



Malaysia

The 8th Government-Private Forum on the Cleaner Energy Future Initiative for ASEAN (CEFIA)

Regional and National EE&C and RE Success Stories for Accelerating ASEAN's Energy Transition



Decarbonisation Goals

- Achieve net-zero greenhouse gas emissions by 2050.
- Reduce carbon intensity of GDP by 45% by 2030, compared to 2005 levels
- renewable Increase energy capacity to 31% by 2025, 40% by 2035, and 70% by 2050.
- Reduce reliance on fossil fuels from 96% in 2023 to 77% by 2050

Energy transition levers

Hydrogen

Bioenergy

Green Mobility

Energy Efficiency

Renewable Energy

Optimise

Shift to Renewables

Climate Change and Principle-based Taxonomy



Carbon Capture, **Utilisation and** Storage

National Energy Transition Roadmap (NETR) on EE Key Initiatives

Improve EE awareness

Improve existing Minimum Energy Performance Standards (MEPS) and 5-star rating bands

Enforce mandatory audits for large commercial and industrial buildings

Establish an **ESCO** platform

Establish green building codes for energy-intensive residential and commercial buildings

ENERGY EFFICIENCY

Energy Efficiency & Conservation Act (EECA) Main Focus:

Energy Consumer

Large users (>21,600 GJ) must appoint energy manager, implement energy management system, conduct energy audit & submit EE report

Buildings

Large buildings (Office with GFA>8,000m²) need energy intensity labeling, comply to Energy Intensity Performance & energy audit with plan

Energy Using Product Manufacturers/importers must meet performance standards and display energy labels

Registration

Registration of energy managers, energy auditors and training institutions

Malaysia

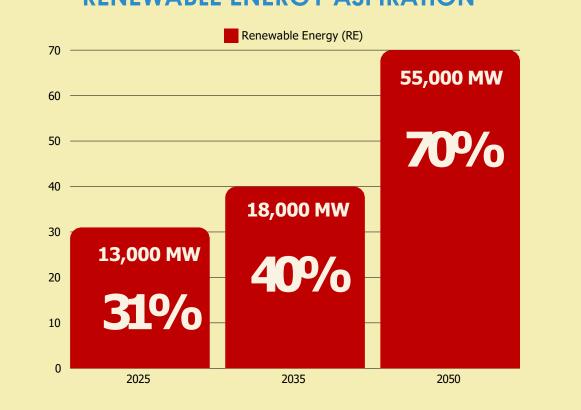
RENEWABLE ENERGY programmes

- FiT
- NEDA
- NEM
- LSS
- SelCo
- GET

- CGPP
- ENEGEM & TPA
- CRESS
- CREAM
- SOLAR ATAP

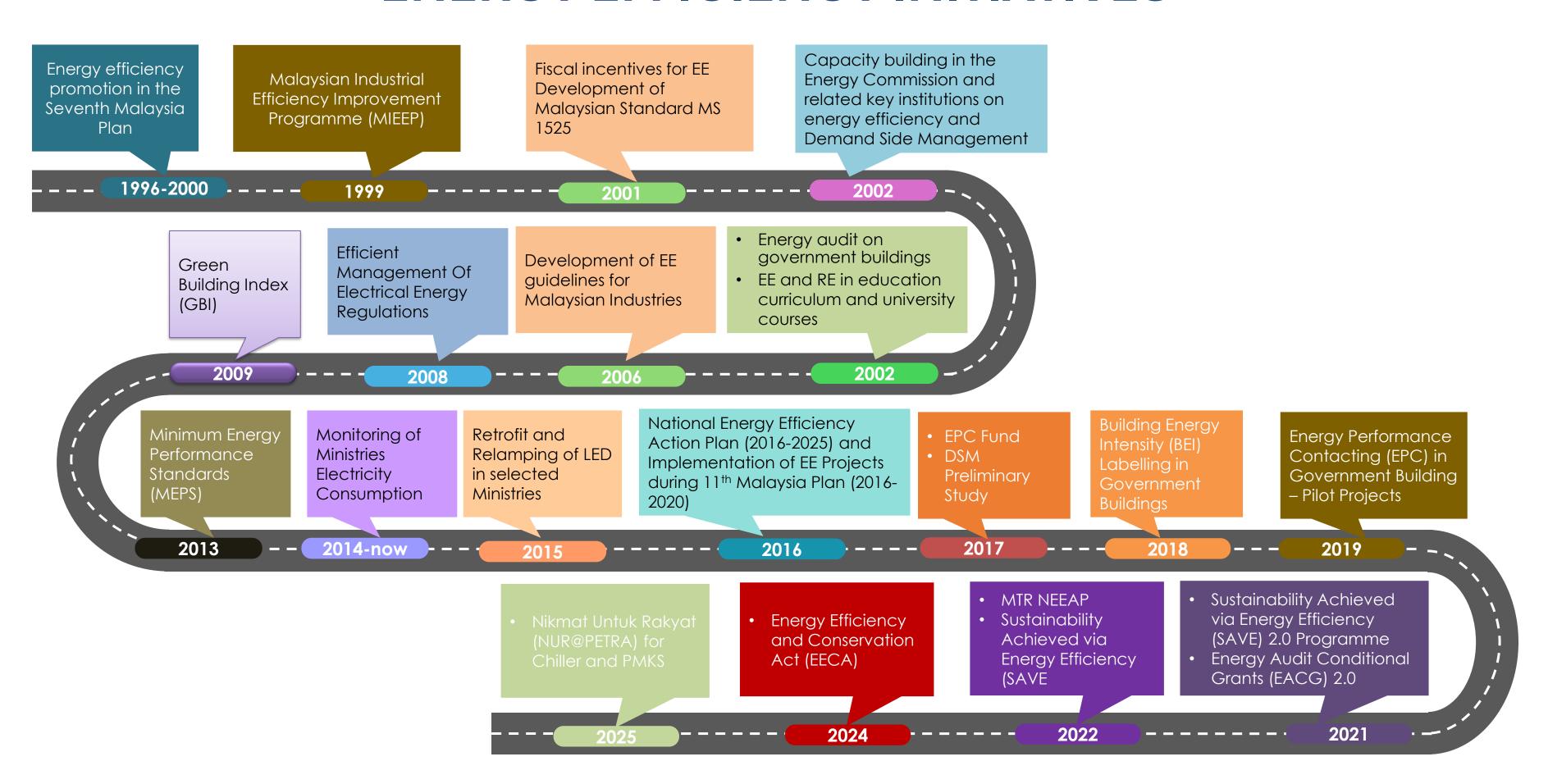
INSTALLED CAPACITY 12.5GW

RENEWABLE ENERGY ASPIRATION

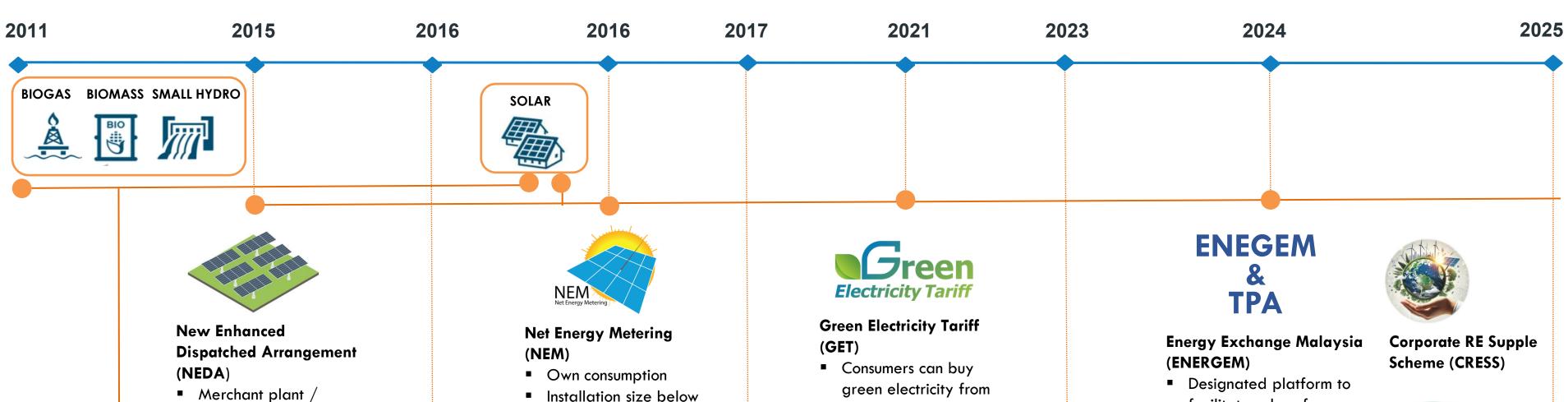


Source: PETRA, ST, SEDA & TNB

ENERGY EFFICIENCY INITIATIVES



RENEWABLE ENERGY INITIATIVES



grid

REC

With quota

Consumers will receive



price takers

Export to grid and

supply to Single Buyer

bid on price quantity

/ declare capacity

Feed-in Tariff (FiT)

- Sold to grid at premium rate for a fixed period
- Based on quota subject to FiT fund
- Solar quota ended in 2017

Large Scale Solar (LSS)

- Competitive bidding
- PPA based
- Bidding Quota (MW):

Fast Track: 200 LSS1: 250 LSS2: 460 LSS3: 500 LSS4: 1,000 LSS5: 2,000

Self Consumption (SelCo)

Own consumption

own avg. consumption

Only excess export to

grid

With quota

No export to grid

Corporate Green Power Programme (CGPP)

- Corporate Customers can purchase electricity virtually from SPP through NEDA.
- With quota

- Designated platform to facilitate sales of renewable energy or Green Electricity between Malaysia and neighbouring countries in the region
- ENEGEM acts as the marketplace to sell
 Green Electricity through a bidding mechanism
- 100 MW Trial



Community RE
Aggregation
Mechanism (CREAM)



Programme

Source: PETRA, ST, SEDA & TNB

THANK YOU







Be Energy.

- Energy Using Product eup@st.gov.my
- Registered Energy Manager rem@st.gov.my
- Registered Energy Auditor rea@st.gov.my
- Registered Training Institution rti@st.gov.my