

GAC Report

Chapter Chair: GAC
Event: Energy Conservation Guidelines
Title: Webinar on Energy Conservation Guidelines conducted by Eenergy Conservation Center, Japan (ECCJ)

Organization: Ministry of Energy and Natural Resources (KeTSA)
Department: Sustainable Energy Development Authority (SEDA)
Date: Thursday, August 25, 2022
Time: 10:10 to 12:30 p.m.
Place: Online
MASHRAE Representatives: Ir. Chen Thiam Leong, Ir. Ong Ching Loon, and Ir. Leong Siew Meng
Other representatives" KeTSA, SEDA, Economic Planning Unit (EPU), Energy Commission Malaysia, Public Works Department, MITI, MOSTI, DOE, UTM, UiTM, FMM, MAESCO, and MGA.

Agenda:

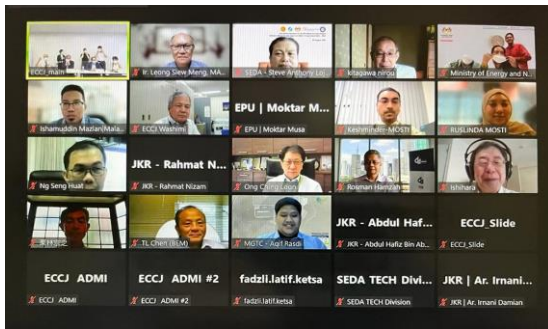
- 1) Energy Management System under the Energy Conservation Act of Japan;
- 2) Outline of Energy Conservation Guidelines for Buildings and Factories;
- 3) Standard and Target Values; and
- 4) Outline of Energy Management Manual;
- 5) Q&A and Way Forward

Report: As part of the capacity building by METI, Japan for the Ministry of Energy and Natural Resources (KeTSA) in anticipation of the impending EECA (Energy Efficiency & Conservation Act) to be gazetted in Malaysia, ECCJ conducted a webinar to discuss the various implementation strategies and measures deployed by the implementation agency in Japan.

IEEJ explained the following:

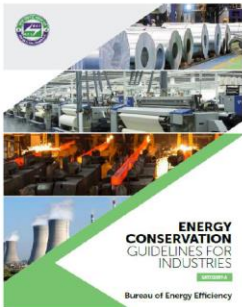
- 1) Outline of Energy Conservation Law covering configuration of Energy Conservation Law in Japan, contents of periodical reports, measures for designated business operators, classification of business operators in assessment system;
- 2) Energy Management System covering energy management flow and obligations, relation between EC Guideline and EM Manual, effect of EE&C measures through energy management;
- 3) Energy Conservation Guideline covering effects of EC Guideline, concept of EC Guidelines, management categories to be focused based on EC Guideline, EC opportunities in boilers, structure of Japan's EC Guideline, targeted equipment for each category of EC Guideline, part of standard component of EC Guideline, Tables of targeted and target values, waste gas temperatures for boilers, benchmark for specified industrial sectors,
- 4) Energy Management (EM) Manual covering introduction, provision of EM manuals, procedure on creation of EM manual, practices, management & control,
- 5) Application of EC Guideline and EM Manual in India and Thailand
 - ECCJ provided technical assistance to India and Thailand in development of their EC Guidelines and EM Manuals.

Report prepared by: Ir. Leong Siew Meng



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Example of India for Application of EC Guideline and EM Manual




Development of Energy Conservation Guideline and Benefits for Designated Consumer

P Shyam Sunder
Joint Director Bureau of Energy Efficiency

Japan-India Energy Dialogue

BUREAU OF ENERGY EFFICIENCY
ENERGY CONSERVATION GUIDELINES FOR INDUSTRIES



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กรมส่งเสริมพลังงานทดแทนและอนุรักษ์พลังงาน กระทรวงพลังงาน

Project Overview

Thai - Japan Collaboration

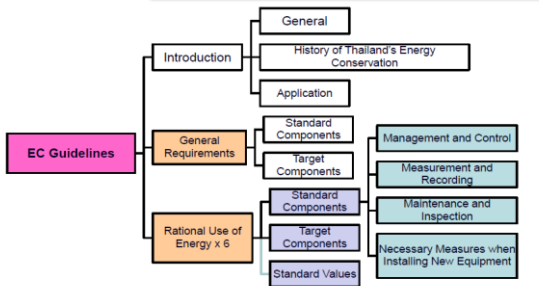
Phase 1 FY 2019 - 2021	Phase 2 FY 2021 - 2022	Phase 3 From FY 2022 onward
Preparation and Development	Application and Dissemination	Integration and Further Dissemination
<ul style="list-style-type: none"> Establish a steering committee Establish project timeline Study and research Japan's ECG Develop Thailand's ECG 	<ul style="list-style-type: none"> Pilot the creation of EM Manual based on ECG Support participating factories in the creation of EM Manual Disseminate ECG and EM Manual to the public 	<ul style="list-style-type: none"> Conduct feasibility study on integrating with the existing mandatory energy management system Further dissemination and development

Japanese fiscal year starts from April to March e.g. fiscal year 2020 goes from April 2020 to March 2021. The budget is approved on an annual basis, thus the continuation of the project may be affected. 44

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Structure of the Energy Conservation Guideline



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graph LR
    EC[EC Guidelines] --> Intro[Introduction]
    EC --> GR[General Requirements]
    EC --> RUE[Rational Use of Energy x 6]
    Intro --> Gen[General]
    Intro --> Hist[History of Thailand's Energy Conservation]
    Intro --> App[Application]
    GR --> SC1[Standard Components]
    GR --> TC1[Target Components]
    RUE --> SC2[Standard Components]
    RUE --> TC2[Target Components]
    RUE --> SV[Standard Values]
    SC1 --> MC[Management and Control]
    SC1 --> MR[Measurement and Recording]
    TC1 --> MC
    TC1 --> MR
    SC2 --> MI[Maintenance and Inspection]
    TC2 --> MI
    TC2 --> NMI[Necessary Measures when Installing New Equipment]
  
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Thank You Very Much



For More Information
The Energy Conservation Center, Japan
<https://www.eccj.or.jp>
Asia Energy Efficiency and Conservation Collaboration Center
 (Established in 2007)
<https://www.asiaeec-col.eccj.or.jp/index.html>
Japanese Business Alliance for Smart Energy Worldwide (Established in 2008)
<https://www.jase-w.eccj.or.jp/eng/index.html>


The Energy Conservation Center, Japan

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