



**Asia-Pacific
Economic Cooperation**

2017/EWG/EGNRET48/004

APEC–SHINE Facility

Purpose: Information
Submitted by: ICA



**48th Expert Group on New and Renewable Energy
Technologies Meeting
Jeju, Korea
29-30 March 2017**



International Copper
Association
Copper Alliance

APEC – SHINE Facility

Joint EGNRET-EGEEC meeting, Jeju, 28 March 2017

Pierre Cazelles

International Copper Association

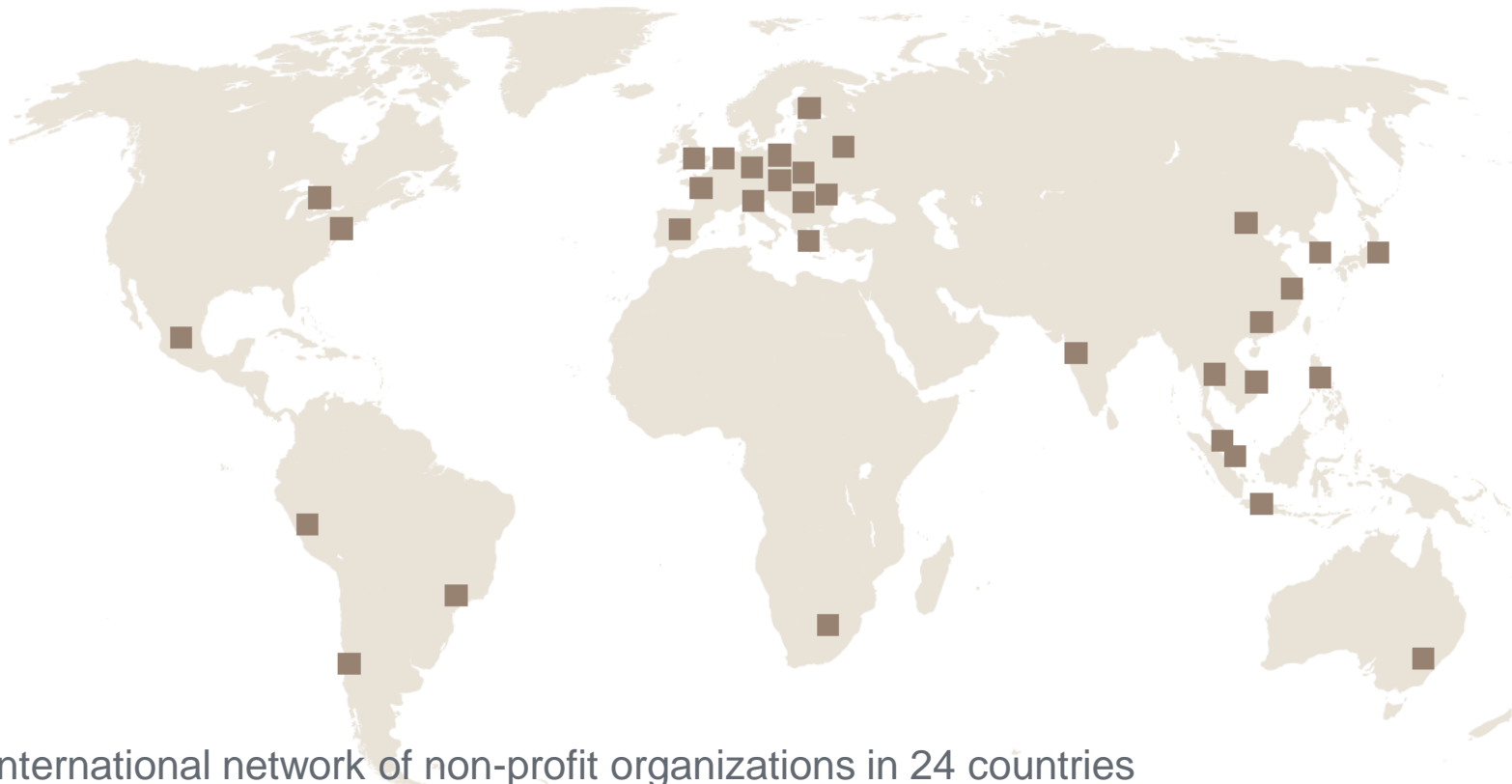
Director – Partnerships Asia



The Copper Alliance Network

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World Presence

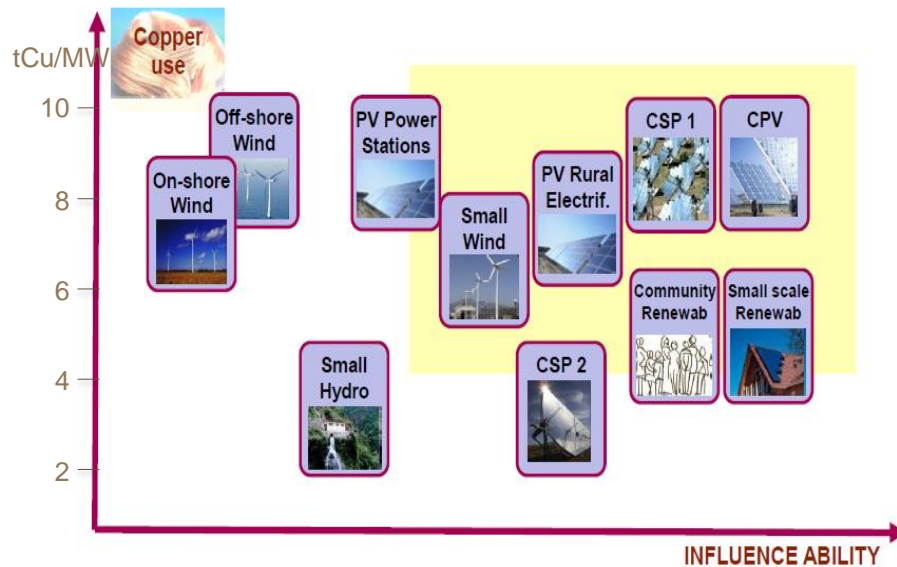


- International network of non-profit organizations in 24 countries
- Headquarters in New-York
- In Asia: 3 offices in China (40 staff), Bangkok (4), Jakarta (2), Hanoi (2), Singapore (4), Chinese Taipei (1), Seoul (3), Tokyo (2), Kuala Lumpur (1), Jakarta (2), Mumbai-Delhi (12)

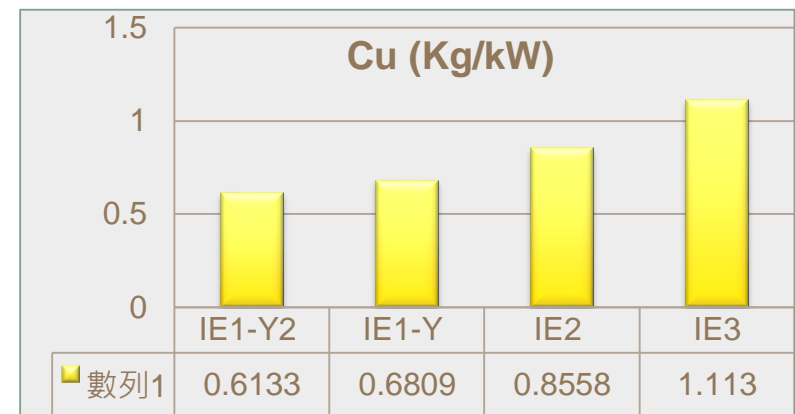
Copper and Sustainable Energy

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- Copper is the most efficient thermal and electrical conductor (40% more efficient than aluminum)
- Energy efficiency and renewable energy systems imply more copper



Industrial electric motors



ICA promotes renewable energy and energy efficiency as a means to support the use of copper

ICA and international cooperation

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- **With European Commission:** over 9 million euros of grants since 2010 in 6 projects to promote higher efficiency motors, higher efficiency air conditioners, heat pump water heaters, energy management, higher efficiency distribution transformers, power quality



- **With UNEP:**
 - overall Memorandum of Understanding
 - ICA implementing agency for ASEAN SHINE



- **With APEC:**
 - Only non-government private organization with observer status in EWG
 - ICA acts as implementing partner with Project Overseers contributing additional human and financial resources



- **Six projects implemented in cooperation:**
 - APEC funding: 750,000 USD
 - ICA co-funding: 900,000 USD (in-kind and in-cash)

- **Including:**
 - 2 projects with SEAD's **APEC-CAST**
 - 3 projects with **EGEEC** (with the following Sponsor economies: Japan, Australia, China)
 - 1 project with **EGNRET** (with USA as Sponsor economy): **Capacity building for installers and system designers for solar PV rooftop installations**

- **How does it work:**
 - ICA and sponsor economies discuss project concept
 - ICA provides technical support to prepare the concept note and full proposal
 - During implementation, ICA provides:
 - Managerial support for the organization of workshops
 - Managerial support for liaison with consultants
 - Technical support
 - Managerial support for the preparation of reports to APEC
 - Financial support for hiring consultants, inviting additional participants in workshops, other costs not eligible under APEC funding rules
- **Experience so far very successful**
- **Idea: how to make this cooperation more structured?**
- **Proposal: APEC-SHINE Facility (previously called APEC-ICA Energy Facility)**



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APEC – SHINE FACILITY



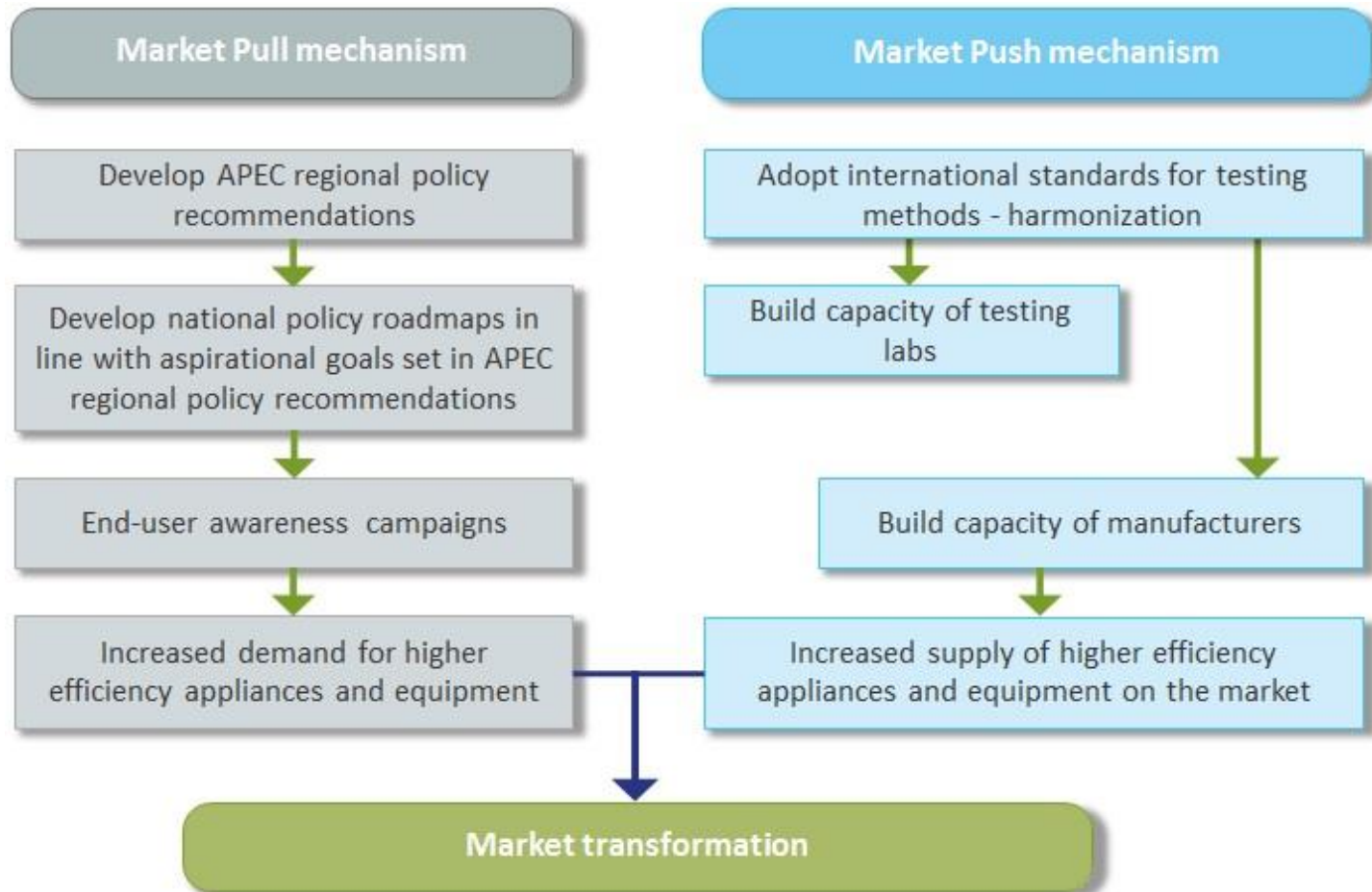
- **Key features:**

- About 300K ICA funding per year (including up to 150K in cash)
- In support of APEC-funded projects in line with objectives mutually agreed upon
- No change in APEC proposal evaluation process

- **Objective:**

enhance the impact of APEC-funded projects in achieving the EWG goals, by providing a long-term path to APEC EWG expert groups in the areas specific to the APEC-SHINE Facility through an active Private-Public Partnership

- Based on the successful ASEAN-SHINE model, a program initiated with APEC funding



- **Managed by ICA**, Bangkok office
- **Steering Committee** (composed of APEC Secretariat, ICA, and EWG Lead Shepherd)
- **Evaluation Committee** (composed of the Chair(s) of the expert group(s) under which the proposal is submitted, ICA, APEC Sec, EWG Lead Shepherd)

Technology scope

Technology of interest to both EWG and ICA:

- Higher efficiency electric motors (in motor systems for industrial applications)
- Higher efficiency distribution transformers
- Higher efficiency air conditioners
- Higher efficiency refrigerators
- Heat pumps
- Renewable energy technologies

Priority 1: energy efficiency

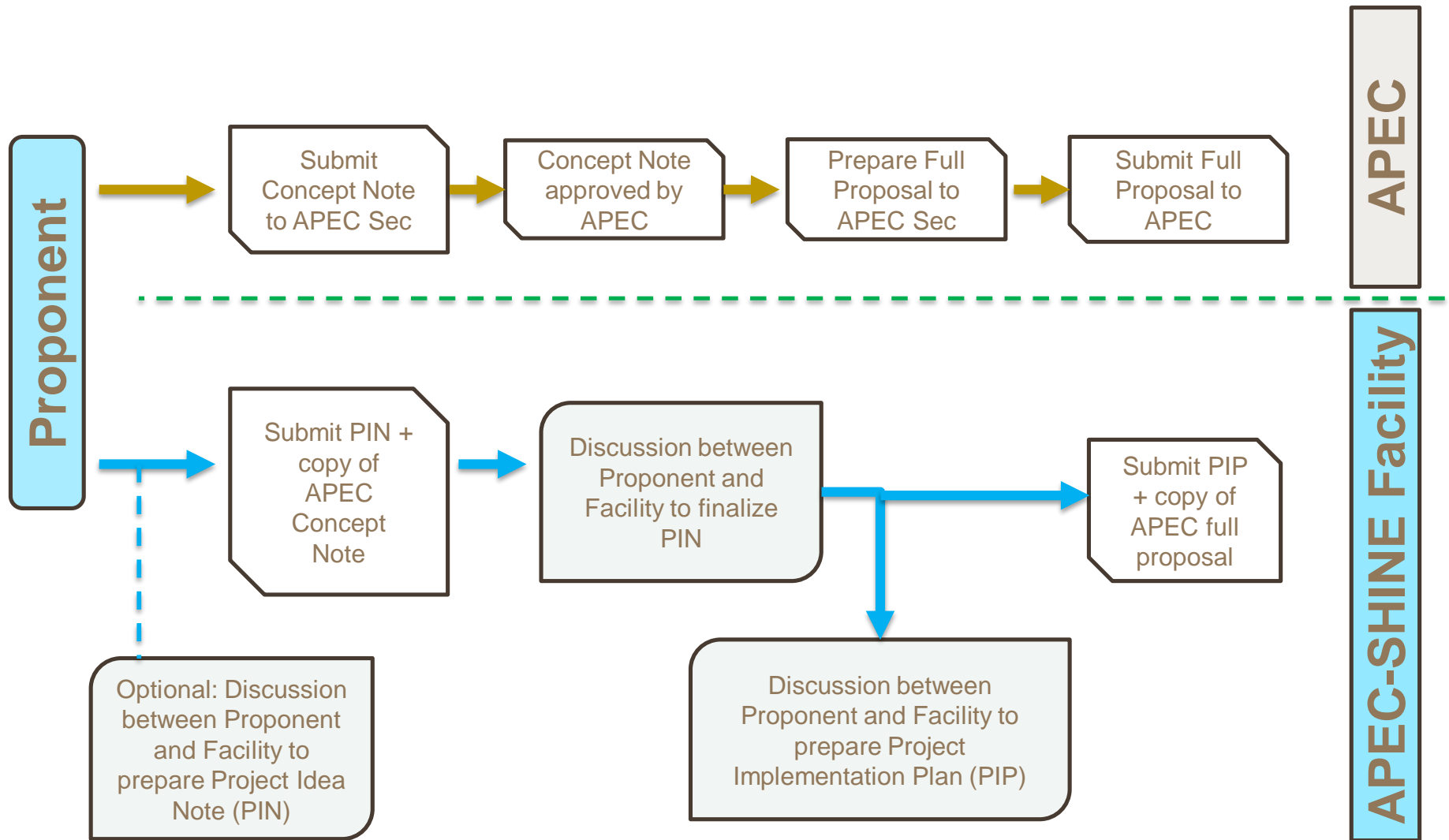
- Adoption of international standards for the testing methods related to measuring the energy efficiency of appliances or equipment – in case of regional projects, the projects shall recommend harmonization of such standards at APEC regional level
- Development of Minimum Energy Performance Standards (MEPS)
- Development of supporting policies
- Strengthening of the Monitoring, Verification and Enforcement (MV&E) framework
- Capacity building for local (SME) manufacturers
- Capacity building for practitioners (such as engineers, installers, designers, ESCOs, ...)
- Awareness creation and/or capacity building for end-users

Priority 2: renewable energy

- Development of national standards, based on international standards when available and applicable, including but not limited to products, safety, installation, connection to the grid
- Development of supporting policies
- Building capacity of engineers, technicians, installers, operators of renewable energy systems
- Awareness creation and/or capacity building for end-users

Submission/evaluation process

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Implementation process

- The implementation of the project will follow APEC procedures and according to the action plan described in the APEC approved proposal
- The Project Implementation Plan (PIP) approved by the APEC Facility will serve as a basis for the implementation of the activities outside of APEC approved proposal
- Project Overseers will implement the PIP in close consultation with the APEC-SHINE Facility management team, according to the plan and procedures agreed upon between the Project Overseer and the APEC-SHINE Facility as described in the PIP

ICA co-funding

The money committed by the APEC-SHINE Facility will be managed directly by ICA

ICA will contract suppliers and consultants directly, and pay expenses agreed in the PIP directly

No funds will be transferred to the Project Overseer



Thank you

Pierre Cazelles

Director – Partnerships Asia

Email: pierre.cazelles@copperalliance.asia

Tel: +86-159-0100-7376

1. **Agree on the concept :**

- Consultation with EGNRET (during this meeting)
- Consultation with EGEEEC Chair (early November)
- Consultation with APEC Sec and EWG Lead Sheppard (in November)

2. **Develop guidelines and process :**

- First draft of guidelines, application form, evaluation and implementation process to be circulated in January 2017
- Final round of consultation with APEC Sec, EGEEEC and EGNRET Chairs, and EWG Lead Sheppard in February-March
- Finalization

3. **Launching :**

- Launching of web site (hosted and managed by ICA)
- Announcement and presentation during EGEEEC and EGNRET 1st annual meetings in 2017
- Announcement during the first EWG Meeting in 2017 (May?)



Thank you

Pierre Cazelles

Director – Partnerships Asia

International Copper Association

Tel: +86-159-0100-7376 / +66-92-5010-666

Email: pierre.cazelles@copperalliance.asia