assessment (IIEC)
 - **Work Package 2:** Harmonized test standards for Lighting products
 - **Work Package 3:** ASEAN Regional Lighting Policy Roadmap for MEPS
 - **Work Package 4:** National Lighting Policy Roadmap and Capacity Building Activities for Policy Makers
 - **Work Package 5:** Capacity Building on monitoring, verification and enforcement for Compliance and Enforcement Authorities
 - **Work Package 6:** Capacity Building for Local Lighting Manufacturers
 - **Work Package 7:** Awareness Raising Campaigns and Activities for End-users

ASEAN SHINE in the future

- ASEAN SHINE platform maintained after end of EU grant (Dec2016):
 - Project Management Office by ICA (Bangkok)
 - Advisory Committee
 - Steering Committee
- Scope of work expanded from Air Conditioners to Energy Efficiency at large; expansion to Renewable Energy under consideration
- Objective: market transformation
- Approach:

Standards harmonization

CB for testing labs

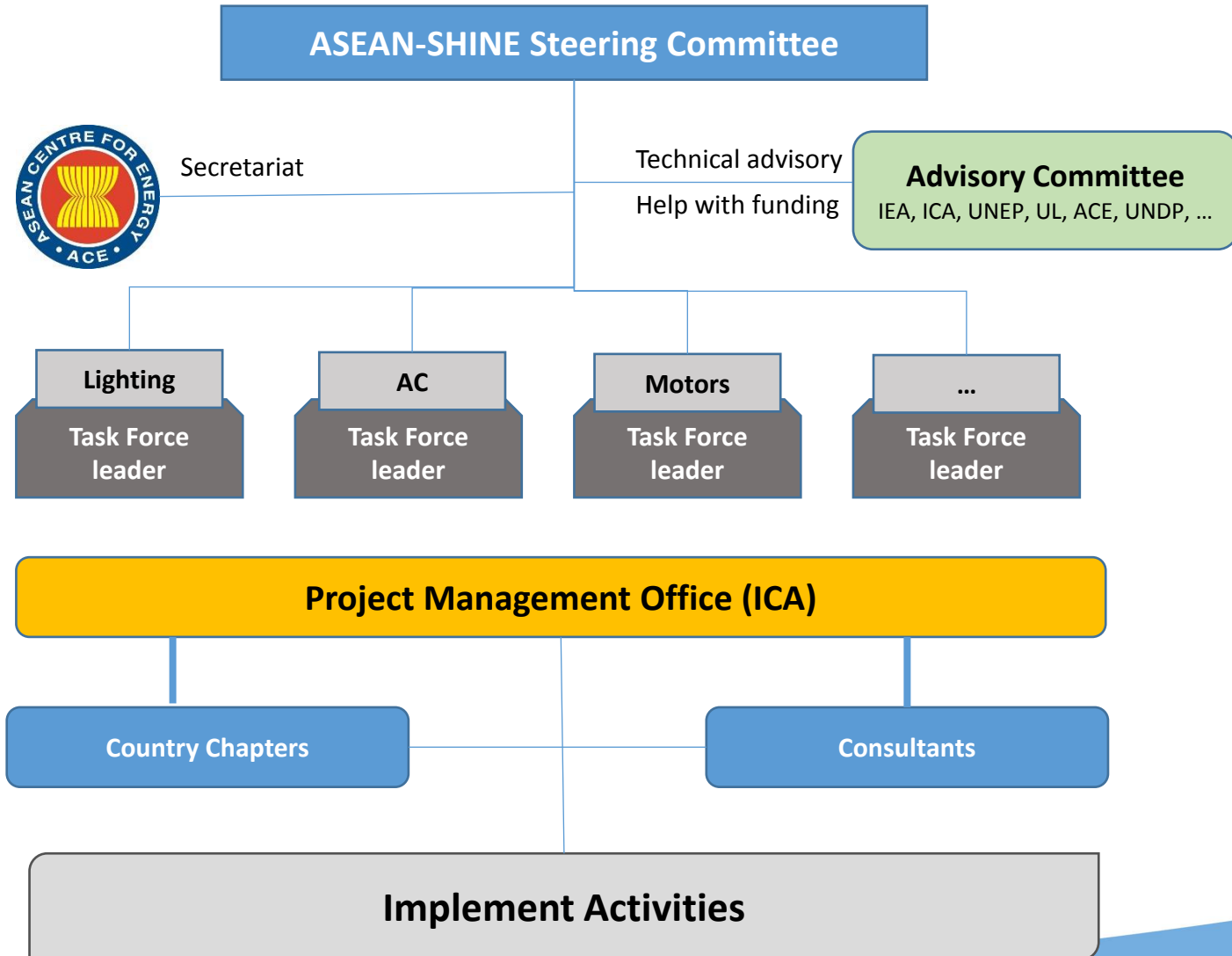
CB for local manufacturers

Regional Policy Roadmaps

National Policy Roadmaps

End-users awareness campaigns

ASEAN SHINE in the future



International
Energy Agency



ASEAN SHINE in the future

- Action plans for motors, transformers, refrigerators, solar PV and solar thermal under preparation
- Regional stakeholders consultation workshop 26 July in Hanoi
- Draft regional policy roadmaps to be finalized within 1 year
- Action plans to be presented to the Donors Coordination Conference in October in Bangkok



Pierre Cazelles
Director – Partnerships Asia
International Copper Association
Email: pierre.cazelles@copperalliance.asia
Mobile: +86-159-0100-7376