

# **TNB HANDBOOK**



Prepared by: COE Investor Relations





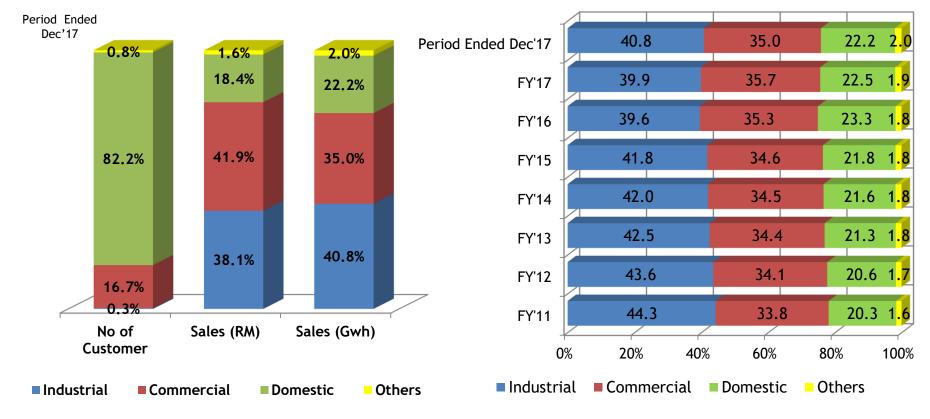


- 2. INCENTIVE BASED REGULATION (IBR)
- 3. BUSINESS STRATEGY & DIRECTION
- 4. DIVIDEND POLICY
- **5.** FINANCIAL HIGHLIGHTS



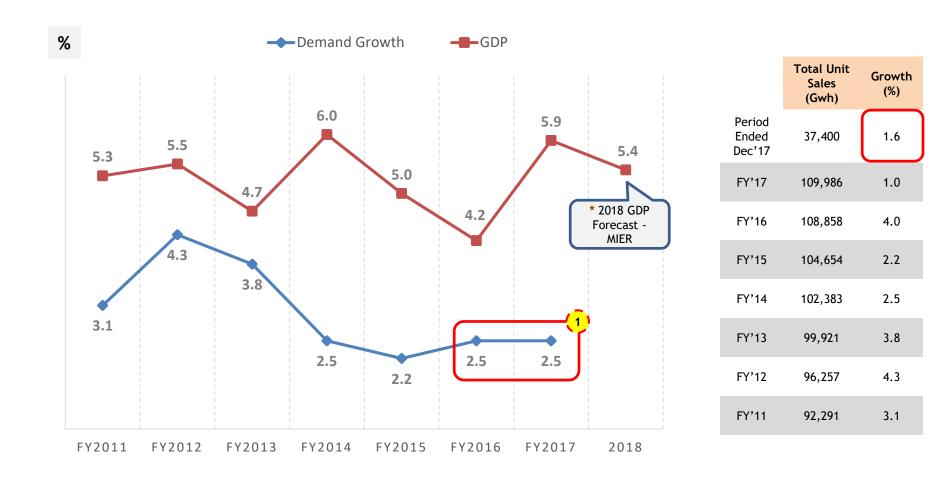
6.4% INSTALLED CAPACITY TNB: 54.3% @ 13,108MW Period IPP: 45.7% @ 11,015MW FY'14 FY'15 FY'16 FY'17 Ended **Dec'17** 10% Installed Capacity -TNB: 13,108 37.2% 10,814 11,708 12,904 12,880 IPP: 11,015 Peninsula (MW) 48% Total units sold (Gwh) 110,837 115,505 116,586 108,102 39,562 42% TNB: 9.4 Total customers (mn) 8.64 8.94 9.01 9.08 Sabah: 0.6 56.0% MARKET SHARE Total employees TNB: 55.7% @ 22,383Gwh 36.1 36.0 35.6 35.0 35.0 ('000) IPP: 44.3% @ 17,825.7Gwh 132.9 144.3 Total assets (RM bn) 110.7 117.1 142.0 ■Gas & LNG ■Coal ■Hydro & Others ■Oil & Distillate





#### Sectoral Sales Analysis (Gwh)

#### Demand Growth Registered at 1.6%



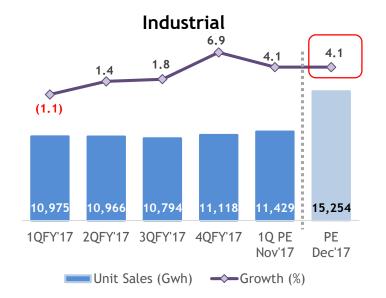


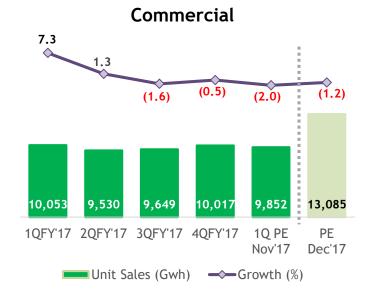
\* MIER: Malaysian Institute of Economic Research

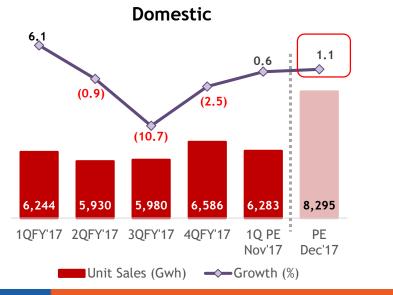
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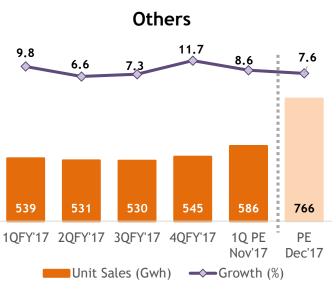
#### Upward Trend In Industrial & Domestic Sector (Y-o-Y)











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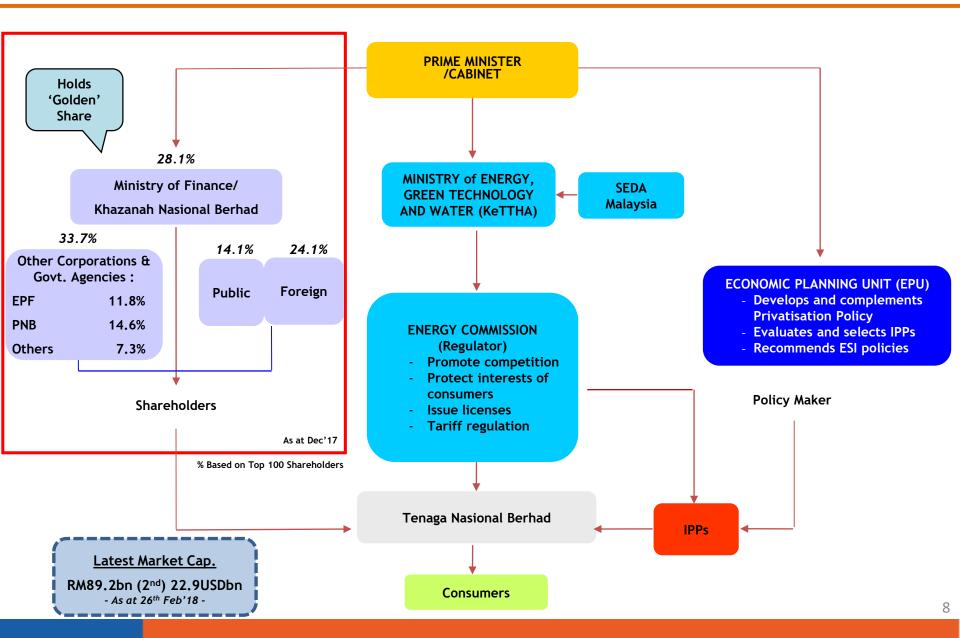
#### **Composition of BOD**





#### Industry Regulatory Framework









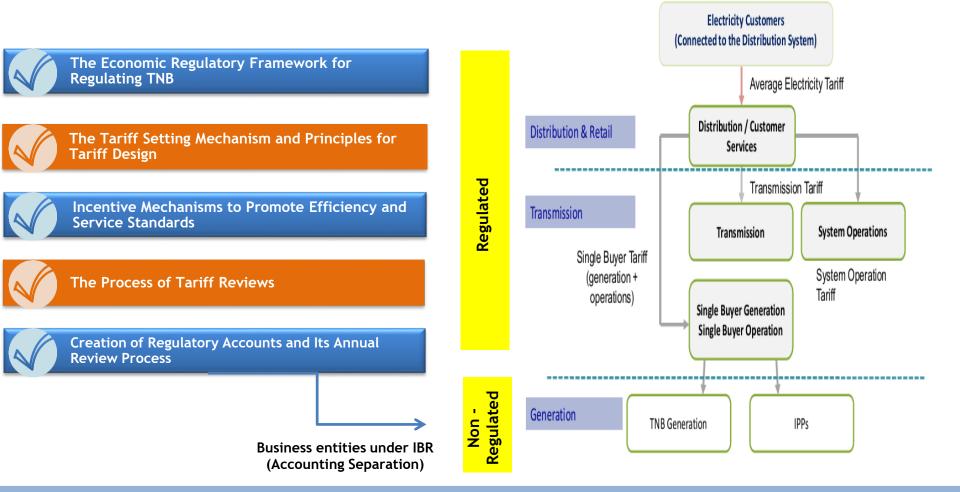


# **INCENTIVE BASED REGULATION (IBR)**

#### The Move Towards Better Regulation



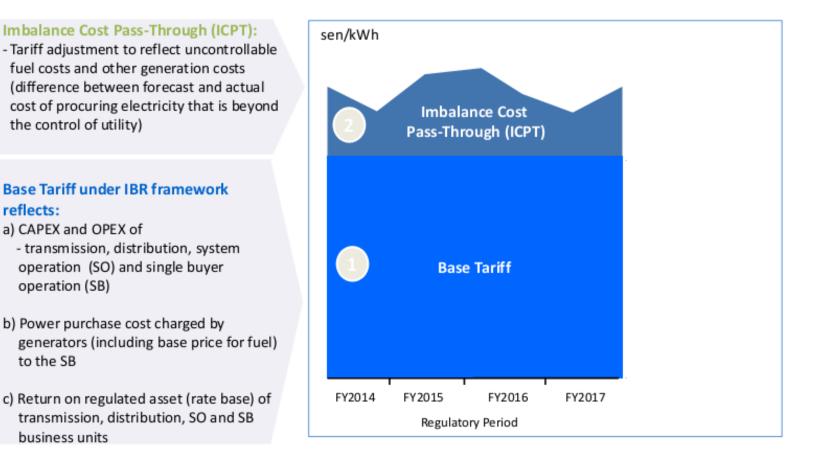
IBR mechanism to strengthen the following:



11 Regulatory Implementation Guidelines (RIGS) were Developed for IBR Implementation

\*Source: EC

Electricity Tariff Review = Base Tariff + Imbalance Cost Pass-Through (ICPT)



#### Principle for ICPT Calculation

reflects:

to the SB

Cost components comprise of:

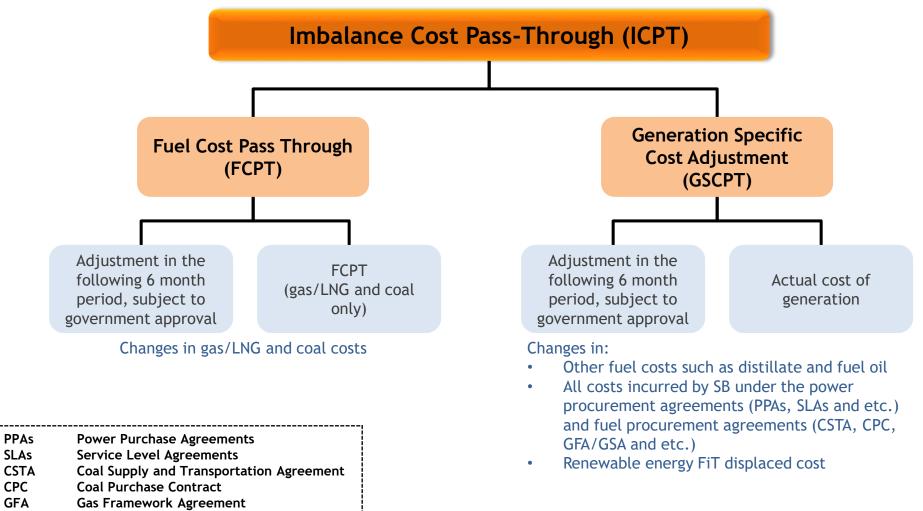
- Actual vs forecast cost of fuels & other generation costs for the preceding 6-month period; and
- Piped gas price increase of RM1.50/mmBtu for the next 6-month period ٠

Note 1 : CAPEX = Capital expenditure 2 : OPEX = Operational expenditure



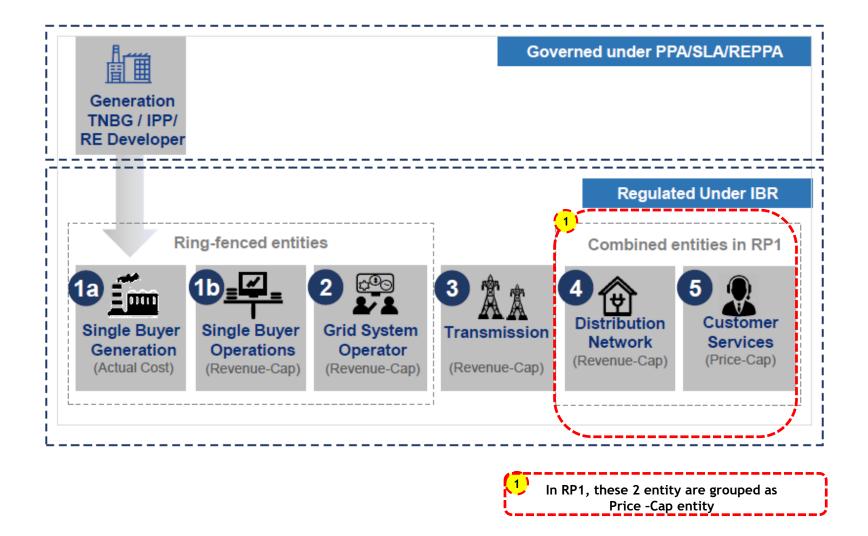
Imbalance Cost Pass-Through (ICPT) Comprises Two Components





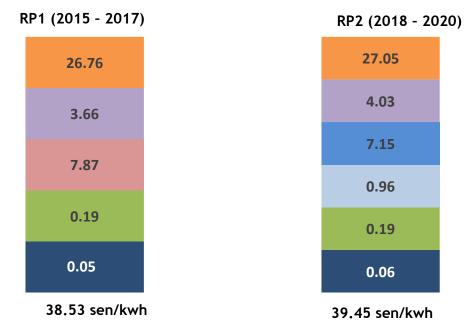


## **IBR ENTITIES**

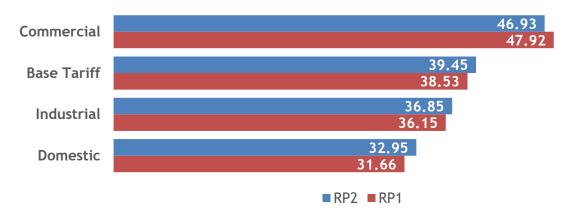


# INCENTIVE BASED REGULATION (IBR) BASE TARIFF





#### Average Tariff by Sectors (sen/kwh)





- Transmission/Grid
- Distribution Network & Customer Services
- Distribution Network
- Customer Services
- Single Buyer Operations
- Grid System Operations



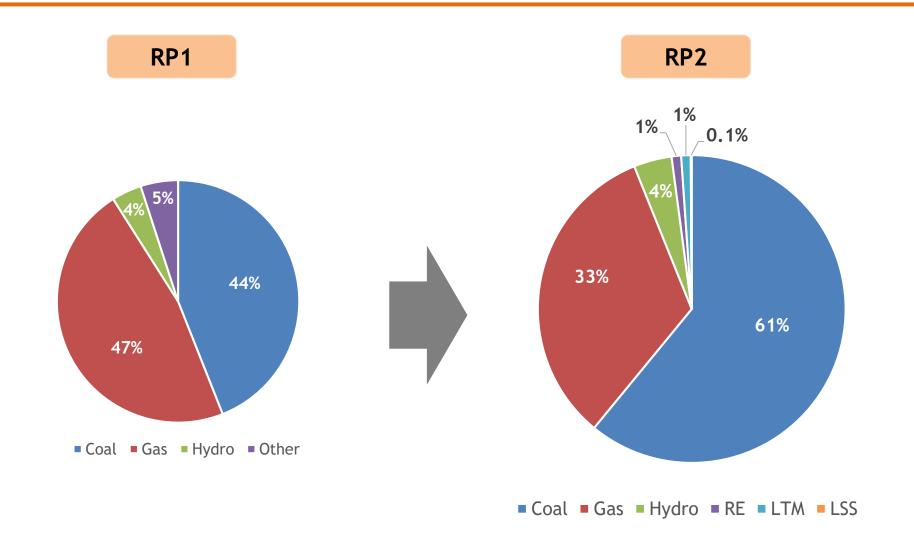


# NoItemRP21.WACC7.3%2.Avg. Regulated Asset Based (RAB)RP2 Approved RAB = RM54.8 bn3.CAPEXRP2 Approved CAPEX = RM18.8 bn4.OPEXRP2 Approved OPEX = RM18.2 bn

# **INCENTIVE BASED REGULATION (IBR)**



### **GENERATION MIX**







- **1.** INTRODUCTION TO TENAGA
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# **TNB 2025 GROWTH ASPIRATION**



Aspire to Grow our EBIT to RM20.0 billion by 2025 through Domestic & International Investment

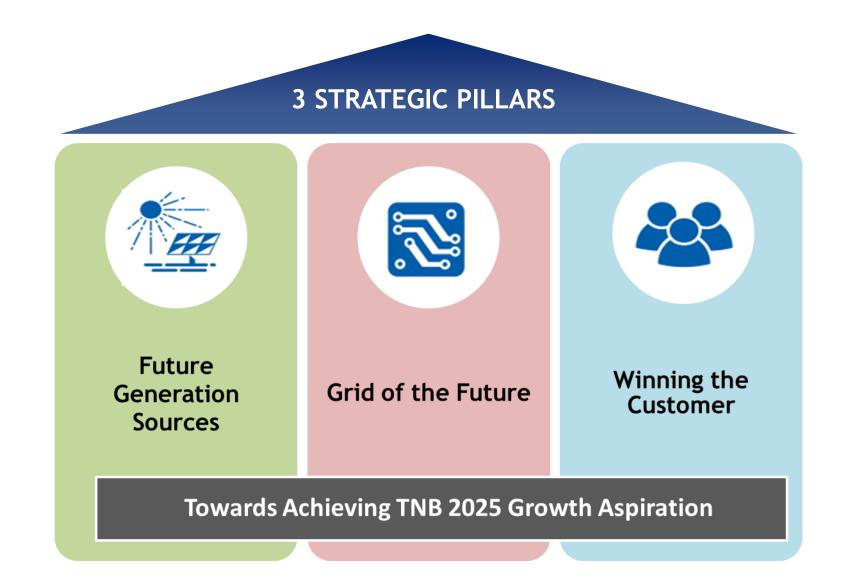
#### TNB 2025 Growth Aspiration (in RM Billion) Strategic Plan 2017-2025 initiatives ~2 ~20 Status quo ~3 ~3 ~4 0.9 1.7 ~8 0.5 ~11 **Future Generation** Grid of Winning the Sources the Future Customer 2015 EBIT International Domestic International & Customer 2025 EBIT Generation Generation Domestic Grid aspiration

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# SHAPING SUSTAINABLE FUTURE

#### Our Strategic Plan 2017

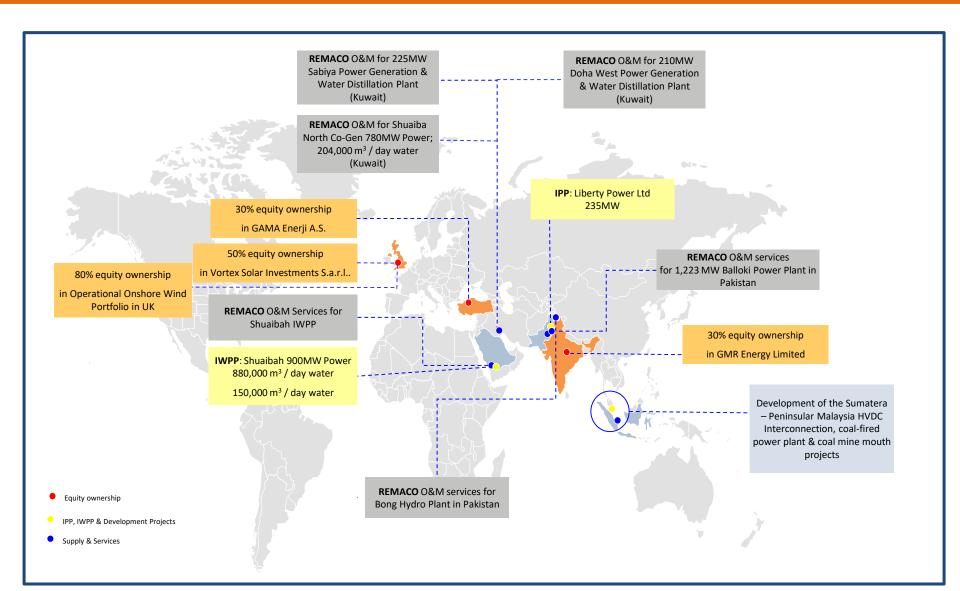




**EXPANDING GLOBAL FOOTPRINT TO ACHIEVE ASPIRATION** 



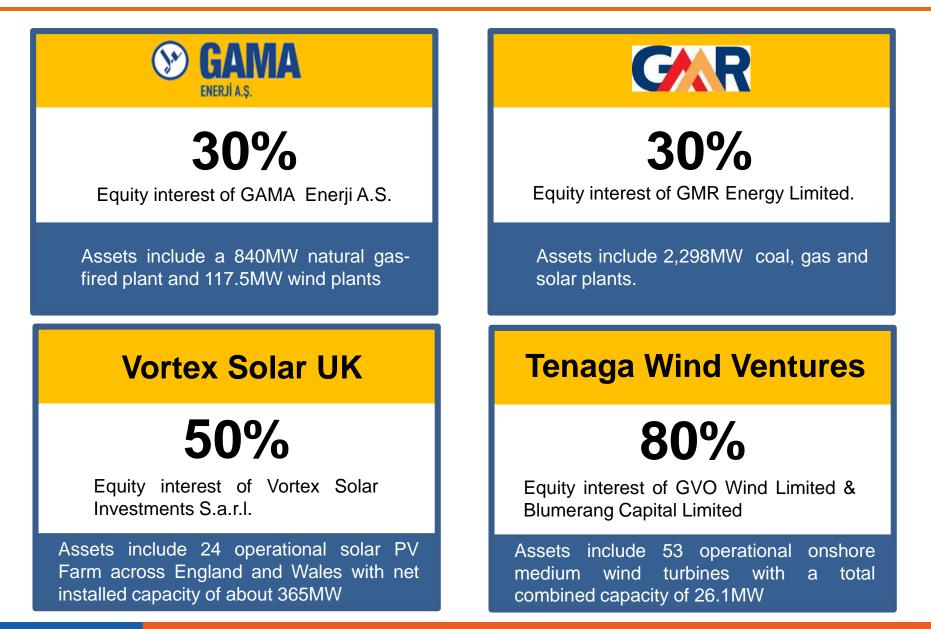
#### TNB is currently present in more than 5 countries



# **INTERNATIONAL ACQUISITION**

Four International Acquisitions to Support Aspiration

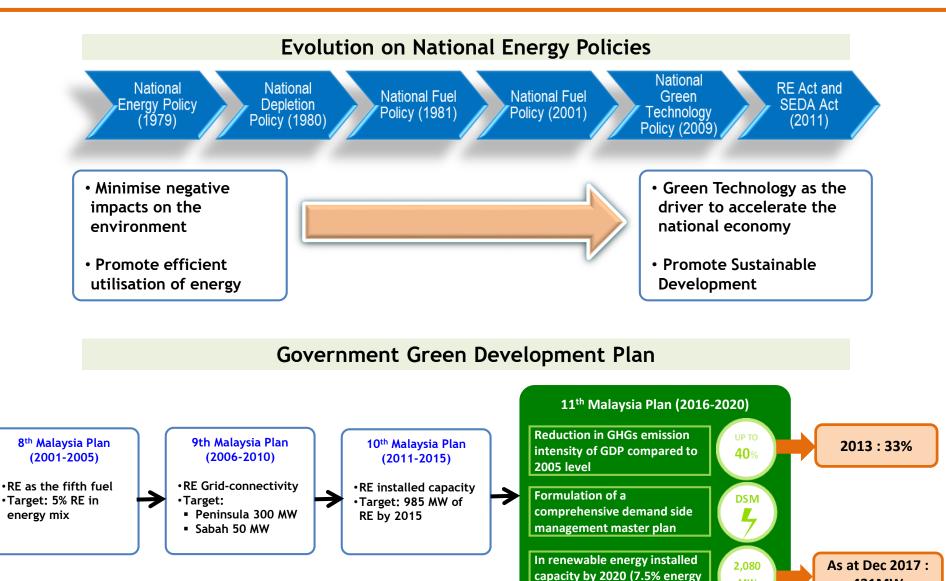




# **RENEWABLE GENERATION**

#### **Government Green Policy & Initiatives**





mix)

22

431MW

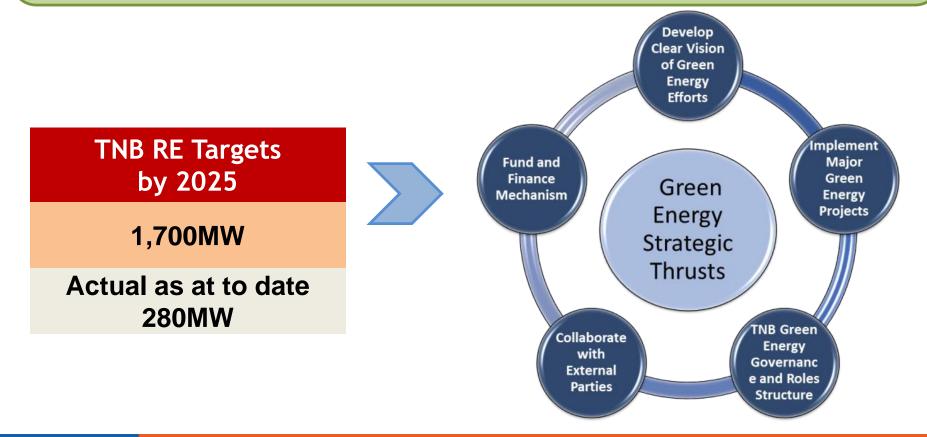
MW

## BUILDING RENEWABLE ENERGY PORTFOLIO FOR BETTER FUTURE

#### **TNB Green Policy & Initiatives**

#### **TNB Green Policy**

"TNB is committed to support the national green agenda and minimise the environmental impact of our business by applying sustainable, efficient operations and delivering green energy through the application of appropriate technologies and investments"



# BUILDING RENEWABLE ENERGY PORTFOLIO FOR GREENER FUTURE



50MW and 30MW Large Scale Solar (LSS) Photovoltaic Plants

# 

Expected COD: 1 November 2018 PPA Tenure: 21 years



TNB received a Letter of Acceptance of Offer from Energy Commission (EC) to develop a 30MW LSS Plant



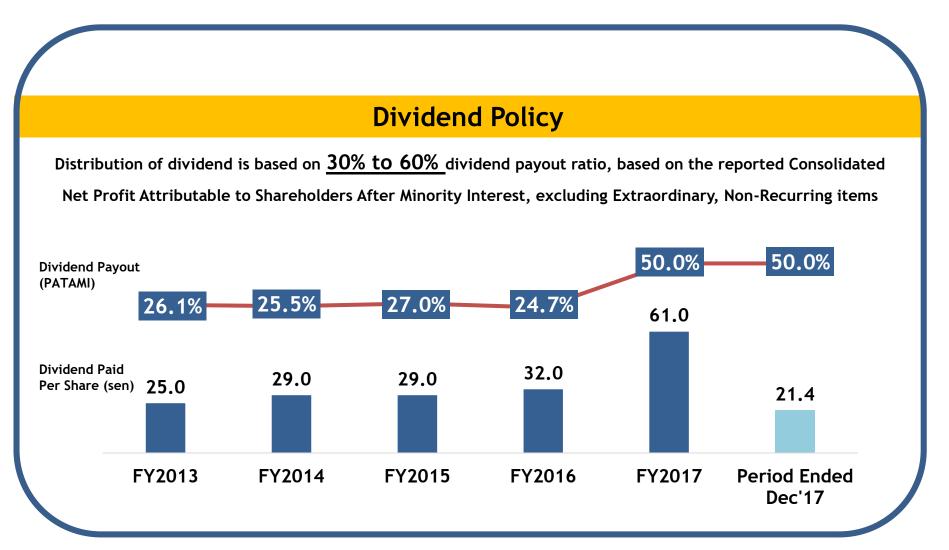


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# FY2017 MARKS THE HIGHEST DIVIDEND PAYOUT TO DATE



Continue to Maximise Shareholders Value Through Consistent and Sustainable Dividend Payout Ratio at 50%







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11.24

1Q

FY'17

11.16

2Q

FY'17

3Q

FY'17

#### Solid Finish for a Short Financial Year



5.20

Period

Ended

Dec'17

Revenue (RM bn) 33.7% 31.2% 31.2% 34.2% 15.83 12.55 12.46 11.61 4.30 3.89 3.79 3.49 Period \* Period 1Q 2Q 3Q 4Q 4Q FY'17 FY'17 Ended Ended FY'17 FY'17 FY'17 Nov'17 Dec'17

#### EBITDA (RM bn)

31.3%

3.86

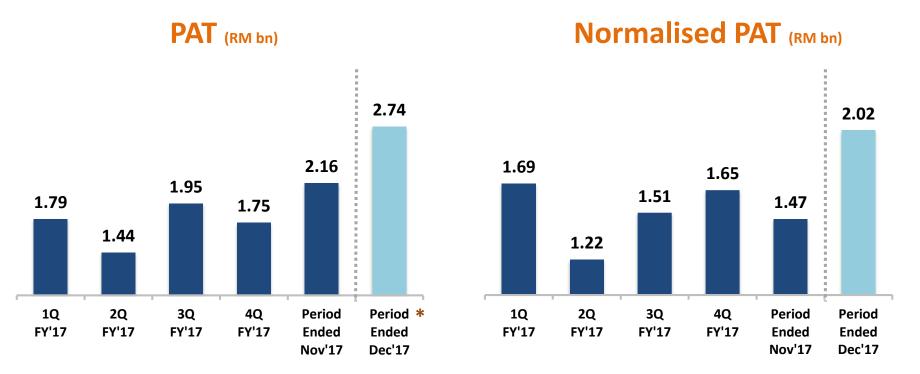
Period

Ended

Nov'17

**Financial Position Remain Intact** 

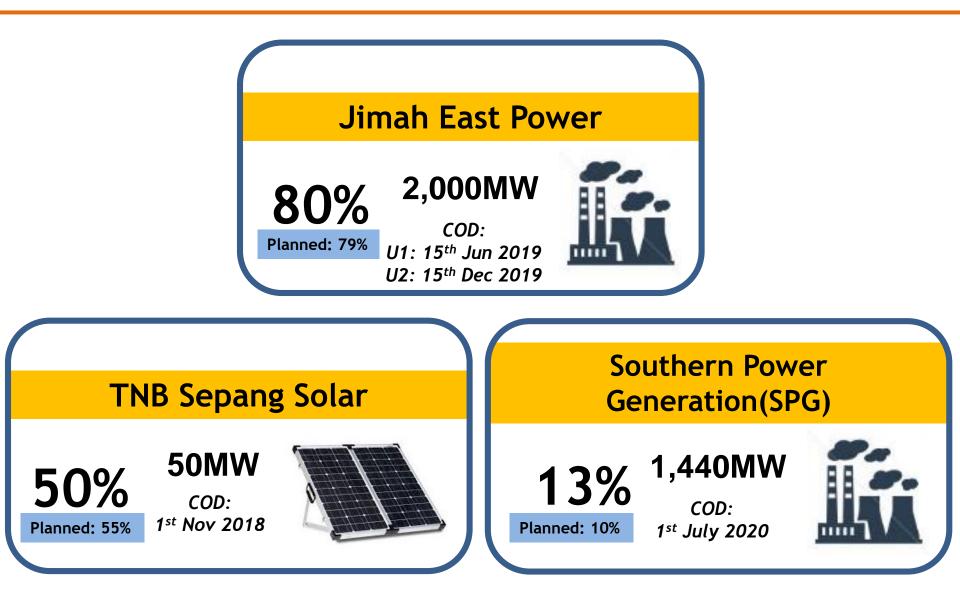






	eriod Ended 31 Dec'17	Aug'17
• Return on Assets (ROA) (%)	5.6	5.4
<ul> <li>Company CPU (sen/kwh)</li> </ul>	37.3	36.6
<ul> <li>Equivalent Plant Availability Factor (EAF) (%)</li> </ul>	85.7	89.5
Transmission System Minutes (mins)	0.05	0.23
• Distribution SAIDI (mins)	18.1	50.2

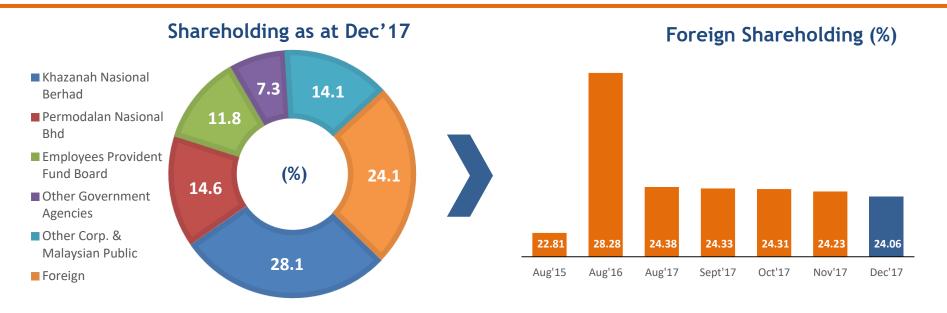




#### **Growing Market Capitalization**



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Market Capitalization as at Dec'17



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# **CONTACT DETAILS**

For further enquiries, kindly contact us at:



CoE INVESTOR RELATONS GROUP FINANCE DIVISION Tenaga Nasional Berhad 4<sup>th</sup> Floor, TNB Headquarters No.129, Jalan Bangsar, 59200 Kuala Lumpur, MALAYSIA Tel : +603 2296 6748 Fax : +603 2284 0095 Email : tenaga\_ird@tnb.com.my Website : www.tnb.com.my

**IR OFFICERS:** 

Anis Ramli	+603 2296 6821	<u>AnisRa@tnb.com.my</u>
Mimi Norliyana	+603 2296 6698	mimi.norliyana@tnb.com.my
Nizham Khan	+603 2296 6951	nizham.jamil@tnb.com.my



# THANK YOU

Prepared by: CoE Investor Relations