

ENERGY EFFICIENCY POLICIES IN ASEAN REGION

Energy Efficiency Policy Dialogue & Energy Efficiency Capacity
Building Workshop

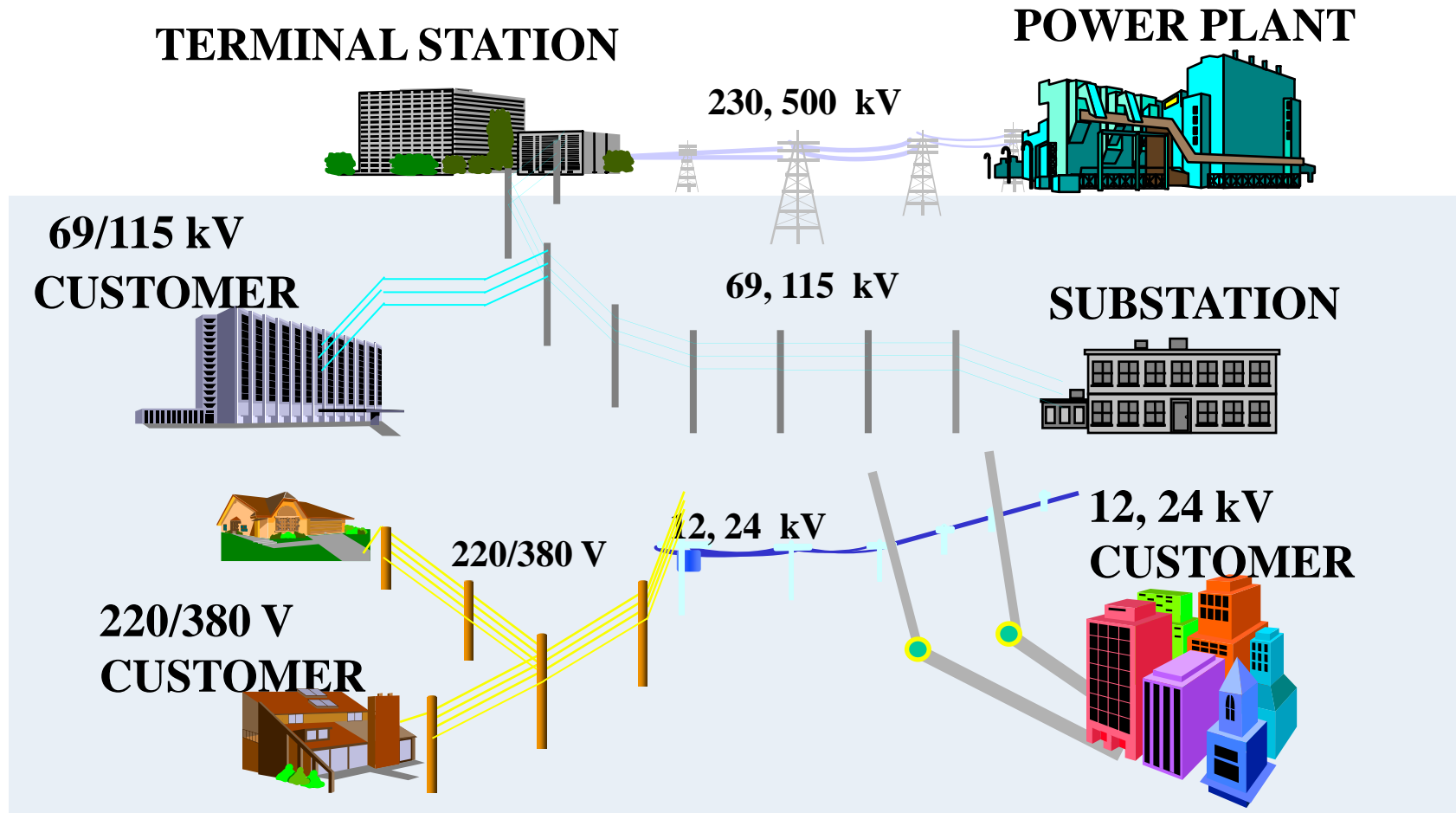
Regional Harmonization in Power Distribution Systems

Bek Chee Jin

IPEEC/WEACT Conference, 20 October 2011

The Dharmawangsa, Jakarta, Indonesia

Power System



Harmonization of Power Distribution Systems: Lower Mekong Sub-region (LMS)

Thailand

Cambodia

Lao PDR

Vietnam



Strategic Considerations

- 4 countries, different cultures, different languages
- different stages of economic development, but
 - Strong interactions
 - Strong leverage effects
- different stages of development of power distribution system
 - Different level of availability, reliability and quality
- Similar geographical environment and conditions

Building a Collaborative Platform

- **Solutions**
- **Role model**
- **Peer Pressure**
- **Involvement**
- **Ownership**

ICA's Role in Harmonization Program

A CATALYST to:

Initiate loss reduction programs

Facilitate regional collaboration

Drive harmonization processes

Major Milestones and Achievements

2005

Feasibility Study

- Program inception
- MOU: 5 utilities
- Kick-off feasibility study

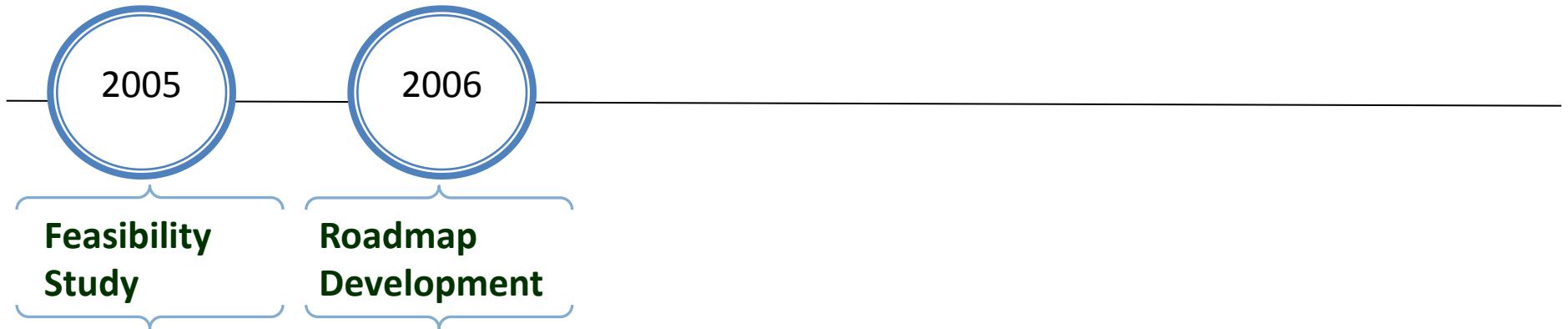


EVN HANOI



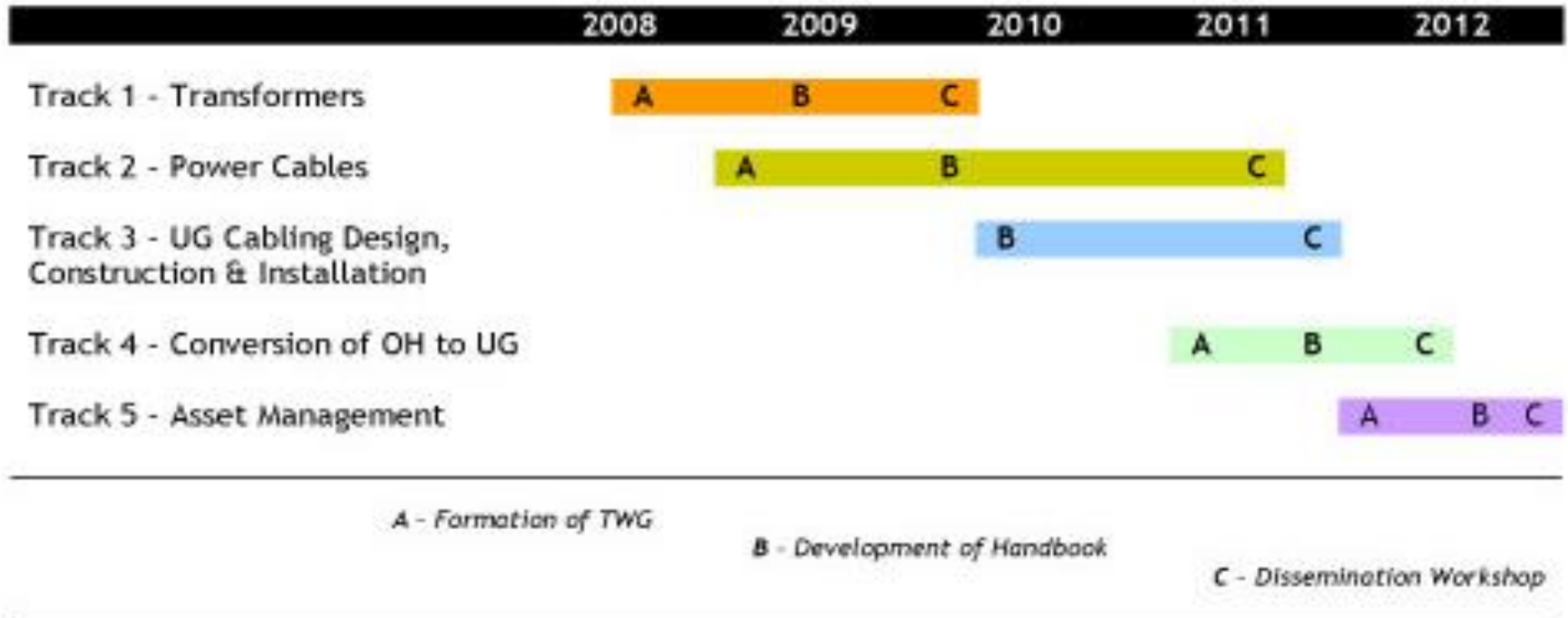
EVN HCMC

Major Milestones and Achievements



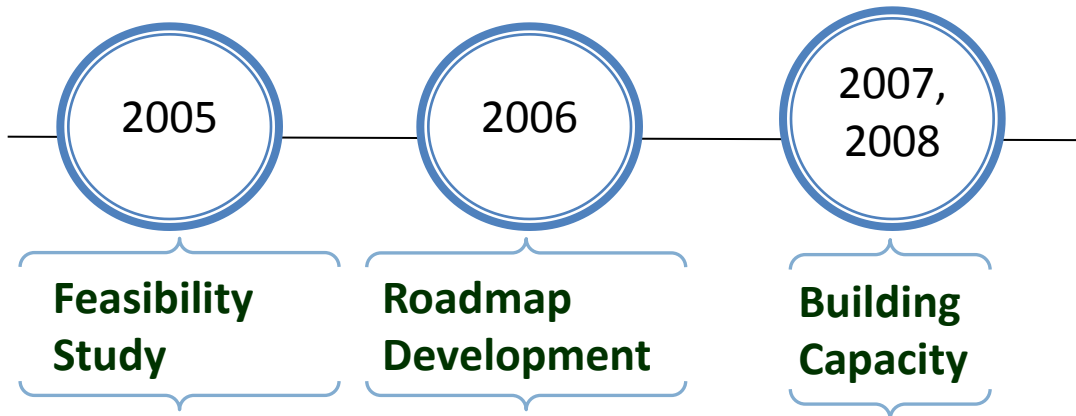
- Feasibility study completed
- Strategic roadmap developed

Strategic Roadmap at a Glance



Track 3 was an initiative of PEA in cooperation with Hanoi Power Corporation and supported by ICASEA. Hence, no TWG was formed.

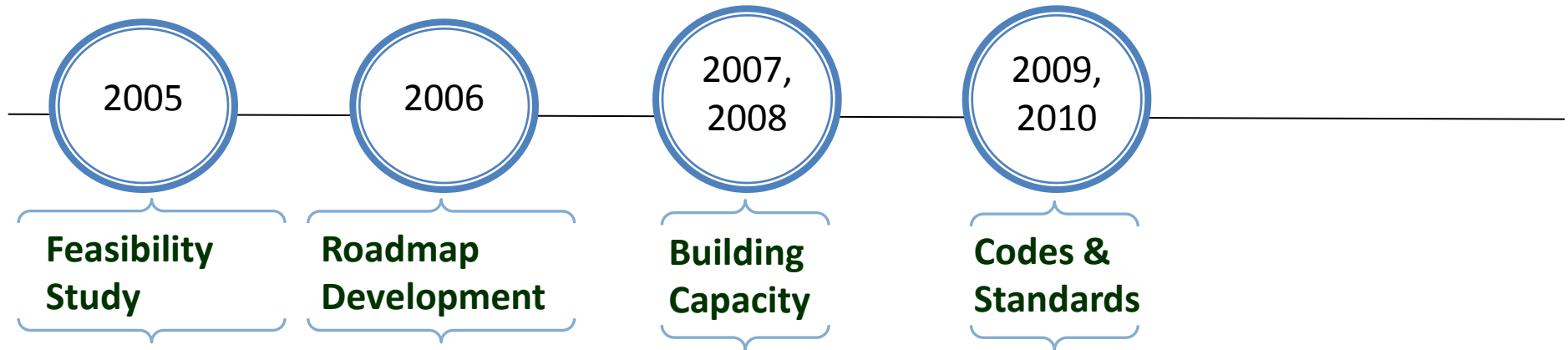
Major Milestones and Achievements



- Training courses
- Formation of Technical Working Groups



Major Milestones and Achievements

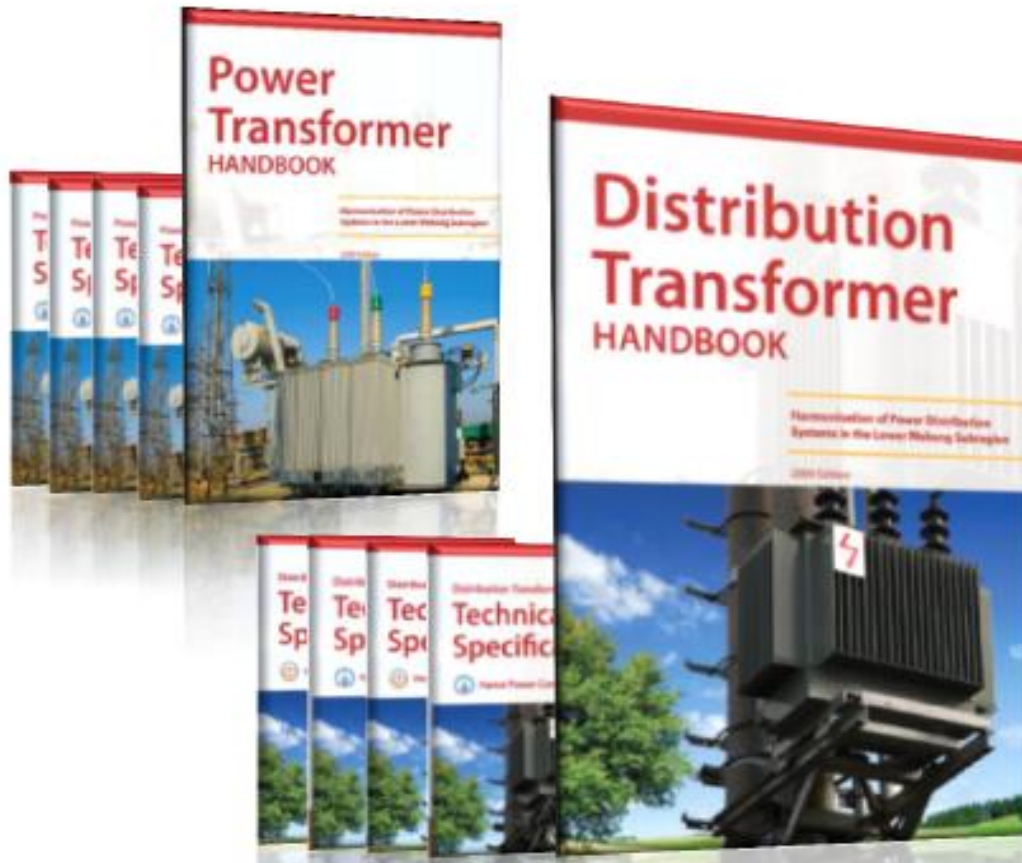


EVN CPC



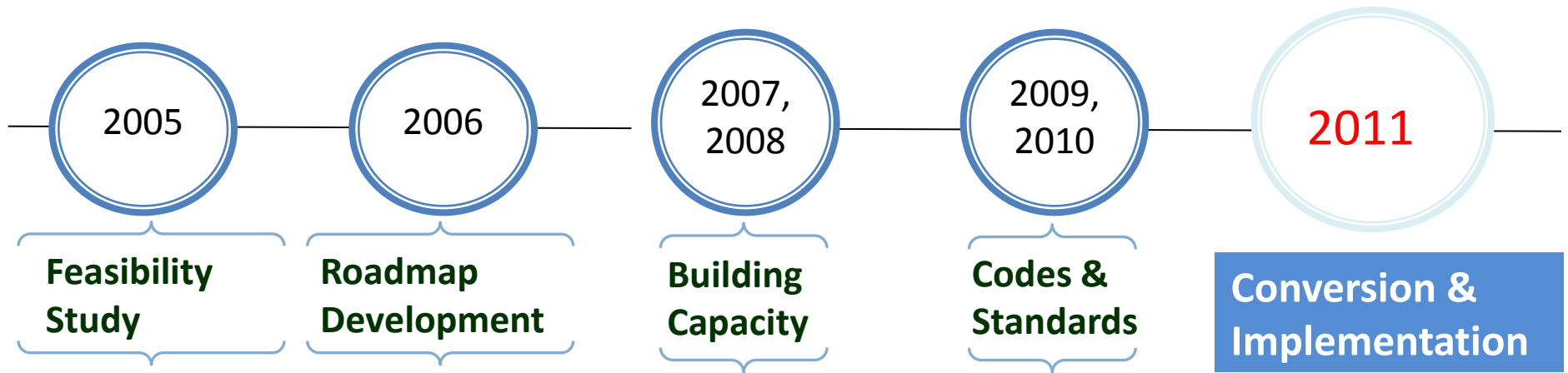
- MOU: +4 Utilities
- Harmonized Technical Specifications and Technical Handbook
 - Transformers
 - Power Cables
- Workshops
- EVN Hanoi PC and EDL adopts handbook as guide for procurement of new transformers

Major Milestones and Achievements



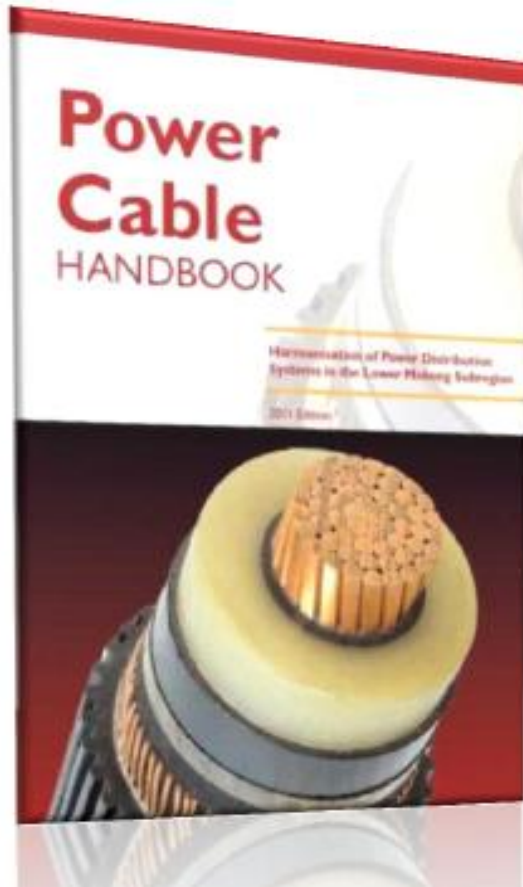
- Developed two series of handbooks
 - Distribution Transformer
 - Power Transformer
- Included “Technical Specifications” for four utilities companies

Major Milestones and Achievements



- MOU: +1 Utilities
- Expansion to Philippines
- Technical Working Group for conversion of overhead power lines to underground cables
- Training and site visits for underground and submarine cabling

Major Milestones and Achievements



- Power Cable Handbook (*Completed*)
- Cable Installation (*to complete by end-2011*)

HARMONISATION of Power Distribution Systems in the Lower Mekong Subregion

2011 Regional Technical Forum
UNDERGROUND CABLING SYSTEM

24 & 25 May 2011
Grand Park Hotel
Singapore



Senior Management Program

Structure/Policies/Processes for Reliable & Quality Power

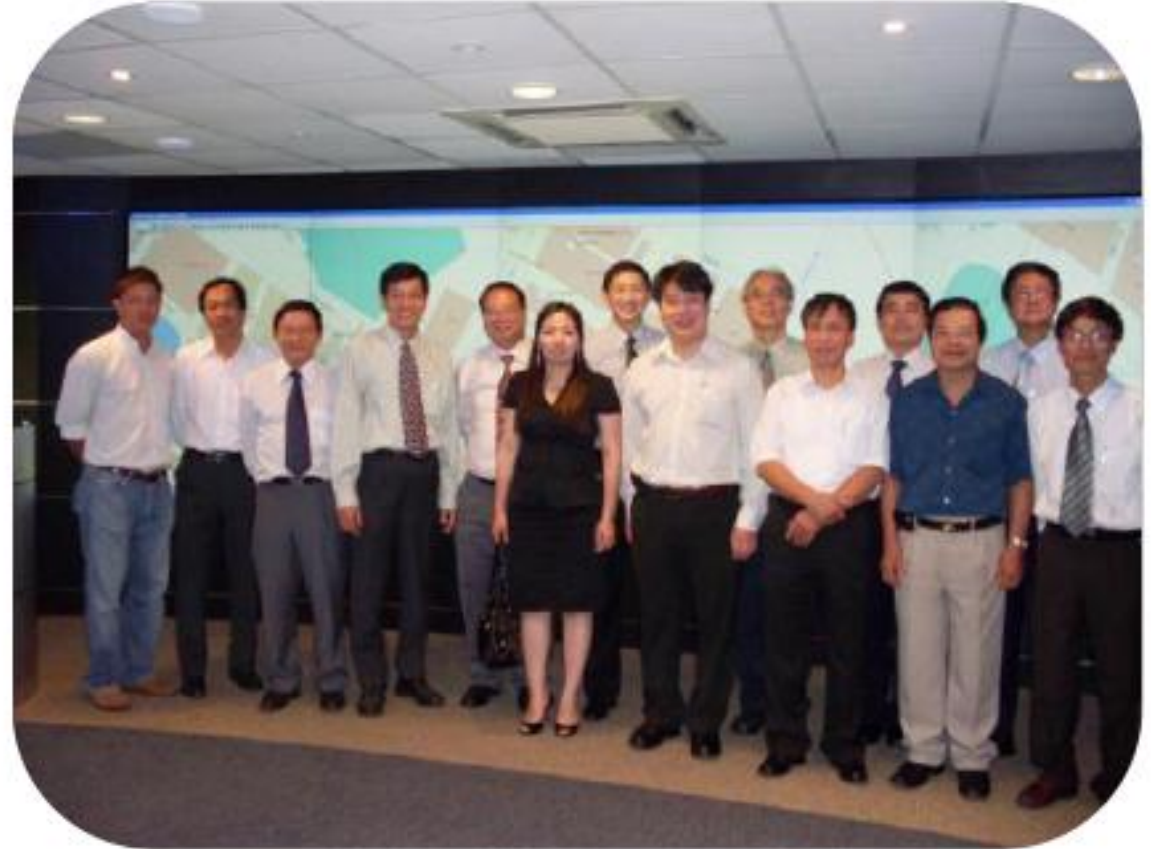
Singapore Power, 13-14 May 2009



On-site Visit



Strategic Partners



Undergrounding the Danang Power Dist Network

Danang, Vietnam – Feb 2011



Participants



Discussion

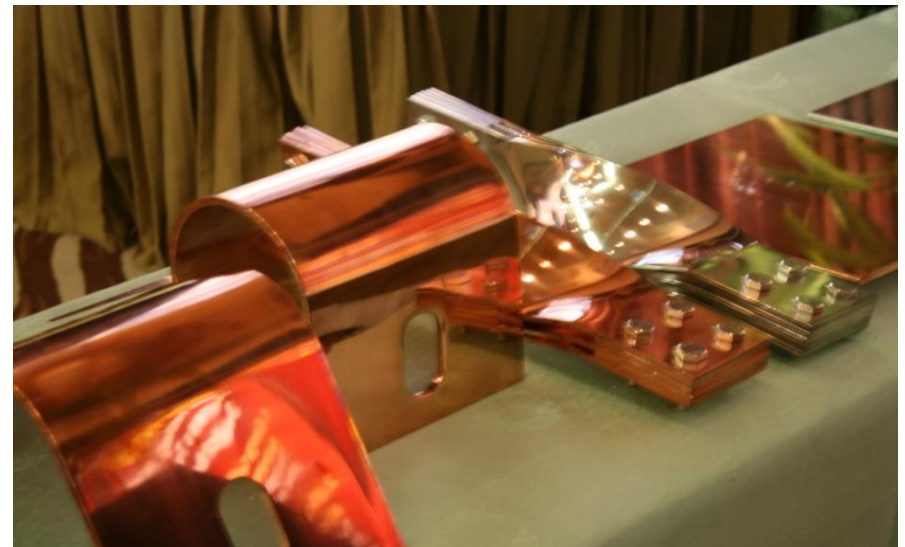


Underground Cabling Technical Working Group Meeting

Bangkok, Ho Chi Minh City – July 2011



Supply Chain Participation





Electricité
du
Cambodge



Electricité
du
Laos



Metropolitan
Electricity
Authority



Provincial
Electricity
Authority



EVNHANOI

Hanoi
Power
Corporation



EVNHCMC

Ho Chi Minh
City Power
Corporation



EVNCPC

Central
Power
Corporation



Danang
Power
Company



Haiphong
Power
Company

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