

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 an EnMgt system
- Two levels of certification: Certified EnMer and Professional EnMer

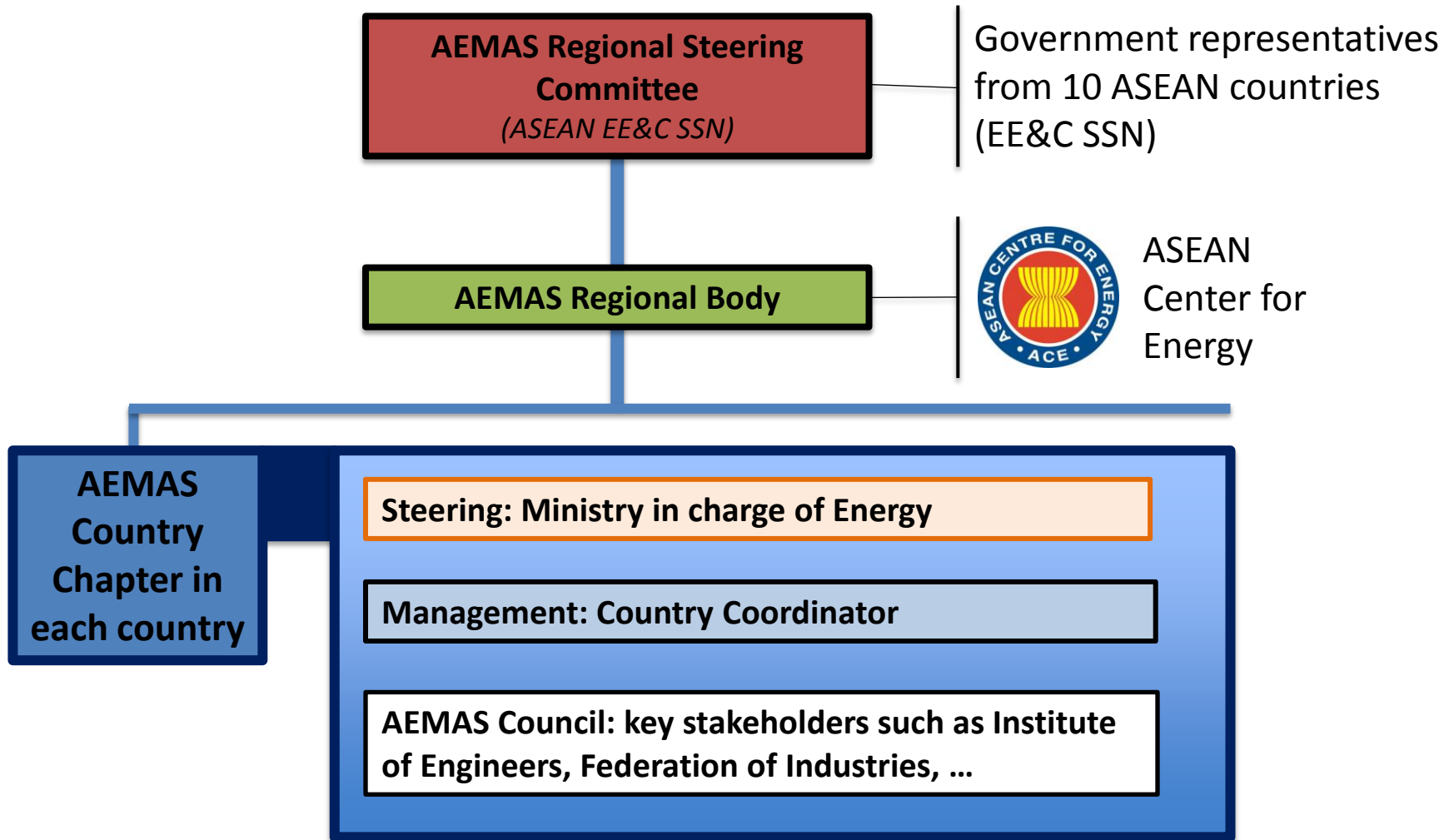
Certification of companies

- 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



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



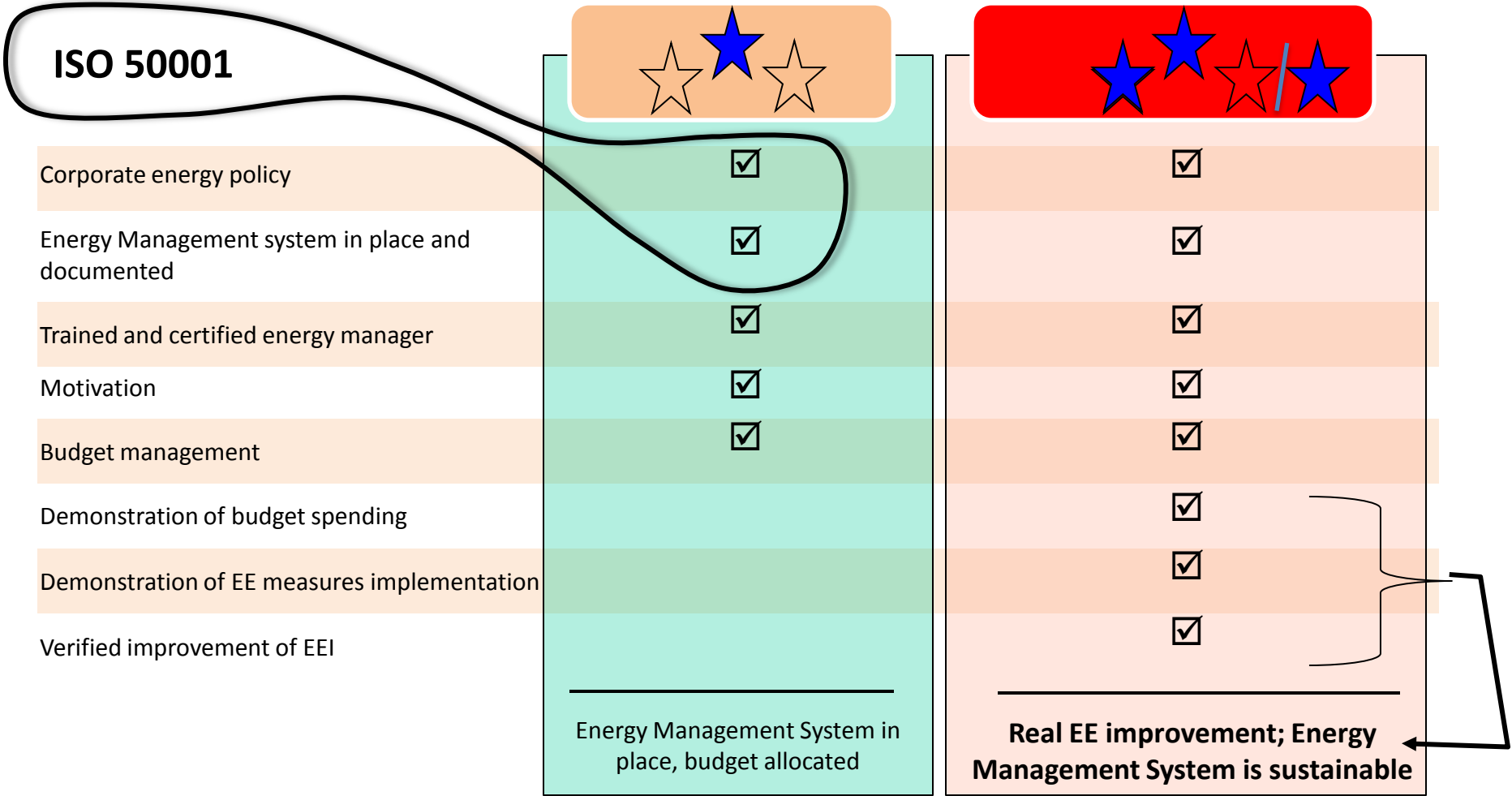
5. Energy Management Gold Standard

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



7. AEMAS in numbers

Objectives (2010-2013):

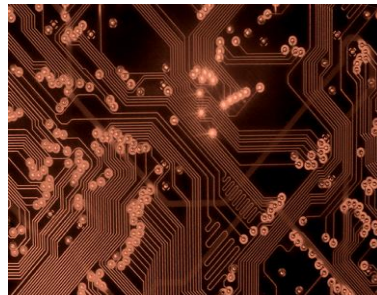
- Train and certify 3,000 Energy Managers
- 100 local trainers
- 100 local auditors
- 2,000 energy end-users certified under Energy Management Gold Standard



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





AEMAS

ASEAN Energy Management Scheme

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