

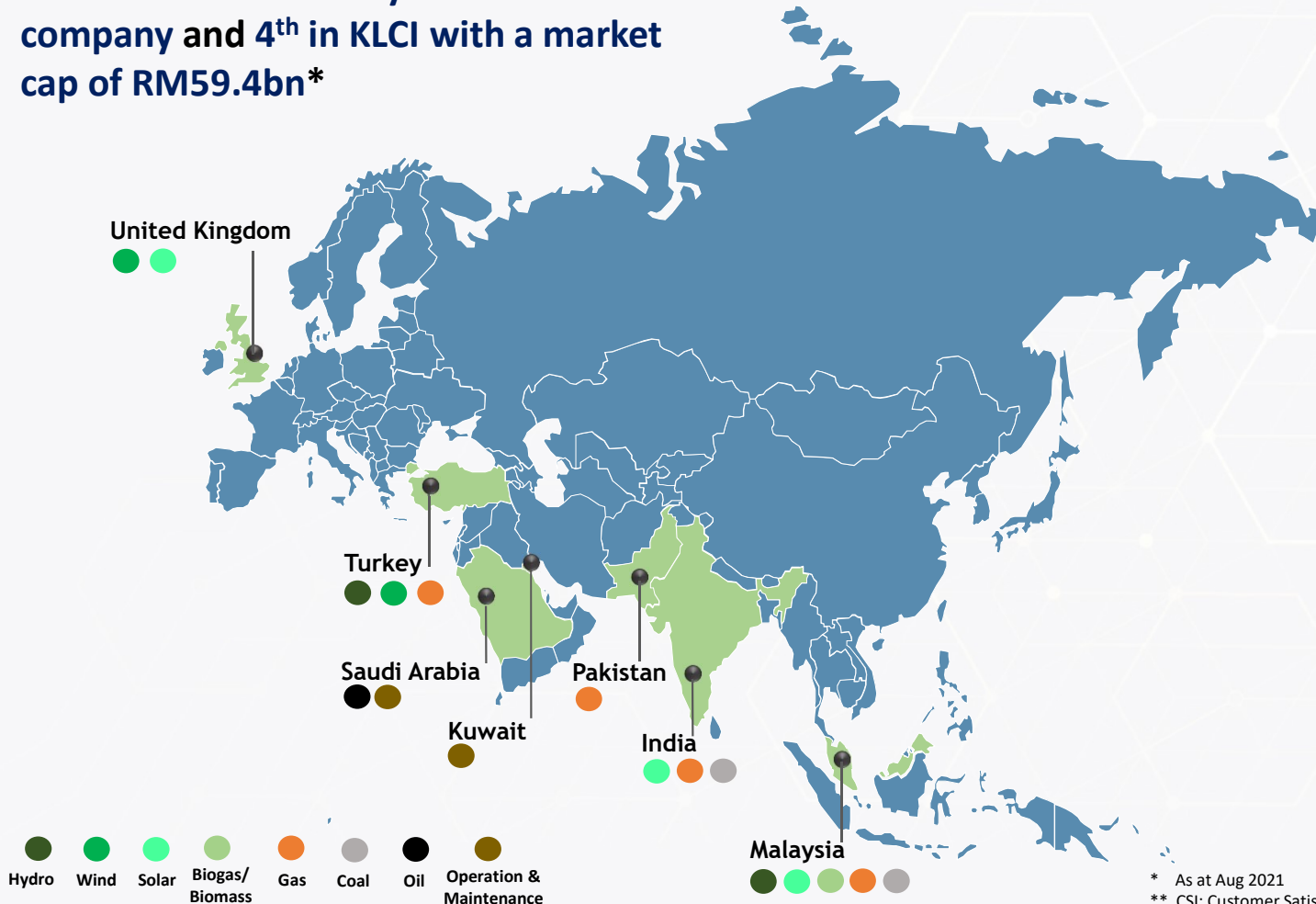
TENAGA NASIONAL BERHAD

INVESTOR PRESENTATION



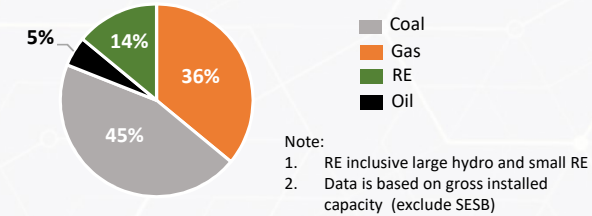
A LEADING UTILITIES COMPANY IN MALAYSIA

We ranked 1st in Malaysia for Utilities company and 4th in KLCI with a market cap of RM59.4bn*



Generation Business (Group)

Total Installed Capacity: 23,841MW*



TNB Grid & Retail Business (Peninsular Malaysia)



Transmission length: 27,548 KM
Substations: 510
System Minutes: 0.03



Distribution Network: 703,312 KM
Substations: 85,127
SAIDI : 21.91 minutes



Retail customers: 9.5 mil
CSI**:86%

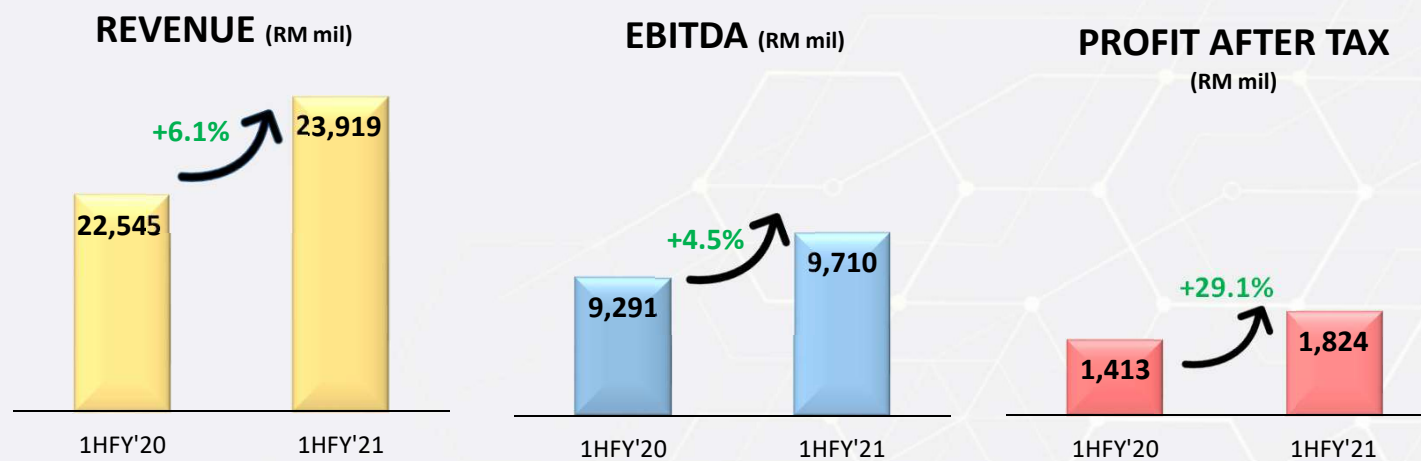
Main Subsidiaries



* As at Aug 2021

** CSI: Customer Satisfaction Index

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)



83.78%
1HFY'20: 88.17%
2021 Target: 86.1%

System Minutes
(Transmission)



0.03 mins
1HFY'20 : 0.01 mins
2021 Target: 2.0 mins

SAIDI
(Distribution Network)



21.91 mins
1HFY'20 : 22.10 mins
2021 Target: 55.0 mins

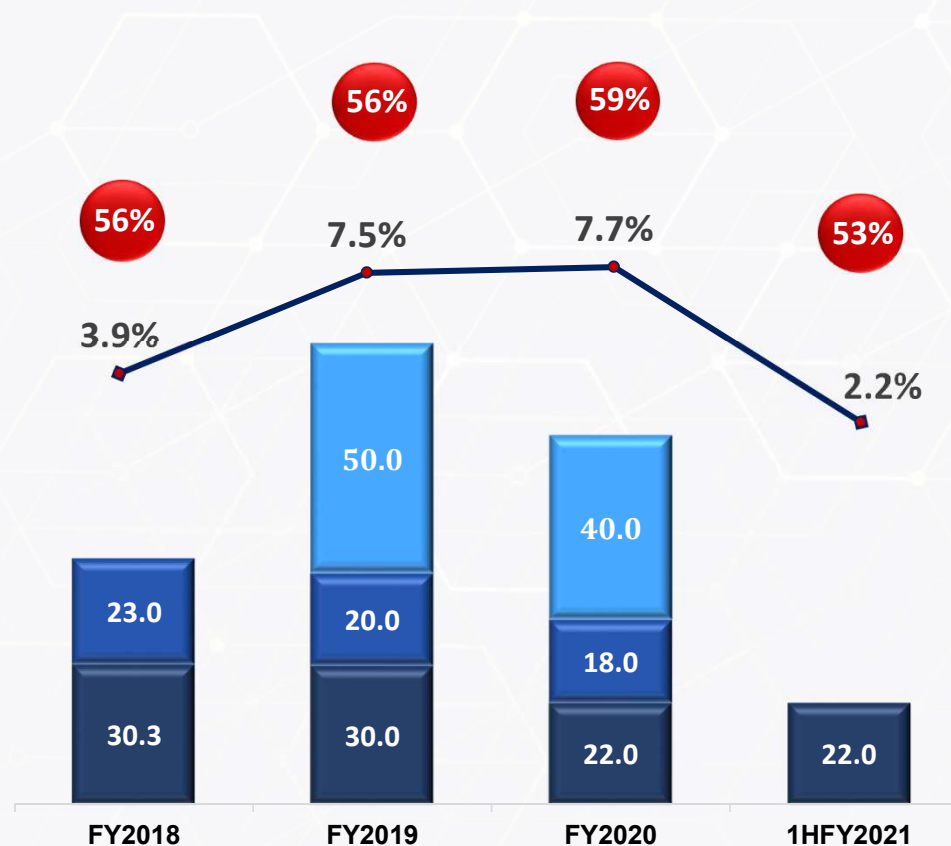
A RESILIENT FINANCIAL PERFORMANCE AND ROBUST CAPITAL MANAGEMENT HAS AFFORDED US TO CONTINUE REWARDING OUR SHAREHOLDERS WITH ATTRACTIVE DIVIDENDS



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 Jun'21	31 st Dec'20
Total Debt (RM Bil)	49.2	49.5
Gearing (%)	46.2	46.3
Net Gearing (%)	35.1	33.7



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

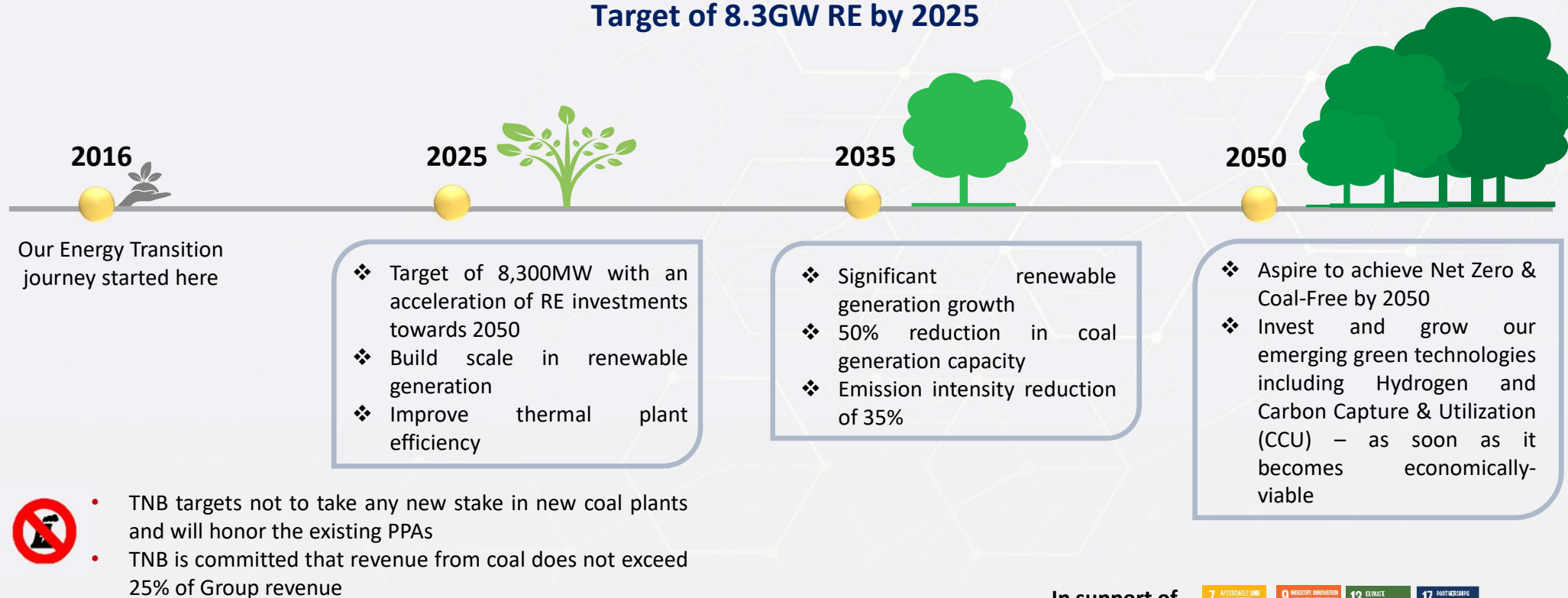
● Dividend Payout ratio (%) (based on Adjusted Group PATAMI and excluding special dividend)

Note:
Dividend yield for 1HFY2021 is based on 6-month basis with share price as of 30th June 2021

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
Commitment of 35% reduction of our emission intensity by 2035
Target of 8.3GW RE by 2025



Note:
Emission intensity (tCO₂e/MWh) = Annual Emission (million tCO₂e) / Annual Energy Generated (MWh)

In support of
UN SDGs



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
- 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

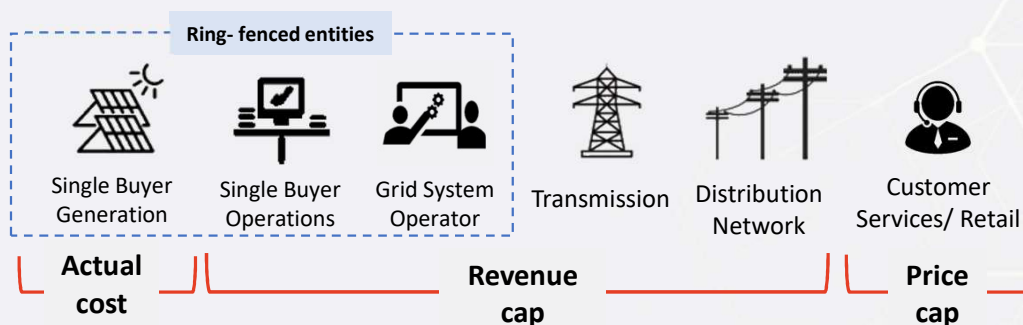
2021 Focus:

- 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:

- 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.

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

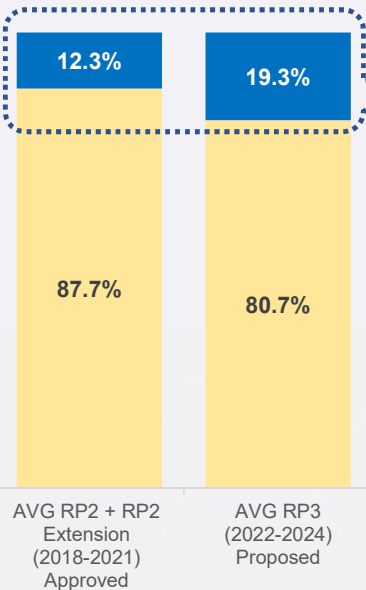


Towards becoming a Smart Utility by 2025 Our target : Achieve Smart Grid Index (SGI) of 85% by 2025

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

Regulated CAPEX to support Energy Transition

CAPEX for ET
+7%



- 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 ensure supply reliability while embracing our sustainability agenda

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

Major projects related to ET



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



- 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:

0% **76% (as at Aug'21)** 100%
(586 MVAR by end 2021)



- 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.
- Smart meters installation progress:

0% **79% (as at Aug'21)** 100%
(1.8 mil units by end 2021)



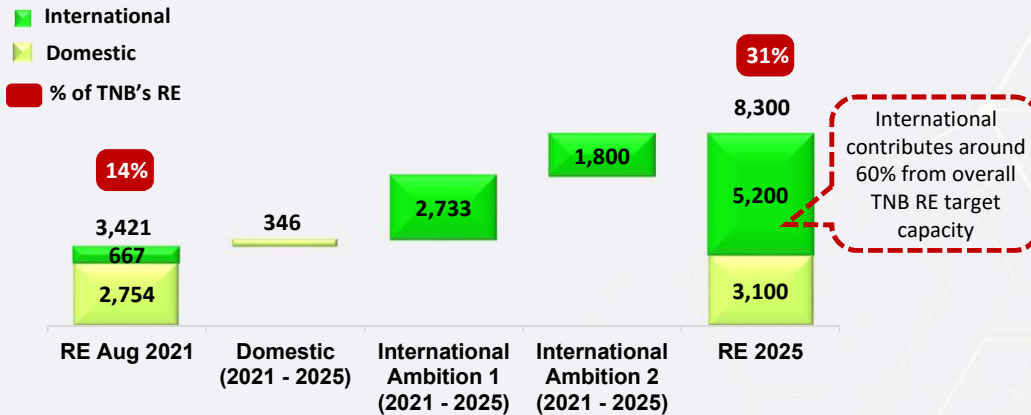
- Replacement of traditional high pressure sodium vapor (HPSV) street lightings with light emitting Diode (LED) which are cost efficient (longer lifespan), lower electricity consumption and more environmental friendly.
- LED street lightings replacement progress:

0% **95% (as at Aug'21)** 100%
(570,000 units by end 2021)

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



RE TARGET BY 2025 (MW)



GLOBAL FOOTPRINT

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.

100% stake in LPL

- **Acquisition:** 1995
- **Capacity:** 235MW in gas IPP

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 i.e. Liberty Power Limited

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.

- ✓ **Singapore:** We are currently finalizing the shareholder's agreement to secure corporate PPAs in partnership with Sunseap and jointly bid (with Sunseap) for 100MW cross-border energy supply trial by Energy Market Authority.
- ✓ **Vietnam:** We are currently finalising our acquisition of 39% stake from Sunseap in 21.6MW rooftop solar project which expected to be completed by 4QFY'21.

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)
COD : 1st June 2027

Pipeline:
Bkt. Selambau 2 (50MW)
COD : 31st Dec 2023

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.

Coal Power Plant (Clean Coal Technology)

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

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 Raflesia protection.

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

REVENUE

1HFY'21: RM9,756.7mil

1QFY'21: RM4,656.9mil
2QFY'21: RM5,099.8mil

EBITDA

1HFY'21: RM2,166.6mil

EBITDA Margin: 22.2%

1QFY'21: RM965.5mil
2QFY'21: RM1,201.1mil

PROFIT AFTER TAX

1HFY'21: RM871.8mil

1QFY'21: RM570.1mil
2QFY'21: RM301.7mil

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 plant-ups opportunities 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



Electric Vehicles

- 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.



Broadband Business

- We see huge potential in the High-Speed Broadband (HSBB) business for future non-regulated stream, riding on our fibre optic infrastructure.
- Currently we are expanding our fibre infrastructure to premises in Melaka, Perak, Kedah, Penang and Johor.



Rooftop Solar Solutions

- 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

73

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

92,000 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

103.0 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.

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 Action Council (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

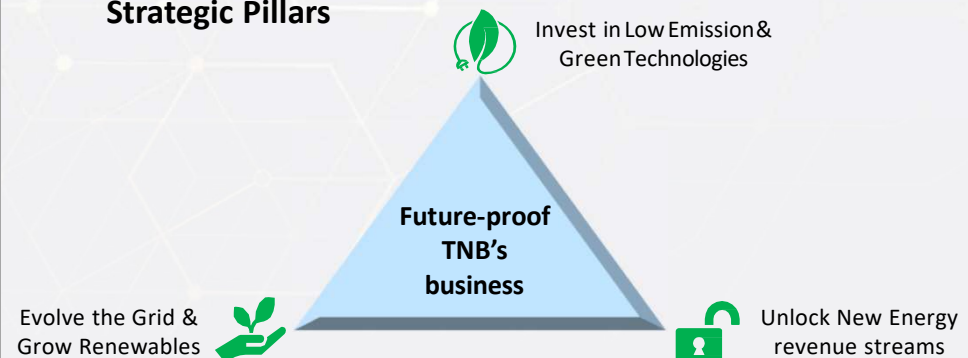
TNB Sustainability Pathway 2050

Targets

- 1 Aspire to achieve Net Zero by 2050 (in line with 1.5°C scenario), 35% emission intensity reduction by 2035
- 2 Aspire to achieve Zero Fatalities and LTIF** < 1.0
- 3 1% profit-after-tax (PAT) towards environmental and community-related programmes

** LTIF - Lost time incident frequency

Strategic Pillars




* Jawatankuasa Perancangan dan Pelaksanaan Pembekalan Elektrik dan Tariff / Planning and Implementation Committee for Electricity and Supply Tariff

PIONEERING EMERGING TECHNOLOGIES IS KEY IN NET ZERO EMISSION JOURNEY



By 2035:




- 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**
- ❖ **Grid of the Future & Digitalization**
- ❖ **Winning the Customer by expanding beyond KWH services**
- ❖ **TNB's Ways of Working Sustainably (WoWS)** - Group-wide plan on ways of working to help bring down environmental footprint

The commitment to 2035 **leverages known and proven technologies** and therefore provides a predictable pathway & anticipated returns

By 2050:





- 1 **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

- We will **review our commitments annually in our Annual Planning Cycle** & accelerate commitments going forward
- We will **continually update our stakeholders** & the market as we charts the transition pathway for the next 30 years

RESEARCH PROGRAMS UNDER TNBR ON EMERGING TECHNOLOGIES

TNB RESEARCH (TNBR) PROGRAMS	DESCRIPTION
 <p>Carbon Capture and Utilisation</p>	<ul style="list-style-type: none"> TNBR has been working on Carbon Capture and utilization (CCU) technology since 2011. The team is committed in providing comprehensive technical and economic assessment of CCU 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: <ol style="list-style-type: none"> Chemical Approach Carbon Capture Biological Approach Carbon Capture Carbon 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.
 <p>Green Hydrogen</p>	<ul style="list-style-type: none"> 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. Green Hydrogen project will support TNB's aspiration to be the leading provider of sustainable energy solution in Malaysian and internationally.

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



ECONOMIC & SOCIAL TRANSFORMATION



ENVIRONMENTAL SUSTENANCE PROGRAMMES



TRANSFORMING LIVES THROUGH EDUCATION



FY2020 Contributions RM173.9 million

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

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

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



- ✓ 2020 **Brand of The Year Award** (4th time)
- ✓ Sustainability & CSR Malaysia Awards
Company of the Year Award Overall Excellence
- ✓ 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 COMMITMENT 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

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

APPENDIXES



INCENTIVE BASED REGULATION (IBR)

Base Tariff

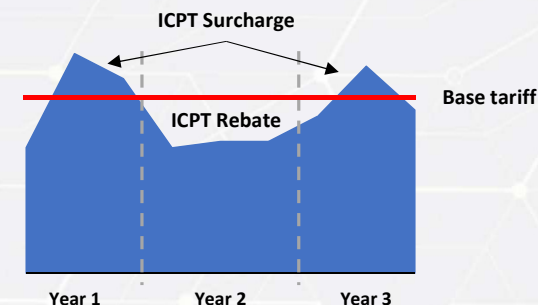
Base tariff is determined by the regulator for **every 3 years***, taking into account:

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

* 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.

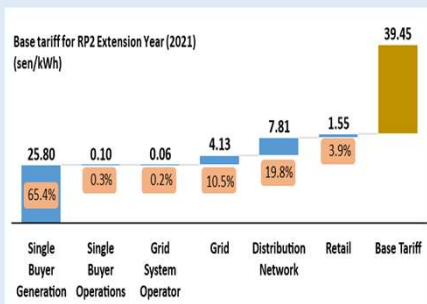
Imbalance Cost Pass-Through (ICPT)

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

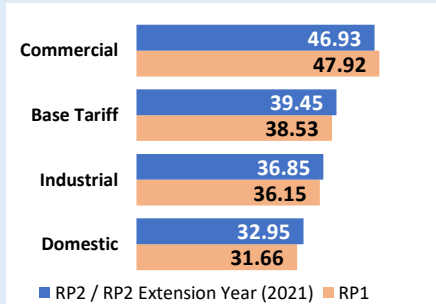


RP2 extension / interim year parameters

Average Tariff by Entities (sen/kWh)



Average Tariff by Entities (sen/kWh)



Fuel Parameters



COAL

USD67.45/MT @ RM4.212/USD
 RP2 : USD75.00/MT (RM14.47/mmbtu @ RM4.212/USD)



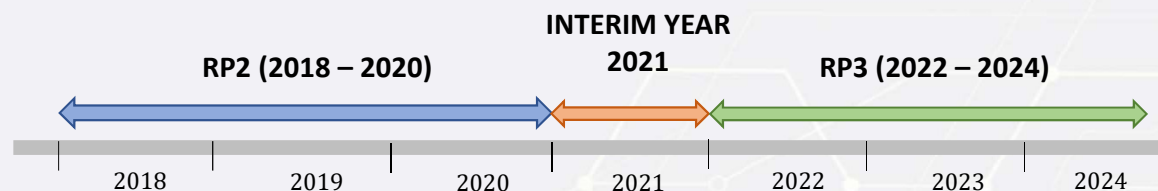
REGULATED GAS

RM27.20/mmbtu (Jan'21 – Dec'21)
 RP2 :
 i. RM24.20/mmbtu (Jan'18 – Jun'18)
 ii. RM25.70/mmbtu (Jul'18 – Dec'18)
 iii. RM27.20/mmbtu (Jan'19 – Dec'20)

Other Parameters

WACC	TARIFF
7.3%	39.45 sen/kwh
RP2 : 7.3%	RP2 : 39.45 sen/kwh
OPEX	CAPEX
RM6.30bn (approved OPEX)	RM7.3bn (approved CAPEX)
RP2 : RM18.2bn (Avg. yearly: RM6.07bn)	RP2 : RM18.8bn (Avg. yearly: RM6.63bn)
Regulated Asset Based (RAB)	RM62.4bn (Expected closing RAB 2021)
	RP2 closing : RM59.1bn

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 have submitted RP3 proposal to the Energy Commission (EC) on 26th February 2021. Currently, we are in the midst of discussion with Energy Commission (EC) in regards to RP3. TNB to continue to pursue the right returns, as under investments (due to insufficient returns) could potentially risk the reliability of the network, fail to meet the growing and changing needs of customers and disrupt Malaysia's energy transition efforts.

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

RENEWABLE ENERGY INVESTMENTS



TNB's RE Capacity: 3,421MW (as of Aug'21)

WIND
144 MW



International:

- UK (TNB Wind Ventures): 26 MW
- Turkey (GAMA): 118 MW

SOLAR
574 MW



International:

- UK (Vortex): 365 MW
- India (GMR): 26MW

Domestic:

- Large scale solar: 80 MW
- Rooftop PV: Total 103 MW (secured capacity)

BIOGAS & BIOMASS
13 MW



Domestic:

- Biogas: 3MW
- Biomass: 10MW

HYDRO
2,689 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

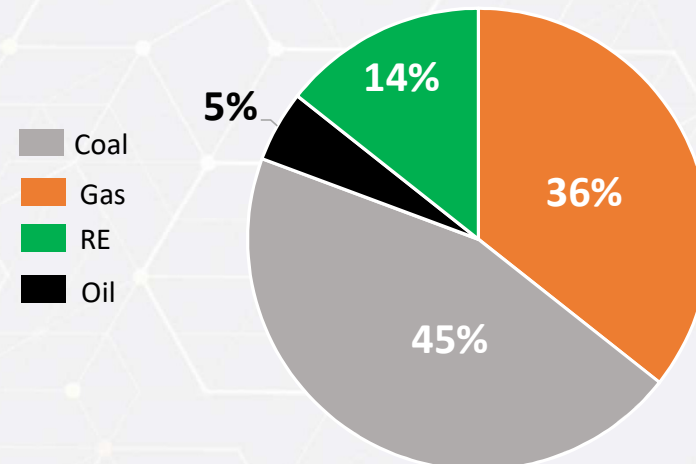
- 1) **Win LSS** - Largest driver which focuses on winning local LSS bids, exploration of new entry points through NEDA and Green Corporate PPA as well as expansion on Asset Management Services.
- 2) **Secure Small RE** - Focus on mini hydro, biogas and waste to energy through the existing Feed-In Tariff 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



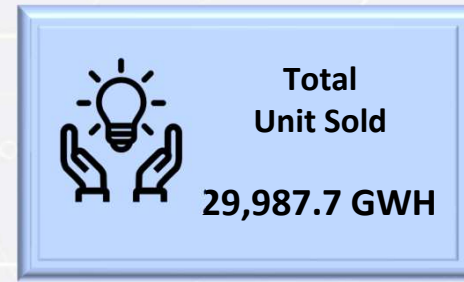
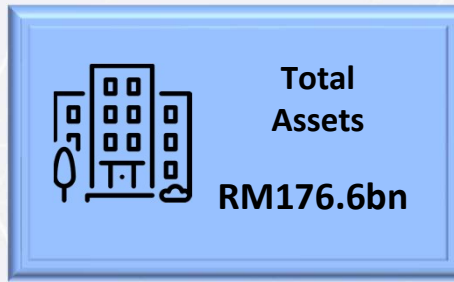
Capacity as at Aug'21 (MW)

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
Hydro	2,536.1	131.5	2,667.6
Wind	-	144.1	144.1
Oil	-	1,190.0	1,190.0
Solar	80.0	391.0	471.0
Total	18,720.5	4,982.6	23,703.1
Mini Hydro	21.8	-	21.8
Biogas	3.2	-	3.2
Biomass	10.0	-	10.0
GSPARX (secured)	103.0	-	103.0
Total inclusive small RE	18,858.5	4,982.6	23,841.1

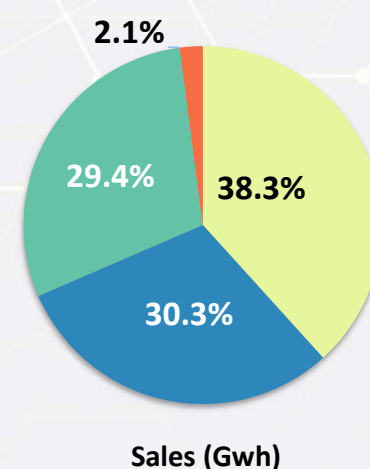
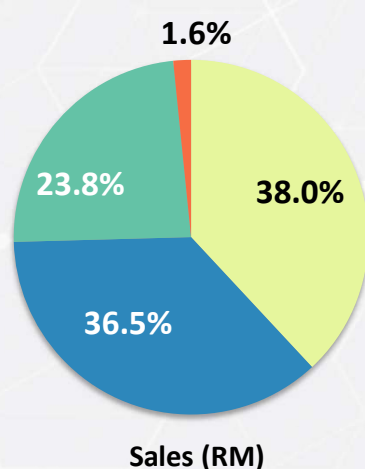
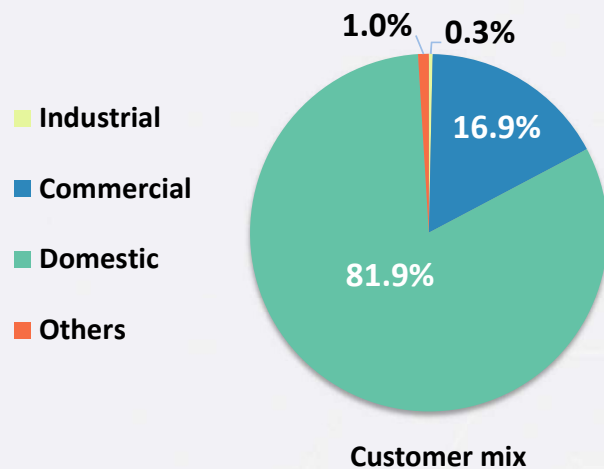


Note: Gross installed capacity (include minority stakes), exclude SESB

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



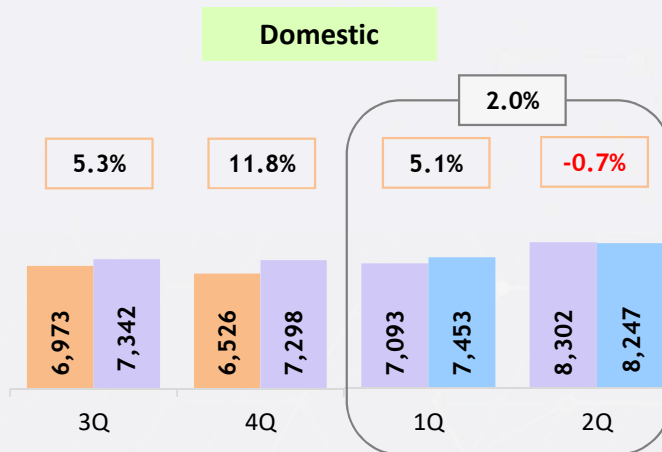
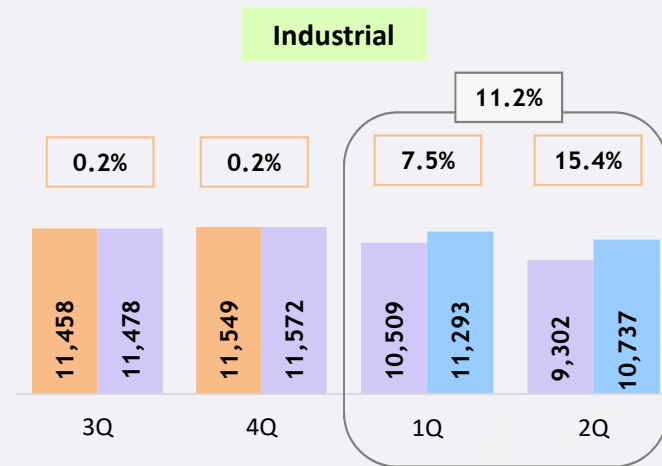
TNB Sectoral Sales Analysis*



Note: Data / Info as at June 2021

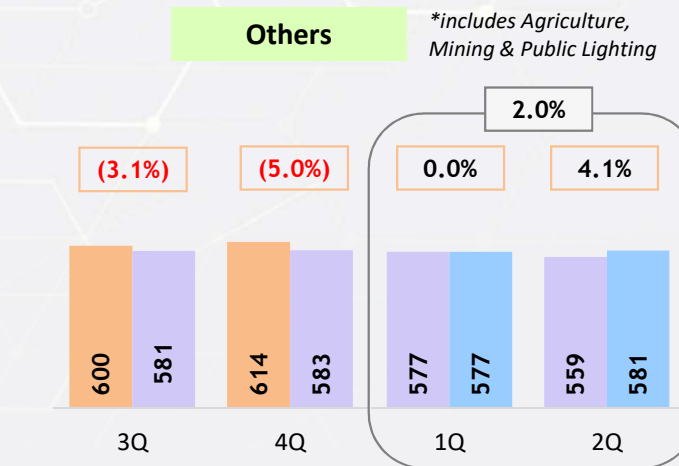
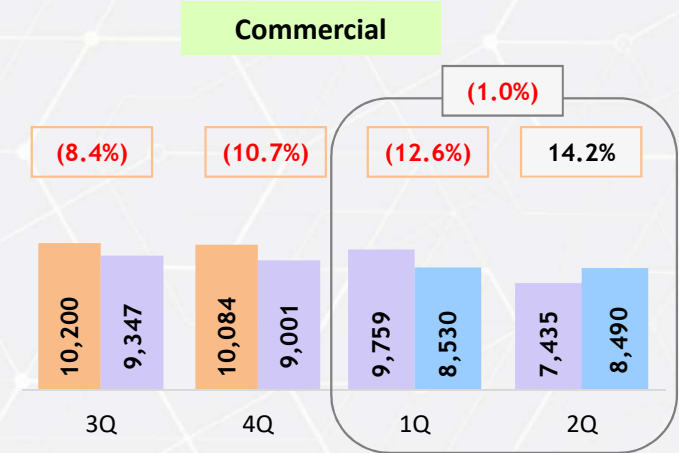
* Peninsular Malaysia only (TNB exclude SESB and other subsidiaries)

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

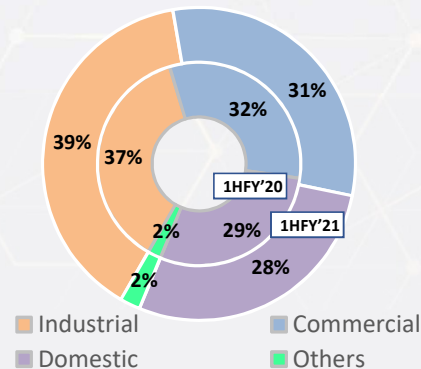


1HFY'21 main contributors for the drop in commercial sector:

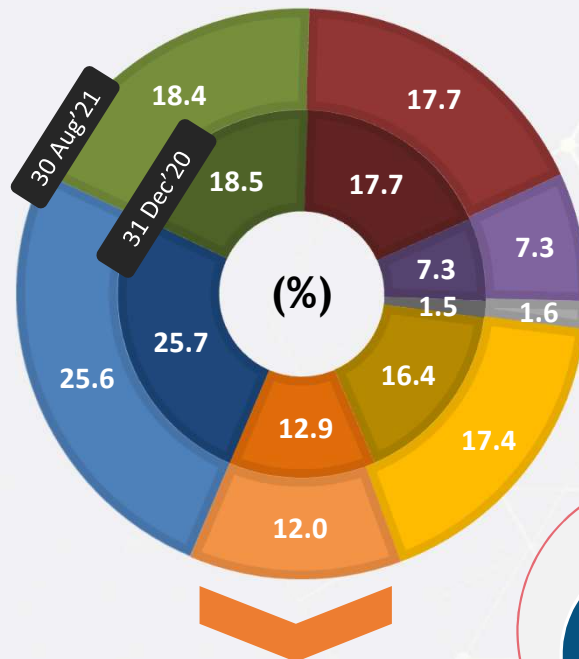
- Accommodation
- Educational
- Transportation



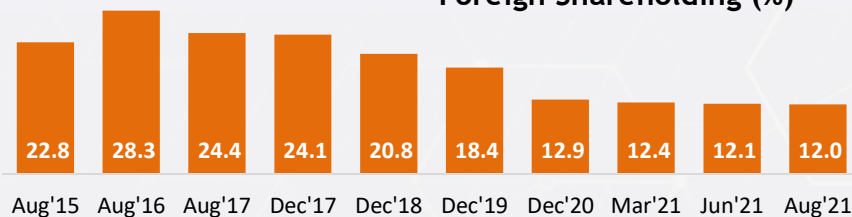
Sector Mix (%) 1HFY'21 vs 1HFY'20



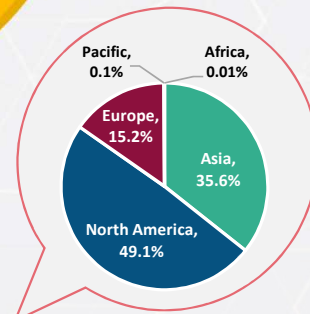
TNB MARKET CAPITALISATION OF RM59.4BIL AS AT 30 AUGUST 2021



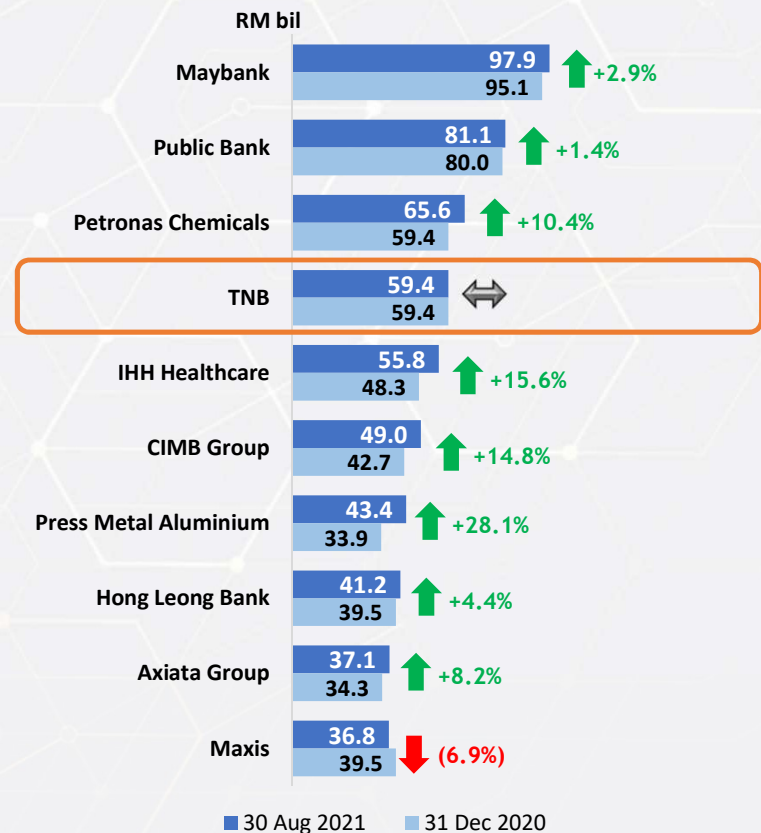
Foreign Shareholding (%)



Institutional: 11.96%
Individual: 0.07%



Top 10 KLCI Stocks by Market Capitalisation



Note:

- Top 10 KLCI ranking by Market Capitalisation as at 30th August 2021
- TNB Latest Market Cap: RM58.8bil (4th), as at 10th September 2021

THANK YOU

For further enquiries, kindly contact us at:



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