Asia Pacific Metrology Program
Focus Group on Energy Efficiency

“APMP-FGEE Report to APLMF”

7th November 2019
Vietnam
APMP - Focus Group on Energy Efficiency

Objective:
♦ To know more on national needs and capabilities on Energy Efficiency
♦ To find the relevant situation of each NMIs
♦ To organize members & develop action roadmap

Chair and Co-Chair:
♦ Chair: Mrs. Ajchara Charoensook, NIMT
♦ Co-Chair: Dr. Anton Widarta, NMIJ/AIST
♦ Secretariat: Dr. Oijai Ongrai, NIMT

Member List:
NMIA, NIM, CMS/ITRI, NPLI, BSN, NMIJ, MASM, NMC, KRISS, CMS, NMIT
Promoting Metrology Impact on Energy Efficiency

- Support Energy sector and high energy use Industries
- Accurate measurement for Energy efficiency

Energy Security

- **Electricity**: measurement of
  1. Electrical quality
  2. High Voltage
  3. Online / real time
  4. Energy Storage

- **Oil and gas**: chemical composition, large scale pipeline flow meters
- **Solar cells**: efficiency
- **Wind Power**: wind speed, vibration

Green Buildings

- **Insulation** material characterization
- **LED**: life span/ efficiency
- **Chiller efficiency**
Activities (2018-2019)


2. Smart Energy Technology ASIA 2019 (SETA2019), 10 – 12 October 2019, Bangkok, Thailand

41 participants from: NMIA, NIM China, CMS/ITRI, PTB, RCM-LIPI, CERI, MASM, SCL, NMIJ, MSL – IRL, KRISS, NIMT, NMC (Cam), NMC A*STAR, BCA (Local), MI (Can)

12 Topics of talk on “Metrology for Energy”

- A topic from the user of metrology: Green building and measurement challenge
- A topic from the manufacturer: A Power and Energy System for the Calibration of Active/Reactive Power and Energy
- Nine metrology for Energy topics from 6 NMIs: Measurement for green buildings & materials, EV charging facilities, Flow metrology, Solar PV & LED, RF and microwave, Growth and impact of energy metrology in Indonesia, Australia and Thailand.
- Workshop Discussion: APMP collaborations for Energy Efficiency
Participating in the key industry conferences/events, not normally attended by APMP members (SETA 2019, Thailand) – APMP booth/poster/presentation, EC submit for budget
On behalf of FGEE chair, we are very pleased to invite you to join APMP-FGEE Workshop 2019 to see how metrology can support energy sector in 2019.
Thank you for Energy Attention!

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Focus group/ Energy Efficiency