



Safeguarding Energy Transition

ERRA - Energy Regulators Forum

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Bangkok

Malaysia's National Energy Policy (2022 -2040)

Objectives :

- A. Macroeconomic resilience and energy security
- B. **Social equity and affordability**
- C. **Environmental sustainability**

Strategic Thrusts :

1. Optimise energy resources to stimulate sustainable economic growth
2. Stimulate growth, market opportunities and cost advantage for economy and citizens
3. Enhance energy sector contribution towards **environmental sustainability**
4. Ensure energy security towards **fiscal sustainability**

National Energy Transition Roadmap (NETR)

Launched Aug'23

Goal :

Accelerate energy transition and change the way energy is generated to improve climate resilience

Highlights:

1. Achieve net zero by 2050
2. RE mix increased to 70% by 2050 (from 40% target previously) – constituting an 11 fold increase in RE generation plant-up required
3. RM 182 billion of investment required in Grid development, strengthening and modernisation
4. Uplift GDP by 9x : from RM25 bn in 2023 to RM220 bn by 2050
5. Gas = transition fuel to achieve RE mix target above. **No new coal policy already in-place.**

National Energy Transition Roadmap (NETR)

Launched Aug'23

The NETR commits to sustainability for Malaysia, aiming to achieve **net-zero emissions by 2050**

Renewable Energy
Mix Targets

27%
2025

41%
2035

70%
2050



Latest under NETR

NETR aims to accelerate the energy transition by shifting towards cleaner, more sustainable energy sources, ensuring climate resilience and long-term sustainability across multiple sectors. Six (6) energy transition levers have been strategically structured:

6 Energy
Transition
Levers



Energy
Efficiency (EE)



Renewable
Energy (RE)



Hydrogen



Bioenergy



Green Mobility



Carbon
Capture,
Utilisation and
Storage (CCUS)

Existing RE Policies (summary)

1. **Large Scale Solar (LSS)** : currently in 5th iteration, i.e. LSS5 : Total 2GW
2. **New Enhanced Dispatch Arrangement (NEDA)**
 - i. Merchants can sell 'excess' RE to Single Buyer at System Marginal Price ('SMP')
 - ii. Total capacity participation = c.140MW
3. **Corporate Green Power Programme (CGPPA)**
 - i. Virtual PPA between solar producer and corporate offtaker
4. **Net Energy Metering (NEM)** = 1.55 GW current quota
5. **Green Electricity Tariff (GET)** = 6,600 Gwh (per annum)
6. **Energy Exchange Malaysia (ENEGEM)** – see next slide

Solar PV capacity (as at Apr 24)

Distribution = 2 GW

Grid = 1.5 GW

ENERGY EXCHANGE MALAYSIA (ENEGEM)

- Driving growth in the renewable energy industry

Malaysia has introduced the Energy Exchange Malaysia (ENEGEM) to trade green electricity with neighbouring countries.

100 MW green energy as a pilot run



Existing Interconnection with Singapore

Key features of the auction for the purchase of green electricity:

- a) **opened to Renewable Energy (RE) Bidders** who hold import license (issued by EMA) for the Singapore Electricity Market;
- b) **register with Single Buyer** to participate in the auction;
- c) successful applicants **will be notified to proceed with auction** to purchase Green Electricity on auction day; and
- d) winning bidders **shall enter into RE Supply Agreement** with Single Buyer for the sales and purchase of green electricity.

