



A LEADING UTILITIES COMPANY IN MALAYSIA

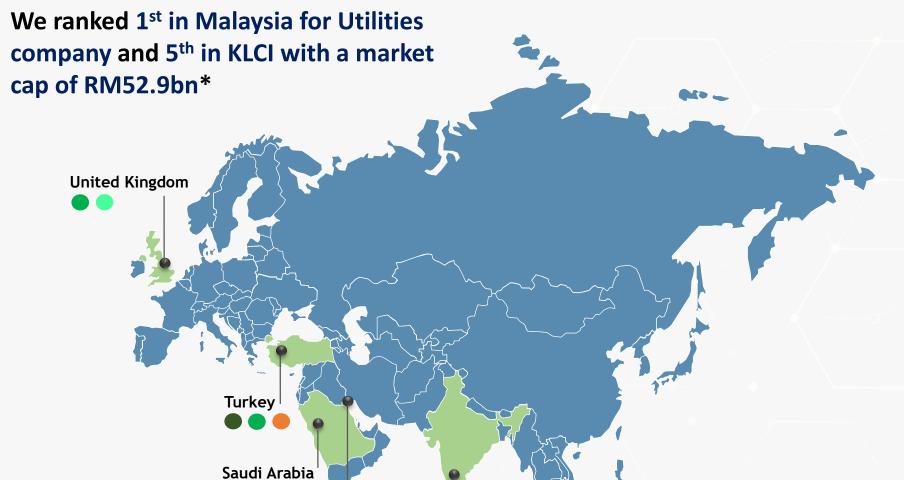
Kuwait

Operation &

Maintenance

Biomass



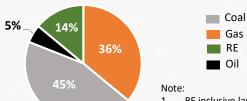


India

Malaysia

Generation Business (Group)

Total Installed Capacity: 23,896MW*



RE inclusive large hydro and small RE

Data is based on gross installed capacity (exclude SESB)

TNB Grid & Retail Business (Peninsular Malaysia)



Transmission length: 27,548 KM

Substations: 510 System Minutes: 0.09



Distribution Network: 703,312 KM

Substations: 85,127 SAIDI: 32.38 minutes



Retail customers: 9.5 mil

CSI**:86%

Main Subsidiaries













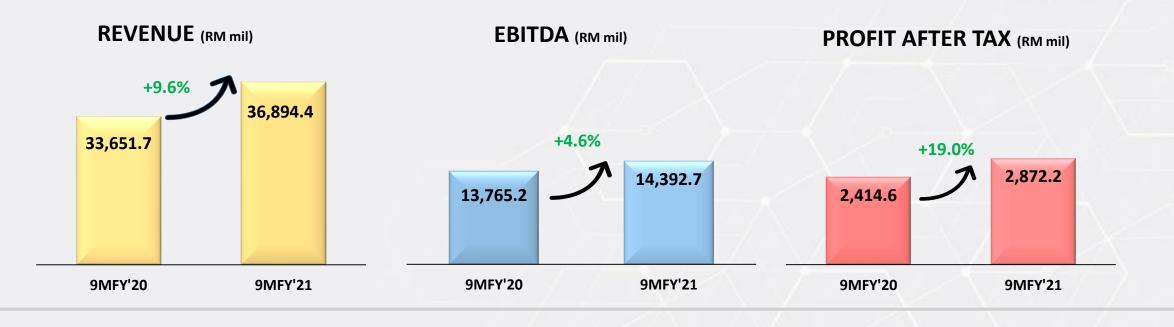






OUR FINANCIAL PERFORMANCE REMAINS RESILIENT





OUR DOMESTIC NETWORKS ACHIEVEMENT WITH LOW SYSTEM MINUTES AND SAIDI ARE AMONG THE BEST IN THE WORLD

Equivalent Plant Availability Factor (EAF) (Generation)



83.84%

9MFY'20: 88.28%

2021 Target: 86.1%

System Minutes (Transmission)



0.09 mins

9MFY'20: 0.05 mins 2021 Target: 2.0 mins SAIDI (Distribution Network)



32.38 mins

9MFY'20 : 33.90 mins

2021 Target: 55.0 mins

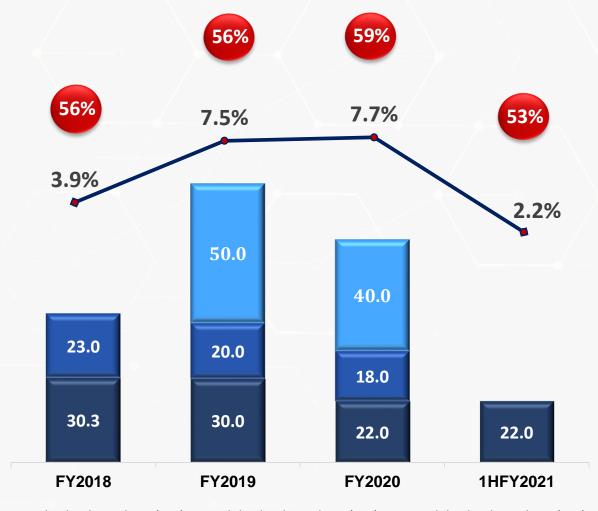
A RESILIENT FINANCIAL PERFORMANCE AND ROBUST CAPITAL MANAGEMENT HAS AFFORDED US TO CONTINUE REWARDING OUR SHAREHOLDERS WITH **ATTRACTIVE DIVIDENDS**



DIVIDEND POLICY

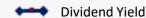
We will continue to honour our dividend policy of 30% to 60% dividend payout ratio, based on the reported Consolidated Net Profit Attributable to Shareholders After Minority Interest, excluding Extraordinary, Non-Recurring items

Statistic	30 th Sep '21	31 st Dec'20
Total Debt (RM Bil)	49.1	49.5
Gearing (%)	46.3	46.3
Net Gearing (%)	35.4	33.7



[■] 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)



WE BELIEVE OUR SUSTAINABILITY PATHWAY WILL OPEN UP NEW GROWTH OPPORTUNITIES WHILST REMAINING TRUE TO OUR CORE ROLE

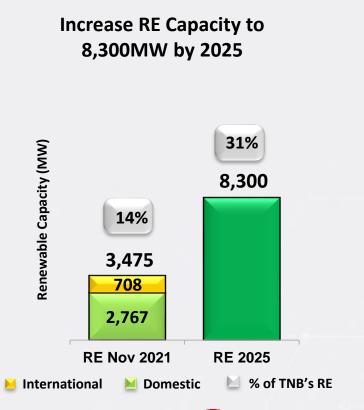


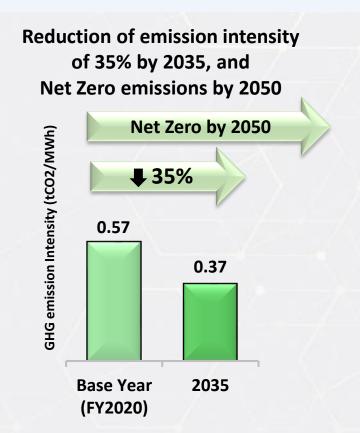
Aspire to achieve Net Zero emissions by 2050

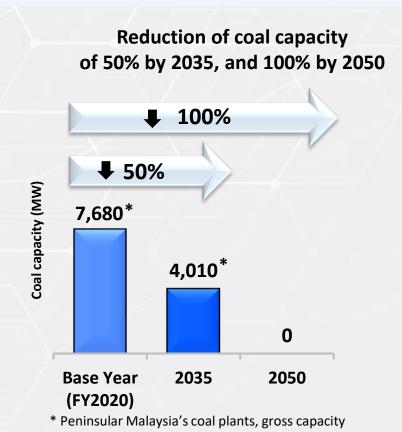
Our 8,300 MW RE Target by 2025 – Build scale in renewable generation

Our Commitment to 2035 - Emission intensity reduction by 35% through significant renewable generation growth and 50% reduction in coal generation capacity

Our Aspiration to 2050 - Invest and grow our emerging green technologies, achieve net zero and coal-free by 2050









- TNB targets not to take any new stake in new coal plants and will honor the existing PPAs
- TNB is committed that revenue from coal does not exceed 25% of Group revenue

IN 2016, WE EMBARKED ON OUR REIMAGINING TNB JOURNEY TO PREPARE FOR DECARBONIZATION, DECENTRALIZATION, DIGITALIZATION AND DEREGULATION



TO BE A LEADING PROVIDER OF SUSTAINABLE ENERGY SOLUTIONS IN MALAYSIA AND INTERNATIONALLY



Future Generation Sources

2025 EBIT Target: RM5.0bil

Main Initiatives:

- Growing TNB's renewable capacity
- Expansion of capacity into selected international strategic markets with strong growth prospects
- Improving performance of existing thermal generation fleet

2021 Focus:

- Improve the performances of existing assets
- Operationalisation of RACo & ReDevCo
- Acquire our first off-shore wind assets with a strong partner and aim to build expertise in this technology and beyond.
- Explore SEA for RE expansion



Grid of the Future

2025 EBIT Target: RM6.1bil

Main Initiatives:

- Leveraging on innovation across the network to support our Energy Transition
- Upgrading our existing network infrastructure into a smart, automated and digitally enabled network
- Optimising our network's productivity, efficiency and reliability

2021 Focus:

- Achieve the Smart Meter installations targets
- RAB Expansion by utilizing the allowed CAPEX on Grid modernization Project
- Reduce System Losses



Winning the Customer

2025 EBIT Target: RM0.7bil

Main Initiatives:

- Enhance our customer's experience through all customer journeys for service, interaction and communication channels
- Growth through innovation of new sustainable customer solutions
- Strengthen digital presence via digital solutions, interactions and enterprise

2021 Focus:

- Enhance customer service by ensuring our customer's experience is a seamless interaction with TNB from the start to the end through Network of Teams models
- Expansion of rooftop solar PV





Future Proof Regulation

Main Initiatives:

 Working together with key stakeholders towards a stable and sustainable regulatory landscape

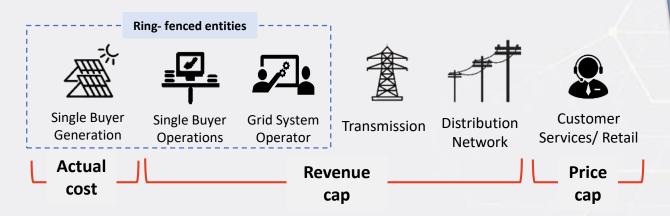
2021 Focus:

- RP3 Proposal Approval
- Shape TNB's sustainability agenda

DELIVERING SUSTAINABLE RETURNS VIA IBR MECHANISM SINCE 2014



Regulated entities under Incentive Based Regulation (IBR)



The IBR mechanism provides:

- Clear and transparent regulatory framework
- Consistent and clear returns
- Shield against uncontrollable swings
- Incentives for operational efficiencies

(Please refer appendix section for further details)

- □ Regulated business made up more than 70% of the overall Group earnings.
- Regulated entities' earnings are guaranteed based on approved electricity demand growth as stipulated by the IBR guidelines.
- Risks such as fuel price and forex volatility has been taken up through the Imbalance Cost Pass-Through (ICPT) mechanism which is being reviewed every six months.

Note:

- i. Revenue cap: Allowed annual revenue based on approved demand growth. Any excess/shortfall is adjusted through revenue adjustment mechanism.
- **ii. 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.

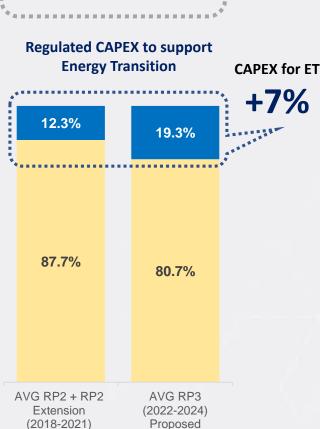
INCREASED CAPEX INVESTMENTS IN OUR GRID DIGITALIZATION IS KEY TO MALAYSIA'S ENERGY TRANSITION AMBITION, FURTHER FUTURE-PROOFING OUR **REGULATED BUSINESS**



Towards becoming a Smart Utility by 2025

Our target: Achieve Smart Grid Index (SGI) of 85% by 2025

Regulated businesses spends on average ~16% of its **CAPEX towards supporting Energy Transition (ET)**



Approved

- ☐ A smart utility will enable us to deliver a reliable and high quality grid with bidirectional energy flow to accommodate intermittent RE generation, EV and distributed generation in supporting ET.
- Our regulated CAPEX related to enabling ET is expected to increase from 12.3% to 19.3% through our proposed RP3 initiatives.
- Continued investment is crucial in developing a robust grid system to supply reliability ensure while embracing our sustainability agenda

Major projects related to ET



☐ Smart meter program enables customer to have an improved access and management to their energy consumption. It also improves operational effectiveness by reducing response time, automating processes and improving data accuracy.

Replacement of traditional high pressure sodium vapor (HPSV) street lightings

with light emitting Diode (LED) which are cost efficient (longer lifespan), lower

Advanced Metering Infra. (AMI)

Smart meters installation progress:

86% (as at Oct'21)

(1.8 mil units by end 2021)



Relamping

electricity consumption and more environmental friendly.

■ LED street lightings replacement progress:

89% (as at Oct'21)

(650,000 units by end 2021)



Volt-Var Optimisation (VVO)

- □ VVO is an advanced application that runs periodically or in response to operator demand, at the control center for distribution systems or in substation automation systems.
- VVO optimally manages system-wide voltage levels and reactive power flow to enhance network efficiency and reduce power losses at both transmission and distribution network level
- ☐ The installation focuses on identified locations within Peninsular Malaysia that have the required reactive power demand. The current progress:

82% (as at Oct'21)

(560 MVAR by end 2021)



Management System

(ADMS)

- master system. ☐ The new system will be able to support new functions and requirements for
 - Grid of the Future e.g. integrated & automated outage restoration system, volt-var optimization, optimize distribution/grid's performance

■ ADMS is a new technology which will replace the current ageing SCADA

Note:

TNB SGI 2020 score: 62.5% (55th place)

GLOBAL RE EXPANSION; A VITAL MOVE TOWARDS ACHIEVING OUR SUSTAINABILITY COMMITMENTS



GLOBAL FOOTPRINT

Acquisition of 49% stake in 41.5MW Blyth offshore UK wind farm in October 2021

- Marks TNB's maiden entry into UK offshore wind market, showcasing TNB's capability and commitment to its Sustainability Pathway aspiration.
- Strategic partnership with EDF, capitalising on EDF's vast experience & capabilities in RE for future growth.

100% stake in VANTAGE RE

- Formation: 2021
- Capacity: 26.6MW in wind, 365MW in solar

100% stake in TRE

- Formation: 2018
- Growing TNB's utility business in SEA specifically in Singapore & Vietnam

30% stake in GMR

- Acquisition: 2016
- Capacity: 1,650MW in coal, 388MW in gas & 26MW in solar

30% stake in GAMA

- Acquisition: 2016
- Capacity: 853MW in gas, 131.5 in Hydro, 117.5MW in wind & 100mcm p.a. water conveyance (in Jordan)

6% stake in SHUAIBAH

- Acquisition: 2005
- Capacity: 1,190MW in IWPP & water desalination of 375.95mcm p.a.

New Energy Division established to advance international business commitments on:

- Defocusing on India and Pakistan through divestments.
- Expansion of RE in targeted markets, includes the UK, Europe and SEA.
- Strategic partnership with one of the leading RE players to leverage on their technological expertise.

INTERNATIONAL BUSINESS STRATEGY

Ground Zero

Value Protection & Value Creation for existing assets

Part of this strategy involves :

- Growing TNB's International RE business. Focused market in UK, Europe and SEA.
- Continue to drive initiatives to seek monetization options for our assets in India and other non-focus markets.
- Recently, TNB had divested on LPL and exited from Pakistan.

Ambition #1

RE Growth Strategy (UK/Europe)

- Grow TNB's Renewable Energy (RE) business in the UK and Europe via the Vantage RE Ltd (launched on 1st July 2021) by leveraging on existing assets, capabilities and experience to acquire operational assets with contracted revenues.
- Develop greenfield RE projects via an RE Development Co (ReDevCo) platform that could provide pipeline of future operational assets to Vantage RE Ltd.

Ambition #2

Grow Utility in South East Asia (SEA)

We foresee extensive potential in growing revenue and returns through greenfield development and M&A across the utility value chain in SEA, leveraging of TNB's core business experience and capabilities.

✓ Vietnam: We are currently finalising our acquisition of 39% stake from Sunseap in 21.6MW rooftop solar project which expected to be completed by 1QFY'22.

Ambition #3

Technology Catalyst

Future proofing TNB with the right technologies within the Energy Transition landscape to enhance capabilities and future growth.

LARGEST GENERATION COMPANY IN MALAYSIA; CONTINUOUS FOCUS ON DELIVERING EXCELLENCE SERVICE WHILE PURSUING NEW CLEAN ENERGY **GROWTH OPPORTUNITIES**



Contracted Capacity in Peninsular Malaysia



4 Coal Plants Capacity: 7.7GW

8 Gas Plants Capacity: 5.7GW

5 Hydro Schemes Capacity: 2.6GW

2 Solar Plants Capacity: 80.0MW

Pipeline: Nenggiri (300MW)

Bkt. Selambau 2 (50MW) COD: 1st June 2027 COD: 31st Dec 2023

Pipeline:

We Care for The Environment

Compliance with environmental policies

- ISO 14001:2015 Environmental Management System certification in GenCo operations
- The self-monitoring environmental management tool, Guided Self-Regulation (GSR), has been **implemented** across all divisions and subsidiaries.

Biodiversity Management

Carried out International Union for Conservation of Nature (IUCN)'s Red list programme to monitor and protect the biodiversity at two of our site:

- ☐ Hulu Terengganu hydro electric station: Ikan Kelah sanctuary
- ☐ Pergau hydro electric station: Fish resource management and Raflessia protection.

Coal Power Plant (Clean Coal Technology)

Adopting clean coal technology, through deployment of more efficient ultrasupercritical (USC) technology for new coal power plants. For example Manjung 4, Manjung 5 and JEP. We expect to be coal free by 2050.

Water and Waste Management

- Our power plants track water consumption on a monthly basis under a plant optimisation and waste minimization programme in compliance with ISO 14001:2015
- We also monitor the consumption of materials such as fuel and the discharge of effluents

GenCo Financial **Performance** (9MFY'21)

REVENUE

RM14,925.0 mil

EBITDA

RM2.977.1 mil

EBITDA Margin: 19.9%

PROFIT AFTER TAX

RM750.9 mil

3 Business Priorities Under GenCo

Performance

To deliver sustainable returns, we will ensure high availability and reliability for key assets by operating within PPA terms

Growth

To capture new clean and green opportunities plant-ups whilst growing our asset-light services

Efficiency

To deliver plant operational excellence by scaling up turnaround programs and uplifting productivity across the business

CREATING VALUE BY CAPTURING NEW OPPORTUNITIES IN TECHNOLOGY ADVANCEMENT



Objective

- To lead Malaysia's transition into low-carbon mobility through collaborative efforts with various stakeholders in the country.
- To capture growth in EV as well as part of the long-term solution to reduce GHG emissions, operate vehicles more efficiently and reduce oil dependency.
- We see huge potential in the High-Speed Broadband (HSBB) business for future nonregulated stream, riding on our fibre optic infrastructure.
- Currently we are expanding our fibre infrastructure to premises in Melaka, Perak, Kedah, Penang and Johor.
- We see potential in the rooftop solar industry which allow us to diversify our source of earnings while growing our renewable energy business.
- Our growth strategy is focusing on selected customer segments specifically in the commercial and industrial market while leveraging on the Government's existing program under Net Energy Meter (NEM) 3.0 and Self-Consumption (SelCo).

Current Progress / Development

TNB EV Charges

Stations, out of 223 stations available in Malaysia Signed Memorandum of Understanding (MOU) with Socar in Aug'21 to leverage on shared demand data on electric-vehicle (EV) usage in Malaysia.

Signed MOU with DHL in Jun'21 to explore a framework of greener supply chain that will focus on delivering environmentally friendly solutions which includes installing EV charging stations at DHL's KL service centre and its delivery routes.

Allo has expanded to around

110,000 premises

in Melaka, Perak & Kedah, out of ~150,000 premises targeted by end of 2021

Allo entered into a joint collaboration agreement with Singapore's SEAX Global Pte Ltd (SEAX) in May'21 to promote robust connectivity in Malaysia and neighboring countries, which it will leverage each other's existing infrastructure to provide faster and larger data transmission.

Secured a total capacity of

116.0 MW

out of total target of 576MW capacity by 2025

GSPARX & TNB Retail are in the middle in finalizing MoU and SARE agreement with some public universities and healthcare providers. These projects is expected bring more than 100MWp rooftop solar capacity for GSPARX and produce recurring income for 21 years.





Electric Vehicles





Note: Data as at Novt 2021

TNB'S SUSTAINABILITY PATHWAY SUPPORTS THE NATION'S CLIMATE COMMITMENTS, CONSIDER EXISTING RE TARGETS AND IN TANDEM WITH THE PENINSULAR MALAYSIA GENERATION DEVELOPMENT PLAN



Malaysia Climate Commitments

To reduce Greenhouse Gas (GHG) emissions intensity of gross domestic product (GDP) by 45% by 2030 relative to the 2005 baseline

MyClimate ActionCouncil (MyCAC)

- Development of a **"green recovery plan"**
- Strengthening the country's climate change governance
- Low Carbon Mobility Development Plan 2021 2030
- National Low Carbon City Master Plan

JPPPET* Peninsular
Malaysia Generation
Development Plan
2020 and RE capacity
targets of
31% by 2025 and
40% by 2035

- Peak Demand Projection
- Renewable Energy requirement & mix
- Energy Trilemma
- New Capacity Projection & Reserve Margin projection
- No new coal plants

TNB Sustainability Pathway 2050 **Targets** Aspire to achieve Net Zero by 2050 (in line with 1.5°C scenario), 35% emission intensity reduction by 2035 Aspire to achieve Zero Fatalities and LTIF** < 1.0 1% profit-after-tax (PAT) towards environmental and 3 community-related programmes ** LTIF - Lost time incident frequency **Strategic Pillars** Invest in Low Emission& **Green Technologies Future-proof** TNB's business Evolve the Grid & **Unlock New Energy Grow Renewables** revenue streams

^{*} Jawatankuasa Perancangandan Pelaksanaan Pembekalan Elektrik dan Tarif / Planning and Implementation Committee for Electricity and Supply Tariff

OUR DECARBONIZATION ROAD AHEAD IS PAVED BY REPOWERING TO CLEANER SOURCES





1 RE Target of 8300MW

- Build scale in renewable generation
- Improve thermal plant efficiency
- Acceleration of RE investment towards 2050



1 35% emission intensity reduction

2 Halve coal capacity



* Ramp up renewables energy: 8.3GW by 2025 & accelerate to 2035

- TNB's capacity renewal & expansion will come from lower emission sources e.g. gas and renewable energy
- Our international investments will increasingly focus on **Renewable**Energy and emerging green technologies



Net Zero Emission and Coal-Free

TNB continues to invest in R&D on emerging energy technologies

* Strategic partnerships both locally & internationally

TNB will focus on pursuing emerging green technologies & partnerships today, as the technologies are expected to become commercially-viable in the 2030s

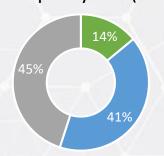
Note:

Our action plans above would be subject to economic feasibility assessment

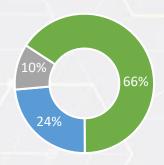
- ¹ renewables capacity includes large hydro plants
- ² from the base of 2021 emission intensity

Our Generation Portfolio Journey





TNB Capacity mix (2035)



Renewable Non coal thermal Coal

.) Repowering roadmap

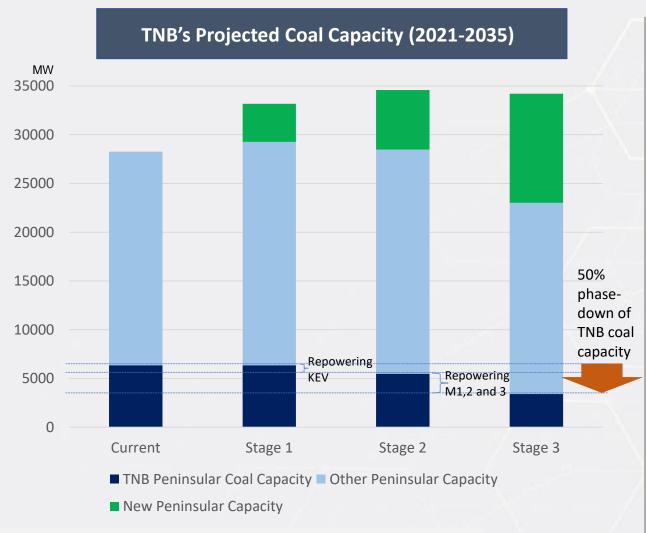
- Our journey towards 35% emission intensity reduction begins with Reimagining TNB(RT). We expect the renewables build under RT to deliver a 5% reduction in our emission intensity² by 2026.
- By early 2030s, we expect our repowering efforts to enable a further 18% reduction in our emission intensity²
- The remaining 12% to be achieve by the end of 2035 through the expiry of 2GW of coal capacity PPAs

2) Renewables growth

- Growing our renewables capacity would be necessary to achieve our aspiration of 35% emission intensity reduction by 2035
- We expect to grow an average of 1GW of renewables capacity per year to ensure that 66% of our capacity is made up by renewables energy sources

WE ARE PLANNING OUR CAPACITY RENEWAL AND EXPANSION WHILE PREPARING TO PHASE DOWN OUR COAL ASSETS





Note:

- The Peninsular Power system will be building 6 GW new capacity in addition to repowering of expiring capacity up to 2035¹. This presents opportunities to expand our generation business in both non-coal thermal and RE.
- TNB plans to extend its dominance in the Peninsular Generation sector through the following:
 - Delivering the most competitive bids for each new capacity
 - Ensure win-win repowering proposals of our coal assets
 - ☐ Extending the life of our existing hydro power plants
 - Build on our existing partnership with Sunseap and EDF to scale our renewables growth within Malaysia
- Leading to 2035, we target to repower our 50% of our coal assets; Kapar Energy Ventures and Janamanjung (Unit M1-M3) as part of our commitment to a greener Malaysia.
- The capacity renewal of our thermal assets would come from the latest gas turbine technologies², in line with Malaysia Generation Development Plan 2020 plans to ensure supply reliability whilst contributing to the national efforts to reduce emissions.

¹ Report on P. Malaysia Generation Development Plan 2020 (2021 – 2039)

² Subject to final Government of Malaysia approval

THE PACE OF TECHNOLOGY DEVELOPMENT HAS INCREASED SIGNIFICANTLY, THUS WE RECOGNIZE THAT LEVERAGING ON PARTNERSHIPS AND COLLABORATION WILL BE CRITICAL FOR THE LONG RUN



TNB RESEARCH (TNBR) PROGRAMS	DESCRIPTION
Carbon Capture	 TNBR is committed in providing comprehensive technical and economic assessment of CCU since 2011 as they focus on technology development of capturing CO₂ from our thermal power plant (coal fired and gas fired) and utilisation of the captured CO₂ by converting into valuable outputs . The research & development (R&D) program covers Chemical Approach Carbon Capture, Biological Approach Carbon Capture and Carbon Utilisation.
and Utilisation	• CCU is one of the key technologies that can reduce emissions from fossil fuels on a significant scale. This technology is critical in aligning ourselves with the global energy transition as well as achieving our aspiration of net zero emission by 2050.
Green Hydrogen	 TNBR is focusing on providing technical and economic assessment of green hydrogen production as the production of hydrogen via sustainable energy will ensure the production of the energy would not emit carbon dioxide into the atmosphere. Current R&D include alternative method for green hydrogen such as production through two stage Anaerobic Digestion (TSAD) process of organic waste e.g. palm oil mill effluent and food waste.
, 0	 Green Hydrogen project will support TNB's aspiration to be the leading provider of sustainable energy solution in Malaysian and internationally.
(J) (J)(G) Virtual Pilot Plant Technology	 TNB is piloting a Virtual Pilot Plant (VPP) technology that utilizes software and energy storage that will enable the future peer-to-peer generation amongst energy prosumers (a consumer who produces and consumes energy).
Ammonia	TNB with IHI Corp (Japan) and PETRONAS had formed a joint study into Co-Firing Ammonia at coal power stations to reduce carbon emissions. Ammonia is viewed as the most viable carrier of Hydrogen to be used as fuel.

Our Partnership



TNB has invested and taken a 49% stake of an Offshore Wind Farm in Blyth UK with EDF of France. This marks TNB's first entry into Wind Turbine Technology with a established partner.



Electric Vehicle (EV)

TNB has signed MoU's with DHL, SOCAR and Sime Darby Motors to explore various initiatives to accelerate the adoption of electric vehicles (EV).



TNB via GSPARX has collaborated with Jabatan Kerja Raya (JKR) to install solar PV system while currently finalizing with some public universities and healthcare providers.

We are allocating 3.5% of our forecasted PAT for our R&D activities from FY2022 onwards

WE ARE COMMITTED TO CONTRIBUTE 1% OF PROFIT-AFTER-TAX TOWARDS ENVIRONMENTAL AND COMMUNITY-RELATED PROGRAMMES



ECONOMIC & SOCIAL TRANSFORMATION







FY2020 Contributions RM173.9 million

- Covid-19 Response Aid (MOH & State Government)
- Baiti Jannati & Mesra Rakyat
- Better Brighter Shelter
- TNB Reskilling Malaysia Initiative

ENVIRONMENTAL SUSTENANCE PROGRAMMES







- Tree for Tree
- Firefly Conservation
- Mangrove Planting Programme
- Green Energy Development Fund

TRANSFORMING LIVES THROUGH EDUCATION







- My Brighter Future
- Yayasan Tenaga Nasional
- Trust School
- Ceria Ke Sekolah
- Better Brighter Vision







Global CSR Awards 2020

Platinum – Best Environmental Excellence

Award

Gold – Best Community Programme
Award

Silver – Excellence in Provision for Literacy & Education Award

(Please refer TNB 2020 Integrated Annual Report & Sustainability Report for further details)

RECOGNISED GLOBALLY FOR OUR CONTINUOUS COMMITTMENT TO OPERATE AS A SOCIALLY AND ENVIRONMENTALLY RESPONSIBLE ORGANISATION



Our sustainability disclosure are based on Bursa Malaysia's Main Listing Requirements and global disclosure frameworks:

- Bursa Malaysia Sustainability Reporting Guide (2nd Edition)
- Task Force on Climate-related Financial Disclosures (TCFD) framework
- GRI Electric Utilities Sector Disclosures
- United Nations Sustainable Development Goals (UN SDGs)



ESG Rating - 3.0

Rating: 0 to 5 (5 represents the highest score)



ESG Rating - BBB

Rating: CCC-AAA (AAA represents the highest score)



Australasian Reporting Awards 2021

- TNB was conferred Gold Award for the 4th time
- TNB received a Silver Award for sustainability reporting

FORWARD GUIDANCE



Electricity Demand 2021

Forecasted at 2.9%, in line with GDP projection of 3.0% to 4.0%

RP3 (2022 - 2024)

Final stage discussion with Energy Commission

CAPEX 2021

Total: RM9.5bil

Regulated Recurring: RM7.3bil

Others: RM2.2bil

Non-Regulated Business

Strengthen existing and explore new revenue streams

5 low carbon ventures MOUs signed

Sustainability Pathway

Continuously ramping up our sustainability efforts towards achieving our net zero emission aspiration by 2050

Dividend

Continue to honour our dividend policy of 30% - 60% dividend payout ratio, based on adjusted PATAMI

APPENDIXES





INCENTIVE BASED REGULATION (IBR)



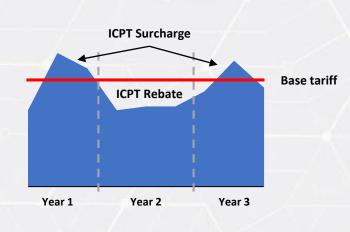
Base Tariff

Base tariff is determined by the regulator for every 3 years*, taking into account:

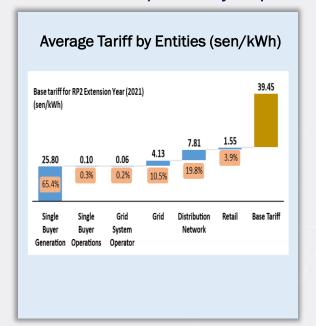
- OPEX, depreciation of regulated assets & tax expenses of regulated entities -Transmission, Grid System Operator, Single Buyer operation, Distribution Network and Customer Services/Retail
- ii. Power purchase cost charged by generators to the Single Buyer
- iii. Return on regulated assets (rate base) of regulated entities

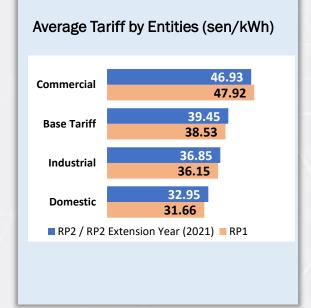
Imbalance Cost Pass-Through (ICPT)

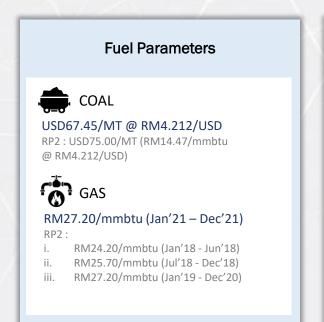
ICPT is 6-monthly pass-through mechanism of variations in uncontrollable fuel costs and other generation specific costs (imbalance cost) incurred by utility for the preceding 6-month period

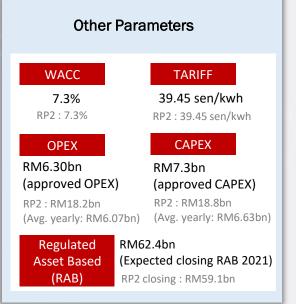


RP2 extension / interim year parameters









^{*} Current regulatory period, RP2 extension/interim year, is a one-year extension of RP2. The decision by EC was made due to the uncertainty in demand outlook for 2021 and the instability of the current global fuel markets following the COVID-19 pandemic.

REGULATORY PERIOD





RP2 Extension / Interim Year

- ➤ The Government has approved a one-year extension of the Second RP2 of the IBR for year 2021.
- ➤ This decision was made following the uncertainty in demand outlook for 2021 and the instability of the current global fuel markets following the COVID-19 pandemic.

RP3 Update

➤ We are currently in the final stage of discussions with the Energy Commission and the ministry.

ICPT surcharge and rebate position

ICPT	Surcharge / (Rebate)	Implementation Period
Jan – Jun'18	1.35sen/kWh	Jul – Dec'18
Jul – Dec'18	2.15sen/kWh	Jan – Jun'19
Jan – Jun'19	2.55sen/kWh	Jul – Dec'19
Jul – Dec'19	2.00sen/kWh	Jan – Jun'20
Jan – Jun'20	0.00sen/kWh	Jul – Dec'20
Jul – Dec'20	(2.00sen/kWh)	Jan – Jun'21
Jan – Jun'21	(2.00sen/kWh)	Jul – Dec'21
Jan – Jun'21	(2.00sen/kWh)	Jul – Dec'21

RENEWABLE ENERGY INVESTMENTS



TNB's RE Capacity: 3,475MW (as of Nov'21)

WIND 186 MW

朴

International:

UK (TNB Wind Ventures): 68 MW

Turkey (GAMA): 118 MW

SOLAR 587 MW



International:

UK (Vortex): 365 MW

India (GMR): 26MW

Domestic:

Large scale solar: 80 MW

Rooftop PV: Total 116.0 MW (secured capacity)

BIOGAS & BIOMASS 13 MW



Domestic:

■ Biogas: 3MW

Biomass: 10MW

HYDRO 2,690 MW



International:

Turkey (GAMA): 131.5 MW

Domestic:

Large Hydro: 2,536 MW

Mini Hydro: 22 MW

TNB's RE Strategy

International

- 1) Renewable Energy Driver (UK / Europe)
- 2) Growing TNB's utility business in South East Asia (SEA)
- 3) Technology Catalyst

Focus Market

- TNB's growth strategy will focus on selected growth markets and regions where we have presence (UK, Europe and South East Asia) and specific asset classes/technology that are key to the Energy transition.
- The country selection is based on fit to TNB strategy, elimination of high-risk countries, power growth, market attractiveness and openness to foreign investments.

Domestic

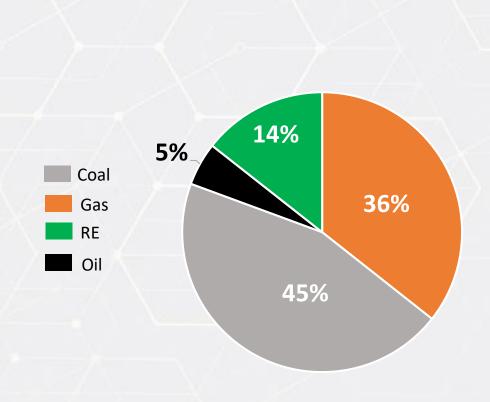
- 1) Win LSS Largest driver which focuses on winning local LSS bids, exploration of new entry points through NEDA and Green Corporate PPA as well as expansion on Asset Management Services.
- 2) Secure Small RE Focus on mini hydro, biogas and waste to energy through the existing Feed-In Tariff Scheme and other initiatives.
- **3) Distributed generation / rooftop solar** To be the top solar distributed generation provider in Malaysia through GSPARX, with end to end delivery.

GROUP INSTALLED CAPACITY



Capacity as at Nov'21 (MW)

Fuel Type	Domestic	International	Total
Gas	7,024.4	1,476.0	8,500.4
Coal	9,080.0	1,650.0	10,730.0
Oil	-	1,190.0	1,190.0
Hydro	2,536.1	131.5	2,667.6
Wind	-	185.6	185.6
Solar	80.0	391.0	471.0
Total	18,720.5	5,024.1	23,744.6
Mini Hydro	21.8		21.8
Biogas	3.2	-	3.2
Biomass	10.0		10.0
Rooftop solar (secured)	116.0	-/	116.0
Total inclusive small RE	18,871.5	5,024.1	23,895.6



Note: Gross installed capacity (include minority stakes), exclude SESB

IN THE NEAR TERM, WE CONTINUE TO SUPPORT AND BUILD TOWARDS ENERGY TRANSITION



Transmission system enhancements

Improving network intelligence to enable energy transition



Asset Investment Planning Enhancements

85% of planned system upgrade completed (Q3)



Grid Project Management Enhancements

100% of planned system upgrade completed (Q3)



Advance Fault Analysis System

70% of planned development work completed (Q3)

Distribution system enhancements

Smart Grid Index (SGI) 2025 target: 85% (2020: 62.5%)

Deliver a resilient, reliable system with bidirectional energy flow.



Advanced Metering Infra (AMI)

86% of annual AMI installation completed (Q3)



Advanced Distribution Management System (ADMS)

66% of planned upgrades completed (Q3)



Volt-Var Optimisation

of annual MVAR capacity optimized (Q3)

Retail service enhancements



26% Share of domestic district cooling system market (Q3)

*refrigeration ton

District Cooling System (DCS) Expansion through TNEC

- TNB has been actively involved (since 1993) in providing district cooling solutions to customers.
- DCS technology is capable of reducing 20% 35% overall building energy consumption when compared to a standard air-conditioning system.
- In July 2021, TNB (through TNEC) has commenced its operation of the existing KLIA Cogeneration plant for a 20-year concession.
- TNB is now the main cooling energy supplier for both KLIA and KLIA2, and one of the largest domestic DCS player.

VERTICALLY INTEGRATED UTILITY COMPANY SERVING MORE THAN 9.0MIL CUSTOMERS THROUGHOUT PENINSULA MALAYSIA



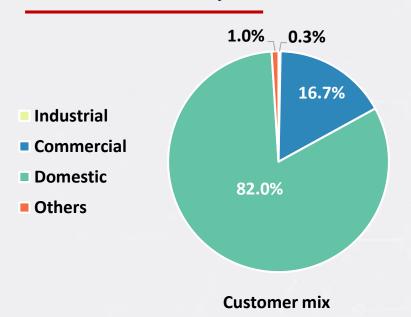


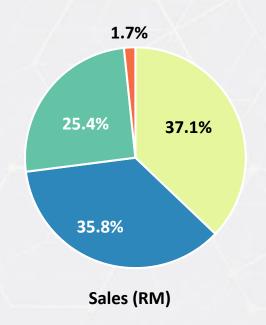


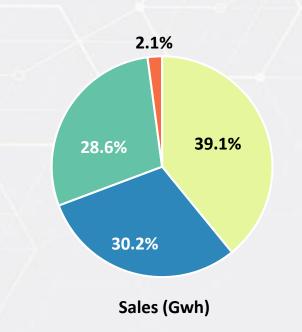




TNB Sectoral Sales Analysis*





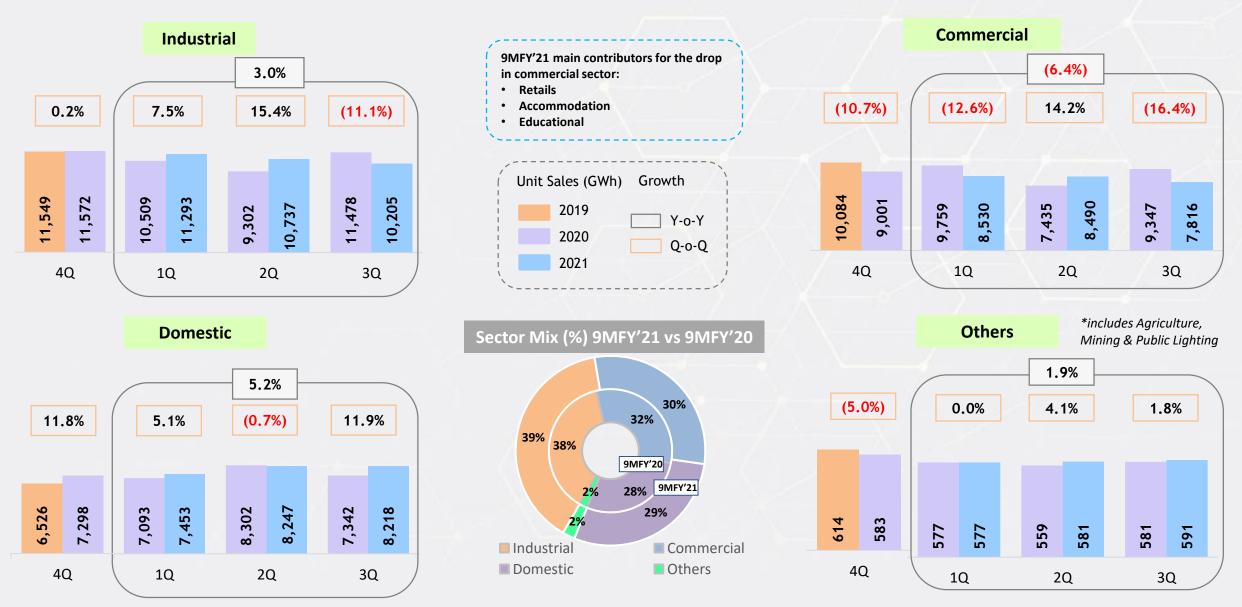


Note: Data / Info as at Sep 2021

^{*} Peninsular Malaysia only (TNB exclude SESB and other subsidiaries)

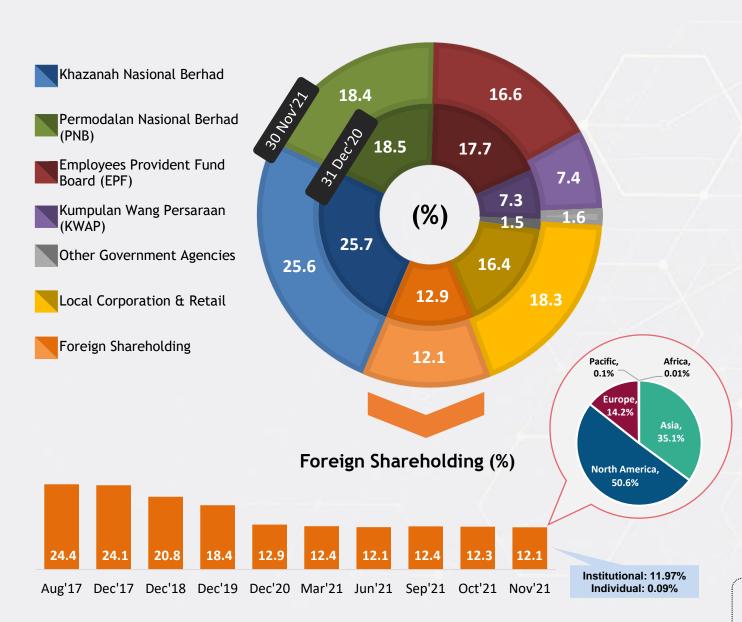
HIGHER Y-O-Y ELECTRICITY DEMAND IMPROVED DUE TO RESUMPTION OF BUSINESS OPERATION



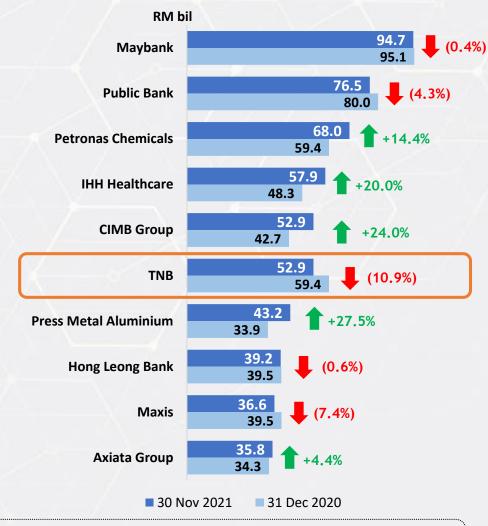


TNB MARKET CAPITALISATION OF RM52.9BIL AS AT 30 NOVEMBER 2021





Top 10 KLCI Stocks by Market Capitalisation



Note:

- 1. Top 10 KLCI ranking by Market Capitalisation as at 30th November 2021
- 2. TNB Latest Market Cap: RM53.4bil (6th), as at 31st December 2021

THANK YOU

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