



MINISTRY OF ENERGY AND MINERAL RESOURCES
REPUBLIC OF INDONESIA



FINAL REPORT

“To Enhance The Number and Quality of Entries AEA
and
Utilize AEA as The Leverage to Promote BEC/GBC”

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Main Topics





How to Increase **The Number and Quality of Entries to ASEAN Energy Award (AEA)**



How to Utilize ASEAN Energy Award (AEA) as **The Leverage to Promote Building Energy Code (BEC)/Green Energy Code (GEC)**



How to Develop **Zero Energy Building (ZEB) Concept in The Special Submission Sub Category**





How to Increase The Number and Quality of Entries to ASEAN Energy Award



Increase The Number and Quality of Entries to PEEN Award

With National Energy Efficiency Award (PEEN)

PEEN	Participant	Winner
2012	12	7
2013	45	27
2014	72	22
2015	60	24
2016	84	28
2017	112	34

PEEN Category:

A. Energy Efficient Building Category :

- New Building
- Retrofitted Building
- Tropical Building
- Special Innovation
- Green Building:
 - Small and Medium
 - Large

B. Energy Management in Industry and Building Category:

- Building (Small and Medium)
- Building (Large)
- Industry (Small and Medium)
- Industry (Large)
- Special Innovation (Industry)
- Special Innovation (Building)



Number Participant +
Winner (Category A
and B)

Number and Quality of
Entries to AEA



Raising
Participant



Campaign
in Mass
Media



Number and Quality of Entries to ASEAN Energy Awards (AEA)



* Notes:

AEA Participants from Indonesia are PEEN Winners from the previous Competition

A. Category : Best Practices Competition for Energy Efficient Buildings

- New and Existing Building
- Retrofitted Building
- Tropical Building
- Special Submission
- Green Building:
 - Small and Medium (GFA 300 - 5.000 m²)
 - Large (GFA>5.000 m²)

B. Category : Best Practices Competition for Energy Management in Buildings and Industries

- Building:
 - Small and Medium (=2.000 MWh/Year)
 - Large (>2.000 MWh/Year)
- Industry
 - Small and Medium (TEC= 30 Million MJ/Year)
 - Large (TEC> 30 Million MJ/Year)
- Special Submission (Industry)
- Special Submission (Building)





How to Utilize ASEAN Energy Award as The Leverage to Promote REC/CFC



Utilize PEEN Award as The Leverage to Promote BEC/GEC

- SNI : 6196:2011
Energy Audit Procedures on Building
- SNI : 6197:2011
Energy Conservation for Lighting Systems
- SNI : 6389-2011
Energy Conservation for Building Envelopes
- SNI : 6390-2011
Energy Conservation for Air Conditioning System

Adopted in :

- Regulation Of DKI Jakarta Governor No. 38/ 2012 About **Green Buildings**
- Minister of Public Works & Public Housing Regulation No. 02/PRT/M/2015 on **Green Buildings**



Judgement Criteria

- 1.1. New & Existing Building
- 1.2. Tropical Building
- 1.3. Retrofitted Building

Score Optimal If :

Passive Design \leq Building Standard
Active Design \leq Building Standard

2.1. Green Building

- Large (GFA > 5.000 m²)

Score Optimal If :

Passive+Active Design \leq GB Standard
Water Efficiency = GB Standard
Environmental Sustainability = GB Standard





How to Develop ZEB Concept in The Special Submission Sub-Category



Develop ZEB Concept in The Special Submission Sub Category

Already state in Type and Nature of Project for Special Submission



Special submission are projects which involve significant development in the field of energy efficiency in building. Such development may achieved in the areas of equipment, material, system applications, design and management processes. Such development and innovation may be demonstrated through actual application in real project(s). **To qualify under Special Submission, a project must involve the development and/or innovative use of technology, materials, equipment and processes.**



“
ENERGY
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”

THANK

YOU

