



**International Copper
Association**
Copper Alliance

ICA – APEC Cooperation

Pierre Cazelles
Director – Global Partnerships
Director – ICA Southeast Asia
International Copper Association

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- **International non-profit organization**
 - **Dedicated to promote the use of copper in end-use products while contributing to the achievement of the UN SDGs**
 - **ICA's intervention logic based on copper's natural attributes including:**
 - **Higher efficiency in electrical and thermal conductivity (40% more efficient than Al)**
 - **Higher safety in low voltage electricity distribution**
 - **ICA's programs dedicated to support, inter alia:**
 - **Development of enabling regulatory and policy environment for higher efficiency electricity-using products**
 - **Development of decentralized renewable energy systems**

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- **Project-based cooperation, started in 2010**
 - **EWG Guest Status since 2015**
 - **So far 8 projects with EGEEC and EGNRET (total APEC funding: 1 million; ICA co-funding: 1.5 million (in-kind and in-cash))**
 - **ICA's support to economies:**
 - Technical expertise
 - Managerial support to implement the project and conduct the studies
 - Financial support

EWG 03 2020A– Integrating Electrical Vehicles and Solar Rooftop PV in Electricity Distribution Systems with Continued Performance of Distribution Transformers



EWG 03 2020A	Integrating Electrical Vehicles and Solar Rooftop PV in Electricity Distribution Systems with Continued Performance of Distribution Transformers	
Sponsor economy	Thailand	
Project overseer	DEDE, Ministry of Energy	
Problem statement	EV charging stations and solar rooftop PV create disturbances on the electricity distribution system (power quality, harmonics, peaks) which affect, among others, the performance and life expectancy of distribution transformers	
Objectives	<p>Assess the impact of new electric vehicles and solar rooftop PV on electricity distribution systems in APEC economies</p> <p>Create awareness among policy makers about this issue</p> <p>Build capacity of policy makers on how to prevent such problems through enabling regulatory and policy environment</p> <p>Provide recommendations</p>	
Activities	<p>Carry out study, with support of international experts panel</p> <p>Conduct interviews with strategic stakeholders (DT manufacturers, utilities)</p> <p>Prepare report including:</p> <ul style="list-style-type: none"> • Description of the problems (technical) and experts recommendations • Impact assessment on electricity distribution systems (APEC-wide) <p>Conduct capacity building workshop</p>	<p>May-Sep</p> <p>Nov</p>
Status	Consultant contracted; study initiated	

ICA's new initiative CORE – Cornerstone of rural electrification

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An initiative of



Implemented by



Scope: decentralized renewable energy electrification in rural and peri-urban areas (all geographies)

Mission: CORE enables resilient rural and peri-urban communities by ensuring **safety**, **efficiency**, **reliability** and **sustainability** become the cornerstone of decentralized electrification

Value Proposition: *offer technical assistance* on aspects related to increasing **safety**, **efficiency** and **reliability** of DRE systems, and on **strengthening local communities' resiliency and empowering women on productive use of electricity**

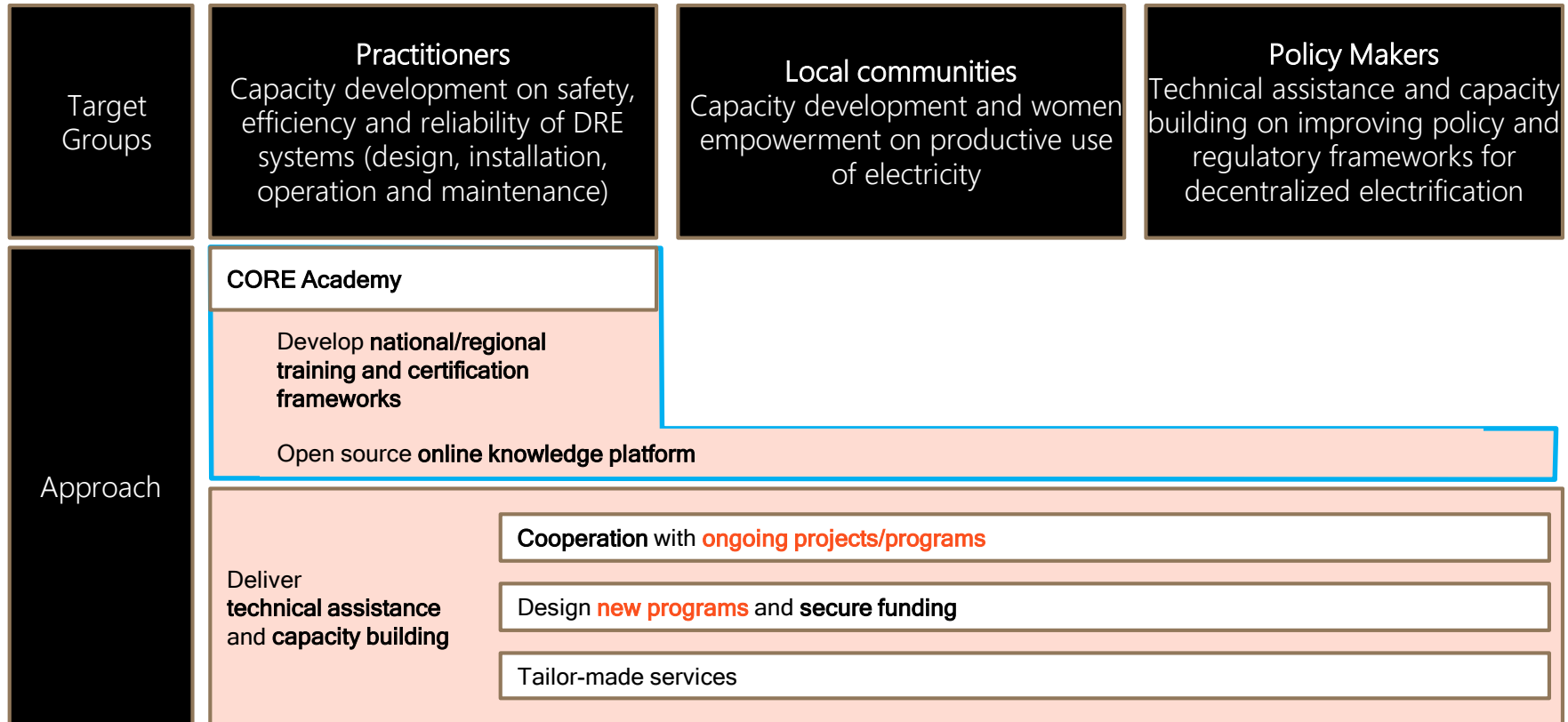


ICA's new initiative

CORE – Cornerstone of rural electrification

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Mission: CORE enables resilient rural and peri-urban communities by ensuring safety, efficiency and reliability become the cornerstone of decentralised electrification



Potential areas of cooperation APEC-ICA/CORE

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Empower women and local communities on productive use of electricity

Context:

- With efforts to expand access to electricity through decentralized renewable electricity systems, women play a key role as agent of change in rural economic development

Approach:

- Scope: developing economies in APEC
- Stakeholders mapping and capacity building needs assessment
- Development of e-learning modules and tools to empower women and local communities on productive use of electricity
- Conduct training of trainers
- Policy recommendations
- Capacity building workshop with policy makers (EGNRET)

Thank you

The logo consists of the letters 'Cu' in a white, sans-serif font, centered within a solid brown square.

Pierre Cazelles

Director – Global Partnerships

Director – CORE

International Copper Association

Email: pierre.cazelles@copperalliance.org

Tel: +66-9-1760-9060