

ECAP 14: Country Report Presentation

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C O N T E N T S

- 1) Current status and awareness of issues in regard to BEC/GBC
- 2) Current status and awareness of issues in regard to the operation of Domestic Energy Award System in respective countries and ASEAN Energy Award



I. Current Status and Awareness of Issues in regard to BEC/GBC



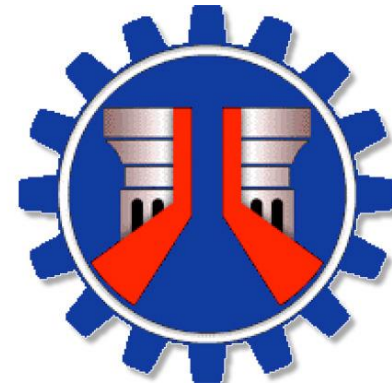
Department of Energy



BUILDING ENERGY EFFICIENCY

Minimum Energy Performance (MEP)

- Energy Benchmark
- Rating system



Department of Public Works
and Highways



PHILIPPINE GREEN BUILDING CODE

Performance Standard:

- **Energy Efficiency**
- Water Efficiency
- Material Sustainability
- Solid waste Management
- Site Sustainability
- Indoor Environmental Quality



I. Current Status and Awareness of Issues in regard to BEC/GBC

NATIONAL POLICY COHESIONS:

DEPARTMENT OF ENERGY (DOE)

- 2017-2040 EE Roadmap
 - *Establishment of Cross-Sectoral Energy Performance and Rating system*
- Administrative Orders No. 110, 110-A, 126: “Government Energy Management Program”
- 2017 Energy Efficiency Bill (*for enactment into law*)
- Draft Department Circular on the “**Minimum Energy Performance (MEP) in Buildings, Industrial and Transport Sectors**”

[DOE]
Development of Building Energy Efficiency (BEE)
(MEP and Energy Benchmark and Rating System for Government and Private Buildings)

BEC – Building Energy Code;
GBC – Green Building Code

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH)

- **Philippine Green Building Code**

(Note:
GBC is just a Referral Code of the Philippine National Building Code)

Implementing Office:
City / Municipal Building Officials of the Local Government Units



[DOE]

(2017-2018)

Development of Building Energy Efficiency (BEE)

(MEP and Energy Benchmark and Rating System for Government and Private Buildings)

Issues on the Implementation

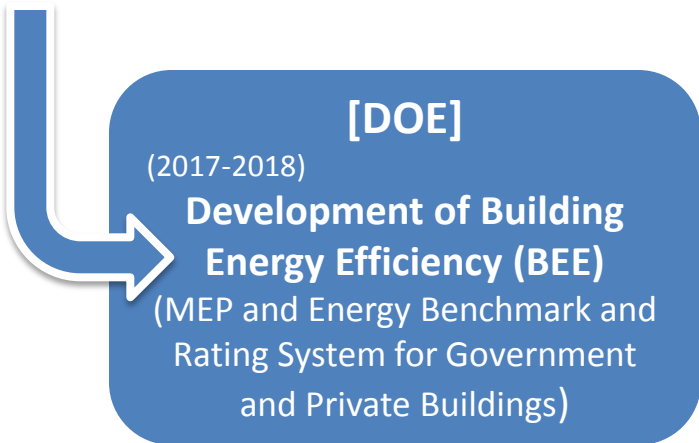
- Finalization of the proposed policy bridge – Department Circular on the ***Minimum Energy performance for Buildings, Industry and Transport***
- Development of the Implementing Rules and Regulations

Programs and Activities on BEE (Short Term: 2017-2019):

- a) EU-ASEP TA Project: Development of Energy Benchmark and Rating System in Government Buildings (*On-going*)
- b) Energy Consumption Data Monitoring, evaluation and verification (*On-going*)
- c) Energy Consumption Profile and Load Characterization Survey in Buildings (*On-going*)
- d) Public Consultations of the Proposed Draft *Department Circular on the Minimum Energy Performance (MEP) in Buildings, Industry and Transport* (*On-going*)
- e) Revision of the Energy Conserving Design Guidelines in Buildings (*2018*)
- f) Research and Capacity building for the development of appropriate policy formulation on the application of *Net Zero Energy Building Concept for new and existing buildings* (*2018*)



SUMMARY (BEE)



Relevant Policies:

- Administrative Order Nos. 110, 110-A, 126
- Department Circular on MEP (*Proposed*)
- 2017 EE&C Bill (*for enactment into Law*)

Objective:

- To establish an energy efficient buildings based on the government set Minimum Energy Performance without reduction on the subject buildings function, productivity and service output

Target Sector:

- Government and Private Buildings

Major Output:

- Establishments of Energy Consumption Benchmark
- Building Rating System



THE PHILIPPINE GREEN BUILDING CODE

The Philippine Green Building Code (PGBC) was signed on 22 June 2015 as a referral code of the National Building Code of the Philippines (NBCP – Presidential Decree 1096)

Performance Standard:

- I. Energy Efficiency
- II. Water Efficiency
- III. Material Sustainability
- IV. Solid waste Management
- V. Site Sustainability
- VI. Indoor Environmental Quality



Coverage and Application:

- PGBC is for **New Construction** only
- Minimum Total Floor Gross Area (TFGA) Coverage

Use / Occupancy	TGFA (sqm)
Hotel	10,000
Mall	15,000
Office	10,000
Residential Condominium	20,000
School	10,000
Hospital	10,000
Mixed Occupancy	10,000



[DPWH]
Philippine Green Building Code (PGBC)
 (Referral Code of the National Building Code)

Issues on the Implementation of the PGBC

- a) Lack of capacity building for City and Municipal Building Officials of the LGUs
- b) Lack of nationwide awareness campaign programs for relevant stakeholders – i.e., Professional Associations, Architectural & Engineering Firms/Companies, academe (Universities & Colleges), LGUs, Building Constructors and Developers, etc.

LOCAL POLICY

LOCAL GOVERNMENT UNITS (Cities)	GREEN BUILDING ORDINANCE
Mandaue City	Yes
Mandaluyong City	Yes
Quezon City	Yes
Makati City	yes

No. of Cities = _____
No. of Municipalities = _____



II. Current Status and Awareness of issues in regard to the Operation of Domestic Energy Award System (in respective countries and ASEAN Energy Award)

Brief History of Domestic Energy Efficiency Award System:

Date started	1982 to date
Local Award Name	Don Emilio Abello Energy Conservation Award (1982-2002)
	Don Emilio Abello Energy Efficiency Award (2003 to date)
Committees	Steering Committee (Head of the Organization)
	Technical Working Group Committee
Member Organizations	<ul style="list-style-type: none"> • Department of Energy • Phil. National Oil Company • Petron Corporation • Shell Philippines • Chevron • Energy Practitioners Ass. of the Phils. • Energy Conservation Center, Inc. • National Power Corporation
Method of selecting the Nominees /Awardees	<ul style="list-style-type: none"> • Submitted Quarterly Energy Consumption Report • EE Projects implemented • EE&C Best Practices • Energy Management System in-place • On-site inspection and review of energy data
Application for Nomination	15 page Report



Current Status and Awareness of issues in regard to the Operation of Domestic Energy Award System (in respective countries and ASEAN Energy Award)

Operation of the Domestic Awarding System:

- Award Categories
 - Secretary's Award
 - Hall of Fame Award
 - Outstanding Award
 - Special Award
- Evaluation of Other EE Related Awards and Recognitions
 - ASEAN Awards
 - Government Building Award
 - Recognition of Energy Managers
 - Recognition of Individual Person which advocates EE&C
 - Recognition of Energy Management Experts
 - Recognition of Systems Optimization Experts



**ENERGY
EFFICIENCY &
CONSERVATION
DIVISION - DOE**

coordination

- *Monitor and evaluate Energy Consumption Report*
- *Conduct site verification of EE projects and other energy data reports*
- *Recommend Nominees to the TWGC*
- *Manage Awarding Preparation and during Awarding Ceremony*

STEERING COMMITTEE

- Provide guidance to the members of the Technical Working Group Committee (TWGC)
- Approved/Confirmed Awardees for the year

**TECHNICAL WORKING GROUP
COMMITTEE**

Functions:

- Evaluate the Application Report
- Select and endorse the nominated Awardees to the Steering Committee for approval/confirmation



Current Status and Awareness of issues in regard to the Operation of Domestic Energy Award System (in respective countries and ASEAN Energy Award)

Status of the Domestic Awarding System:

2016 Awards:

- I. Secretary's Award - 1
- II. Hall of Fame Award - 8
- III. Outstanding Award - 53
- IV. Citation Award - 7
- V. Special Award – 20
- VI. Outstanding Energy Manager – 53
- VII. Award of recognition for Individual – 1
- VIII. Government Buildings Energy Management Program - Award of Recognition - 10
- IX. ASEAN Awards
 - a) ASEAN Award on Energy Management for Buildings and Industries – 1
 - b) ASEAN Best Practices Award for Energy Conservation - 7



Issues of Implementation:

- Requires improvement to manage Awarding time
- Review of the Nomination Criteria



Thank You!



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