The ASEAN Energy Management Scheme: an example of successful regional cooperation

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1. Origin of AEMAS

• Need from ASEAN governments to support their energy efficiency promotion policies (APAEC 1999-2004)

• Two major problems faced:
  – Lack of managerial skills among energy managers (all training program focus on technical aspects)
  – Lack of interest from end-users to invest in energy efficiency; cost savings is not strong driver (apart for very energy intensive industries)

• One objective: establish a regional scheme with mutual recognition among countries
2. Overall design of AEMAS

“System of certification based on excellence in energy management”

Training and certification of Energy Managers

- Training curriculum focused EXCLUSIVELY on managerial aspects: how to establish and manage and EnMgt system
- Two levels of certification: Certified EnMer and Professional EnMer

Certification of companies

- Based on ISO 50001 with additional requirements
- Three levels of certification to progressively drive towards EnMgt best practices

Energy Management Gold Standard
3. AEMAS Structure

AEMAS Regional Steering Committee (ASEAN EE&C SSN)

AEMAS Regional Body

Government representatives from 10 ASEAN countries (EE&C SSN)

ASEAN Center for Energy

AEMAS Country Chapter in each country

Steering: Ministry in charge of Energy

Management: Country Coordinator

AEMAS Council: key stakeholders such as Institute of Engineers, Federation of Industries, ...
4. Training and certification of Energy Managers

• Local trainers trained and certified by AEMAS regional experts
• Same training curriculum, same certification procedures
• Certification delivered by country coordinator and ACE
• Certification recognized in all 10 ASEAN countries
5. Energy Management Gold Standard

Why the Energy Management Gold Standard?

• ISO 50001 “Energy Management Standard” is a powerful tool to assist energy managers set up a sustainable energy management system

• HOWEVER, ISO 50001 does NOT require certified companies to improve their energy efficiency: “ISO 50001:2011 does not prescribe specific performance criteria with respect to energy” (extract from ISO 50001 standard)

• Objective of ASEAN governments: convince energy end-users to improve their energy efficiency > ISO 50001 is not sufficient
### 6. Energy Management Gold Standard vs. ISO 50001

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**Energy Management System in place, budget allocated**

**Real EE improvement; Energy Management System is sustainable**
7. AEMAS in numbers

Objectives (2010-2013):

• Train and certify 3,000 Energy Managers
• 100 local trainers
• 100 local auditors
• 2,000 energy end-users certified under Energy Management Gold Standard
8. Achievements so far

- AEMAS already established in all ASEAN countries
- 260 energy managers already certified; 100 additional per month
- 5 companies already certified 1-star under Energy Management Gold Standard:
  - Malaysia: University Technology Malaysia; Telekom Malaysia R&D
  - Philippines: San Miguel-Yamamura Packaging Corporation; Texas Instrument; Toshiba Information Equipment
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