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# Cooperative Energy Efficiency Design for Sustainability (CEEDS) Phase 4

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## **Outline**

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- 2. History of CEEDS
- 3. CEEDS Phase 4: 1<sup>st</sup> Workshop in Bangkok
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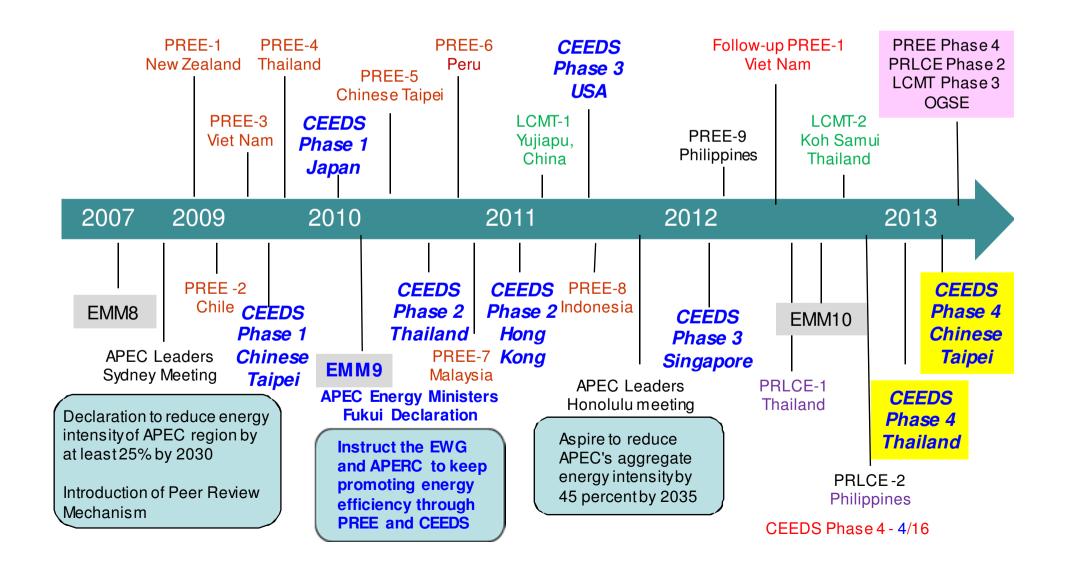
#### 1. Objectives of CEEDS

#### Referred in APEC Energy Ministers' 2010 Fukui Declaration

- To promote "high-performance" energy efficiency policy measures in developing economies in the APEC region.
- To assist developing economies who wish to design and implement measures for achieving energy efficiency improvements in a specified sector.
- Two workshops is organized:
- ➤ One is an analysis of potential energy savings that might be obtained in the APEC region if each participating developing APEC economy were to adopt the high-performance measures.
- The other is focusing on how these measures might be implemented in developing APEC economies.
- CEEDS considers policies and practices for several developing economies in one sector at a time. ⇔PREE: One economy, all sector



#### 2. History of CEEDS





#### 2. History of CEEDS

- Phase 1: Appliance Energy Efficiency Standards and Labeling
- > 1st Workshop: 19-21 October 2009, Taipei City, Chinese Taipei
- > 2<sup>nd</sup> Workshop: 1-2 March 2010, Tokyo, Japan
- Phase 2: Building Energy Codes and Labeling
- ➤ 1<sup>st</sup> Workshop: 8-10 September 2010, Bangkok, Thailand
- > 2<sup>nd</sup> Workshop: 26-28 January 2011, Hong Kong, China
- Phase 3: Energy Efficient Urban Passenger Transportation
- ➤ 1<sup>st</sup> Workshop: 14-16 September 2011, San Francisco, USA
- ➤ 2<sup>nd</sup> Workshop: 17-19 January 2012, Singapore



#### 3. CEEDS Phase 4: 1st Workshop in Bangkok

- CEEDS Phase 4 deals with "Promotion of Energy Service Company (ESCO)".
- The first workshop of CEEDS Phase 4 was hosted by Thailand on 21-23 January 2013 in Bangkok.
- 5 participating eligible economies: Chile, China, Malaysia, and Thailand made presentations, while the Philippines, which could not send delegates, submitted the presentation material.
- Speakers were invited from Canada, China, Chinese Taipei, and USA. Representatives from Chinese Taipei and Thailand also attended.



#### 3. CEEDS Phase 4: 1st Workshop in Bangkok

#### Tentative Findings at 1<sup>st</sup> Workshop

- Economies and agencies invited to the 1st Workshop presented the current status of the ESCO industry in each of their respective economies.
- The ESCO industry in various economies were in different development stages.
- Thailand and China were making great strides in developing and promoting their ESCO industry and were thus classed as in a more advanced stage of development.
- The ESCO industry in the Philippines, Chile and Malaysia were seen to be in an infancy stage, whilst interest was strong for development, promotion policies seem to still be at a discussion and preliminary stage.



- The second workshop for CEEDS Phase 4 was hosted by Chinese Taipei on March 26-28 in Taipei.
- The 2 economies, Malaysia and Thailand, participated again (Chile, China and the Philippines were absent).
- Speakers were invited from Canada, Chinese Taipei, Japan, and European Commission (EC). Representatives from Chinese Taipei and Thailand also attended.



#### Tentative Findings at 2<sup>nd</sup> Workshop

- The ESCO industry is growing rapidly in economies with attractive commercial potential in energy efficiency.
- ➤ Energy prices and industry barriers are key uncertainties to the ESCO market potential.
- The focus of the 2nd workshop was to provide detailed plans on how to support the development of the ESCO industry and also to provide a strategic appraisal of best practices and policies.
- > Specific areas discussed during the expert review included measurement and verification, market framework and capacity building, financing and contract negotiation and finally policy support.



#### Tentative Findings at 2<sup>nd</sup> Workshop (Continued)

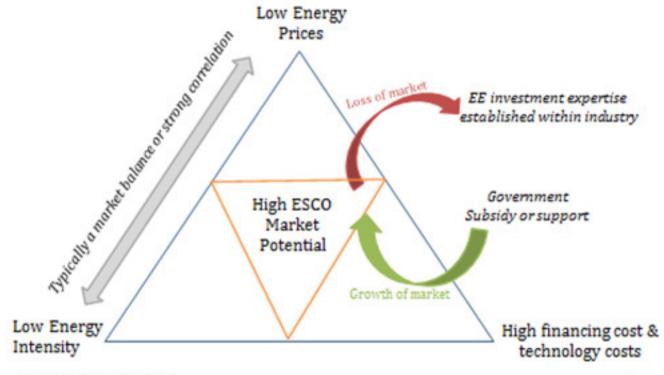
- Following on from the 1st workshop in Bangkok, Malaysia and Thailand presented their refined proposal on the next steps to developing their ESCO industry.
- Malaysia is in the process of establishing an ESCO industry but faces the immediate barrier of subsidized natural gas prices.
- However, it is expected that natural gas subsidies will be slowly removed in the near future with surging consumption and diminishing production.
- ➤ While Malaysia has established a framework and received a directive to establish a viable ESCO market, there is little scope for direct government support in the form of subsidies or low interest financing.
- Therefore, much focus was placed on developing a market framework and on capacity building of the industry.



- Tentative Findings at 2<sup>nd</sup> Workshop (Continued)
- In the case of Thailand, the ESCO market is well established with a large market already in operation.
- The next step for Thailand is to further develop and refine policies which support the market stability and sustainability by continuing to improve technical capability and industry participation.
- This includes strengthening policy support measures such as through government pilot projects.

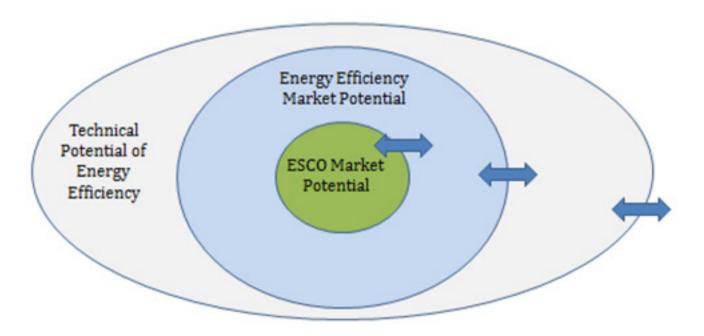


# **ESCO Market Potential Balances**



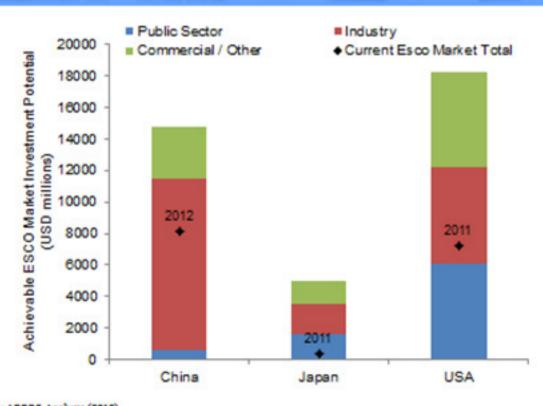


# ESCO's a Small but Essential Piece of the Eye-Ball



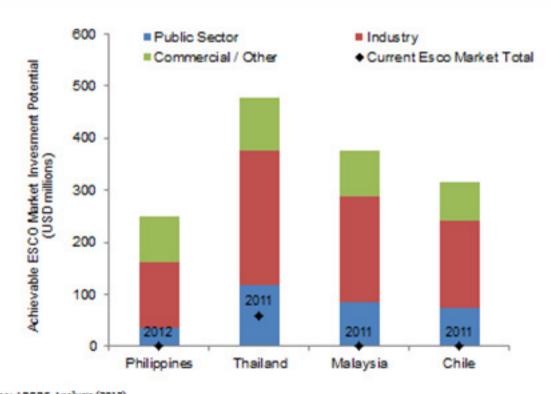


# **ESCO Market Potential Today**





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# Thank you for your kind attention

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