

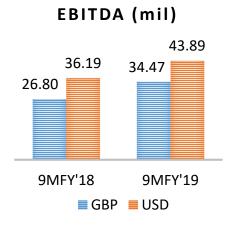
# Operational Excellence Exceeding Expectation



KEY HIGHLIGHTS

OVERSEAS ASSETS

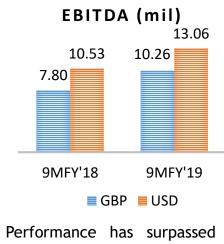
Vortex (Solar)



Higher EBITDA in 9MFY'19 due to higher generation driven by :

- better performance ratio
- increase in PPA price
- higher irradiance in UK





• Performance has surpassed the financial hurdle threshold and expectation.

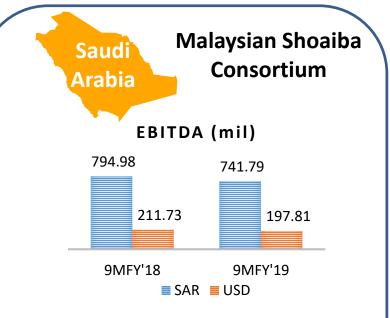
• There is potential upside in 2020 due to technology enhancement.

### Outlook

United

Kingdom

TNB will leverage on existing UK assets and market experience to build up a sizeable renewable energy portfolio by 2021 through acquisition of both brown and green field.



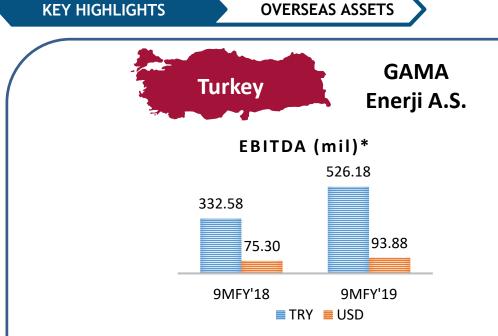
Shoaiba has declared accumulated dividend of c.USD35.20mil (110% of our cost of investment) since 2010. It is our best performing investment return and dividend yield.

### Outlook

The performance is expected to remain positive with a steady dividend distribution to shareholders.

## **Positive Signs of Recovery for GAMA**

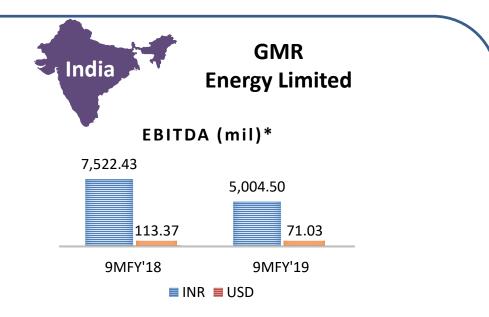




Higher EBITDA in 9MFY'19 due to improved performance of gas plant (99% availability), higher hydrology and better wind seasonality as compared to the previous period.

#### Outlook for GAMA:

- Operational performance has improved.
- Lenders in Turkey are more positive based on the recent success of debt restructuring of ACWA's Combined Cycle Gas Turbine (CCGT) and other infrastructure projects.
- GAMA Enerji's CCGT debt restructuring is progressing well and it is expected to complete by 1QFY'20.



Lower EBITDA in 9MFY'19 due to :

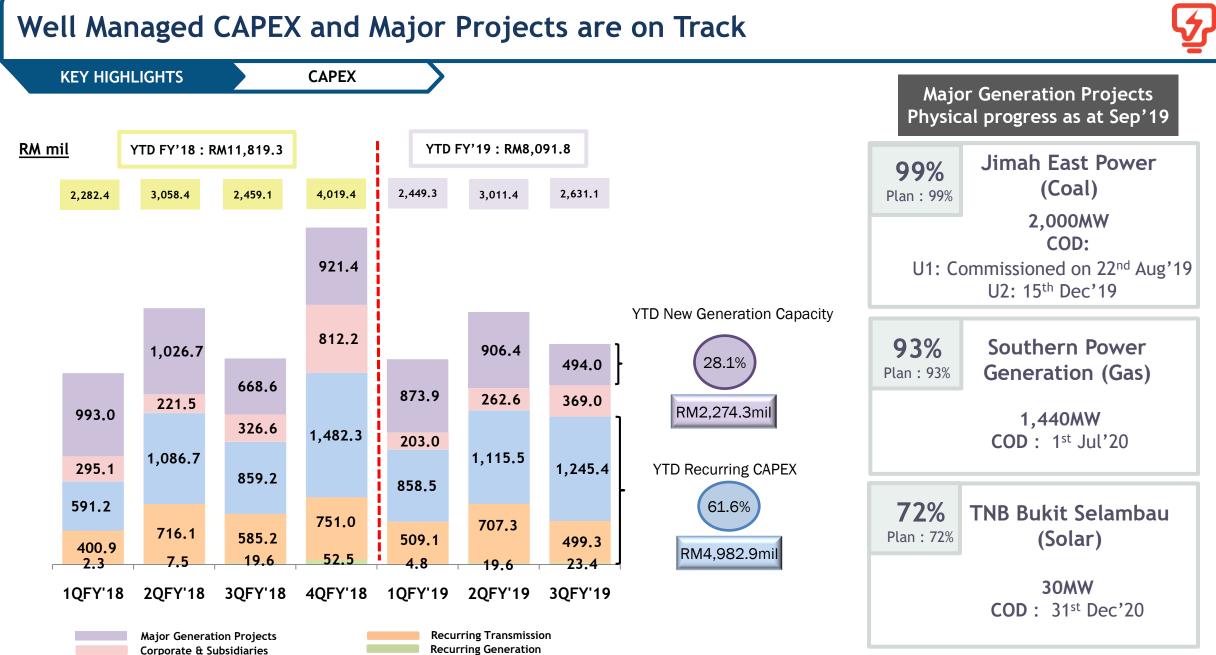
• pending regulatory coal pass-through which affects the recognition of revenue

#### Outlook for GMR:

- The management of GMR are now are working on a strategy which will benefit shareholders.
- TNB is considering all options, including management-led restructuring of GMR to ensure sustainable operations. Part of the restructuring outcome is through asset sale such as sale of hydro project in Nepal with a net proceed of around USD 20.0mn (recognized in 1QFY'19).

#### Note:

\* Reported 3 months lagging YTD EBITDA at 100% shareholdings



**Recurring Distribution** 





## Higher Sales of Electricity Rallied Y-o-Y Revenue



FINANCIAL DETAILS

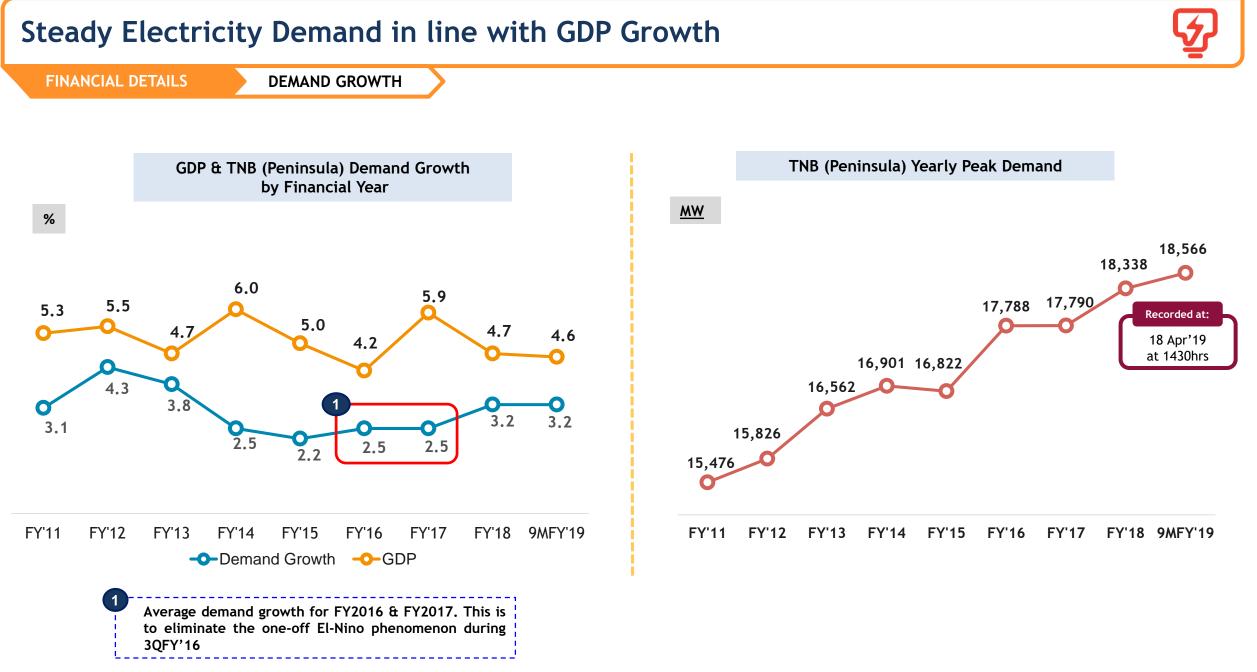
REVENUE

	1QFY'	19	2QFY'1 Restate		3QFY'	19	9MFY'1	19	9MFY'	18	Varia (9MFY'19 v	
UNITS SOLD	GWh		GWh		GWh		GWh		GWh		GWh	%
Sales of Electricity (GWh)												
- TNB	28,471.1		30,050.0		29,230.4		87,751.5		84,991.0		2,760.5	3.2
- EGAT (Export)	-		-		0.3		0.3		3.8		(3.5)	(92.1
- SESB	1,354.5		1,449.4		1,382.1		4,186.0		3,993.8		192.2	4.8
- LPL	148.1	2	368.6		320.3		837.0		710.8		126.2	17.8
- UK WIND (TNBI)	24.1		16.2		17.3		57.6		39.9		17.7	44.4
Total Units Sold (GWh)	29,997.8		31,884.2		30,950.4		92,832.4		89,739.3		3,093.1	3.4
REVENUE	RM mil	Sen/ KWh	RM mil	Sen/ KWh	RM mil	Sen/ KWh	RM mil	Sen/ KWh	RM mil	Sen/ KWh	(RM mil)	Sen/KWh
Sales of Electricity (RM)												
- TNB *	11,331.3	39.8	11,990.2	39.9	11,711.2	40.1	35,032.7	39.9	33,756.3	39.7	1,276.4	3.8
- EGAT (Export)	0.1	-	-	-	-	-	0.1	33.3	1.7	44.7	(1.6)	(94.1
- SESB	461.8	34.1	498.6	34.4	476.1	34.4	1,436.5	34.3	1,368.1	34.3	68.4	5.0
- LPL	88.3	59.6	157.6	42.8	140.2	43.8	386.1	46.1	257.3	36.2	128.8	<b>50.</b> 1
- UK WIND (TNBI)	31.3	129.9	20.9	129.0	22.1	127.7	74.3	129.0	49.7	124.6	24.6	49.5
Sales of Electricity	11,912.8	39.7	12,667.3	39.7	12,349.6	39.9	36,929.7	39.8	35,433.1	39.5	1,496.6	4.2
LPL Operating Lease (MFRS16)	9.3		(9.3)		-		-		27.9		(27.9)	(100.0
Unbilled Revenue	117.0		(221.2)		102.7		(1.5)		43.0		(44.5)	>(100.0)
Imbalance Cost Pass-Through	1,369.1		4 425.8		203.8		1,998.7		1,358.9		639.8	47.1
Other Regulatory Adjustment	(523.9)		(285.6)		(283.0)		5 (1,092.5)		-		(1,092.5)	>(100.0)
SESB Tariff Support Subsidy	125.3		91.5		87.2		304.0		351.9		(47.9)	(13.6
Total Sales of Electricity	13,009.6		12,668.5		12,460.3		38,138.4		37,214.8		923.6	2.5
Goods & Services	170.5		130.5		92.8		393.8		402.6		(8.8)	(2.2
Construction contracts	1.6		15.3		13.6		30.5		31.2		(0.7)	(2.2
Customers' Contribution	63.1		61.7		75.1		199.9		197.1		2.8	1.4
Total Revenue	13,244.8		12,876.0		12,641.8		38,762.6		37,845.7		916.9	2.4

	Lower Q-o-Q Sales of Electricity mainly contributed by industrial sector						
	ver performance due to low demand 3QFY'19						
i.	Y-o-Y higher because units sold in 9MFY'18 consisted of the units sold within the 7 months period since its acquisition (Mar'18) Q-o-Q higher due to seasonal revenue cycle (approaching winter seasons)						
i. ii.	Y-o-Y higher due to increased in generation cost and units generated (Refer <u>Y-o-Y Fuel Cost</u> slide) Q-o-Q lower due to reduction in generation cost and units generated.						
	fer Appendix : her Regulatory Adjustment Part 1 & 2						

TNB Sepang Solar units generated as at Sept'19 : 84.1 GWh Expected UG as at Sept'19 : 80.5 GWh

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## Stable Y-o-Y Growth for All Sectors (GWh)

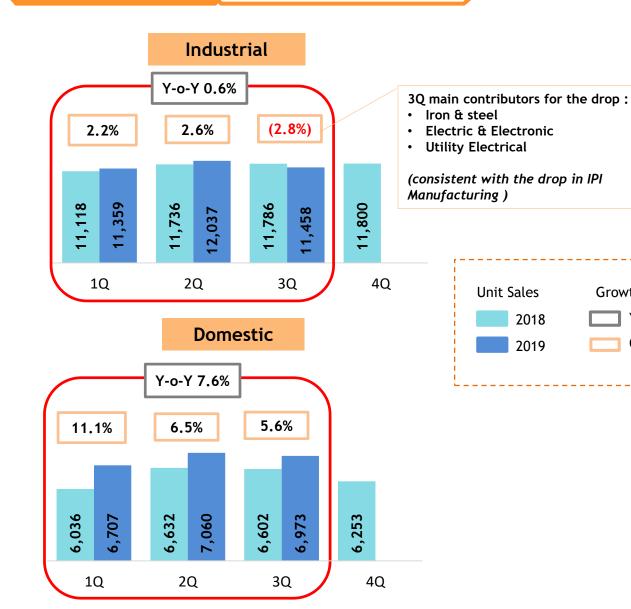
FINANCIAL DETAILS

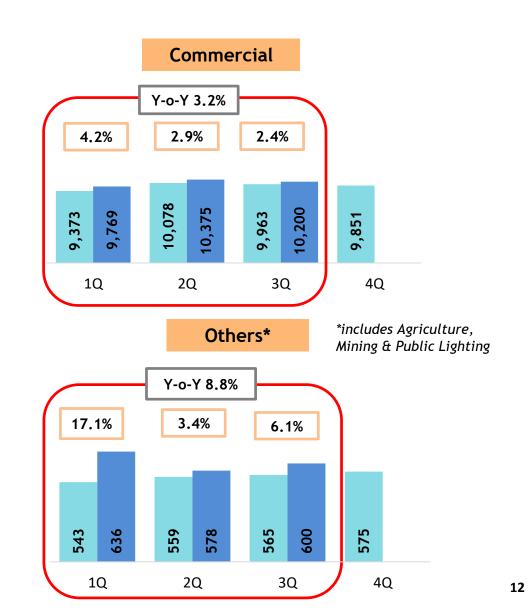
SECTORAL GROWTH (PENINSULA)

Growth

Y-o-Y

Q-0-Q





## Lower Non-Generation Costs Recorded

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FINANCIAL DETAILS

OPEX without MFRS 16

	1QFY'19 (RM mil)	2QFY'19 (RM mil)	3QFY'19 (RM mil)	9MFY'19 (RM mil)	9MFY'18 (RM mil)	Varia (9MFY'19 vs	
	Restated					RM mil	%
Non-TNB IPPs Costs	4,835.5	4,496.5	4,746.0	14,078.0	11,809.4	2,268.6	19.2
Capacity Payment	1,313.9	1,329.9	1,321.2	3,965.0	3,113.4	851.6	27.4
Energy Payment	3,521.6	3,166.6	3,424.8	10,113.0	8,696.0	1,417.0	16.3
TNB Fuel Costs	2,511.3	3,092.4	2,367.5	7,971.2	8,493.8	(522.6)	(6.2)
Fuel Costs	3,164.7	3,232.1	2,765.5	9,162.3	8,431.3	731.0	8.7
Fuel Price Adjustment	(592.0)	(64.8)	(311.6)	(968.4)	231.8	(1,200.2)	>100.0
Fuel Subsidy - SESB	(61.4)	(74.9)	(86.4)	(222.7)	(169.3)	(53.4)	31.5
Total Cost of Generation	7,346.8	7,588.9	7,113.5	22,049.2	20,303.2	1,746.0	8.6
Staff Costs	729.2	1,014.0	996.1	2 2,739.3	2,899.3	(160.0)	(5.5)
Repair & Maintenance	460.7	489.4	530.6	1,480.7	1,466.2	14.5	1.0
TNB General Expenses	494.7	512.3	503.1	1,510.1	1,325.8	184.3	13.9
Subs. Cost of Sales & Opex	446.3	180.8	188.7	3 815.8	1,339.1	(523.3)	(39.1)
Total Non-Generation Costs	2,130.9	2,196.5	2,218.5	6,545.9	7,030.4	(484.5)	(6.9)
Total Operating Expenses	9,477.7	9,785.4	9,332.0	28,595.1	27,333.6	1,261.5	4.6
Depreciation & Amortisation	1,632.8	1,670.5	1,718.8	5,022.1	4,706.6	315.5	6.7
Total Operating Expenses	11,110.5	11,455.9	11,050.8	33,617.2	32,040.2	1,577.0	4.9

	Restatement of 1QFY'19 previously reported as capacity payment of RM1,149.5mil							
2	Reduction mainly due to reversal of LTIP provision							
- 1	i. Lower impairment as	follows	I					
	9MFY'19	9MFY'18	I					
	RM198.3mil GMR in 1QFY19	RM498.0mil GAMA in 2Q & 3QFY18						
	ii. Lower Cost of Sales & OPEX of subsidiaries							

OPEX (without MFRS 16) against Revenue

<b>57%</b>	13%	<b>7%</b>	4%	4%	2%
Gen Cost	Depn S	taff Cost	Gen Exp	R&M	Subs COS & OPEX

# Increase Y-o-Y Generation Costs due to Higher Gas Price & Consumption

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FINANCIAL DETAILS

Y-o-Y FUEL COST

### <u>Table A</u>

Т	TNB & IPP Fuel Costs for Peninsula (RM mn)							
Evel True e			Varian	се				
Fuel Type	9MFY'19	9MFY'18	RM mil	%				
Coal	7,790.3	8,585.6	(795.3)	(9.3)				
Gas	8,364.6	7,173.7	1,190.9	16.6				
LNG	215.0	97.3	117.7	>100				
Dist.	29.4	35.7	(6.3)	(17.6)				
Oil	17.1	14.9	2.2	14.8				
Solar	125.8	0.0	125.8	>100				
Total*	16,542.2	15,907.2	635.0	4.0				

\* Comprise TNB Fuel Costs & fuel payment to IPPs (part of Energy Payment)

### <u>Table B</u>

TNB & IPP Units Generated for Peninsula (Gwh)							
Fuel Type	9MFY'19	9MFY'18	Variar Gwh	nce %			
Coal	51,289.3	52,372.8	(1,083.5)	(2.1)			
Gas & LNG	40,366.2	38,557.0	1,809.2	4.7			
Dist.	21.0	26.3	(5.3)	(20.2)			
Oil	41.6	38.0	3.6	9.5			
Hydro	2,458.7	3,671.1	(1,212.4)	(33.0)			
Solar	503.9	0.0	503.9	>100			
Total	94,680.7	94,665.2	15.5	0.0			

#### <u>Table C</u>

Fuel Cost Related Data	9MFY'19	9MFY'18
Daily Average Gas Volume (mmscfd)	1,030	963
LNG Consumption (Days)	157	113
Average LNG Price (RM/mmbtu)	35.03	30.89
Average Piped Gas Price (RM/mmbtu)	28.70	24.70
Average Coal Price Delivered (USD/MT)(CIF)	81.7	94.8
Average Coal Price Delivered (RM/MT)(CIF)	337.6	379.9
Coal Consumption (mn MT)	22.0	22.8
Generation cost per unit (sen/kWh)	17.5	16.8

### <u>Table D</u>

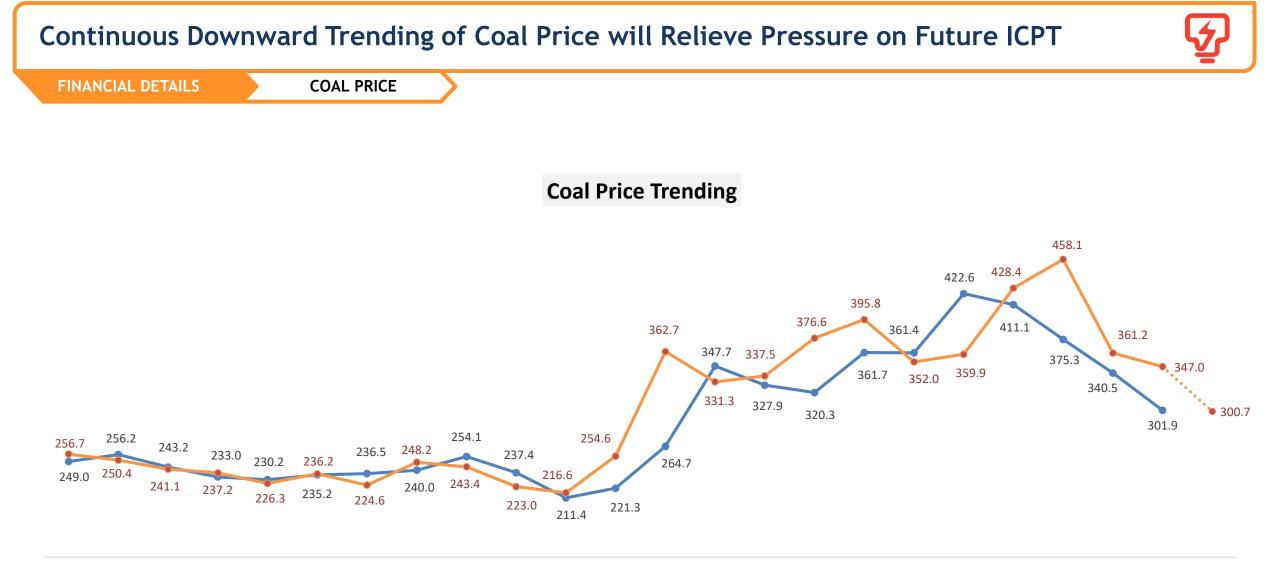
Average Coal Price Delivered (USD/MT)							
	9MFY'19	9MFY'18	Variance				
			USD	%			
FOB	73.8	87.1	(13.3)	(15.3)			
Freight	7.4	7.2	0.2	2.8			
Others	0.5	0.5	0.0	0.0			
CIF	81.7	94.8	(13.1)	(13.8)			

## Higher Units Generated from Gas in 9MFY'19 Due to Coal Plant Outages

FINANCIAL DETAILS

GENERATION MIX





1QFY'14 2QFY'14 3QFY'14 4QFY'14 1QFY'15 2QFY'15 3QFY'15 4QFY'15 1QFY'16 1QFY'16 3QFY'16 4QFY'16 1QFY'17 2QFY'17 3QFY'17 1QFY'18 2QFY'18 3QFY'18 4QFY'18 1QFY'19 2QFY'19 3QFY'19 4QFY'19

----Average Coal Price Delivered (RM/MT)(CIF) ---- Applicable Coal Price (ACP) (RM/MT)

### **Continuous Effective ICPT Implementation**

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**FINANCIAL DETAILS** 

ICPT

	1QFY'18	2QFY'18	3QFY'18	9MFY'18	1QFY'19	2QFY'19	3QFY'19	9MFY'19
	(RM mil)	(RM mil)	(RM mil)	(RM mil)				
Reported Total Cost of Generation (with MFRS16)	6,146.9	6,625.8	7,530.5	20,303.2	6,092.3	6,302.6	5,903.4	18,298.3
Adjustment not related to IBR:	293.7	58.5	(464.6)	(112.4)	1,671.6	1,107.7	1,263.1	4,042.4
Fuel Price Adjustment	212.6	(22.0)	(422.4)	(231.8)	1 592.0	64.8	311.6	968.4
MFRS117/16 (Capacity payment)	262.8	315.3	264.4	842.5	2 1,254.5	1,286.3	1,210.1	3,750.9
SESB Net Generation Cost	(181.5)	(159.5)	(184.6)	(525.6)	(122.8)	(118.8)	(154.4)	(396.0)
LPL Fuel Cost	(0.2)	(75.3)	(122.0)	(197.5)	(52.1)	(124.6)	(104.2)	(280.9)
TNB Capacity and VOR: SLA & SPV	1,458.5	1,406.2	1,234.2	4,098.9	1,306.1	1,143.5	943.5	3,393.1
Total Generation Costs (Related to IBR)	7,899.1	8,090.5	8,300.1	24,289.7	9,070.0	8,553.8	8,110.0	25,733.8
	1QFY'18	2QFY'18	3QFY'18	9MFY'18	1QFY'19	2QFY'19	3QFY'19	9MFY'19
	(RM mil)	(RM mil)	(RM mil)	(RM mil)				
Single Buyer Actual Generation Costs: (A)	7,899.1	8,090.5	8,300.1	24,289.7	9,070.0	8,553.8	8,110.0	25,733.8
Actual Sales (Gwh)	27,069.5	29,001.1	28,920.4	84,991.0	28,471.1	30,050.0	29,230.4	87,751.5
Single Buyer Tariff (RM/kwh)	0.2705	0.2705	0.2705	0.2705	0.2705	0.2705	0.2705	0.2705
Actual Gen Cost Recovered (RM mn) (B)	7,322.3	7,844.8	7,821.4	22,988.5	7,701.4	8,127.4	7,906.3	23,735.1
ICPT Surcharge (C)	576.8	245.7	478.8	1,301.3	1 269 6	406.2	203.8	1 009 7
(C = A - B)	570.8	243.7	4/0.8	1,301.3	1,368.6	426.3	203.8	1,998.7
(+) Prior Year Accounting Adjustment	57.3	(0.5)	0.8	57.6	0.5	(0.5)	0.0	0.0
ICPT	634.1	245.2	479.6	1.358.9	1.369.1	425.8	203.8	1,998.7

### <sup>1</sup><u>Coal price & Applicable Coal Price (ACP) comparison</u>

÷		1QFY19	2QFY19	3QFY19
2	Average Coal Price Delivered (RM/MT)	375.30	340.50	301.88
I.	Average Coal Price Delivered (RM/mmBtu) *	17.16	15.56	13.90
L	ACP (RM/mmBtu) **	20.99	16.55	15.90

\* Based on internal conversion

\*\*Source : Energy Commission Website

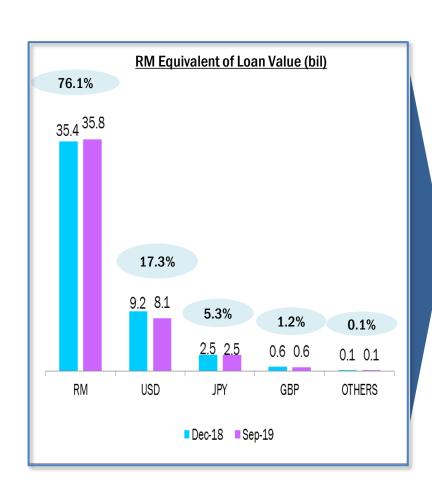
In 3QFY'19, the base ACP (RM15.90/mmBtu) used for billing the generators is higher than the coal price paid to supplier (RM13.90/mmBtu). Hence, TNB Fuel over-recovered the differential amount from the generators. Any movement in FPA will be reconciled in the following quarters.



### **Gearing Level Registered at 44.4%**

GEARING

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#### Note:

**FINANCIAL DETAILS** 

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

Statistics	30 <sup>th</sup> Sept'19	31 <sup>st</sup> Dec'18
Total Debt (RM' Bil)	47.0	47.8
Net Debt (RM' Bil)	30.3	29.6
Gearing (%)	44.4	44.8
Net Gearing (%)	28.6	27.7
Fixed : Floating	98:2	95:5
Final Exposure	98:2	95:5
Weighted Average Cost of Borrowing	2 5.04	4.98
Final Exposure	5.05	4.99

\* Net Debt excludes deposits, bank and cash balances & investment in UTF

\*\* Inclusive of interest rate swap

2

Closing FOREX	30 <sup>th</sup> Sept'19	31 <sup>st</sup> Dec'18
USD/RM	4.19	4.14
100YEN/RM	3.88	3.75
GBP/RM	5.15	5.27
USD/YEN	107.99	110.28

Lower mainly due to repayment of Mizuho Loan (USD300mil) amounting of RM1,242.5mil

Increase due to repayment of Mizuho Loan with lower interest rate

# Net MFRS16 Impact of RM202.7 million to the Group PAT

FINANCIAL DETAILS

MFRS16

As of 9MFY'19, the net impact of MFRS 16 is negative to the PAT by RM202.7mil

Profit & Loss Items (9MFY'19)						
RM mil	With MFRS 16	Without MFRS 16	Variance			
Revenue	38,762.6	38,762.6	0.0			
Capacity Payment	(214.1)	(3,469.1)	3,255.0			
EBITDA	14,281.2	11,026.2	3,255.0			
Depreciation	(7,424.2)	(5,022.1)	(2,402.1)			
Finance Cost	(2,426.3)	(1,370.7)	(1,055.6)			
Profit After Tax	3,860.9	4,063.6	(202.7)			





# Year-on-Year (Y-o-Y) Analysis

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APPENDIX 1

P&L WITH MFRS 16

			Varia	nce
RM mil	9MFY'19	9MFY'18	RM mil	%
Revenue	38,762.6	37,845.7	916.9	2.4
Operating expenses (without depreciation)	(24,844.2)	(27,333.6)	2,489.4	(9.1)
Net loss on impairment of financial instruments	(413.9)	(200.9)	(213.0)	>100.0
Other operating income	776.7	574.0	202.7	35.3
EBITDA	14,281.2	10,885.2	3,396.0	31.2
EBITDA Margin (%)	36.8%	28.8%		
Depreciation	(7,424.2)	(4,706.6)	(2,717.6)	57.7
EBIT	6,857.0	6,178.6	678.4	11.0
Foreign exchange:				
- Transaction gain / (loss)	(81.5)	(13.6)	(67.9)	>100.0
- Translation gain / (loss)	(76.0)	(247.3)	171.3	(69.3)
Share of results of joint ventures	18.7	20.1	(1.4)	(7.0)
Share of results of associates	93.1	(183.9)	277.0	>(100.0)
Profit before finance cost	6,811.3	5,753.9	1,057.4	18.4
Fair value of financial instrument	(84.6)	8.8	(93.4)	>(100.0)
Finance income	402.5	282.9	119.6	42.3
Finance cost	(2,426.3)	(1,201.7)	(1,224.6)	>100.0
Profit from ordinary activities before taxation	4,702.9	4,843.9	(141.0)	(2.9)
Taxation and Zakat:				
<ul> <li>Company and subsidiaries</li> </ul>	(945.5)	(900.5)	(45.0)	5.0
- Deferred taxation	103.5	(46.8)	150.3	>(100.0)
Profit for the period	3,860.9	3,896.6	(35.7)	(0.9)
Attributable to:				
- Owners of the Company	3,875.9	3,858.0	17.9	0.5
- Non-controlling interests	(15.0)	38.6	(53.6)	>100.0
Profit for the period	3,860.9	3,896.6	(35.7)	(0.9)

# Year-on-Year (Y-o-Y) Analysis without MFRS 16



APPENDIX 2

PROFIT & LOSS

RM mil	9MFY'19	9MFY'18	Varia	nce
	914119	91414-18	RM mil	%
Revenue	38,762.6	37,845.7	916.9	2.4
Operating expenses (without depreciation)	(28,099.2)	(27,333.6)	(765.6)	2.8
Net loss on impairment of financial instruments	(413.9)	(200.9)	(213.0)	>(100.0)
Other operating income	776.7	574.0	202.7	35.3
EBITDA	11,026.2	10,885.2	141.0	1.3
EBITDA Margin (%)	28.4%	28.8%		
Depreciation	(5,022.1)	(4,706.6)	(315.5)	6.7
EBIT	6,004.1	6,178.6	(174.5)	(2.8)
Foreign exchange:				
- Transaction gain / (loss)	(81.5)	(13.6)	(67.9)	>100.0
- Translation gain / (loss)	(76.0)	(247.3)	171.3	(69.3)
Share of results of joint ventures	18.7	20.1	(1.4)	(7.0)
Share of results of associates	93.1	(183.9)	277.0	>100.0
Profit before finance cost	5,958.4	5,753.9	204.5	3.6
Fair value of financial instrument	(84.6)	8.8	(93.4)	>(100.0)
Finance income	402.5	282.9	119.6	42.3
Finance cost	(1,370.7)	(1,201.7)	(169.0)	>100.0
Profit from ordinary activities before taxation	4,905.6	4,843.9	61.7	1.3
Taxation and Zakat:				
<ul> <li>Company and subsidiaries</li> </ul>	(945.5)	(900.5)	(45.0)	5.0
- Deferred taxation	103.5	(46.8)	150.3	>100.0
Profit for the period	4,063.6	3,896.6	167.0	4.3
Attributable to:				
- Owners of the Company	4,078.6	3,858.0	220.6	5.7
- Non-controlling interests	(15.0)	38.6	(53.6)	>(100.0)
Profit for the period	4,063.6	3,896.6	167.0	4.3

## Quarter-on-Quarter (Q-o-Q) Analysis



APPENDIX 3

P&L WITH MFRS 16

RM mil	3QFY'19	2QFY'19	1057/10	Variance (3Q vs 2	
RMIIII	301119	201119	1QFY'19	RM mil	%
Revenue	12,641.8	12,876.0	13,244.8	(234.2)	(1.8)
Operating expenses (without depreciation)	(8,121.9)	(8,499.1)	(8,223.2)	377.2	(4.4)
Net loss on impairment of financial instruments	(44.3)	(89.9)	(279.7)	45.6	(50.7)
Other operating income	328.3	226.9	221.5	101.4	44.7
EBITDA	1 4,803.9	4,513.9	4,963.4	290.0	6.4
EBITDA Margin (%)	38.0%	35.1%	37.5%		
Depreciation	(2,525.3)	(2,441.4)	(2,457.5)	(83.9)	3.4
EBIT	2,278.6	2,072.5	2,505.9	206.1	9.9
Foreign exchange:					
- Transaction gain / (loss)	(18.8)	(6.7)	(56.0)	(12.1)	>100.0
- Translation gain / (loss)	(67.3)	(272.2)	263.5	204.9	(75.3)
Share of results of joint ventures	6.6	6.3	5.8	0.3	4.8
Share of results of associates	23.1	81.9	(11.9)	(58.8)	(71.8)
Profit before finance cost	2,222.2	1,881.8	2,707.3	340.4	18.1
Fair value of financial instrument	(34.7)	7.6	(57.5)	(42.3)	>(100.0)
Finance income	140.7	133.5	128.3	7.2	5.4
Finance cost	(781.7)	(940.1)	(704.5)	158.4	(16.8)
Profit from ordinary activities before taxation	1,546.5	1,082.8	2,073.6	463.7	42.8
Taxation and Zakat:					
- Company and subsidiaries	(314.9)	(116.8)	(513.8)	(198.1)	>100.0
- Deferred taxation	(22.0)	164.1	(38.6)	(186.1)	>(100.0)
Profit for the period	1,209.6	1,130.1	1,521.2	79.5	7.0
Attributable to:					
- Owners of the Company	1,202.9	1,116.2	1,556.8	86.7	7.8
- Non-controlling interests	6.7	13.9	(35.6)	(7.2)	(51.8)
Profit for the period	1,209.6	1,130.1	1,521.2	79.5	7.0

#### Notes:



### Q-o-Q EBITDA is higher due to:

- Lower OPEX mainly due to lower generation costs.
- Increase in other operating income mainly due to recognition of liquidated damages received by JEP of RM145.4mil.

# Quarter-on-Quarter (Q-o-Q) Analysis without MFRS 16



**APPENDIX 4** 

PROFIT & LOSS

	2057/14.0	2052/40	105/140	Variance (3Q vs 2Q)		
RM mil	3QFY'19	2QFY'19	1QFY'19	RM mil	%	
Revenue	12,641.8	12,876.0	13,244.8	(234.2)	(1.8)	
Operating expenses (without depreciation)	(9,184.0)	(9,601.9)	(9,313.3)	417.9	(4.4)	
Net loss on impairment of financial instruments	(44.3)	(89.9)	(279.7)	45.6	(50.7)	
Other operating income	328.3	226.9	221.5	101.4	44.7	
EBITDA	3,741.8	3,411.1	3,873.3	330.7	9.7	
EBITDA Margin (%)	29.6%	26.5%	29.2%			
Depreciation	(1,718.8)	(1,670.5)	(1,632.8)	(48.3)	2.9	
EBIT	2,023.0	1,740.6	2,240.5	282.4	16.2	
Foreign exchange:						
- Transaction gain / (loss)	(18.8)	(6.7)	(56.0)	(12.1)	>100.0	
- Translation gain / (loss)	(67.3)	(272.2)	263.5	204.9	(75.3)	
Share of results of joint ventures	6.6	6.3	5.8	0.3	4.8	
Share of results of associates	23.1	81.9	(11.9)	(58.8)	(71.8)	
Profit before finance cost	1,966.6	1,549.9	2,441.9	416.7	26.9	
Fair value of financial instrument	(34.7)	7.6	(57.5)	(42.3)	>(100.0)	
Finance income	140.7	133.5	128.3	7.2	5.4	
Finance cost	(435.6)	(473.2)	(461.9)	37.6	(7.9)	
Profit from ordinary activities before taxation	1,637.0	1,217.8	2,050.8	419.2	34.4	
Taxation and Zakat:						
- Company and subsidiaries	(314.9)	(116.8)	(513.8)	(198.1)	>100.0	
- Deferred taxation	(22.0)	164.1	(38.6)	(186.1)	>(100.0)	
Profit for the period	1,300.1	1,265.1	1,498.4	35.0	2.8	
Attributable to:						
- Owners of the Company	1,293.4	1,251.2	1,534.0	42.2	3.4	
- Non-controlling interests	6.7	13.9	(35.6)	(7.2)	(51.8)	
Profit for the period	1,300.1	1,265.1	1,498.4	35.0	2.8	

### Other Regulatory Adjustment (Part 1)

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**APPENDIX 5** 

REGULATORY ADJ.

Components of Other Regulatory Adjustment	1QFY'19 (RM mil)	2QFY'19 (RM mil)	3QFY'19 (RM mil)	YTD 9MFY'19 (RM mil)
Excess Revenue for Revenue Cap & Price Cap	218.7	223.9	198.6	641.2
Refund of Excess Single Buyer Working Capital	15.9	15.9	15.9	47.7
Refund of Interests on Customer Deposits	15.5	15.5	15.5	46.5
Refund of Other Income Related to Regulated Business	93.5	30.3	53.0	176.8
CAPEX ECS (Efficiency Carryover Scheme)	2 51.1	0.0	0.0	51.1
OPEX ECS (Efficiency Carryover Scheme)	129.2	0.0	0.0	129.2
	523.9	285.6	283.0	1,092.5

Refund of Other Income Related to Regulated Business for 1QFY'19 (Jan-Mar'19) is RM93.5mil, which includes the actual amount of Oct'18 – Dec'18 of RM74.2mil.

The major components of the Refund of Other Income Related to Regulated Business are sales of scrap and Minimum Monthly Charge. Minimum Monthly Charge is referred to the minimum amount charged to consumers with zero consumption. The amount collected however formed part of Other Regulatory Adjustment as the regulated entities already earned from the regulated asset base derived from the CAPEX spent on building up the electricity infrastructure regardless of consumption.

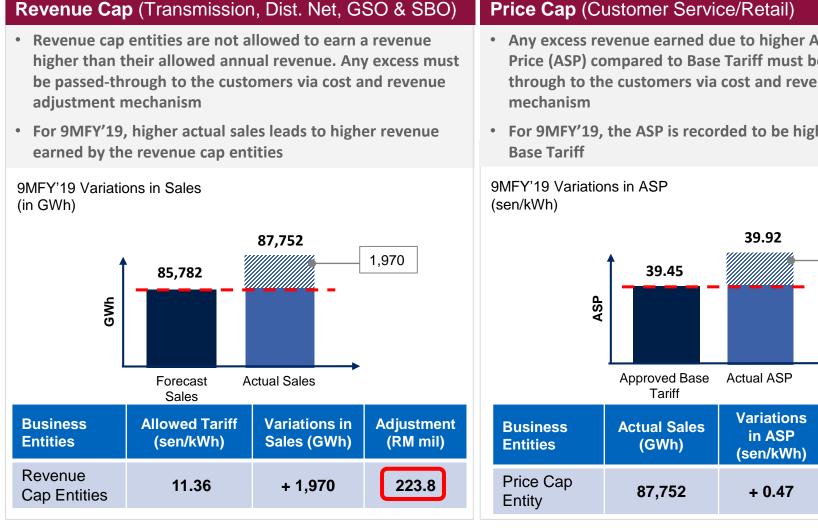
a) The CAPEX Efficiency Carry-Over Scheme (ECS) adjustment shares the savings where actual CAPEX are lower than the approved levels included in Annual Revenue Requirements between the regulated business entities (RBE) and electricity customers. The balance of the <u>one-off</u> financing benefits to be returned from the unspent CAPEX in RP1 was recorded in this quarter at RM51.1mil.

b) The OPEX Efficiency Carry-Over Scheme (ECS) adjustment is intended to ensure that each RBE retains the same benefit or incurs the same cost of outperforming or l underperforming, respectively, against forecast operating expenditures in any given year of the Regulatory Period. This ensures that the RBE is indifferent as to the timing l of making improvements in the efficiency of operating expenditures. The <u>one-off</u> net penalty for RP1 to be returned is RM129.2mil

## Other Regulatory Adjustment (Part 2)

**APPENDIX 6** 

**REGULATORY ADJ.** 



Price Cap (Customer Service/Retail)

- Any excess revenue earned due to higher Average Selling Price (ASP) compared to Base Tariff must be passedthrough to the customers via cost and revenue adjustment
- For 9MFY'19, the ASP is recorded to be higher than the

0.47

Adjustment

(RM mil)

417.4

\* Numbers manually computed will not match due to decimal variance

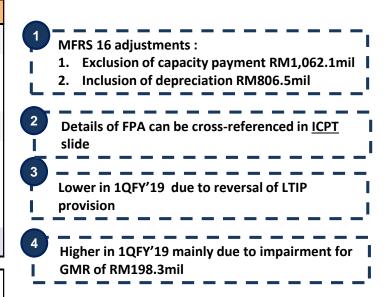
# **Operating Expenses**



APPENDIX 7

OPEX WITH MFRS 16

	1QFY'19 (BM mil)	2QFY'19	3QFY'19	9MFY'19 (PM mil)	9MFY'18 (PM mil)	Varia (9MFY'19 vs	
	(RM mil)	(RM mil)	(RM mil)	(RM mil)	(RM mil)	RM mil	%
Non-TNB IPPs Costs	3,581.0	3,210.2	3,535.9	10,327.1	11,809.4	(1,482.3)	(12.6)
Capacity Payment	59.4	43.6	1 111.1	214.1	3,113.4	(2,899.3)	(93.1)
Energy Payment	3,521.6	3,166.6	3,424.8	10,113.0	8,696.0	1,417.0	16.3
TNB Fuel Costs	2,511.3	3,092.4	2,367.5	7,971.2	8,493.8	(522.6)	(6.2)
Fuel Costs	3,164.7	3,232.1	2,765.5	9,162.3	8,431.3	731.0	8.7
Fuel Price Adjustment	(592.0)	(64.8)	(311.6)	(968.4)	231.8	(1,200.2)	(517.8)
Fuel Subsidy - SESB	(61.4)	(74.9)	(86.4)	(222.7)	(169.3)	(53.4)	31.5
Total Cost of Generation	6,092.3	6,302.6	5,903.4	18,298.3	20,303.2	(2,004.9)	(9.9)
Staff Costs	729.2	1,014.0	996.1	2,739.3	2,899.3	(160.0)	(5.5)
Repair & Maintenance	460.7	489.4	530.6	1,480.7	1,466.2	14.5	1.0
TNB General Expenses	494.7	512.3	503.1	1,510.1	1,325.8	184.3	13.9
Subs. Cost of Sales & Opex	446.3	180.8	188.7	815.8	1,339.1	(523.3)	(39.1)
Total Non-Generation Costs	2,130.9	2,196.5	2,218.5	6,545.9	7,030.4	(484.5)	(6.9)
Total Operating Expenses	8,223.2	8,499.1	8,121.9	24,844.2	27,333.6	(2,489.4)	(9.1)
Depreciation & Amortisation	2,457.5	2,441.4	2,525.3	7,424.2	4,706.6	2,717.6	57.7
Total Operating Expenses	10,680.7	10,940.5	10,647.2	32,268.4	32,040.2	228.2	0.7



## Lower Fuel Costs for Peninsula in 3QFY'19 due Lower Coal Price & Consumption



**APPENDIX 8** 

Q-o-Q FUEL COST

### <u>Table A</u>

TNB & IPP Fuel Costs Peninsula (RM mil)						
Fuel Type	3QFY'19	2QFY'19	1QFY'19	Varian 3Q VS : RM mil		
Gas	2,948.7	2,727.7	2,688.2	221.0	8.2	
Coal	2,163.1	2,841.1	2,786.1	(678.0)	(24.3)	
LNG	31.3	139.6	44.1	(108.3)	>100	
Dist.	13.5	1.9	14.0	11.6	82.9	
Oil	4.8	3.0	9.3	1.8	19.4	
Solar	45.7	42.2	37.9	3.5	9.2	
Total*	5,207.1	5,755.5	5,579.6	(548.4)	(9.8)	

\* Comprise TNB Fuel Costs & fuel payment to IPPs (part of Energy Payment)

#### <u>Table B</u>

TNB & IPP Units Generated Peninsula (Gwh)							
Fuel Type	3QFY'19	2QFY'19	1QFY'19	Variano 3Q VS 2 Gwh			
Gas & LNG	13,899.8	13,298.7	13,167.7	601.1	4.6		
Coal	16,391.3	17,721.2	17,176.8	(1,329.9)	(7.7)		
Dist.	0.30	-	20.7	0.3	>100		
Oil	15.7	2.0	23.9	13.7	57.3		
Hydro	809.9	734.1	914.7	75.8	8.3		
Solar	200.8	162.8	140.3	38.0	27.1		
Total	31,317.8	31,918.8	31,444.1	(601.0)	(1.9)		

### <u>Table C</u>

Fuel Cost Related Data	3QFY'19	2QFY'19	1QFY'19
Daily Average Gas Volume (mmscfd)	1,057	1,059	973
LNG Consumption (Days)	57	60	40
Average LNG Price (RM/mmbtu)	32.75	35.73	36.59
Average Piped Gas Price (RM/mmbtu)	28.70	27.20	27.20
Average Coal Price Delivered (USD/MT)(CIF)	72.4	82.1	91.8
Average Coal Price Delivered (RM/MT)(CIF)	301.9	340.5	375.3
Coal Consumption (mn MT)	7.1	7.6	7.3
Generation cost per unit (sen/kWh)	16.6	18.0	17.7

### <u>Table D</u>

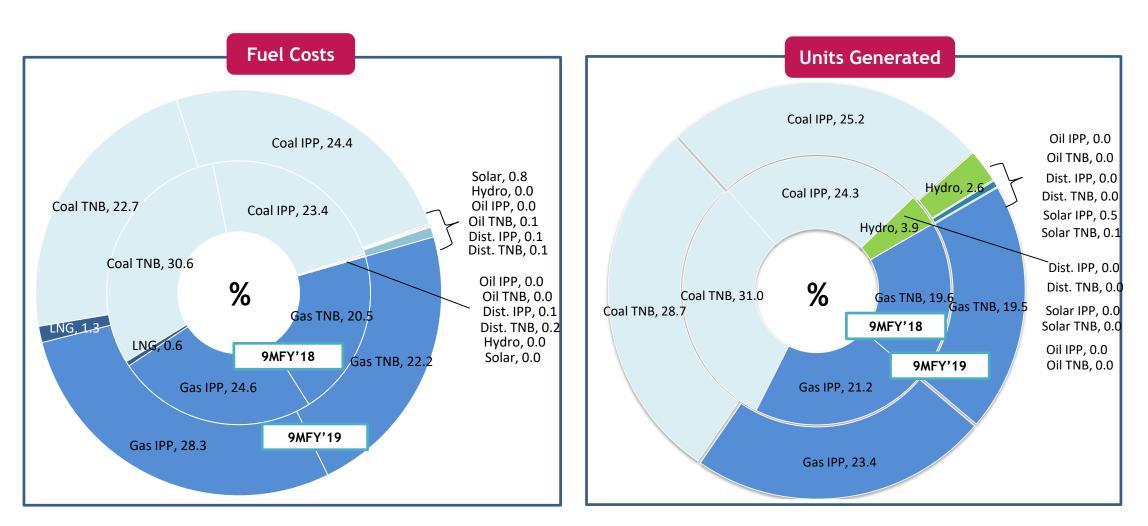
Average Coal Price Delivered (USD/MT)						
	3QFY'19	2QFY'19 1QFY'19		Varia 3Q v		
				USD	%	
FOB	64.7	74.5	83.7	(9.2)	(11.0)	
Freight	7.3	7.2	7.6	(0.4)	(5.5)	
Others	0.4	0.4	0.5	(0.1)	(13.0)	
CIF	72.4	82.1	91.8	(9.7)	(10.6)	

## Fuel Costs (TNB & IPPs - Peninsula)

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**APPENDIX 9** 

**GENERATION MIX** 



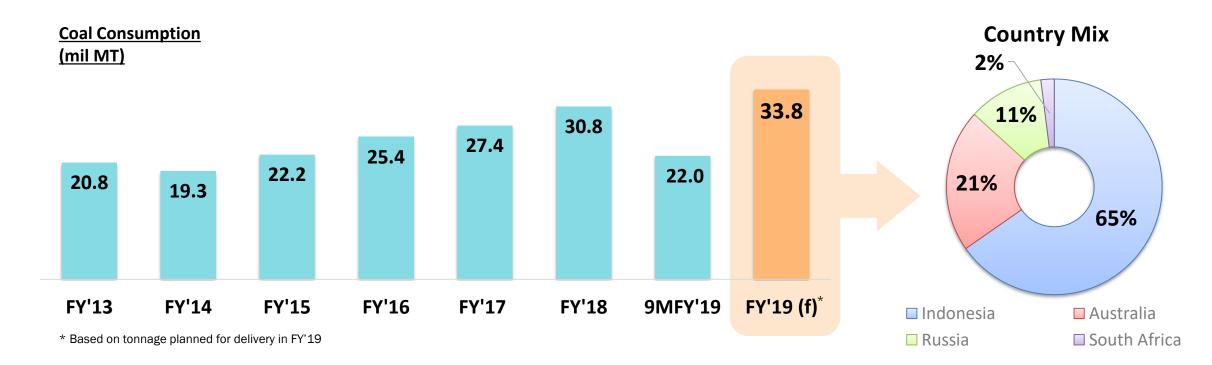
% indicates generation market share

# 2019 Coal Requirement within Expectation

**APPENDIX 10** 

COAL FORECAST

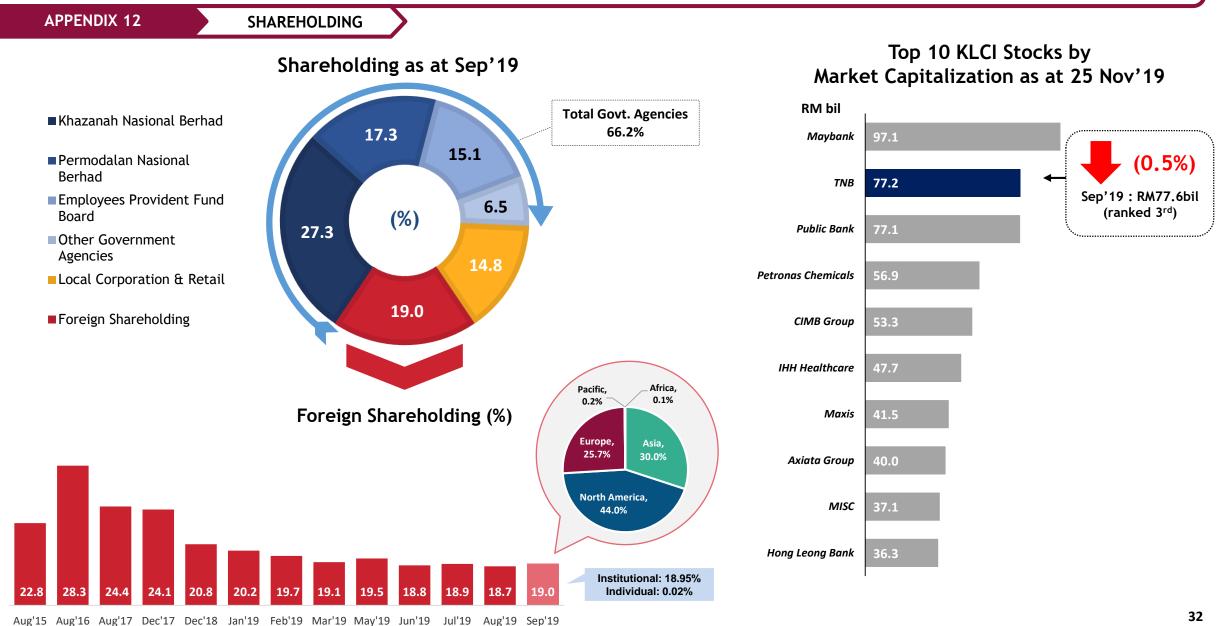
Average Coal Price (CIF)	FY'13	FY'14	FY'15	FY'16	FY'17	FY'18	9MFY'19
USD/metric tonne (MT)	83.6	75.4	66.0	55.7	72.7	95.9	81.7
RM/metric tonne (MT)	259.5	244.6	236.0	231.1	314.7	388.1	337.6



Consistent Technical Performances						
APPENDIX 11	TECHNICAL RESULTS					
	Equivalent Plant Availability Factor (EAF)	System Minutes	SAIDI			
	<b>87.7%*</b> 9MFY'18: 91.3%*	<b>0.27 mins</b> 9MFY'18 : 0.33 mins	<b>39.2 mins*</b> 9MFY'18 : 35.3 mins*			
	*The figure is for all TNB plants	<b>)</b>	*The figure is for TNB SAIDI			

# **TNB Shareholding**





# THANK YOU

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