

SINGAPORE INTERNATIONAL ENERGY WEEK (SIEW) 2017 ROUNDTABLE

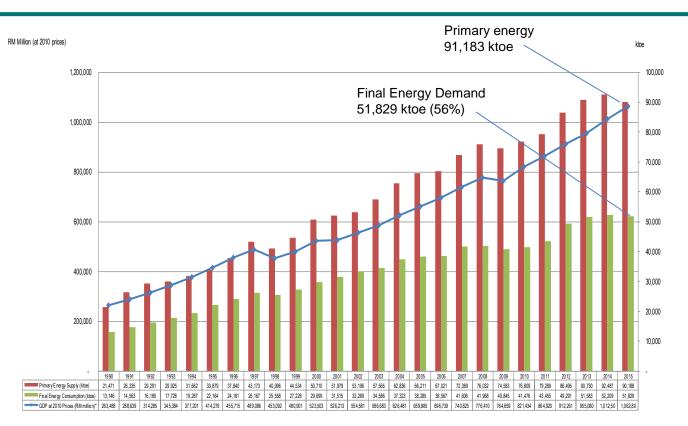
"20% in 2020-Unlocking ASEAN's Energy Efficiency Potentials" Perspectives from National Policies

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KENNERIAN TENAGA, TEKNOLOGI HIJAU DAN AIR (#GTTHA)

PRIMARY ENERGY SUPPLY Vs FINAL ENERGY DEMAND

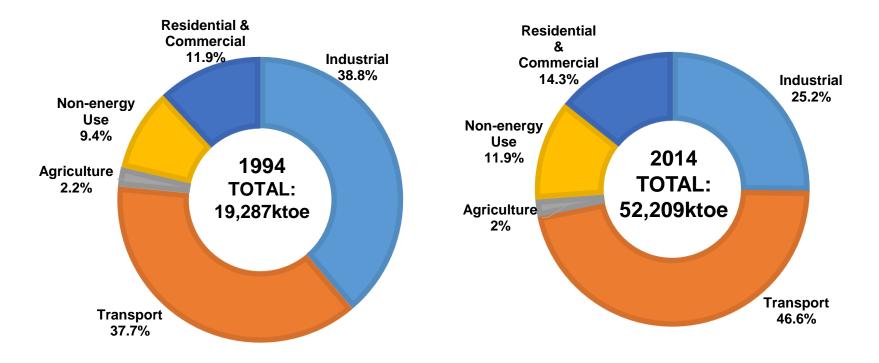




Sources: National Energy balance 2015



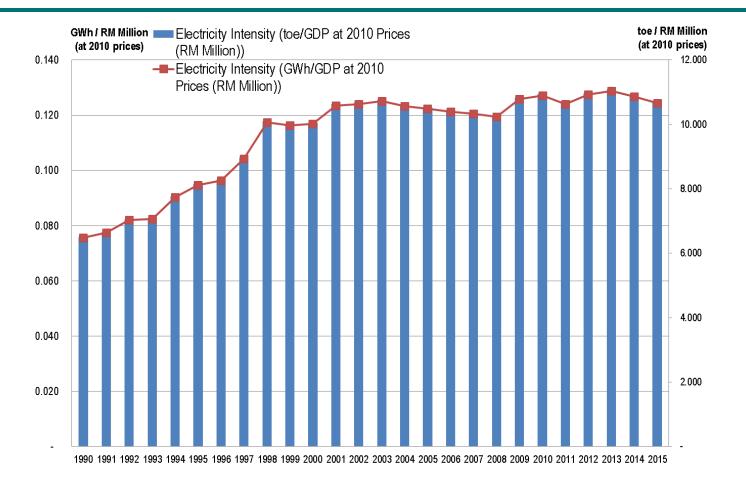
FINAL ENERGY CONSUMPTION BY SECTOR







ELECTRICITY INTENSITY



3



KeTTHA

NATIONAL

ENERGY EFFICIENCY

ACTION PLAN

Policy Direction:

productive use of

waste Contribute to

sustainable

development;

energy & minimise

 Increased welfare and competitiveness"

Promote EE to ensure

NATIONAL POLICIES & ACTION PLAN : CURRENT LANDSCAPE

NATIONAL ENERGY EFFICIENCY ACTION PLAN (NEEAP) 2016-2025

GREEN TECHNOLOGY MASTER PLAN (GTMP)

5 key initiatives:

- Initiative 1 · Promotion of 5-star rated appliances
- Initiative 2 : Minimum Energy Performance Standards (MEPS)
- Initiative 3 : Energy Audits & **Energy Management in Buildings** & Industries
- Initiative 4 : Promotion of cogeneration
- Initiative 5 : Energy Efficient **Building Design**

Electricity demand growth reduction in 2025 : 52,233 GWH (8.0%) savings



Energy

- Electricity generation diversity Maintaining HHI below 0.5
- Carbon emission from power plants
 - Clean coal technology for new coal-fired power plants
- Reinvigorating co-generation policy
- RE mix of 30% installed capacity in 2030
- Energy Efficiency : Electricity intensity reduction of 15% in 2030









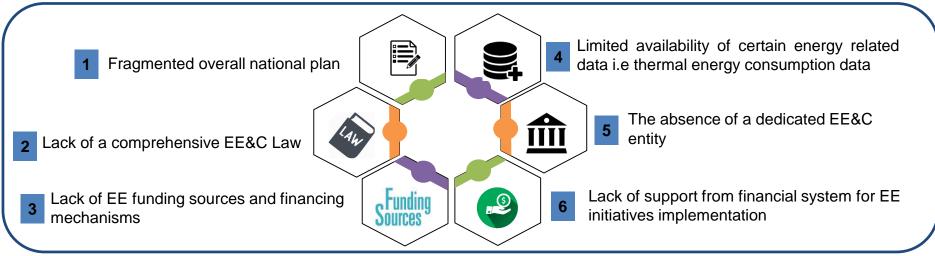




WAY FORWARD 11th MALAYSIA PLAN : 2016-2020

Reinvigorating Demand Side Management (DSM)

- Demand Side Management Policy Study
 - Completed July 2017
- · Critical key barriers identified from the study are :



Projected impacts (electricity savings) 2016-2020 - 3,701 GWh

2017:

- Target electricity intensity reduction of 2% from Business As Usual (BAU)
- Equitable to 5,704.46 GWh (490.5 ktoe) electricity reduction





WAY FORWARD 11th MALAYSIA PLAN : 2016-2020 ... (cont)

A. Expanding Demand Side Management (DSM) Measures

- 1. Financial Mechanism
 - Establishment of Energy Performance Contracting Fund (launched August 2017)
- 2. Buildings
 - Energy Audit Conditional Grant in Commercial Buildings
 - Increasing Numbers of Registered Electrical Energy Manager (REEM)
 - Promoting Energy Service Companies for Government & Private Buildings Maintenance
 - Retrofit Government Buildings
 - Promoting ISO50001 for Buildings & Industries

3. Industries

- Energy Audit Conditional Grant in Industries
- Implementing Enhanced Time of Use (EToU) with three different time zones
- Abolishing the Special Industrial Tariff (SIT)
- Promoting Co-Generation
- Implementing smart grid with the introduction of smart meters and Home Energy Report (HER)

4. Households

Enhancing Minimum Energy Performance Standard (MEPS) and Labelling

B. Energy Efficiency & Conservation Act (EECA)

• Drafting of EECA will commence in Q4 2017 and expect to be completed in 18 months (June 2019)





THANK YOU

