



# ENERGY CONSERVATION WORKSHOP UNDER ASEAN-JAPAN ENERGY EFFICIENCY PARTNERSHIP (ECAP-20)

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## **Country Report – Brunei Darussalam**

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# Significant Milestones

## *Establishment of Building Regulatory & Guidelines*

- ❑ Publication of the Brunei Darussalam Standard (PBD 12) on Building Guidelines and Requirement 1994. Undergone several revisions in 2008, 2009, and 2014.
- ❑ The establishment of Brunei Green Building Council (GBC) in May 2013 with an objective to drive Brunei Darussalam's construction industry towards more environmental-friendly buildings.
- ❑ The launching of EEC Building Guidelines for non-residential buildings in May, 2015. The EEC Building Guidelines are mandatory to all government buildings.
- ❑ The launching of green building rating system for Brunei Darussalam, 'Brunei Accredited Green Unified Seal' (BAGUS) in March 2016 with a mandated Energy Efficiency Index (EEI) of 175 kilowatt hours per square metre (kWh/m<sup>2</sup>) per year for office building.
- ❑ Brunei Darussalam via the Authority of Building Control and Construction Industry (ABCI), Ministry of Development has launched the Different Abilities Design Guidelines for building in December 2018.
- ❑ Regulatory role for buildings is under the purview of Ministry of Development (MOD). Meanwhile, the Ministry of Energy is accountable to manage and coordinate all the key initiatives towards the development of Energy Efficiency in building.





# EEC Building Guidelines

(Results & Implementation Expansion)

Reduction	2016	2017	2018	Oct 2019
Percentage (%)	6.9	7.1	7.1	7.0
Gigawatt/hour (GWh)	803	801	802	692
BND Million (10c/kWh)	<b>6.0</b>	<b>6.2</b>	<b>6.1</b>	<b>4.7</b>

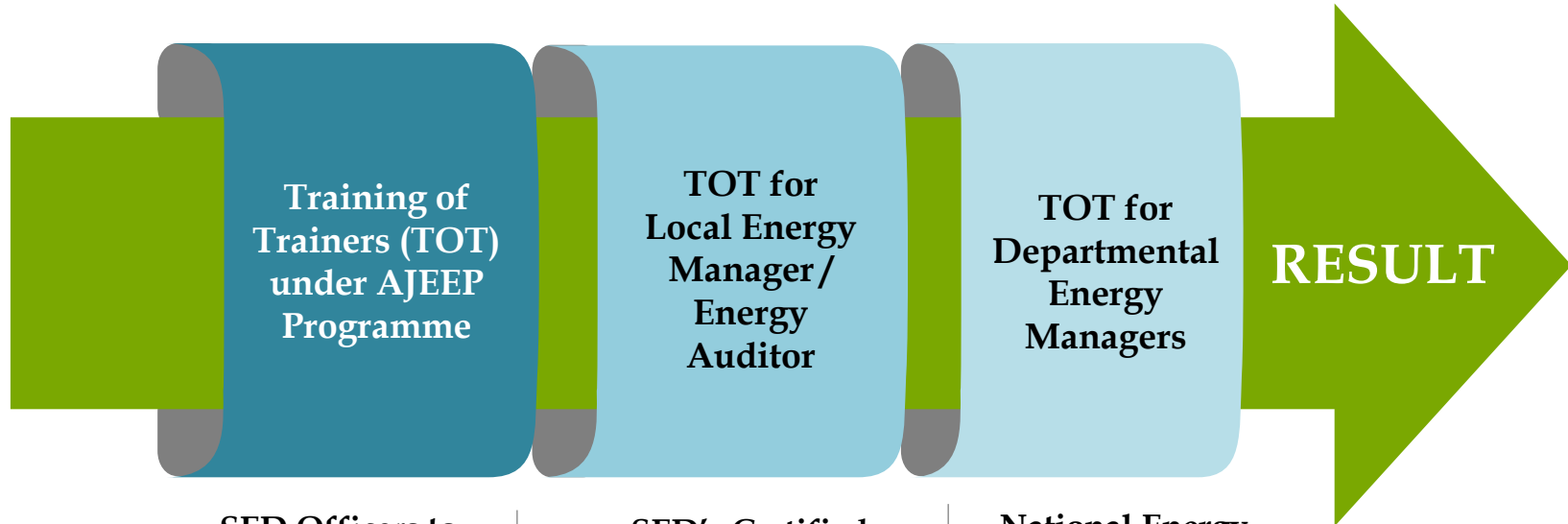
- Significant reduction on electricity consumption of **BND22 million** since it was launched in 2016 (base year of 2015) through 'quick win initiatives' and retrofitting programme of government buildings.
- The guideline is to be expanded to commercial building by Q1, 2020. MEMI and MOD are in the process of consolidating all building information for new commercial buildings towards the establishment of national baseline data.





# Energy Management Programme

*Certification at Regional and National Level*



**SED Officers to attend TOT (Thailand & Japan)**

*Note: 2 officers from ME have been certified in 2018-2019 programme. Another 2 officers are currently undertaking similar programme.*

**SED's Certified Energy Manager / Auditor to train locals**

*Note: Establishment of 20 National Energy Managers for Government Ministries on Sept 14, 2019.*

**National Energy Managers to train Departmental Energy Managers**

*Note: To be conducted in Q4, 2019 – Q3, 2020 by National Energy Managers.*





# Standard & Labeling Order

*(Action Plan: Implementation and Enforcement)*

- The final draft Order is currently under review by AGC and expected to be endorsed end of Q4, 2019.
- A grace period of one year is applied and Ministry of Energy (ME) will conduct several activities before the Order is being officially implemented and enforced in **Q2, 2021**.
- Ministry of Energy (ME) will organise District Roadshow in Q1 and Q2, 2020 in order to socialize the Order to all level of communities nationwide.
- Ministry of Energy (ME) will also be sending some officers to some ASEAN countries for a work placement to effectively learn the process of implementation of the Order.
- Standard and Labeling Order shall also be part of the core element that need to be incorporated into Building Energy Codes (BEC) through the usage of energy efficient electrical appliances in building the likes of air conditioning and lighting system.





# Conclusion

- ❑ Expansion of EEC Building Guidelines to commercial buildings. Currently, in the process of setting up the baseline data for commercial building in the country.
- ❑ To continue on capacity building for officers in the Ministry of Energy and other representatives from other Ministries to participate AJEEP programme.
- ❑ All National Energy Managers are to conduct the Training of Trainers (TOT) for all Departments under their respective Ministries by Q4, 2019 to Q3, 2020.
- ❑ To conduct another session on EM training workshop for commercial sectors sometime in Q3/Q4 next year. ME will collaborate with an experts from ECCJ to come up with an effective EM training programme for commercial sectors.
- ❑ To incorporate EEC Building Guidelines in the construction of new building in the country by focusing more on the Temburong Eco Town Project which is currently ongoing conducted by Economic Research Institute for ASEAN and East Asia (ERIA).
- ❑ To increase Brunei Darussalam's participation in the ASEAN Energy Awards through the platform of our newly established National Energy Manager in all Ministries.





Terima Kasih  
Thank you  
ありがとうございました

ขอบคุณ

Salamat

