

INVESTOR PRESENTATION





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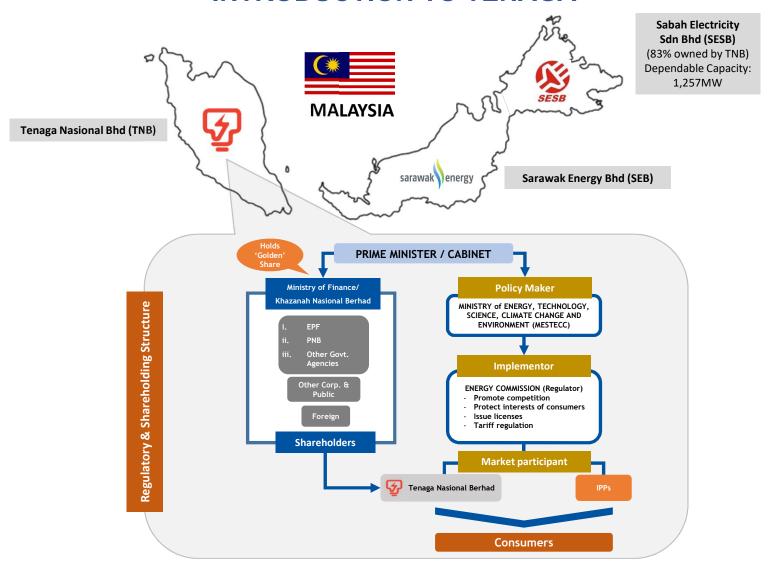
INTRODUCTION TO TENAGA

REGULATORY

BUSINESS STRATEGY & DIRECTION

CAPITAL MANAGEMENT

FINANCIAL & TECHNICAL HIGHLIGHTS



		General	tion	Grid/Transmission	Distribution Network & Customer Service			
	No	n-Regulate	d Business	Regulated Business				
: Business	Oil & Distillate	Solar 0.2% IPP: 11,158MW @ 46.1% Generation Market Share:		Transmission Network Length: 23,082KM	Distribution Network Length: 660,038KM Distribution Substations:			
Core	Hydro Gas & LNG	4.9% 37.2%	52.8% Equivalent Availability Factor	Transmission Substations: 443	81,327 SAIDI: 25.8 mins			
	Coal	57.7%	(EAF): 91.5% Note: TNB installed capacity & Market Share are based on gross capacity	Transmission System Minutes: 0.12 mins	Customer Satisfaction Index (CSI): 8.1			

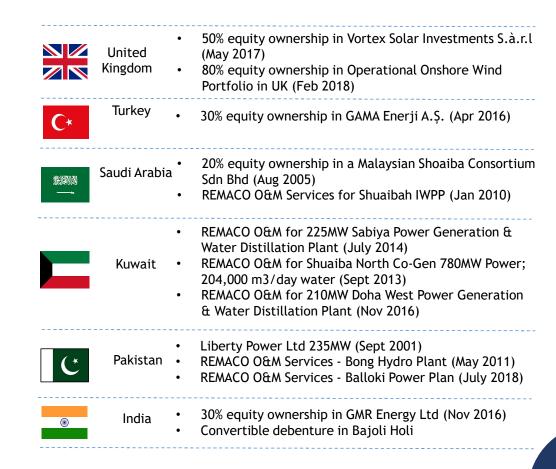
Source: TNB Data / Info as at June 2019

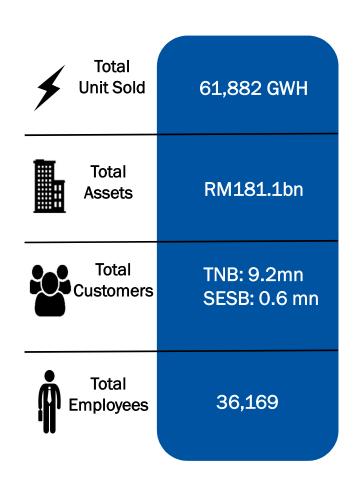
Main Subsidiaries Non-Core Business Non-Regulated Business Renewables, Energy Efficiency & Other Services Operation & Maintenance (O&M) Education & Research • TNB Integrated Learning Solution Sdn. Bhd. • TNB Repair & Maintenance Sdn. Bhd. (REMACO) • TNB Renewables Sdn. Bhd. (ILSAS) GSPARX Sdn. Bhd. • TNB Energy Services Sdn. Bhd. TNB Research • University Tenaga Nasional (UNITEN) • TNB Engineering Corporation Sdn. Bhd. • Tenaga Switchgear Sdn. Bhd. Integrax Bhd. • Malaysia Transformer Manufacturing Sdn Bhd. • Allo Technology Sdn. Bhd. • Tenaga Cables Industries Sdn. Bhd.

Expanding Global Footprint To Achieve Aspiration – TNB is currently present in more than 5 countries

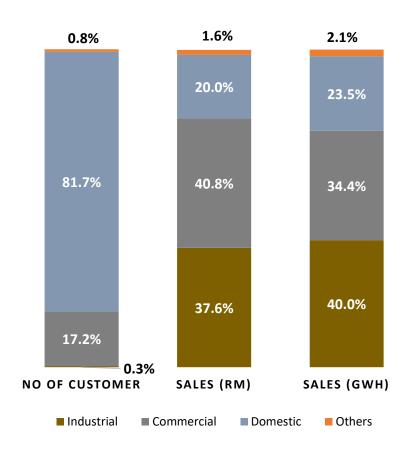


TNB'S FOCUS ON INTERNATIONAL
EXPANSION
AND INVESTMENT IN THERMAL &
RENEWABLE ENERGY





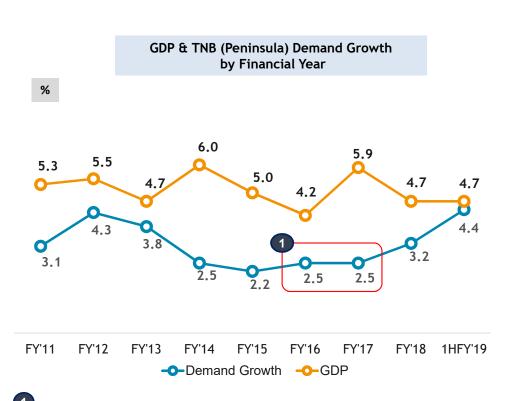
TNB Sectoral Sales Analysis*



Note: Data / Info as at 1HFY19 (June 2019)

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

Strong Demand Growth Supported by New Peak Demand in 2QFY'19



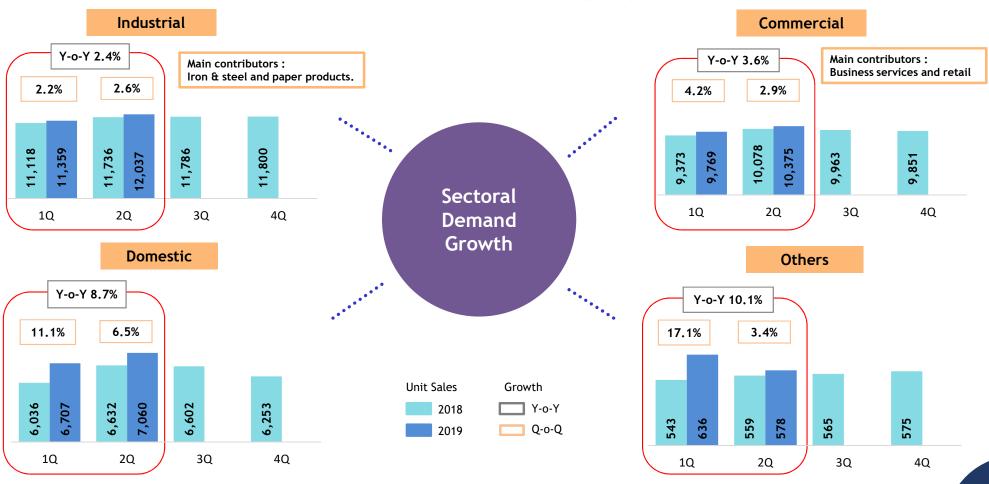


Average demand growth for FY2016 & FY2017. This is to eliminate the one-off El-Nino phenomenon during 3QFY'16

Note:

- i. Data / Info as at 1HFY19 (June 2019)
- ii. Peninsular Malaysia only (TNB exclude SESB and other subsidiaries)

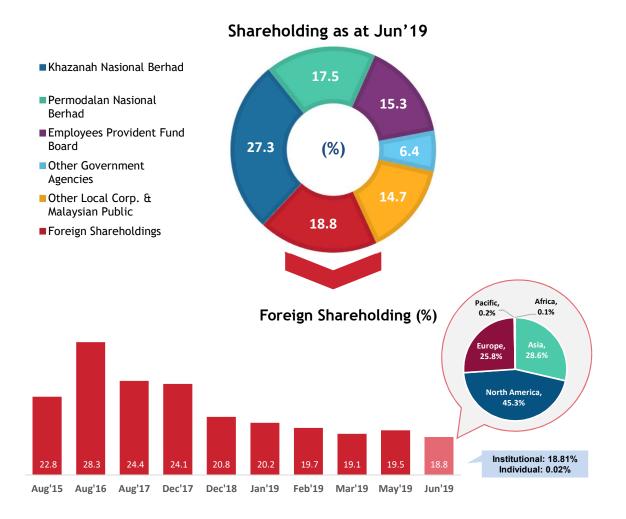
Positive Growth for All Sectors (GWh)*



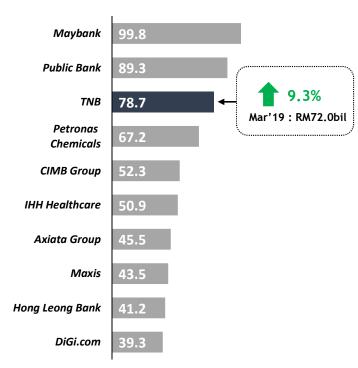
Note: Data / Info as at 1HFY19 (June 2019)

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

TNB Shareholding



Top 10 KLCI Stocks by Market Capitalization as at Jun'19



Note:

TNB Latest Market Cap: RM78.1bil (3rd), as at 28th Aug 2019

Composition of BOD



CHAIRMAN TAN SRI LEO MOGGIE



EXECUTIVE DIRECTOR / CEO
DATUK SERI AMIR HAMZAH BIN AZIZAN

Independent Non-Executive Directors (Total = 5)



NORAINI BINTI CHE DAN

Expertise: Audit & Finance



GEE SIEW YOONG

Expertise: Audit & Finance



ONG AI LIN

Expertise: Audit & Finance



DATUK AHMAD BADRI BIN MOHD ZAHIR (MoF)



AMRAN HAFIZ BIN AFFIFUDIN (Khazanah)



GOPALA KRISHNAN A/L K.SUNDARAM

Expertise: Law



JUNIWATI BINTI RAHMAT HUSSIN

Expertise: Project Management, Corporate Planning and Human Resource



Non-Independent
Non-Executive Directors (Total =3)

DATO' ROSLINA BINTI ZAINAL

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CAPITAL MANAGEMENT

FINANCIAL & TECHNICAL HIGHLIGHTS

A Mechanisms For Tariff Setting With Incentives To Improve Efficiency & Greater Transparency

Regulatory Environment:

1. Clear and Transparent Regulatory Framework

Clear and transparent regulatory framework governed by the Energy Commission provides investors with confidence in TNB's cash flow visibility

2. Consistent and Clear Returns

Regulatory WACC of 7.3% provides consistent and clear return to debt and equity holders

3. Shield against Uncontrollable Swings

Imbalance Cost Pass-Through mechanism shields Tenaga against uncontrollable swings in input costs, with a review every 6 months

4. Incentives for Operational Efficiencies

Incentive / Penalty mechanism provides clear incentives for TNB to achieve operational efficiencies

Non - Regulated (competitive bidding environment) **IPPs** SLAS PPAs Generation **Grid System** Single Buyer Operator System Generation Operations Transmission Tariff Tariff Transmission Tariff Distribution Network Distribution & Customer Service Tariff Regulated

Source: Energy Commission (EC)

Imbalance Cost Pass-Through (ICPT) Mechanisms Ensures TNB Remain Neutral

sen/kWh

Base Tariff under IBR framework comprises of:

- a) Opex, Depreciation of Regulated Assets & Tax Expenses of Business Entities
 - transmission, grid system operation,
 Single Buyer operation, distribution
 network and customer services
- b) Power purchase cost charged by generators to the Single Buyer (based on fuel forecast base price)
- c) Return on regulated assets (rate base) of Business Entities
 - Reviewed every 3 years

Imbalance Cost Pass-Through (ICPT):

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

ICPT Surcharge Base Tariff: RP1-38.53 sen/kWh RP2-39.45 sen/kWh R

Principle for ICPT Calculation

Cost components comprise of

• The ICPT is calculated based on an estimated actual fuel cost and generation specific costs for a particular six (6) months period against the corresponding baseline costs in the Base Tariff.

Source: Energy Commission (EC)

Imbalance Cost Pass-Through (ICPT) Comprises Two Components

Imbalance Cost Pass-through (ICPT)

Fuel Cost Pass Through (FCPT)



Changes in Gas/LNG and Coal Costs

PPAs Power Purchase Agreements

SLAs Service Level Agreements

CSTA Coal Supply and Transportation Agreement

CPC Coal Purchase Contract

GFA Gas Framework Agreement

GSA Gas Supply Agreement

Generation Specific Cost Adjustment (GSCPT)



- Other fuel costs such as distillate and oil
- All costs incurred by SB under the power procurement agreements (PPAs, SLAs and etc.) and fuel procurement agreements (CSTA, CPC,
- Renewable energy FiT displaced cost

RP2

ICPT	Announcement	Surcharge	Period				
Jan – Jun'18	RM698.19mn	1.35sen/kWh	Jul – Dec'18				
Jul – Dec'18	RM948.00mn	2.15sen/kWh	Jan – Jun'19				
Jan – Jun'19	RM1,592mn	2.55sen/kWh	Jul – Dec'19				

Source: Energy Commission, company presentations, company fillings

New Features in Electricity Tariff Review for RP2 (2018-2020)

More efficient and reliable electricity supply

- Efficient and reliable electricity supply at the lowest efficient cost;
- Enhancement in safety and reliability with smart grid capabilities.

Support Government's initiatives and aspirations

- Supporting
 Government's
 initiatives in green
 energy and
 sustainability for
 example AMI,
 Distribution
 Automation, Group
 Relamping of
 streetlight, etc.
- Continue the gas price subsidy rationalization by gradual removal of gas price subsidy;

New addition in Key Performance Indicators

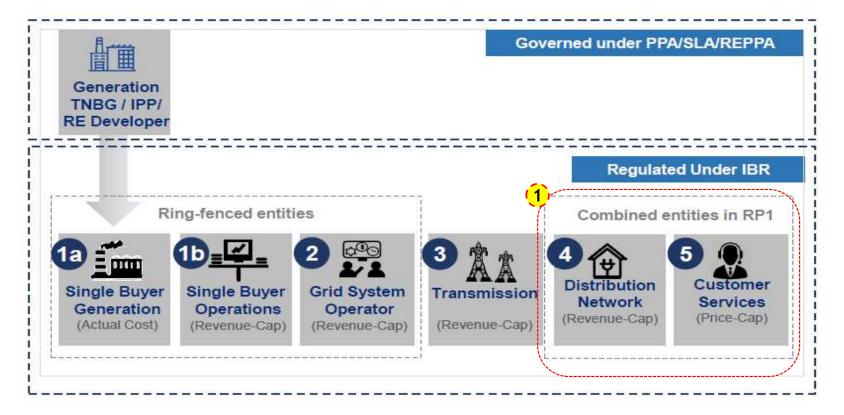
- New performance indicators on each business entity that are in line with Government's policies;
- Enhancement on KPI mechanisms and principles (symmetric and asymmetric).

Separation of Distribution Networks and Customer Services

- Separation of these business entities will enhance the system reliability and consumer experience;
- This will increase the productivity and consumer satisfaction.

Source: Energy Commission (EC)

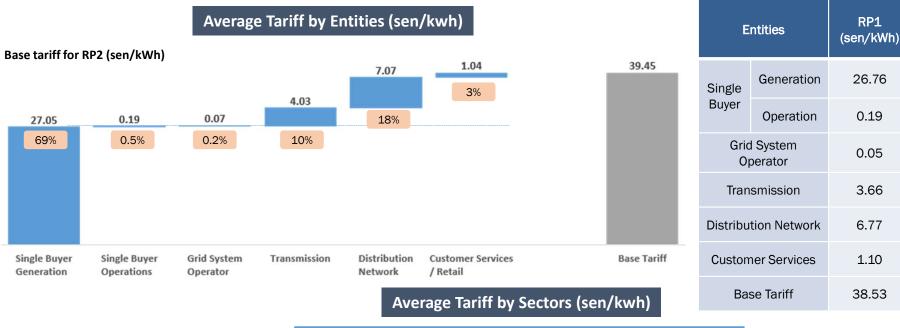
IBR Entities



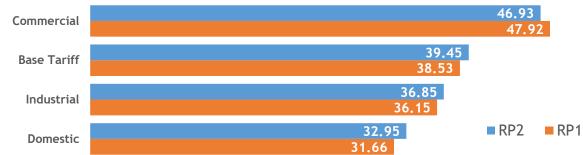
1)

In RP1, these 2 entity are grouped as Price -Cap entity

New Base Tariff Under IBR Mechanism RP2



Source: Energy Commission (EC)



Variance

(RP2 v. RP1)

(sen/kWh)

+0.29

+0.02

+0.37

+0.3

-0.06

+0.92

RP1

RP2 Parameters

WACC

7.3% RP1: 7.5%

Avg. Regulated Asset Based (RAB)

RM54.8bn

(Avg. RAB in 2020) RP1: RM43.6bn (Closing RAB)

TARIFF

39.45 sen/kwh

RP1: 38.53 sen/kwh

OPEX

RM18.2bn

(Approved OPEX) RP1: RM16.9bn (Closing OPEX)



Projects approved

1.5 million smart meters in homes

367,000

ED streetlights

network development for energy security & reliability

Fibre Optic

CAPEX

RM18.8bn*

(Approved CAPEX) RP1: RM15.7bn (Closing CAPEX)

Source: Energy Commission (EC)

Fuel Parameters

Coal

USD75/MT

(RM14.47/mmbtu @ RM4.212/USD) RP1: USD87.5/MT @ RM3.100/USD

LNG

\Diamond

RM35/mmbtu

RP1: RM41.68/mmbtu

Regulated

Gas @1.000mmscfd



RM24.20/mmbtu (Jan'18 - Jun'18)

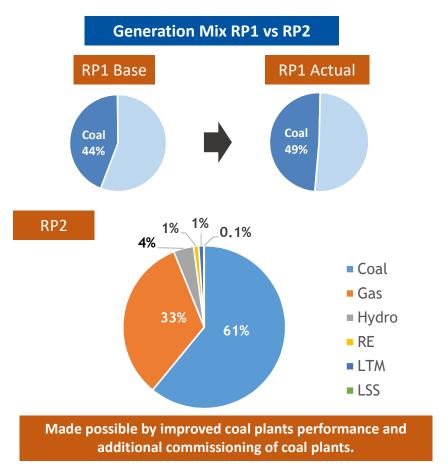
RM25.70/mmbtu (Jul'18 - Dec'18) RM27.20/mmbtu (Jan'19 - Jun'19)

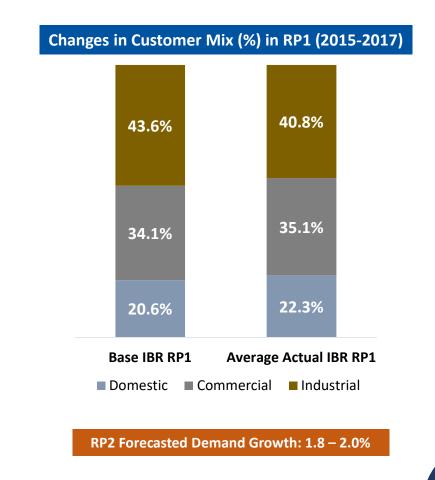
RM28.70/mmbtu (Jul'19 - Dec'19)

RP1: RM15.20/mmbtu - RM22.70/mmbtu

RP2 Forecasted Gas Utilization: 840 mmscfd

Generation and Customer Mix





Note:

LTM – Laos, Thailand & Malaysia Interconnection; **LSS** – Large Scale Solar

Source: Energy Commission (EC)

REGULATORY

MESI 2.0

5 Key Initiatives of MESI Reform 2.0



FUEL

Allow generators to source own fuel (coal and gas) to optimise cost

- Encourage IPPs to source cheaper fuels
- Any cost-savings will be shared between end-users and the generators (ratio and exact mechanisms has yet to be finalised)



HYBRID PPA & NEDA+

- a) Move from PPA regime to capacity and energy market
 - Future PPAs will comprise capacity payments while excluding locked-in energy payments
 - Future PPAs will have shorter tenure (as opposed to the 21-25 year tenure practised previously)
- b) Generators with excess capacity or with expired PPAs can utilise the improved New NEDA+ to sell energy via spot contract to SB



THIRD PARTY ACCESS (TPA)

Establish TPA framework and network charges for grid to allow third party using the infrastructures

- To allow trading of green energy
- To pave a way for the future export of electricity under ASEAN Power Grid
- To open up for nonrenewable power producers
- Buyer to acquire a minimum of 20MW directly from the RE supplier and TNB will be paid a certain network charge for renting out its grid



RETAIL

Facilitate choice in retail



SINGLE BUYER (SB) & GRID SYSTEM OPERATOR (GSO)

Increase transparency and reduce conflict of interest in SB and GSO

REGULATORY MESI 2.0

MESI Reform 2.0 Key Initiatives Timelines						TIMELINES											
	(KEY INITIATIVES				2019		2020				2022		2023			2029	
			1Q	2Q 3	Q 4	Q 1Q	2Q 3	Q 4Q	1Q 2	Q 3Q 4	1Q 10	Q 2Q	3Q 40	Q 1Q	2Q 3Q	4Q	
FUEL		MyPower to come up with draft on rules, incentive mechanisms, and amendments to regulatory control			<i>8</i> 4			Ø	\sqcup	$\perp \perp$		$\perp \perp$	_			\vdash	
		Energy Commission (EC) expected to approved and published these rules	┡	Щ	4	\perp	_0			$\perp \perp$		$\perp \perp$			\square	\vdash	
		Pilot project			4	\perp	_	_				\perp				\vdash	
		Full roll-out	<u></u>									\perp	_			\vdash	
	4	MyPower to come up with the energy and capacity markets' design and rules			2/2						Z,				\square	\vdash	
ø l	PP/	EC to approve the design and rules	┖	Ш	4	4	_			\perp				4			
PP/	BRIC	EC will hold the first auction for the capacity market (hybrid PPA)	_	Ш	4	\perp	_		\sqcup	\perp	_	$\perp \perp$	_		\square	<i>M</i>	
RID	Н	The entry of the capacity market which will mark the beginning of the hybrid market till 2045, when the last batch of the current PPA ends - 2029															
HYBRID PPA & NEDA+	+	PPA enus - 2029	Н	\vdash	+	+	-		\vdash	++	+	++	+		$\dashv \dashv$		
	NEDA	EC will roll out an improved NEDA+ to incentivise more power producers with excess capacity or expired PPAs															
		EC and TNB to determine interim network charges based on RP2 to allow green energy power producers to ride on the grid															
		Once interim network charges are decided, third party 100MW green contract will be piloted to last till the end of the 3 year RP3															
TPA		MyPower and EC to develop the rules / guidelines for the TPA with regards to market participation.						//									
⊨		EC is expected to approve and submit RP3 to the government for endorsement, including network charges															
		EC to seek legal opinion on existing legislation TPA and other reform initiatives by end-2019. The new legislation (if necessary			W						W			9			
		depending on legal opinion) will be tabled by end of 2022														Ш	
		EC and TNB will announce grid's green rider initiative														Ш	
RETAIL		MyPower will detail and complete a retail regulatory framework to be approved by EC by 4Q202							Ш							Ш	
		1) Itemised billing based on RP3 will be rolled-out together with new tariff design and approved network charges															
		2) Electricity time of use (which details different prices for the use of electricity at different times of the day) will be piloted										$\perp \perp$				Ш	
		Pilot of opening up of retail to take place after the roll out of retail regulatory framework										$\perp \perp$				Щ	
		The industry is expected to get ready for gradual price-based retail		Ш						$\perp \perp$		$\perp \perp$	\perp				
SB & GSO		EC will make first disclosure of the government's Power Planning Plan		Ш						$\perp \perp$		$\perp \perp$				\Box	
	MyPower will present a report on enhanced governance of SB and GSO			\perp							$\perp \perp$				\perp		
- 0,		The enhanced ring-fenced governance to start in 1Q2021										1					

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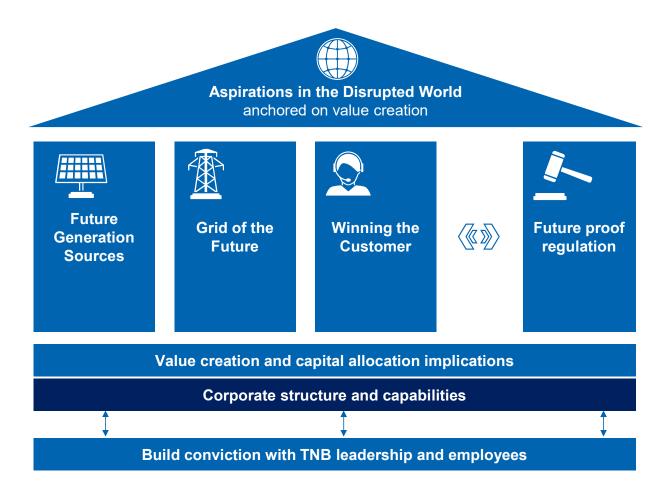
REGULATORY

BUSINESS STRATEGY & DIRECTION

CAPITAL MANAGEMENT

FINANCIAL & TECHNICAL HIGHLIGHTS

Reimagining TNB is TNB's strategic aspiration – a key enabler is the corporate structure



International Acquisition - Four International Acquisitions to Support Aspiration



30%

Equity interest of GAMA Enerji A.S.

Assets include a 840MW natural gasfired plant and 117.5MW wind plants

Vortex Solar UK

50%

Equity interest of Vortex Solar Investments S.a.r.l.

Assets include 24 operational solar PV Farm across England and Wales with net installed capacity of about 365MW



30%

Equity interest of GMR Energy Limited.

Assets include 2,298MW coal, gas and solar plants.

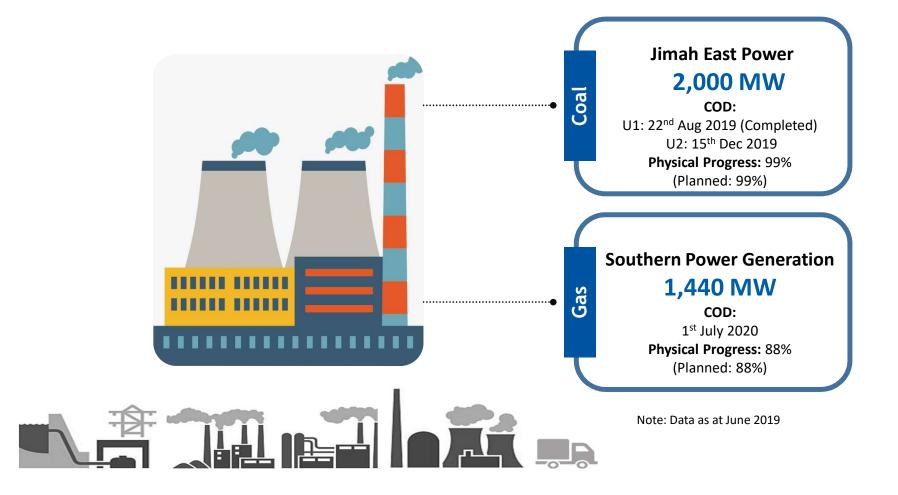
Tenaga Wind Ventures

80%

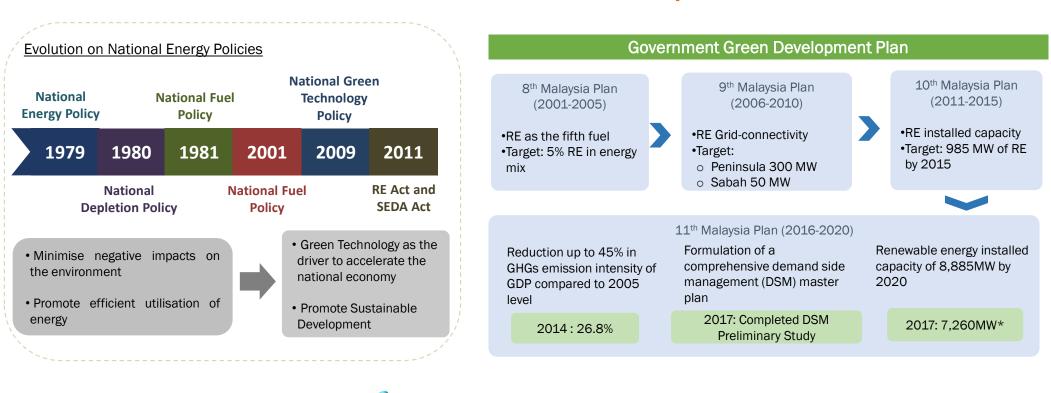
Equity interest of GVO Wind Limited & Blumerang Capital Limited

Assets include 53 operational onshore medium wind turbines with a total combined capacity of 26.1MW

Conventional Generation Projects



Renewable Generation - Government Green Policy & Initiatives





MESTECC = Minister of Energy, Science, Technology, Environment and Climate Change

* The increase in the total installed capacity of RE is based on the adoption of the ASEAN definition of RE by Malaysia in 2016 which takes into account all types of hydro energy in the calculation without limiting their capacities.

Green Projects

- Clean coal plant Ultra-Supercritical technology
- District Cooling System Significant cost savings in airconditioning expenses and
 environmentally-friendly
 technology (i.e. KLIA2, IJN, UiTM
 Seremban 3, BMC Abu Dhabi)
- Demand Side Management -Promote efficiency, increase system reliability and reduce peak electricity demand

Biodiversity Management

- Preserving animal habitat such as Kelah sanctuary and Lampan Sungai fish breeding
- TNB Youth Environmental Education & Awareness Programme focusing on National Elephant Conservation Center at Sungai Deka, Hulu Terengganu.

TNB Green

Energy Policy

TNB Environmental Policy

Commissioned

Renewable Generation

Domestic (79MW)

- TNB Sepang Solar 50MW
- Biomass (10 MW) JV with Felda @ Felda Jengka, Pahang
- Biogas (3.2 MW) JV with Sime Darby Plantations, @ Layang-layang, Johor and Bagan Datuk, Perak
- Mini Hydro 10MW
- GSPARX Rooftop Solar 6.0MW
- Floating solar in Sg Labu WTP in Sepang -108kWp

International (284MW)

- TNB Vortex Solar, UK Solar (182.5MW)
- TNB Wind Ventures, UK Wind (20.9MW)
- GAMA, Turkey Wind (33.8MW), Hydro (39.4MW)
- GMR, India Solar (7.8MW)

In the pipeline

Renewable Generation

Domestic

- Bukit Selambau 30MW
- GSPARX Rooftop Solar Target 500MW by 2020

International

 GMR Bajoli Holi, India – Hydro (Gross 180MW)

Environment Management

- Strategic partner with Department of Environment (DOE) to promote Guided Self Regulation (GSR) for environmental management within Malaysia.
- GSR is an initiative to transform regulation enforcement and build a culture of better environmental awareness and management.

Building Renewable Energy Portfolio for Greener Future

Large Scale Solar (LSS)

TNB RE Targets by 2025

1,700MW

As at June 2019: Total: 363MW

- International 284MW
- Domestic 79MW



TNB Sepang Solar

50 MW

COD: 19th Nov 2018

(Completed)

TNB Bukit Selambau 30 MW

COD: 31st Dec 2020

Physical Progress: 41%

(Planned: 35%)

Note:

i. PPA Tenure - 21 years ii. Data as at June 2019



Environmental, Social & Governance (ESG) - FY2018

Strives To Conserve The Environment As Our Commitment Towards Continuous Environmental Improvement



50MW Large Scale Solar (LSS), cut emissions by approx. 64,000 tCO2e/year, additional 30MW LSS to further reduce emissions after COD in Dec 2020



The latest coal generation plants using ultra-supercritical technology consume less fuel per MWh electricity produced in comparison to conventional coal power plant further contributing to lower carbon emissions.



Reduction in GHG emissions intensity from 0.55 to 0.54 tCO2e/MWh (Data as at FY2017)



Increase in total GHG emissions mitigation from 2,359,770 to 5,030,079 tCO2e through the used of hydro, renewable energy and efficient technology power plant. (Data as at FY2017)

Our Pledge Towards A Better And Brighter Future For The Communities

- Allocated RM10 million for 1,000 students from low-income families in the fields of Science, Technology, Engineering and Mathematics (STEM)
- 816 students (596 local & 220 abroad universities) awarded Yayasan Tenaga Nasional (YTN) scholarship
- UNITEN produced 3,145 graduates with 93.7% employability rate within 6 months

- 880 trainees under Government's PROTÉGÉ initiative, compared to 500 trainees in FY2017
- 54 students receive RM1,500/year (2018-2020) & are fully-sponsored to attend value-added self-development programmes
- TNB's contribution of **RM6 million** included sponsorships to the Malaysian Hockey Confederation

Cultivate Ethical Conduct To Reinforce Sound Business Decisions & Forward-Looking Culture

Leadership & Effectiveness

Statement on Risk Management & Internal Controls

Accountability

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Obtained ISO 37001:2016
Anti Bribery Management
System certification

Relations With Shareholders

Source: TNB Annual Integrated Report 2018

Green Energy Development

■ UNITEN's Smart UniverCity



✓ To create a sustainable ecosystem which provide competitive advantage for TNB in moving into smart city environment.

□ Expansion of Electric Vehicle Charging Network



✓ To expand the existing charging station infra (around 250 stations) under the ChargEV programme (managed by MGTC).

☐ Green House Gas Emission Management System (GEMS)



✓ To develop an online system to record and analyse raw emission data from TNB assets

■ Maverick - Showcase of Net Zero Energy of Net Zero Energy Home



✓ To generate own electricity through Net Zero Energy Home Living at Cyberjaya

☐ Introduction of Electric Buses for UNITEN



✓ The project aims to develop a feasible business model for the operation of electric buses within the campus, such as vehicle leasing between the Fleet Management and UNITEN.

☐ Smart Street Light Showcase Project at UNITEN Putrajaya Campus



✓ This project enables TNB to demonstrate its commitment towards Green Technology.

□ TNB Centre of Excellence (CoE) for Solar Energy at the Large Scale Solar (LSS) site in Sepang



✓ The CoE will become a training centre for solar energy development and technology, catering for TNB employees and external participants from public and private sectors

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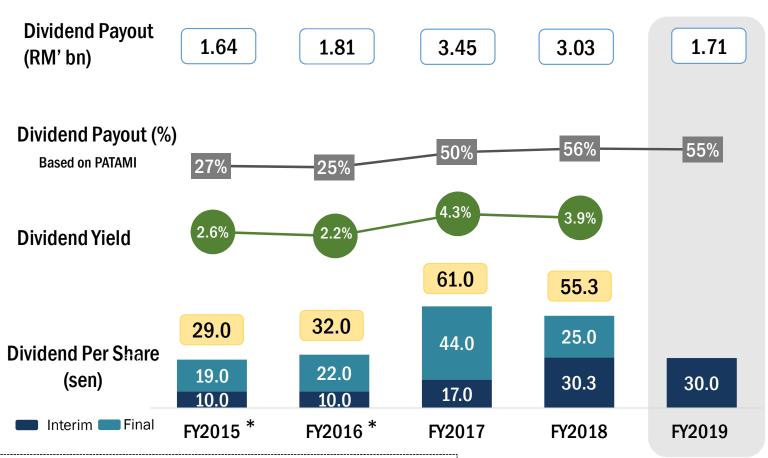
CAPITAL MANAGEMENT

05

FINANCIAL & TECHNICAL HIGHLIGHTS

CAPITAL MANAGEMENT

Highest Dividend Payout at 56% of Adjusted PATAMI



DIVIDEND POLICY

30% - 60% dividend payout ratio of Group PATAMI, excluding Extraordinary, Non-Recurring items

^{*} Dividend paid based on the previous dividend policy of 40% - 60% of Company's Annual Free Cashflow from Operations less Normalised Capex and Interest Servicing

CAPITAL MANAGEMENT

Lower Gearing Level due to Repayment of Mizuho Loan



Note: Debt consists of Principal + Accrued Interest + Accounting Treatment (FRS139)

Statistics	30 th Jun'19	31 st Dec'18
Total Debt (RM' bil)	1 46.8	47.8
Net Debt (RM' bil)*	31.0	29.6
Gearing (%)	43.9	44.8
Net Gearing (%)	29.1	27.7
Fixed : Floating	98:2	95:5
Final Exposure	98:2	95:5
Weighted Average Cost of Borrowing	2 5.03	4.98
Final Exposure **	5.04	4.99

^{*} Net Debt excludes deposits, bank and cash balances & investment in UTF

^{**} Inclusive of interest rate swap

Cash Position (RM bil)	30 th Jun'19	31 st Dec'18				
Company	9.7	11.0				
Group	15.8	18.2				

Closing FOREX	30 th Jun'19	31 st Dec'18					
USD/RM	4.14	4.14					
100YEN/RM	3.84	3.75					
GBP/RM	5.24	5.27					
USD/YEN	107.62	110.28					

Lower mainly due to repayment of Mizuho Loan (USD300mil) amounting of RM1.2bil

Increase due to repayment of Mizuho Loan with lower interest rate

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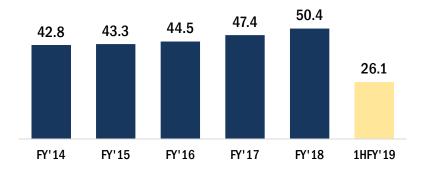
CAPITAL MANAGEMENT

FINANCIAL & TECHNICAL HIGHLIGHTS

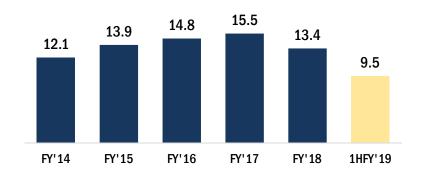
FINANCIAL & TECHNICAL HIGHLIGHTS

Steady Financial Results Continued into 1HFY'19

Revenue (RM bil)



EBITDA (RM bil)



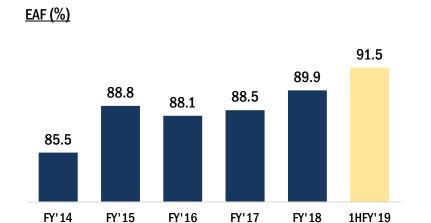
PAT (RM bil)



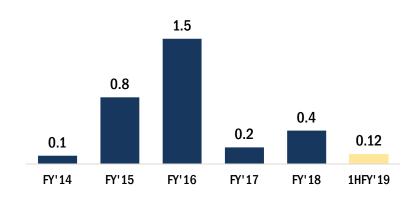
Note: FY2019 is after MFRS16 implementation

FINANCIAL & TECHNICAL HIGHLIGHTS

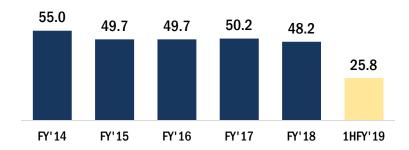
Consistent Technical Performances



Transmission System Minute (mins)



Distribution SAIDI (mins)



DISCLAIMER

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