



TENAGA NASIONAL BERHAD PRESENTATION TO INVESTORS

Investor Relations
Group Finance Division
June 2024

Overview

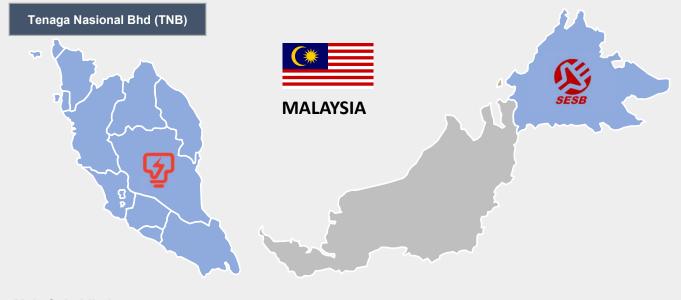


Corporate Profile



TNB is the largest electricity utility company in Malaysia and at the forefront of the country's energy transition

Sabah Electricity Sdn Bhd (SESB) (83% owned by TNB)



Main Subsidiaries















Our Presence in Peninsular Malaysia



Holds 52% of Domestic Generation Capacity

Our grid network & retail business* are governed by the Incentive Based Regulation (IBR) framework



Transmission length: 26,093 km

Substations: 485

System Minutes: 0.48 minutes



Distribution Network: 761,546 km

Substations: 98,254 SAIDI: 46.1 minutes



Retail customers: 10.2 mil

Customer Satisfaction Index (CSI): 88%

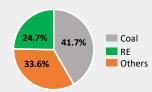
*Data as of December 2023

Group Portfolio

Total TNB Equity Capacity: 16,294 MW (March 2024)

• Domestic: 15,136 MW

International: 1,158MW



- RE inclusive of large hydro and small RE
- Data is based on equity installed capacity
- Solar capacity based on MWp

Overview







We are also a global player as we strive to future proof our business by expanding our RE footprint and establishing strategic partnerships with leading RE players

INTERNATIONAL PORTFOLIO 2021 ♥ VANTAGE RE **FREMACG** 2005 Equity stake: 100% SWEC **Operation & Management Services:** Capacity: Equity stake: 6% effective equity stake TNB Remaco & Balloki Power Plant 123.9MW in onshore wind (100% equity) Capacity: National Power Park Management 365.0MW in solar (55% equity) Company Limited 1,190.7MW in oil 41.5MW in offshore wind (49% equity) Water desalination of 376 mcm p.a. 276.0MW in solar (100% equity) **FREMACG** (F) GAMA 2016 Technical Advisory: · Technical Advisory for Electricité du Equity stake: 30% Cambodge (EDC) Heavy Fuel Oil Plant Capacity: of 400MW 1,151.5MW in gas, hydro and wind. Water conveyance in Jordan 2023 Spark Renewables **FREMACG** Equity stake: 100% Capacity:

Our International Presence

United Kingdom Ireland

Wind Hydro Gas

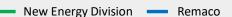
Australia

Turkiye

Saudi Arabia

Operation & Management Services:

- Maintenance Services Agreement Mechanical Works (Doha West Plant)
- Instrumentation & Control Systems (Shuwaikh Power Plant & Doha West Plant)



120.5MWp in Solar

Kuwait

Senior Independent

Non-Executive Director

ONG AI LIN

Expertise: Audit & Finance





CHAIRMAN
DATO' ABDUL RAZAK BIN ABDUL MAJID

Independent Non-Executive Directors



GOPALA KRISHNAN K.SUNDARAM

Expertise: Law



JUNIWATI
RAHMAT HUSSIN
Expertise: Corporate Planning
and Human Resource



DATO' ZULKIFLI BIN IBRAHIM

Expertise: Engineering



DATO' MERINA BINTI ABU TAHIR

Expertise: Accounting



EXECUTIVE DIRECTOR / PRESIDENT / CEO DATUK IR. MEGAT JALALUDDIN BIN MEGAT HASSAN

Non-Independent Non-Executive Directors



MUAZZAM BIN MOHAMAD

Permodalan Nasional Berhad (PNB)



YB. TUAN RAMZI BIN MANSOR

Ministry of Finance (MOF)



ROHAYA BINTI MOHAMMAD YUSOF Employees Provident Fund (EPF)



SELVENDRAN KATHEERAYSON

Khazanah Nasional Berhad



ELAINE ONG YEE LYNN Khazanah Nasional Berhad Alternate Director





Group earnings supported by strong and world-class network performance



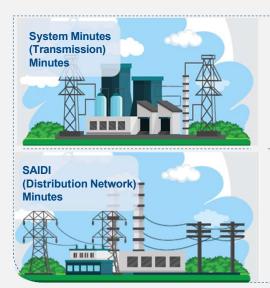
1QFY2024 75.4%

1QFY2023: 84.4%

2024 Target: 78.6%



EAF performance impacted by Manjung 4 downtime



1QFY2024

1QFY2023: 0.01

2024 Internal Threshold: 1.5

1QFY2024

1QFY2023: 9.49

2024 Internal Threshold: 50.0





World class network performance safeguarded our regulated business earnings



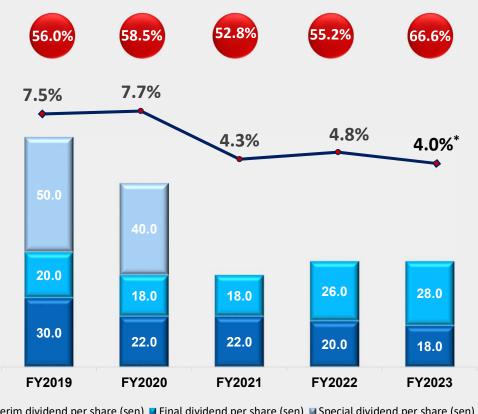




Stability in regulated business performance enables us to reward shareholders while upholding our policy

DIVIDEND POLICY

We will continue to honour our dividend policy of 30% to 60% dividend payout ratio, based on the reported Consolidated Net Profit Attributable to Shareholders After Minority Interest, excluding Extraordinary, Non-Recurring items



■ Interim dividend per share (sen) ■ Final dividend per share (sen) ■ Special dividend per share (sen)

 Dividend Payout ratio (%) (based on Adjusted Group PATAMI and excluding special dividend) Dividend Yield

^{*} Dividend yield as of 21 Feb 2024

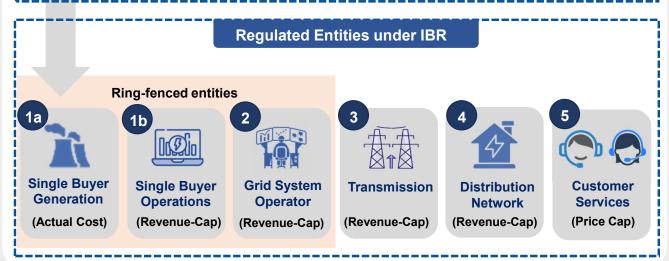
Regulatory

Regulated Business



Our regulated business is governed by the Incentive-Based Regulation (IBR) framework which provides stable returns to the Group while ensuring a more efficient energy sector

Governed under PPA/SLA/REPPA Generation TNB GenCo / IPP / RE Developer



The IBR mechanism provides:

- Clear and transparent regulatory framework
- Consistent and stable returns
- Shield against uncontrollable swings
- Incentives for operational efficiencies
- Regulated business made up more than 70% of the overall Group earnings.
- Revenue cap: Allowed annual revenue based on approved demand growth. Any excess/shortfall is adjusted through revenue adjustment mechanism.
- Price cap: Any excess/shortfall of revenue made due to higher/lower average selling price compared to base tariff is adjusted through revenue adjustment mechanism.

▶ IBR Regulatory Period 3 (RP3) Parameters

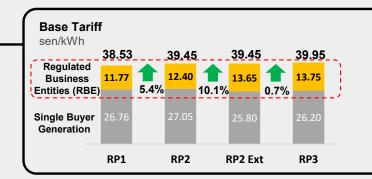




RP3 determination (2022 -2024) **Base Tariff**, 39.95 sen/kWh RP2: 39.45 7.3 WACC, % RP2: 7.3 20.55 CAPEX, RM bil RP2: 18.8 70.8 RAB, RM bil estimated closing 2024 RAB

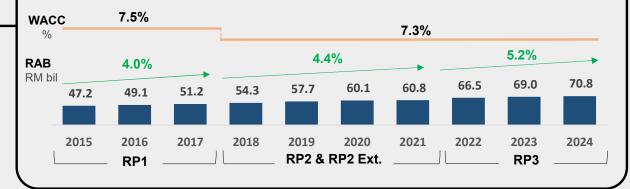


- > Submitted RP4 proposal to regulator in early December 2023.
- > Theme: Delivering our customers' energy needs and facilitating Malaysia's Energy Transition
- > Tariff Reform: Towards cost reflectivity to ensure that the tariff is fair and equitable for the sustainability of the ecosystem



Upward trend of RBE tariffs since RP1 ensure continuous growth of regulated revenue

- WACC and return on regulated asset base (RoRAB) maintained at 7.3% since RP2
- Higher approved CAPEX guaranteed continuous growth in Regulated Asset Base (RAB) and earnings

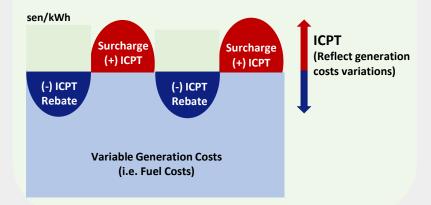


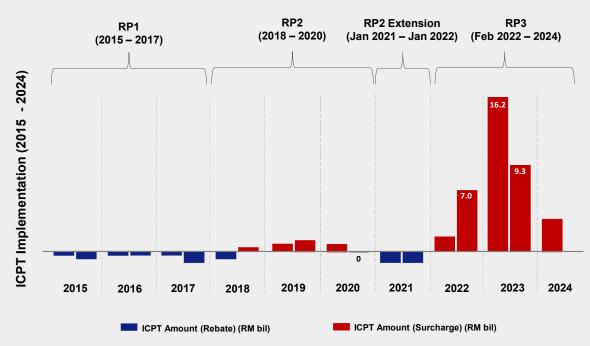




Regulatory certainty; the Government has successfully managed the impact of fuel prices volatility for the past 19 ICPT* cycles since 2015 with the highest ICPT cost recovery in FY2023.

ICPT is a mechanism under the IBR framework which allows TNB to reflect changes (either increase or reduction) in fuel and other generation-related costs in the electricity tariff every six (6) months in the form of rebate or surcharge.



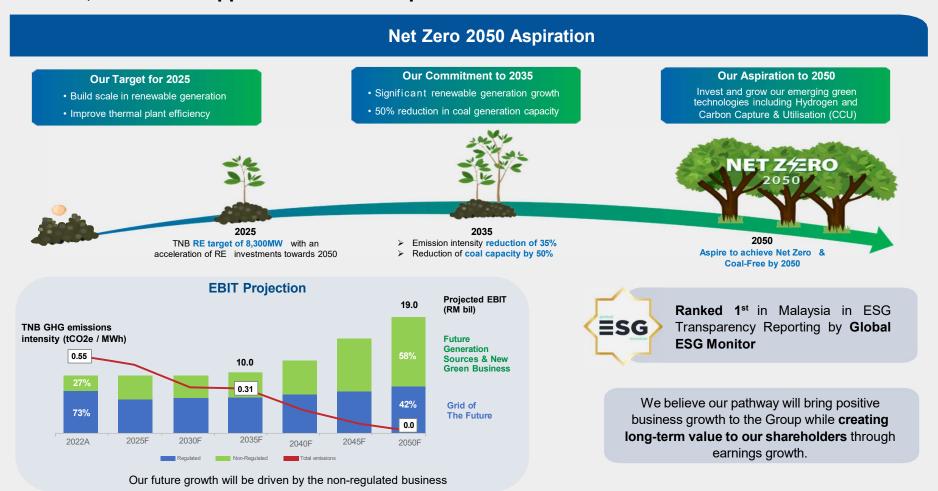


ICPT mechanism remained intact; ICPT receivables is expected to trend lower amid moderating coal prices, relieving working capital pressure with positive improvements in our cash flow position and gearing levels.





Our journey towards Net Zero 2050 Aspiration will bring positive business growth and enhance value to our shareholders, as well as support the nation's aspiration



TNB's Energy Transition Plan



Three (3) Key Levers: Decarbonisation, Digitalisation & Electrification



Our Energy Transition Plan cuts across the electricity supply value chain, anchoring on three (3) key levers: **Decarbonisation, Digitalisation & Electrification**

Deliver Clean Generation



ENERGY SOURCES

Renewable Capacity Growth

- Capture RE growth potential in domestic and international markets
- Embark on strategic partnership for new technology
- Adopt commercial capabilities in foreign markets to drive domestic RE growth

Carbon Management

- Reduce scope 1,2,3 GHG emissions
- Capture emissions (CCS, CCU)
- Trade/offset
- Manage carbon pricing

Coal Generation Capacity Reductions

- Uplift value of existing plants
- Reduce coal generation capacity
- Increase gas generation capacity

Develop Energy Transition Network



ENERGY VECTORS

Smart Grid

Enhance grid & network flexibility to enable higher penetration of VRE1, DER² & electrification

Hydrogen

Produce for applications in domestic power, industrial and mobility sectors, and for export market

Energy Storage

- Stabilise the grid
- Manage grid's peak demand
- Enable off-grid supply and peer-to-peer generation among prosumers

Dynamic Energy Solutions



ENERGY USAGE

Electrification

Spur the development of low-carbon mobility ecosystem

Energy Efficiency

- Provide energy audit services and integrate energy efficiency improvements on machinery, equipment & appliances
- Deploy energy monitoring system

Prosumers

Provide rooftop solar + storage solution

Digital Platforms

Complement Energy Transition (ET) initiatives with digital platforms such as myTNB apps, Electric Vehicle (EV) charging platform, digital marketplace and green energy aggregation and trading platform

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¹ Variable Renewable Energy

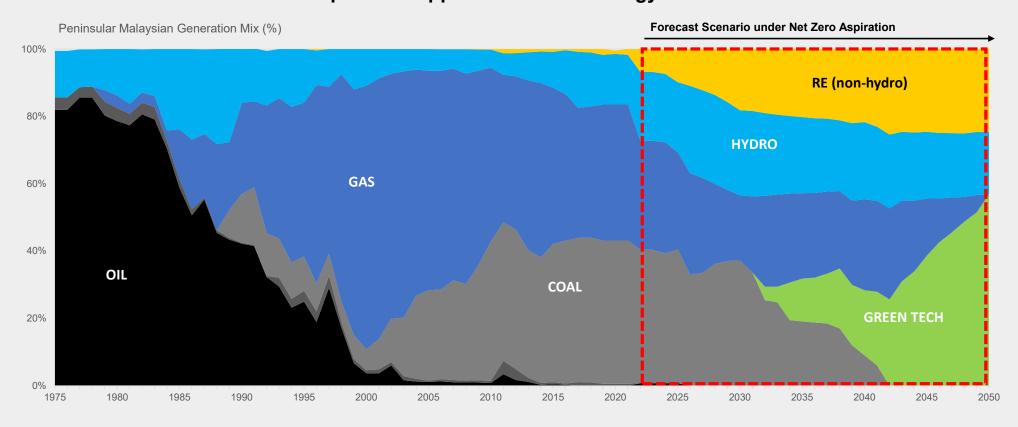
² Distributed Energy Resources

TNB's Energy Transition Plan > Peninsular Malaysian Generation Mix





The nation's current generation mix reflects the diversification required for security of supply, and will continue to shift as we take a responsible approach towards energy transition



- Historically, Malaysia's generation mix was dominated by the use of oil as we transitioned into gas and then coal
- Moving forward, RE will grow significantly as costs rapidly decline
- Green Tech (Green Hydrogen, Gas + CCUS) will be a key lever in decarbonisation







TNB's fast-track sustainability agenda will bring major shifts across the value chain, ensuring business growth while meeting our ESG commitment

Deliver Clean Generation

Energy Sources

GenCo aims to capture estimated RM40 bil revenue from domestic market by 2050

Fast track decarbonisation

- Coal plants early retirement
- Repowering plants with cleaner fuel and green tech
- Strategic technology partnership

Explore opportunities in ASEAN



Hydro





- Increase enterprise value and sustainability position of GenCo
- Possibility of an IPO of GenCo

NED aims ~USD7 bil **Equity investment by 2050**







Develop Energy Transition Network

Energy Vector

Regulated asset base (RAB) for Grid + DN to grow to ~RM100 bil by 2050



Spurring growth of Variable Renewable Energy (VRE) and Distributed Energy Resources (DER)



Propelling growth of transportation and industrial customers electrification



Reducing carbon footprint and preserving the forestry & natural environment

Regional Interconnection

To strengthen security of supply and open investment opportunities



Potential Earnings by 2050: ~RM7 bil

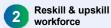
Dynamic Energy Solutions

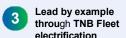
Energy Usage

We will invest RM90 mil to support BEV ecosystem over the span of 3 years with the following key strategic moves:



Build charging infrastructure









Foster coalition among EV sector players

2030 EV Market Potential

18.000

500,000

4.432 k tons

charging points

BEV on the road CO₂ emission reduction

RM 1.258 mil

2.318 TWh

annual electricity revenue annual electricity sales

Driving changes in customer behaviour via myTNB



100% increase to ~250k users of **Energy Budget features via myTNB** (2025):

· 8,071 tonnes of CO2 avoided from the potential savings of ~11GWh in household energy consumption

TNB's Energy Transition Plan

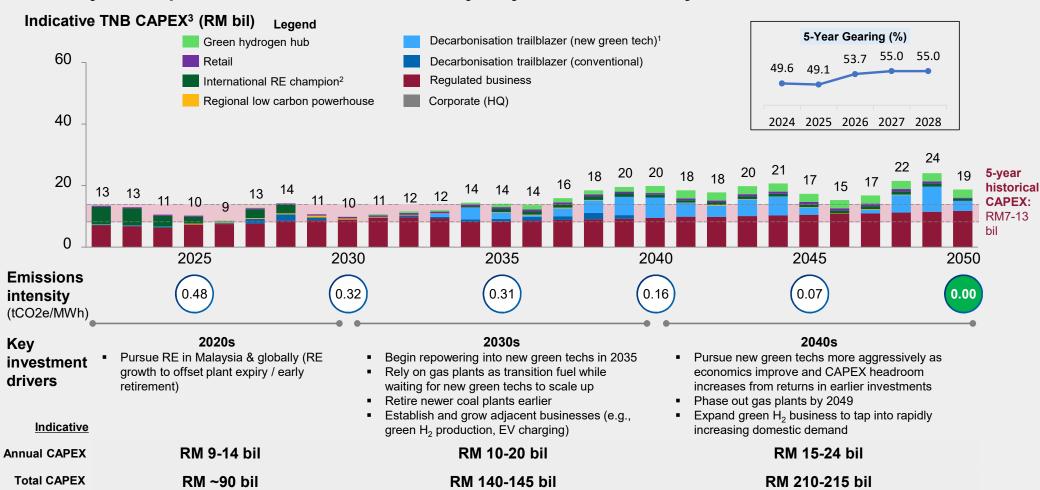






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Pathway will require investment of RM10-20 bil yearly over the next 30 years



National Energy Transition Roadmap (NETR) Capitalising on high-value green economy



Establish the

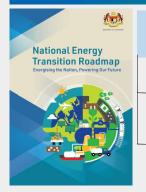
Council

National Energy





Responsible Transition (RT) Pathway 2050 to shift Malaysia's energy systems from fossil fuel-based to greener and low-carbon systems

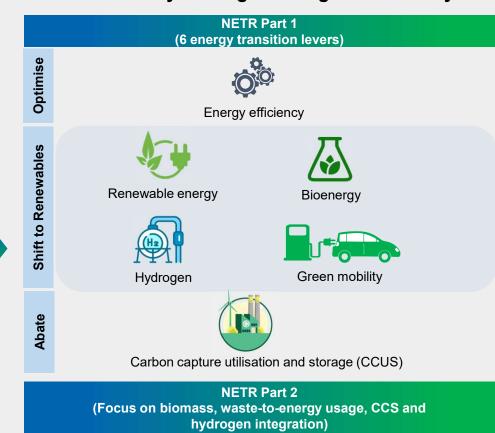


Aligned with the national aspirations and commitments to sustainable development

- The Twelfth Malaysia Plan 2021-2025 which outlines aspirations for the nation to achieve net zero emissions by 2050.
- The National Energy Policy (DTN) launched in September 2022 with aspirations to become a low carbon nation in 2040.

Review of RE policies

- To increase the country's installed RE capacity from 40% in 2035 to 70% by 2050,
- To introduce the concept of a self-contained system according to the "willing buyer, willing seller" principle to the RE development framework.
- To increase the installation of solar systems on government buildings, and
- To allow cross-border RE trade through the establishment of an electricity exchange system, complementing the ASEAN power grid initiative.



Set up the National Energy

Transition Facility (NETF)

with a seed fund of RM2

billion

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Establish and

exchange in 2024

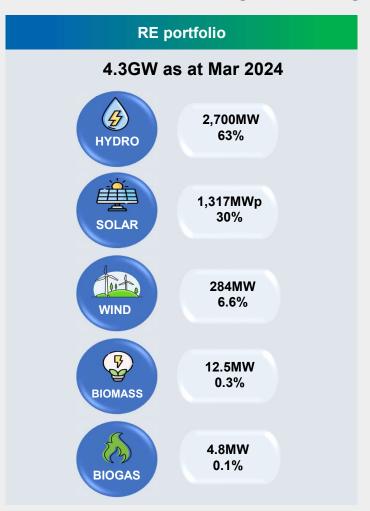
launch a RE



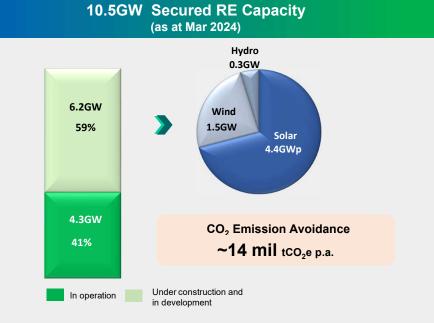




We remain resolute in delivering our RE target capacity of 14.3GW by 2050







Note: Solar gross capacity is quoted in MWp





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