



*Ministry of Energy Transition and Water Transformation
Malaysia*

Power Development Plan (PDP) in Peninsular Malaysia

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8 – 11 April 2025 | Hong Kong

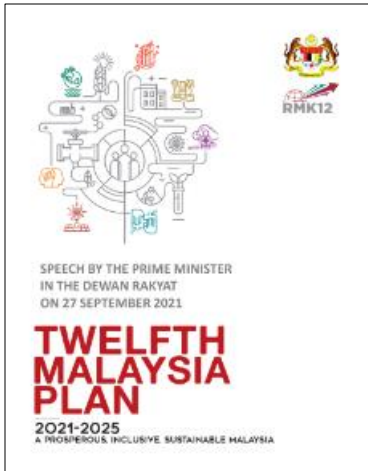
Malaysia's Climate Pledge



United Nations Framework
Convention on Climate Change

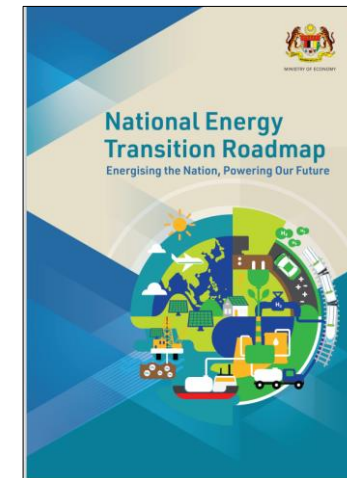
“ Economy-wide carbon intensity (against GDP)
reduction of 45% in 2030 compared to 2005 level”

The Twelfth Malaysia Plan



Net-zero GHG emissions by 2050

National Energy Transition Roadmap (NETR)



70% installed RE capacity by 2050

PLANNING CRITERIA & POLICIES

Energy Security (Jaminan)

To meet current and future energy demand reliably, withstand and bounce back swiftly from system shocks with minimal disruption to supplies.



Energy Equity (Ekuiti)

To provide universal access to reliable, affordable, and abundant energy for consumers use.

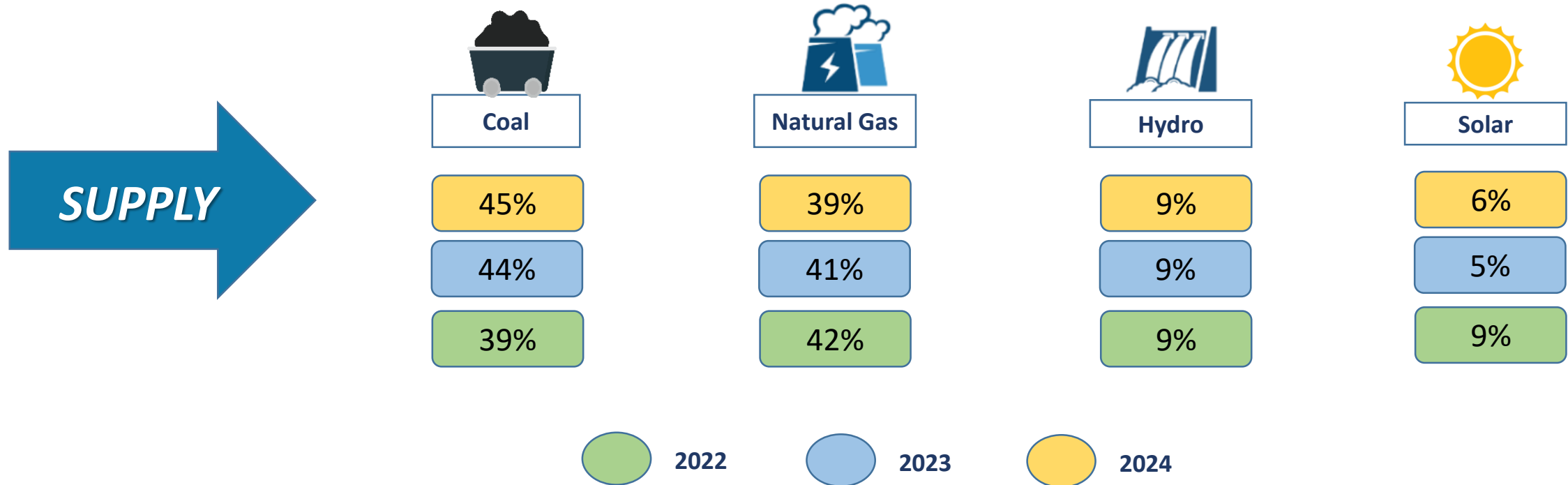
Environmental Sustainability

The transition of the energy system towards mitigating and avoiding potential environmental harm and climate change impacts.

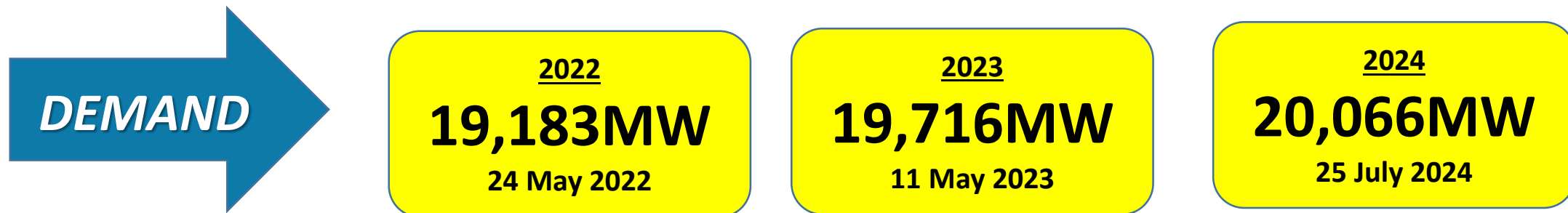
- 70% RE installed capacity in 2050
- Emission intensity reduction (CO₂/RM GDP)
 - 2030- 45%
 - 2035- 60%

ENERGY TRILEMMA

Installed Capacity in Peninsular Malaysia



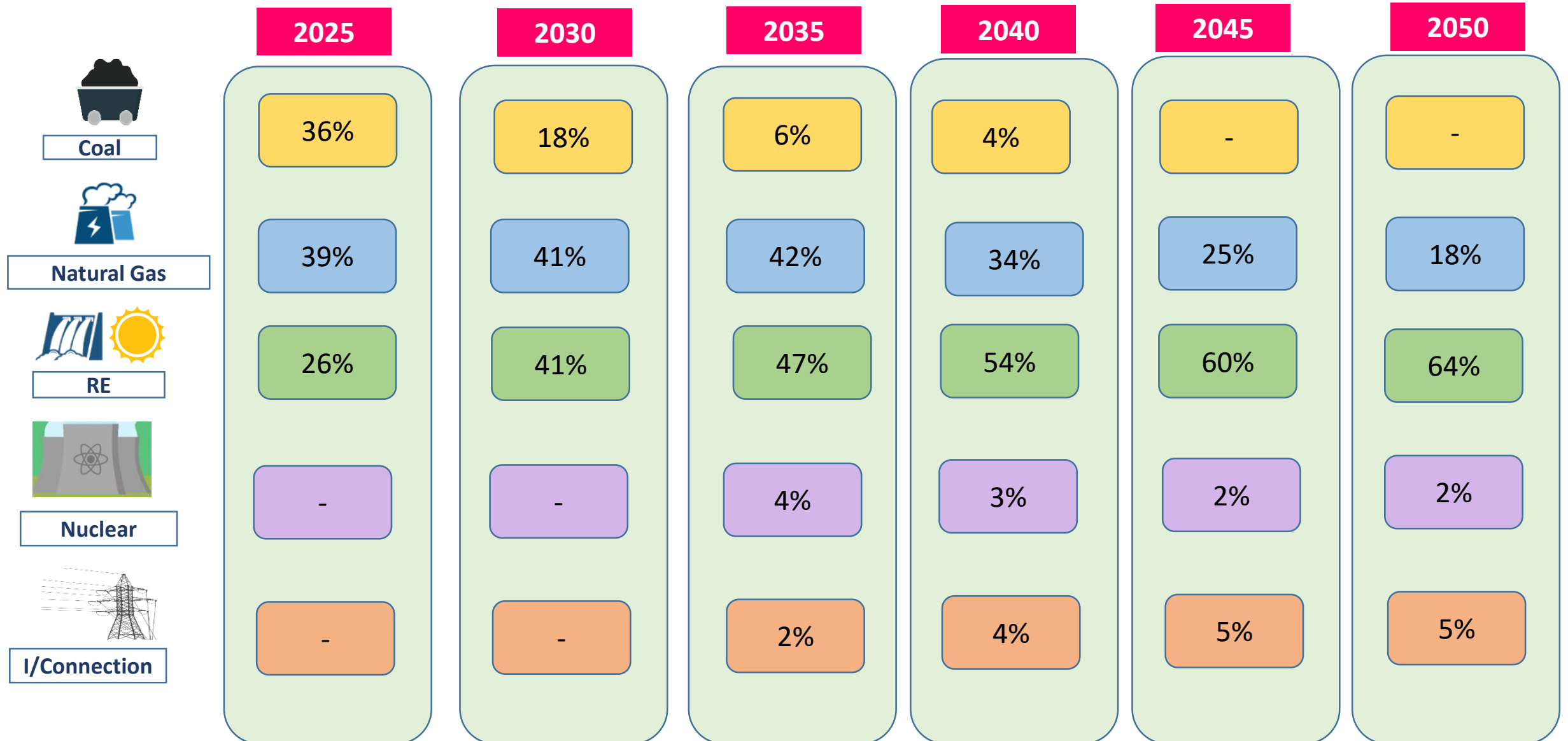
Peak Demand in Peninsular Malaysia



Demand Forecast in Peninsular Malaysia

YEAR	2025	2030	2035	2040	2045	2050
GW	20.1	33	43.1	50.6	56.5	63

Forecast Installed Capacity in Peninsular Malaysia



POLICIES

- NO NEW coal-fired power plant;
- NO EXTENSION of coal-fired power plant;
- CO-FIRING a coal-fired power plant with biomass (15%) – Pilot Project;
- 70% installed RE capacity by 2050; and
- Request for Information (RFI) with a coal-fired power plant.



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Thank you

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*Data Centre Demand Forecast in
Peninsular Malaysia*

YEAR	2025	2030	2035	2040	2045
GW	5	12.89	19.5	20.9	21.0