Final-year review workshop

Thai-German Programme on Energy Efficiency Development Plan (TGP-EEDP)

At Benchasiri Ballroom B, 3rd Floor, Bangkok Marriott Hotel Sukhumvit, Thailand

Tuesday, 3rd March 2015
Working Progress

3 March 2015

at Bangkok Marriott Hotel, Bangkok, Thailand
TGP-EEDP achievement to date

1. Energy Efficiency Indicators (EEI)
   - To review data and develop additional energy efficiency indicators

2. Energy Efficiency Resource Standards (EERS)
   - To introduce and review EERS for utilities

3. Building Energy Code (BEC)
   - To support in developing a timeline of gradually tightening of BEC

4. Standard Offer Programme (SOP)
   - To introduce international experiences on SOP
   - To support SOP pilot project

5. ESCO
   - To review ESCO business and provide trainings for further development/improvement

6. Specific Energy Consumption (SEC) Benchmarking
   - To contribute to a scheme of Specific Energy Consumption (SEC) benchmarking

7. Energy Efficiency NAMAs
   - To support NAMA development in Thailand, will focus on energy efficiency in industries and commercial buildings

Remark
- Not yet started
- Quarter done
- Half done
- Three quarter done
- Task done

TGP-EEDP Overview
Baselines and Energy Data Analysis

- **Host agency**: DEDE, EPPO
- **Indicator**: Energy Efficiency Indicators (EEIs) are developed with partners to support monitoring and evaluation of the EEDP
- **Achievements**:
  1. Background study on energy data availability
  2. Seminar interim results EEI development (24 May ‘14)
  3. Seminar final results EEI development (21 Aug ‘14)
  4. Energy Efficiency Indicators Database
  5. Training on using EEI Database (19 Aug ‘14)
2 Energy Efficiency Resource Standards (EERS)

- **Host agency**: EPPO, EGAT, MEA, PEA, ERC
- **Indicator**: A conceptual design of EERS in Thailand is developed in collaboration with power utilities
- **Achievements**:
  1. Background study on EERS in Thailand
  2. Seminar on EERS (27 March ‘14)
  3. Toolbox “Design options for EERS in TH”
  4. Focus group meeting (12 June ‘14)
  5. Study trip to Germany/Denmark (Sep ‘14)
• **Host agency:** DEDE

• **Indicator:** 1) A successive timeline to increase building energy code has been proposed. 2) A financial incentive model is developed to support the uptake of BEC

• **Achievements:**
  1. Development of BEC database (± 250 buildings) and analysis of BEC state of play
  2. Recommendations for BEC timeline development (on the basis of Building Energy Labels)
  3. Background study on BEC implementation and financial incentive tools for Energy Efficient Building
Standard Offer Programme (SOP)

- **Host agency**: EPPO
- **Indicator**: Standard Offer Pilot Programmes are developed and applied for the SME sector
- **Achievements**:
  1. Seminar on SOP (Jun ‘13)
  2. Background study on SOP, to feed in KMUTT SOP study
  3. Three working group meetings to discuss guideline for SOP pilot programme (July, Aug, Sep ‘14)
  4. Workshop on design options for SOP (Dec ‘14)
Energy Service Companies (ESCO)

- **Host agency**: DEDE
- **Indicator**: The utilization of the network of energy service providers has increased compared to 2011
- **Achievements**:
  1. Seminar Facilitation Approach for ESCO Project (June ’14)
  2. Co-host training Energy Performance Contracting
  3. Study trip Germany/Denmark (Sep ‘14)
  4. Development of Guideline for Facilitation Approach
Specific Energy Consumption (SEC)

• **Host agency**: DEDE, EPPO

• **Indicator**: EE-benchmarking is carried out in at least two selected industrial sectors with a minimum of 7 companies

• **Achievements**:
  1. Background study of international SEC benchmarking experience in industrial sector
  2. Exploration of potential for SEC Benchmarking in relation to the EEI database
Energy Efficiency NAMAs

- **Host agency**: DEDE, EPPO, ONEP, TGO
- **Indicator**: 1) At least one EE measure is formulated as a NAMA 2) At least two monitoring plans for EE measures are developed and contribute to the MRV system

- **Achievements**:
  1. Seminar on NAMA development (Aug ‘13)
  2. EE-NAMA working group established
  3. Workshop on NAMA development (May ‘14)
  5. Collaboration with ECN (NL) on developing NAMA for ESCO
  6. Workshop on financial model for EE-NAMA for ESCO (Feb ‘15)

Work Progress: 60%
Thank you – Khob khun ka – Danke schön