



# MESYUARAT AGUNG TAHUNAN

TENAGA NASIONAL BERHAD KE-33

18 MEI 2023



Sharing prosperity through dividend;  
65% out of dividend payout was distributed to GLICs.



FY2022  
Dividend Payout

**RM2,646.4 mil**

Dividend  
Distribution

**Top GLICs Shareholders: RM1,727.8 mil**



KHAZANAH  
NASIONAL

Khazanah Nasional Berhad : **RM668.2 mil**



PNB  
Permodalan Nasional Berhad

Permodalan Nasional Berhad (PNB): **RM420.1 mil**



KWSP  
EPF

Employees Provident Fund (EPF) : **RM421.4 mil**



KWAP

Kumpulan Wang Persaraan (KWAP) : **RM194.6 mil**



TABUNG HAJI

Lembaga Tabung Haji (LTH) : **RM23.5 mil**

**Other Shareholders: RM918.6 mil**



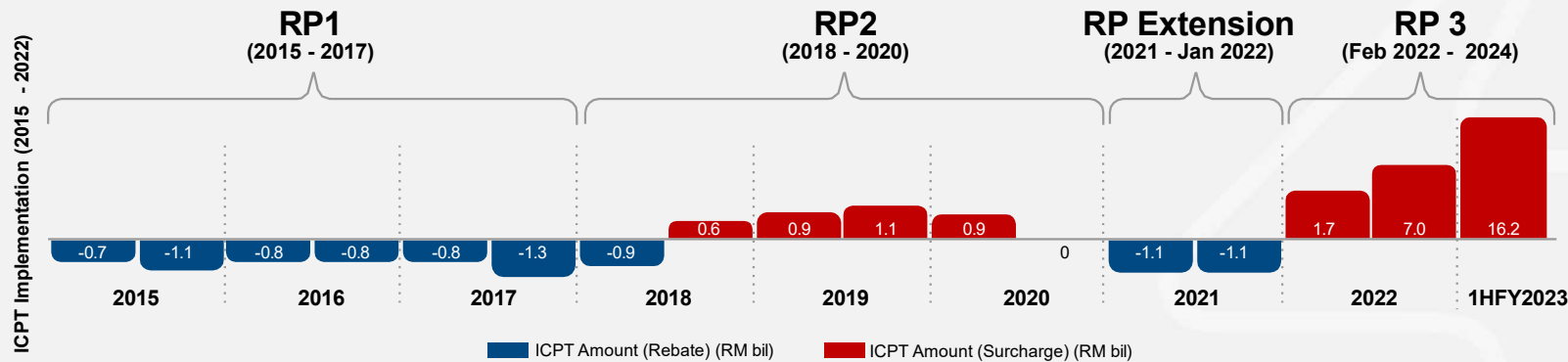
Retail & Others:

**RM580.3 mil**



Foreign : **RM338.3 mil**

## The recent approval of RM16.2 bil ICPT cost recovery for 1HFY2023, highest in the 17 cycles, showcased IBR framework as intact




**ICPT Outlook**  
2HFY2023



**Coal Price**  
Trending downwards  
Jun'22: 345.93 USD/MT  
Apr'23: 165.06 USD/MT

### Successful Framework

- The Government's decision to allow the full recovery for ICPT showed their commitment in upholding the IBR framework and ensuring that the industry remains resilient.
- Since 2015, 17 ICPT cycles have been successfully implemented with the highest ICPT cost recovery at RM16.2 bil in 1HFY2023. Our continuous engagement efforts with the Government has ensured the successful implementation of the ICPT mechanism.
- Despite the challenges of high fuel prices, our prudence in working capital management has ensured our financial stability and ability to operate efficiently.

**"The government will continue to look after the industry's interest although it will change the method of distributing subsidies towards targeted subsidies."**



**Datuk Seri Anwar Ibrahim**  
Prime Minister of Malaysia

## Looking ahead into 2023, we will continue to drive our strategic initiatives in reaching our Net Zero commitments while ensuring business growth

### GenCo

Continue to build future capacity pipeline while enhancing plant performance

#### Hydro



#### Sungai Perak LEP Project

- Finalised New PPA

#### Nenggiri Hydro Project

- COD: Q2 2027

FY2023: ~RM1.5 bil

#### Gas



#### Paka Repowering

- Establishment of Feasibility Study

#### New CCGT Kapar

- Collaborative Agreement with partner

Continue investments in green technologies as part of our Energy Transition journey (domestically & regional)

Continue focus on plant performance enhancement programmes at 5 key domestic plants

### NED

Continue to grow RE portfolio with good quality assets and improve performance of NED



#### FOCUS MARKETS



Strong 4.4GW pipeline of renewable assets, continue to build pipelines and explore opportunities

### Grid

Continue to support nation's transition journey towards a cleaner energy for the rakyat

1

#### Regional Interconnection



Collaboration with PT Perusahaan Listrik Negara (PLN) – conduct feasibility study



Collaboration with Electricity Generating Authority of Thailand (EGAT) – conduct feasibility study

2

#### Green Energy Islands



Road to Net Zero emissions by 2040

3

FY2023 ET Related CAPEX: ~RM2.5 bil

### Customer Experience

Shaping and enabling customers to adopt a sustainable lifestyle

1

#### EV Ecosystem



FY2023 Spending Outlook ~RM 31 mil



Reskill & upskill workforce  
ILSAS as training center for Electric Vehicle



2030 Market EV potential  
2.318 TWh annual electricity sales RM 1,258 mil annual electricity revenue

2

#### Energy Efficiency



Driving changes in customer behaviour via myTNB

100% increase to ~250k users of Energy Budget feature in myTNB:

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

## As a kickstart, we have strategically ventured into Regional Interconnection, allowing a wider reallocation of RE resources and more opportunities in RE investments to support our Nation's Energy Transition Plan

### Regional Interconnection

Regional interconnections involve joining up separate power systems and building cross-border grid infrastructure, supporting access to RE capacities in line with the Malaysia Energy Transition Outlook

#### Role of Regional Interconnection:

Interconnected grid will help individual countries leverage on resources from our neighbours during times of crises, while also providing the opportunity to trade and leverage on pricing of resources at other times

#### Benefits of Regional Interconnection:

- Support Genco expansion plan in regional countries as it aims to explore hydro and gas opportunities in ASEAN;
- Provide access to RE capacities from neighbouring countries by enabling more offtakers to purchase power across ASEAN;
- Strengthen grid security of supply; and
- Potential capacity of 18-22 GW.



### ASEAN Power Grid (APG)

- Regional power interconnection to connect the region on cross border bilateral terms, and gradually expand to sub-regional basis and subsequently leading to a total integrated Southeast Asia power grid system.

#### TNB's foray into Regional Interconnection:



##### Malaysia – Singapore Interconnection

- Completed the upgrading of the electricity interconnector in October 2022 and able to accommodate bidirectional electricity flows of around 100MW.
- Currently, finalising other relevant agreements and licensing, and plant preparation is in progress.



##### Collaboration with PT Perusahaan Listrik Negara (PLN)

- Explore any opportunity in the Grid interconnection business through collaboration with PLN.
- On-going discussions to pursue the interconnection.



##### Collaboration with Electricity Generating Authority of Thailand (EGAT)

- Feasibility study of a proposed enhancement of the interconnection capacity between Peninsular Malaysia and Thailand.
- Formed Joint Working Committee with target completion in August 2023.

## We are committed to our Energy Transition Plan – The journey towards Net Zero 2050 Aspiration will bring positive business growth and enhance value to our shareholders

Achieving these key deliverables is a testament of our commitment in realising our Energy Transition Plan:

### Renewable Energy (RE)

- Nenggiri Hydro Project of 300MW
- Acquired solar farms in the United Kingdom (UK) of 102MW and option to develop 65MW co-located Battery Energy Storage Systems
- Acquired 97.3MW Onshore Wind Portfolio in the UK
- Commencement of LSS4 project, TNB Bukit Selambau 2 of 50MW
- Sungai Perak Life Extension Programme (LEP) of 650.75MW

### Energy Transition (ET) Investment

- Regional Interconnection and Smart Grid
- Launched 2 Electron Charger Hubs : First highway equipped with Direct Current Fast Charger (DCFC) along North-South Highway
- To build the nation's first solar-powered electron stations for electric vehicle (EV) in Klang Valley
- Actively pursuing potential Data Centre Projects with maximum demand of 4,300MW

### Green Energy

- Paka Repowering of 1,400MW
- New Combined Cycle Power Plant Kapar of 2,100MW

## Net Zero 2050 Aspiration

### Our Target for 2025

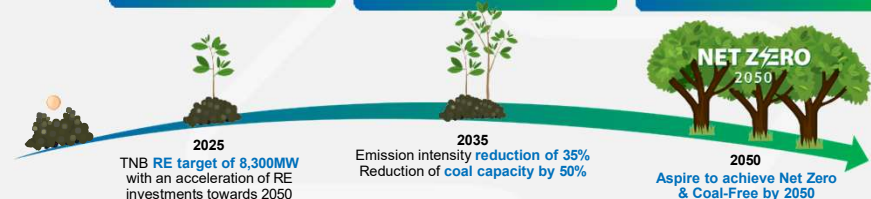
- Build scale in renewable generation
- Improve thermal plant efficiency

### Our Commitment to 2035

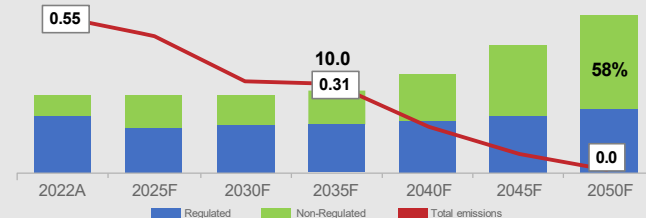
- Significant renewable generation growth
- 50% reduction in coal generation capacity

### Our Aspiration to 2050

- Invest and grow our emerging green technologies including Hydrogen and Carbon Capture & Utilisation (CCU)



### TNB GHG emissions intensity (tCO<sub>2</sub>e / MWh)



### EBIT Projection

### Projected EBIT (RM bil)

Future Generation Sources & New Green Business

Grid of The Future

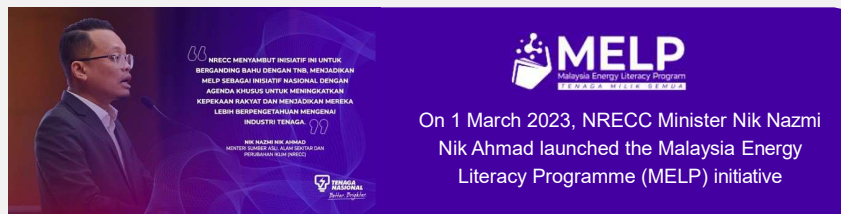


**Ranked 1<sup>st</sup> in the region and 42<sup>nd</sup> in the overall international ranking for Global ESG Monitor.**

We believe our pathway will bring positive business growth to the Group while **creating long-term value to our shareholders** through earnings growth.






## A successful energy transition requires everyone's support. TNB commits to Malaysia Energy Literacy Programme (MELP) to foster an energy-literate society in ensuring energy industry sustainability



### Introduction

The Malaysia Energy Literacy Program (MELP) aims to educate Malaysians about the importance of energy and their role in energy management for future sustainability

### Objectives

-  Provide access to credible information about energy
-  Build decision makers and critical mass support in driving energy sustainability and increase awareness on the need of balancing energy trilemma
-  Expand energy-literate society and smart consumers

### Target Group

Government  
Ministries  
Regulator  
MPs

Customers,  
Consumers  
& Public

School  
students  
& Youths

Key  
Influencers

Media

### Key Areas



Energy 101



Sustainability, RE, Energy transition



Energy efficiency



EV adoption



Consumer literacy



Electrical safety

### 2023 Key Programmes

- **Safety Programmes**, collaboration with Energy Commission
- **Energy modules** with universities (UNITEN & UKM)
- **Kempen Kesedaran Pengguna Bijak Tenaga**, collaboration with Ministry of Education to produce webinars
- **Collaboration** with FOMCA on Smart & Sustainable Living Campaign and Smart Meter Campaign; and Persatuan Pengguna Islam Malaysia (PPIM) to produce educational videos
- **E-learning module for TNB employees**



**To all Warga TNB, a special acknowledgement for your hardwork and dedication to TNB during this challenging period.**

**To our customers, shareholders and community, we thank you for your continued support and confidence in Tenaga Nasional Berhad.**

