



ANALYST BRIEFING 2QFY2024

2 September 2024



STRATEGY FORWARD (DCEO)

lighlights while we c	ontinuously reward our shareholders	Better. Brighter.
HFY2024	4 -n	_/
PAT 🗹	Electricity Demand	Peak Demand
RM2,190.3 mil	8.4% (Y-o-Y) From increased economic activities	20,066MW Recorded on 25 July at 2030 hrs
+82.3% (Y-o-Y)	Gearing	Dividend Payout
Improved financial performance	48.4% (Dec'23: 50.3%)	56.7% (Based on adjusted PATAMI)
	Efficient capital management for growth	Interim Dividend Per Share of 25.0 sen

Energy Landscape TNB is strategically positioned in meeting the rising demand for energy, with government initiatives fostering a conducive environment for growth



Electricity Supply and Demand

- ✓ To support healthy electricity demand growth:
 - Additional RE capacity in Malaysia under various programmes

Up to 5GW

- Large Scale Solar 5
- Corporate Renewable Energy Supply Scheme (CRESS)
 Corporate Green Power Programme (CGPP)
- 2 PPA extensions of ~1GW to ensure continuous security of supply

Market Prospect

✓ Reaffirmed Malaysia's Sovereign Credit Ratings, Stable Outlook

S&P Global Ratings

A-

FitchRatings

BBB+

✓ Continued confidence in the country's robust and resilient growth

Regulatory

Third Party Access (TPA) Framework¹: The Energy Commission (EC) has announced² the system access charge (SAC) under the Corporate Energy Supply Scheme (CRESS) for RE plants





Further details on the mechanism will be announced by regulator in due course

- TNB supports the government's implementation of the TPA framework, which will bridge the demand-supply gap for green electricity.
- This initiative unlocks new opportunities across the entire value chain, reinforcing our pivotal role in generation, transmission, distribution, and retail services.

Deliver Clean Generation

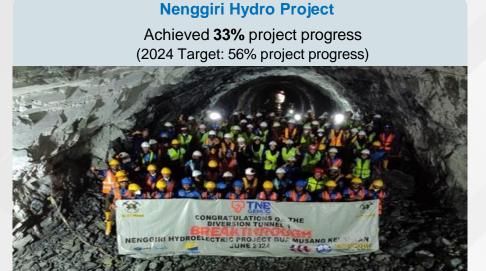
Forging ahead with growing our RE portfolio, we remain committed to driving our sustainable agenda



Projects

2QFY2024 Key Highlights

	Sungai Perak Hydro Life Extension Programme	651MW	COD: 1 st unit 2026 (8MW)
	Nenggiri Hydro Project	300MW	COD: 2Q2027
GenCo	Hybrid Hydro-Floating Solar PV (HHFS)	~2,900MWp by 2040	Phase 1 COD: 2025 ≻ Chenderoh: 45MWp ≻ Temenggor: 300MWp
	Paka Repowering	1,400MW	COD: 2030
	New Combined Cycle Power Plant (Kapar)	2,100MW	COD: 2031
	Co-firing of Hydrogen & Ammonia		



Diversion Tunnel No.1 completed

NED



Solar Greenfield Development (UK)	102MWp	COD: 4Q2024
Corporate Green Power Programme (CGPP)	135MWp	COD: 2025
Centralised Solar Park (CSP)	5 x 150MWp	COD: 2026

Project progress is on track to achieve COD

All capacity has been secured with offtakers

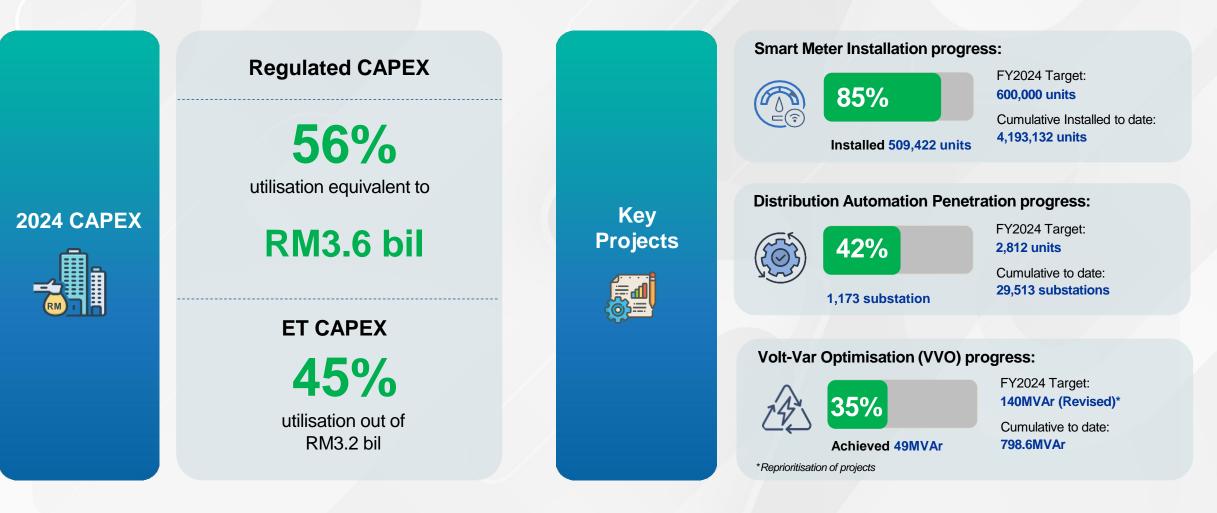
Preparation for lease agreement

3

Develop Energy Transition Network Our CAPEX utilisation is on track and expected to be fully utilised as we approach the end of RP3

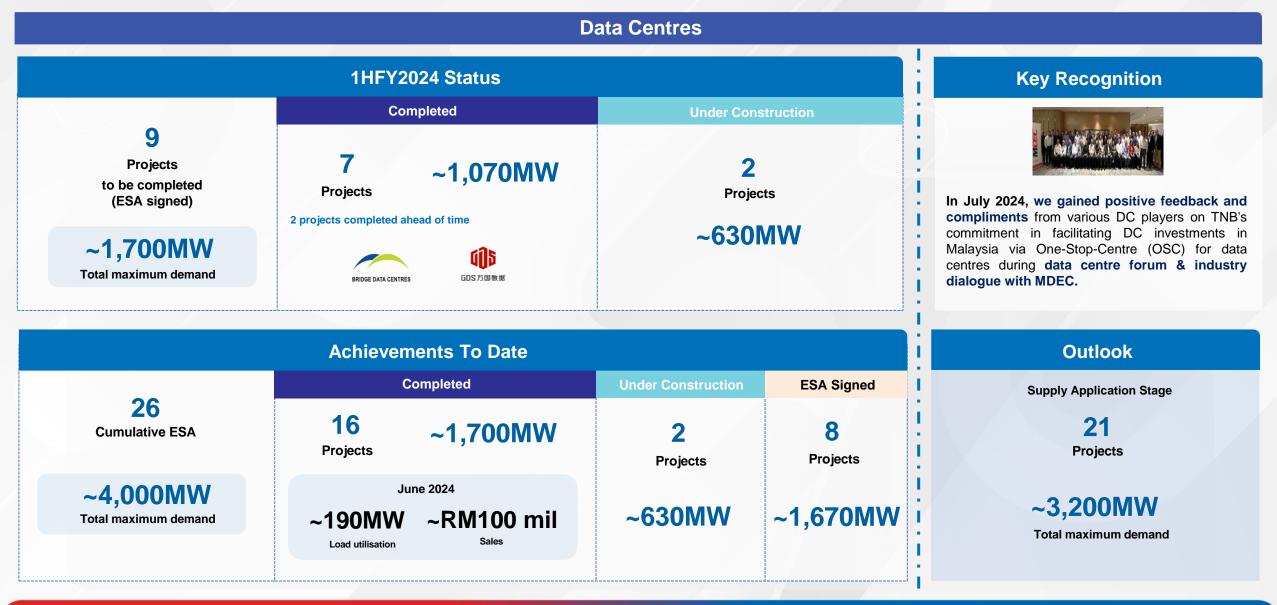


2QFY2024 Key Achievements



Develop Energy Transition Network We have successfully delivered power at scale and speed for data centres; 2 projects completed ahead of time in 1HFY2024





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Dynamic Energy Solutions

Paramit

ELEPLAS WOOD

TECHNOLOGY SDN BHD

JABIL

GSPARX transforms consumers to prosumers through rooftop solar installations, elevating Malaysia's green energy progress



2QFY2024 Key Achievements Partnership with Sime Darby Property **8.8MWp 2024 Target Completion** GSPARX Paramit Malaysia Sdn Bhd 960kWp To install 707kWp rooftop solar PV at their premise in Bukit Minyak, (14 SDP sites*) 10 sites **Progress** Pulau Pinang. 10 sites consist of Sime Darby Sales Galleries, Clubhouses and Malls: Target to be delivered by 4QFY2024. At ~40% completion. Off Grid Solar, Chini *4 sites to be completed in 2025 • To install 91.5kWp rooftop solar with 211.2kWp battery at a rural **Secured Capacity** village in Chini, Pahang. GSPARX achievement **360MWp** 2,698 Target to be delivered by 4QFY2024. since inception (2019)**Projects secured Eleplas Wood Technlogy Sdn Bhd** • To install 719.4kWp rooftop solar PV at their plant in Kluang, Johor. Secured Capacity (MWp) Target to be delivered by 3QFY2025. 99 Secured post June 2024 (MWp) 30 Latexx Manufacturing Sdn Bhd 2019 2020 2021 2022 2QFY2024 2023 To install 3,859.3kWp rooftop solar PV at their plant in Kamunting, 2QFY2024 Status Perak. 160MWp Target to be delivered by 4QFY2025. 2024 Target Secured Capacity Green Point Precision Sdn Bhd To install 3,416kWp rooftop solar PV at their premise in Sungai **NEM 3.0 NOVA** Petani, Kedah. 82% **1,100MW**¹ Target to be delivered by 4QFY2025. **Quota Approved** Total Quota Allocation (2021-2024) ¹2024 Additional guota : 300MW

Dynamic Energy Solutions

TNB is instrumental in driving Malaysia EV market by installing EV chargers and providing electricity infrastructures to Charging Point Operators (CPO)



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myTNB Best Public Utilities App (2024 PC.com Readers Choice Awards)

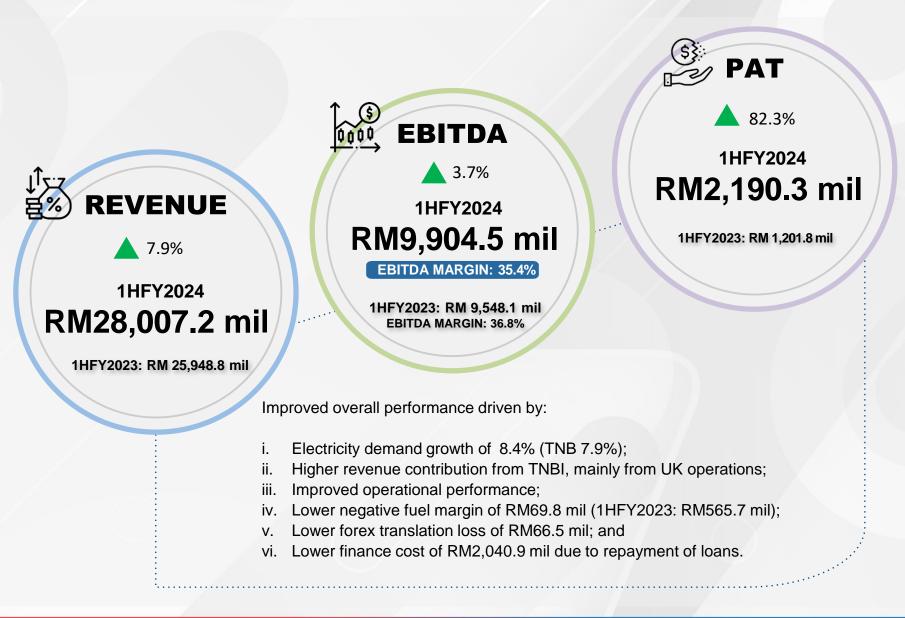




PERFORMANCE UPDATES (CFO)

1HFY2024 higher PAT was driven by improved overall performance





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Group earnings supported by; i.

i. Improved generation performanceii. World-class network performance



1HFY2024 78.7% 2024 Target: 78.6%

Improved overall performance by power plants

TENAGA NASIONA

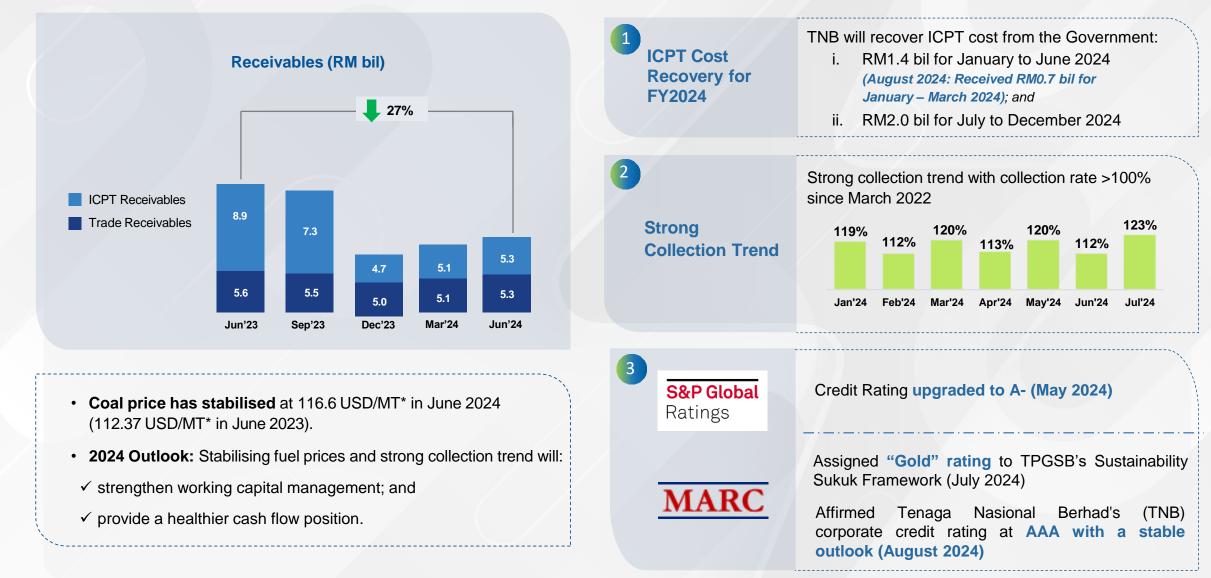
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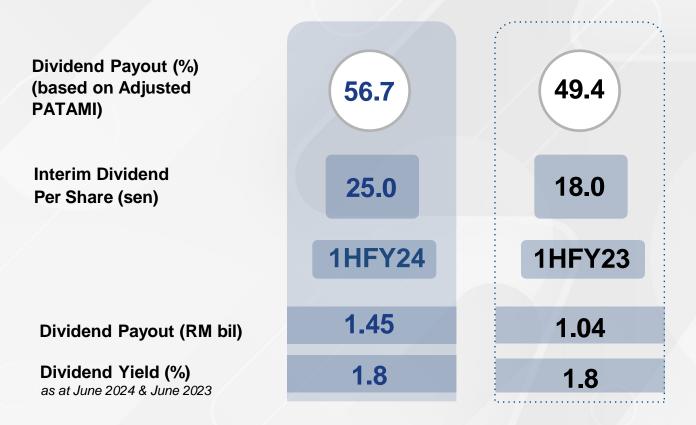
Y-o-Y: Lower receivables contributed by lower ICPT and strong collection trend, strengthening our cash flow position and credit ratings





Our resilient performance enables us to continue rewarding shareholders with commendable interim dividend payouts while maintaining a prudent capital structure

Dividend Policy Dividend payout ratio of 30% to 60% based on the adjusted PATAMI





FORWARD GUIDANCE (DCEO)

Forward Guidance

We will continue to drive our strategic initiatives to pursue business growth while fulfilling our Net Zero commitments



Electricity Demand Demand growth is projected to be between **3.0% - 4.0%**



Group CAPEX

Forecast

Total Group CAPEX : Up to RM13.8 bil

Regulated capex* : RM6.4 bil - RM7.7 bil

* ET Related capex of RM3.2 bil (includes system improvement CAPEX)

Regulatory Period 4

RP4 proposal assessment is on track





Delivering Value to our Shareholders

Stable performance enable us to continue rewarding and delivering value to our shareholders



Capital Management

- Proactive working capital management in current elevated fuel prices environment
- Active capital allocation and funding for growth

QP

Sustainable Growth

Ensuring business growth as we progress towards supporting the NETR and becoming a leading provider of sustainable energy solutions



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Appendix

1HFY2024

- Details on Financial Results
- o Generation Business Performance
- o International Business Performance
- Shareholdings

Y-o-Y analysis

				Varianc	e
RM mil		1HFY'24	1HFY'23	RM mil	%
Revenue	1	28,007.2	25,948.8	2,058.4	7.9
Imbalance Cost Pass Through (ICPT)	2	5,175.2	6,492.5	(1,317.3)	(20.3)
Operating expenses (without depreciation)	3	(23,744.6)	(23,236.3)	(508.3)	(2.2)
Net loss on impairment of financial instruments		(45.0)	(52.5)	7.5	14.3
Other operating income		511.7	395.6	116.1	29.3
EBITDA		9,904.5	9,548.1	356.4	3.7
EBITDA Margin (%)		35.4%	36.8%	-	(1.4)
Depreciation		(5,638.5)	(5,597.3)	(41.2)	(0.7)
EBIT		4,266.0	3,950.8	315.2	8.0
Foreign exchange:					/
- Transaction		18.3	60.3	(42.0)	(69.7)
- Translation	4	(66.5)	(425.4)	358.9	84.4
Share of results of joint ventures		7.0	5.5	1.5	27.3
Share of results of associates		258.4	15.8	242.6	>100.0
Profit before finance cost		4,483.2	3,607.0	876.2	24.3
Fair value changes of financial instruments		39.1	46.9	(7.8)	(16.6)
Finance income		315.3	256.5	58.8	22.9
Finance cost	5	(2,040.9)	(2,266.2)	225.3	9.9
Profit from ordinary activities before taxation		2,796.7	1,644.2	1,152.5	70.1
Taxation and Zakat:					
- Company and subsidiaries		(578.7)	(426.7)	(152.0)	(35.6)
- Deferred taxation		(27.7)	(15.7)	(12.0)	(76.4)
Profit for the period		2,190.3	1,201.8	988.5	82.3
Attributable to:					
- Owners of the Company		2,159.8	1,330.2	829.6	62.4
- Non-controlling interests		30.5	(128.4)	158.9	>100.0
Profit for the period		2,190.3	1,201.8	988.5	82.3

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Y-o-Y analysis:

Higher Group revenue driven by sales demand growth of 8.4% and additional revenue mainly from UK operations.

Reduction in ICPT by RM1.3 bil due to decrease in coal price.

Refer Operating Expenses slide.

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Lower forex translation loss due to strengthening of MYR.

5

Lower finance cost due to repayment of loans and interest capitalisation.

Q-o-Q analysis

DM mil		2057/24	405/104	Varianc	е
RM mil		2QFY'24	1QFY'24	RM mil	%
Revenue	1	14,366.8	13,640.4	726.4	5.3
Imbalance Cost Pass Through (ICPT)	2	2,822.2	2,353.0	469.2	19.9
Operating expenses (without depreciation)	3	(12,442.2)	(11,302.4)	(1,139.8)	(10.1)
Net reversal / (loss) on impairment of financial instruments	3	14.4	(59.4)	73.8	>100.0
Other operating income		338.3	173.4	164.9	95.1
EBITDA		5,099.5	4,805.0	294.5	6.1
EBITDA Margin (%)		35.5%	35.2%		0.3
Depreciation		(2,858.3)	(2,780.2)	(78.1)	(2.8)
EBIT		2,241.2	2,024.8	216.4	10.7
Foreign exchange:					1
- Transaction		(7.1)	25.4	(32.5)	>(100.0)
- Translation	4	130.2	(196.7)	326.9	>100.0
Share of results of joint ventures		2.1	4.9	(2.8)	(57.1)
Share of results of associates		243.7	14.7	229.0	>100.0
Profit before finance cost		2,610.1	1,873.1	737.0	39.3
Fair value changes of financial instruments		11.5	27.6	(16.1)	(58.3)
Finance income		159.1	156.2	2.9	1.9
Finance cost		(1,013.8)	(1,027.1)	13.3	1.3
Profit from ordinary activities before taxation		1,766.9	1,029.8	737.1	71.6
Taxation and Zakat:					
- Company and subsidiaries		(320.0)	(258.7)	(61.3)	(23.7)
- Deferred taxation		65.5	(93.2)	158.7	>100.0
Profit for the period		1,512.4	677.9	834.5	>100.0
Attributable to:					
- Owners of the Company		1,444.1	715.7	728.4	>100.0
- Non-controlling interests		68.3	(37.8)	106.1	>100.0
Profit for the period		1,512.4	677.9	834.5	>100.0



Q-o-Q analysis:

Higher Group revenue driven by sales demand growth of 4.2%.

Higher ICPT due to higher fuel costs.

Refer Operating Expenses slide.

Gain in forex translation due to strengthening of MYR.

Y-o-Y normalised EBITDA and PAT for 1HFY2024



	EBITDA		1HFY'24	1HFY'23
	Components		RM mil	RM mil
Reported EBITDA			9,904.5	9,548.1
MFRS16 impact		1	(1,976.9)	(2,130.1)
Normalised EBITD/	4		7,927.6	7,418.0
	PAT		1HFY'24	1HFY'23
	PAT Components		1HFY'24 RM mil	1HFY'23 RM mil
Reported PAT				
Reported PAT Forex Translation lo	Components		RM mil	RM mil
	Components	1	RM mil 2,190.3	RM mil 1,201.8
Forex Translation lo	Components	1	RM mil 2,190.3 66.5	RM mil 1,201.8 425.4

RS16 impact:	1HFY'24 (RM mil)	1HFY'23 (RM mil)	Variance (RM mil)
Capacity Payment	1,976.9	2,130.1	(153.2)
Depreciation	(1,642.3)	(1,759.4)	117.1
Finance Cost	(769.8)	(828.9)	59.1
Deferred Tax	97.4	103.2	(5.8)
Net Impact	(337.8)	(355.0)	17.2

Higher Group revenue driven by overall healthy demand growth



	2QFY'24	ļ	1QFY'24	4	Varian (2QFY'24 vs		1	HFY'24	1HFY'	23	Varian (1HFY'24 vs ⁄	
UNITS SOLD	GWh		GWh	Ī	GWh	%	GW		GWh		GWh	%
Sales of Electricity (GWh)												
- TNB	33,120.5		31,899.4		1,221.1	3.8	65,0	19.9	60,266.5		4,753.4	7.9
- SESB	1,707.6		1,580.1		127.5	8.1	3,2	37.7	2,901.9		385.8	13.3
- EGAT (Export)	0.2		0.4		(0.2)	(50.0)		0.6	0.1		0.5	>100.0
- TNBI*	307.6		228.9		78.7	34.4	5	36.5	340.6		195.9	57.5
Total Units Sold (GWh)	35,135.9		33,708.8		1,427.1	4.2	1 68,8	44.7	63,509.1		5,335.6	8.4
REVENUE	RM mil	sen/ kWh	RM mil	sen/ kWh	RM mil	%	RM n	il sen/ kWh	RM mil	sen/ kWh	RM mil	%
Sales of Electricity (RM)							/				/	
TNB	13,587.1	40.65	12,648.2	40.31	938.9	7.4	26,2	35.3 40.4	9 24,061.9	40.21	2,173.4	9.0
SESB	595.9	34.87	549.2	34.39	46.7	8.5	1,1	45.1 34.6	4 1,008.5	35.20	136.6	13.5
Accrued Revenue	(122.5)	-	205.0	-	(327.5)	>(100.0)		32.5 -	183.1	-	(100.6)	(54.9)
- EGAT (Export)	0.1	50.00	0.3	75.00	(0.2)	(66.7)		0.4 66.6	7 0.1	100.00	0.3	>100.0
TNBI	273.0	88.75	202.4	88.42	70.6	34.9	4	75.4 88.6	1 363.7	106.78	111.7	30.7
Sales of Electricity	14,333.6	40.79	13,605.1	40.36	728.5	5.4	1 27,9	38.7 40.5	8 25,617.3	40.34	2,321.4	9.1
Other Regulatory Adjustment	(739.2)		(468.4)		(270.8)	(57.8)	2 (1,2	07.6)	(571.1)		(636.5)	>(100.0)
SESB Tariff Support Subsidy	79.3		74.0		5.3	7.2	1	53.3	135.8		17.5	12.9
Fuel Subsidy - SESB	79.6		73.2		6.4	8.7	1	52.8	134.5		18.3	13.6
Total Sales of Electricity	13,753.3		13,283.9		469.4	3.5	27,0		25,316.5		1,720.7	6.8
Goods & Services	464.6		200.7		263.9	>100.0		65.3	314.9		350.4	>100.0
Construction contracts	27.3		34.5		(7.2)	(20.9)		61.8	83.9		(22.1)	(26.3)
Insurance contract revenue	49.3		49.0		0.3	0.6		98.3	92.9		5.4	5.8
Customers' contribution	72.3		72.3		-	/-		14.6	140.6		4.0	2.8
Total Revenue	14,366.8		13,640.4		726.4	5.3	28,0)7.2	25,948.8		2,058.4	7.9

Higher revenue driven by higher demand growth across all business units.

² Refer <u>Other Regulatory Adjustment slide</u>.

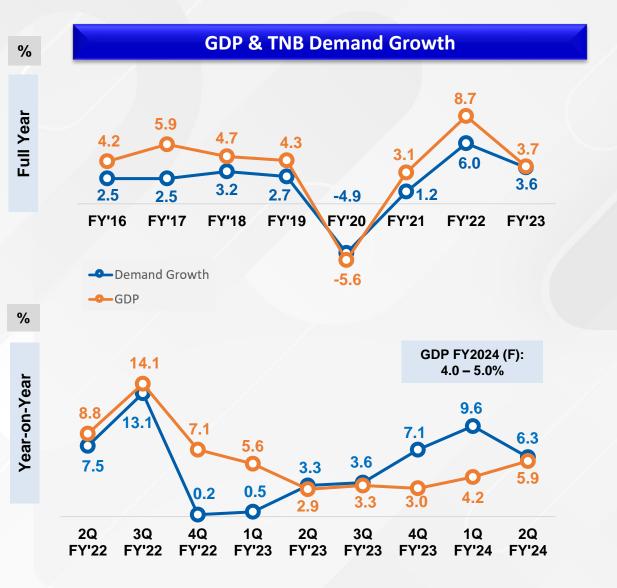
Higher revenue recorded by subsidiaries.

*Refer International Investments slide for details

Y-o-Y electricity demand grew in tandem with GDP



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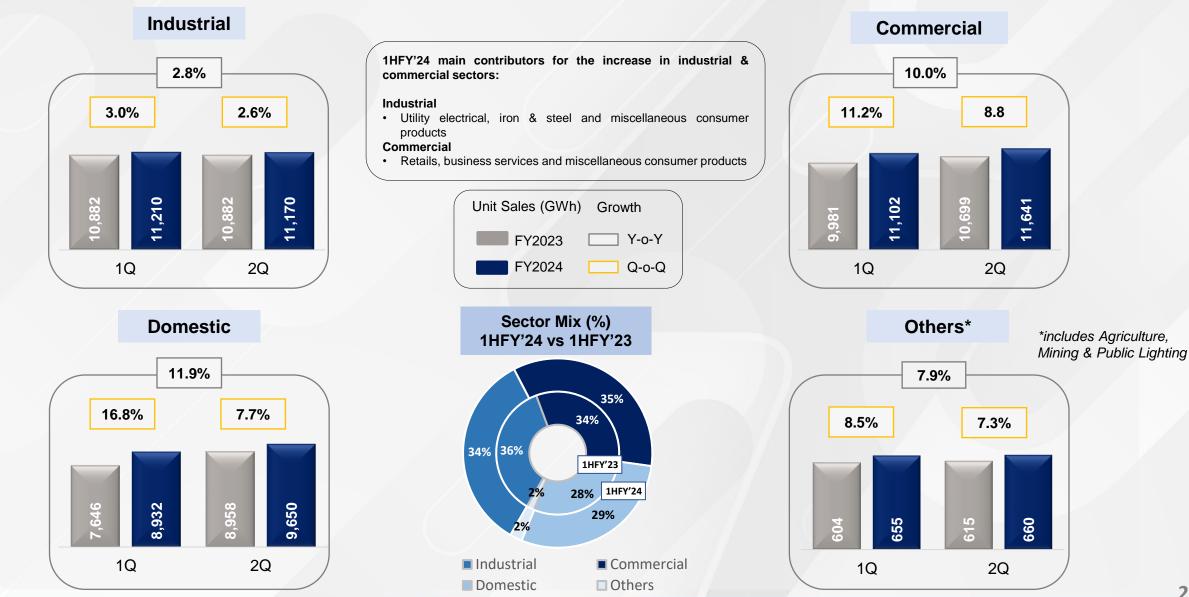


TNB (Peninsular) Yearly Peak Demand

Source : Economic and Financial Developments in Malaysia in the First Quarter of 2024, BNM

Increased demand across all sectors mainly contributed by commercial and domestic





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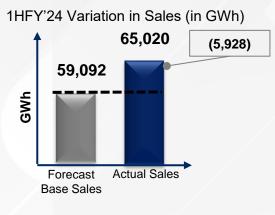
As at 1HFY2024, other regulatory adjustment of RM1,207.6 mil to be returned



Components of Other Regulatory Adjustment	1QFY'24	2QFY'24	1HFY'24	1HFY'23
components of other Regulatory Adjustment	RM mil	RM mil	RM mil	RM mil
Revenue Adjustment for Revenue Cap & Price Cap	(412.4)	(684.1)	1 (1,096.5)	(419.5)
Refund Related to Regulated Business	(66.7)	(52.2)	(118.9)	(138.9)
Regulatory Adjustment for SESB*	10.7	(2.9)	7.8	(12.7)
TOTAL	(468.4)	(739.2)	(1,207.6)	(571.1)

*SESB has implemented IBR framework starting 1 January 2022

Revenue Cap



The allowed annual revenue for revenue cap entities is based on 118.1TWh full year demand growth. Any excess/shortfall is adjusted through revenue adjustment mechanism.

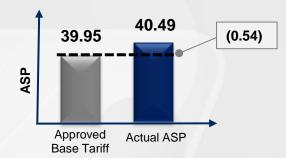
• For 1HFY'24, higher actual sales has led to amount to be returned via revenue adjustment mechanism.

Business Entities	Allowed Tariff	Variation in Sales	Adjustment
	(sen/kWh)	(GWh)	(RM mil)
Revenue Cap Entities	12.60	(5,928)	(745.8)

Numbers manually computed will not match due to decimal variance

Price Cap

1HFY'24 Variation in ASP (sen/kWh)



- Any excess/shortfall of revenue earned due to higher/lower Average Selling Price (ASP) compared to Base Tariff is adjusted through revenue adjustment mechanism.
- For 1HFY'24, the ASP recorded was higher than the Base Tariff, thus the amount is to be returned via revenue adjustment mechanism.

Business Entities	Actual Sales	Variation in ASP	Adjustment
	(GWh)	(sen/kWh)	(RM mil)
Price Cap Entity	65,020	(0.54)	(350.7)

Higher Y-o-Y operating expenses due to higher OPEX Non-Fuel



	2QFY'24	1QFY'24	Variance (2QFY'24 vs 1QFY'24)		1HEV'24 1HEV'23		Variance (1HFY'24 vs 1HFY'23)	
	(RM mil)	(RM mil)	RM mil	%	(RM mil)	(RM mil)	RM mil	%
Non-TNB IPPs Costs	4,694.8	4,233.4	461.4	10.9	8,928.2	7,709.3	1,218.9	15.8
Capacity Payment	36.7	41.3	(4.6)	(11.1)	78.0	(91.4)	169.4	>100.0
Energy Payment	4,658.1	4,192.1	466.0	11.1	8,850.2	7,800.7	1,049.5	13.5
TNB Fuel Costs	4,552.9	4,334.9	218.0	5.0	8,887.8	10,558.2	(1,670.4)	(15.8)
Fuel Costs	4,514.5	4,351.4	163.1	3.7	8,865.9	11,188.5	(2,322.6)	(20.8)
Fuel Price Adjustment	38.4	(16.5)	54.9	>100.0	21.9	(630.3)	652.2	>100.0
Total OPEX - Fuel and Power Purchase	9,247.7	8,568.3	1 679.4	7.9	17,816.0	18,267.5	<mark>2</mark> (451.5)	(2.5)
Staff Costs	966.5	952.0	14.5	1.5	1,918.5	1,940.7	(22.2)	(1.1)
Repair & Maintenance	801.0	692.2	108.8	15.7	1,493.2	1,345.5	147.7	11.0
TNB General Expenses	434.2	429.1	5.1	1.2	863.3	789.3	74.0	9.4
Subs. General Expenses	992.8	660.8	3 332.0	50.2	1,653.6	893.3	3 760.3	85.1
Total OPEX - Non Fuel	3,194.5	2,734.1	460.4	16.8	5,928.6	4,968.8	959.8	19.3
Total Operating Expenses (without Depreciation)	12,442.2	11,302.4	1,139.8	10.1	23,744.6	23,236.3	508.3	2.2
Depreciation & Amortisation	2,858.3	2,780.2	78.1	2.8	5,638.5	5,597.3	41.2	0.7
Total Operating Expenses	15,300.5	14,082.6	1,217.9	8.6	29,383.1	28,833.6	549.5	1.9

2QFY'24 vs 1QFY'24: Higher fuel and power purchase cost due to higher coal consumption (refer Fuel Cost slide).

² 1HFY'24 vs 1HFY'23: Lower fuel and power purchase cost due to lower coal price (refer Fuel Cost slide).

Higher subsidiaries general expenses to reflect the higher revenue recorded.

3

Lower overall fuel costs due to lower coal price in 1HFY2024



Table A – TNB & IPP Fuel Costs for Peninsular (RM mil)

	1HFY'24	1HFY'23	Variar	nce
Fuel Type			RM mil	%
Coal	8,807.1	11,230.2	(2,423.2)	(21.6)
Gas	6,248.5	5,436.6	811.9	14.9
Distillate	77.7	118.6	(40.9)	(34.5)
Oil	23.9	11.8	12.1	>100.0
Total *	15,157.2	16,797.2	(1,640.0)	(9.8)

*Comprises TNB Fuel Costs & fuel payments to IPPs (part of Energy Payment), exclude solar.

Table C – Fuel Costs Related Data

Fuel statistics	1HFY'24	1HFY'23
Average Coal Price Delivered (USD/MT)(CIF)	112.9	156.4
Average Coal Price Delivered (RM/MT)(CIF)	533.4	697.4
Coal Consumption (mil MT)	16.4	16.4
	1QFY'24	1QFY'23
Gas Reference Market Price (RM/mmbtu)	Tier 1 : 30.0	Tier 1 : 30.0
	Tier 2 : 44.7	Tier 2 : 62.1
	2QFY'24	2QFY'23
	Tier 1 : 35.0	Tier 1 : 30.0
	Tier 2 : 47.4	Tier 2 : 51.7
Daily Average Piped Gas Volume (mmscfd)	998	873

Table B – TNB & IPP Units Generated for Peninsular (GWh)

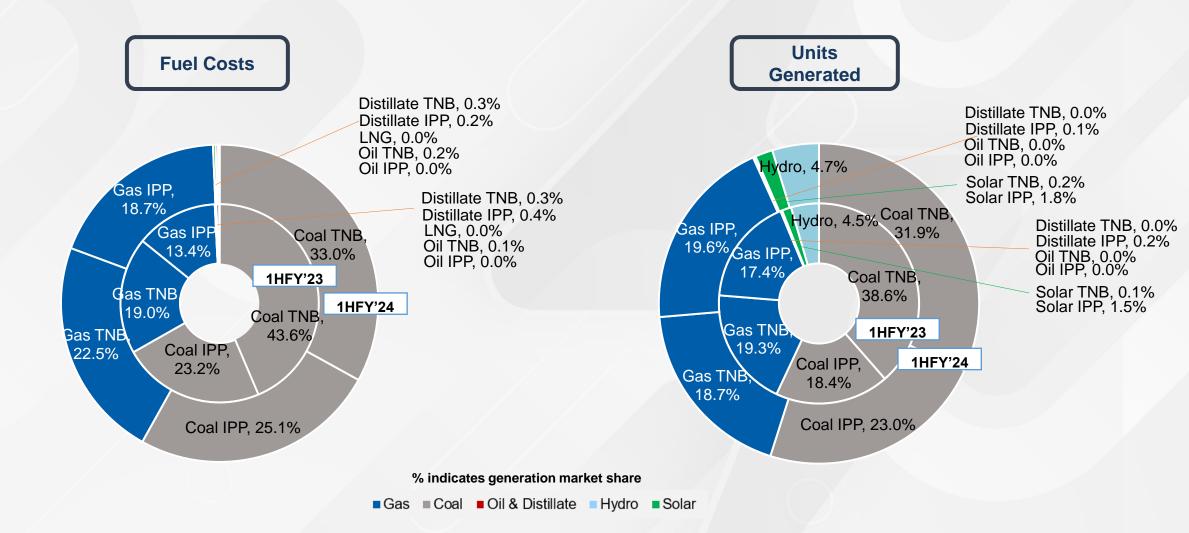
Fuel Type	1HFY'24		1HFY'23		Variance	
гиегтуре	GWh	Gen. Mix	GWh	Gen. Mix	GWh	%
Coal	38,702.3	54.9%	37,385.1	57.0%	1,317.2	3.5
Gas & LNG	26,976.0	38.3%	24,039.0	36.7%	2,937.0	12.2
Distillate	45.7	0.1%	99.5	0.2%	(53.8)	(54.1)
Hydro	3,345.9	4.7%	2,953.2	4.5%	392.7	13.3
Solar	1,390.6	2.0%	1,071.3	1.6%	319.4	29.8
Total	70,460.6	100.0%	65,548.1	100.0%	4,912.5	7.5

Table D – Average Coal Price Delivered (USD/MT)

	1HFY'24	1HFY'23	Variance		
		INF I 23	USD/MT	%	
FOB	103.2	146.5	(43.2)	(29.5)	
Freight	9.2	9.5	(0.2)	(2.3)	
Others	0.4	0.5	(0.1)	(12.8)	
CIF	112.9	156.4	(43.5)	(27.8)	

Fuel Costs & Units Generated (TNB & IPPs – Peninsular) in 1HFY2024





Higher Q-o-Q fuel costs mainly due to higher coal consumption



Table A – TNB & IPP Fuel Costs for Peninsular (RM mil)

Fuel Type	2QFY'24	1QFY'24	Variance 2QI	FY'24 vs 1QFY'24
ruerrype	20(1124	10(1124	RM mil	%
Coal	4,605.6	4,201.5	404.1	9.6
Gas	3,013.5	3,235.0	(221.6)	(6.8)
Distillate	19.0	58.7	(39.7)	(67.6)
Oil	10.5	13.4	(2.9)	(21.6)
Total	7,648.6	7,508.6	140.0	1.9

Note: Comprise TNB Fuel Costs & fuel payments to IPPs (part of Energy Payment), exclude solar.

Table C – Fuel Costs Related Data

Fuel statistics	2QFY'24	1QFY'24
Average Coal Price Delivered (USD/MT)(CIF)	112.1	113.7
Average Coal Price Delivered (RM/MT)(CIF)	530.5	536.3
Coal Consumption (mil MT)	8.7	7.7
	2QFY'24	1QFY'24
Gas Reference Market Price (RM/mmbtu)	Tier 1 : 35.0	Tier 1 : 30.0
	Tier 2 : 47.4	Tier 2 : 44.7
Daily Average Piped Gas Volume (mmscfd)	978	1017

Table B – TNB & IPP Units Generated for Peninsular (GWh)

					V 1 00	
Fuel Type	2QFY	'24	1QFY	''24	Variance 2Q	FY'24 vs 1QFY'24
ruerrype	GWh	Gen. Mix	GWh	Gen. Mix	GWh	%
Coal	20,505.7	57.2%	18,196.6	52.6%	2,309.1	12.7
Gas & LNG	13,341.0	37.3%	13,635.0	39.4%	(294.0)	(2.2)
Distillate	-	0.0%	45.7	0.1%	(45.7)	>(100.0)
Hydro	1,289.6	3.6%	2,056.4	5.9%	(766.8)	(37.3)
Solar	692.2	1.9%	698.4	2.0%	(6.2)	(0.9)
Total	35,828.5	100.0%	34,632.1	100.0%	1,196.4	3.5

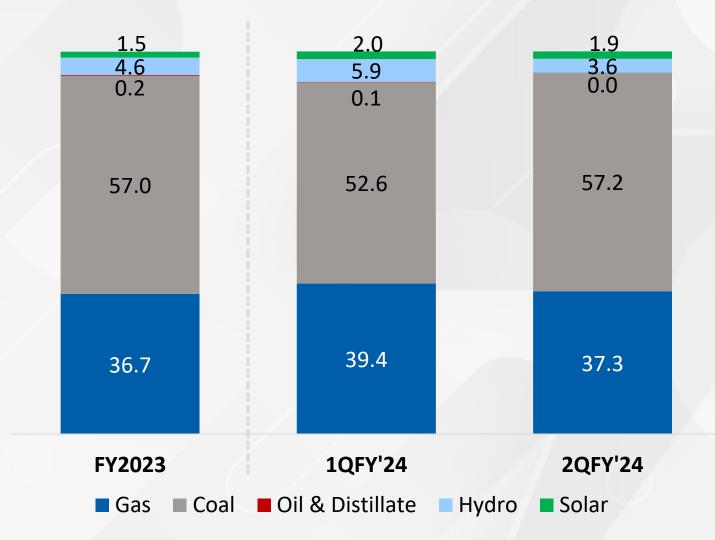
Table D – Average Coal Price Delivered (USD/MT)

	2QFY'24	1QFY'24	Variance 2QFY USD/MT	'24 vs 1QFY'24 %
FOB	101.9	104.5	(2.6)	(2.5)
Freight	9.7	8.7	1.0	11.5
Others	0.5	0.5	(0.0)	(0.0)
CIF	112.1	113.7	(1.6)	(1.4)

Q-o-Q: Higher generation from coal in 2QFY2024



Generation Mix for Industry (%)



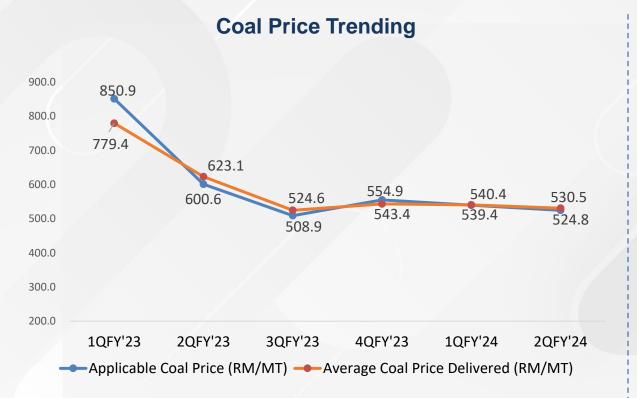
TNB is neutral to volatility in fuel costs under the ICPT framework



	3QFY'23	4QFY'23	1QFY'24	2QFY'24
	(RM mil)	(RM mil)	(RM mil)	(RM mil)
Single Buyer Actual Generation Costs: (A)	10,238.5	10,357.3	10,710.6	11,499.8
Actual Sales (GWh)	31,448.1	31,491.4	31,899.4	33,120.6
Single Buyer Tariff (RM/kWh)	0.2620	0.2620	0.2620	0.2620
Actual Gen Cost Recovered (RM mil) (B)	8,239.4	8,250.7	8,357.6	8,677.6
ICPT Surcharge / (Rebate) (C) (C = A – B)	1,999.1	2,106.6	2,353.0	2,822.2

Note: Numbers manually computed will not match due to decimal variance

TENAGA Better. Brighter.



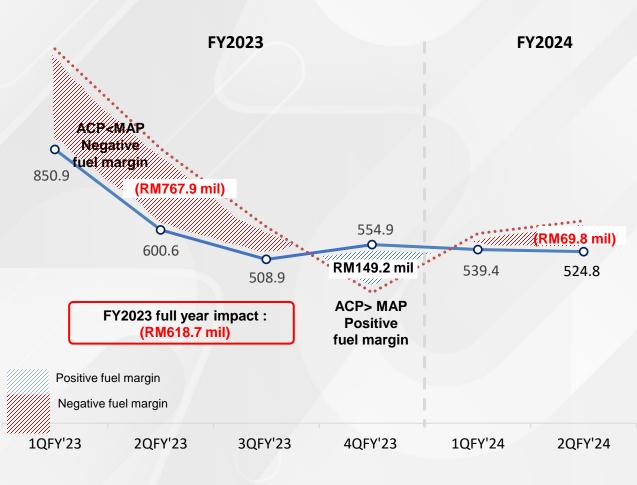
Coal Price & Applicable Coal Price (ACP) comparison

	1QFY'23	2QFY'23	3QFY'23	4QFY'23	1QFY'24	2QFY'24
Average Coal Price Delivered (RM/mmbtu) *	35.85	29.43	24.31	24.36	24.81	24.23
ACP (RWmmbtu)	38.77	27.52	23.32	25.42	24.73	24.13

* Based on internal conversion

- Fuel Price Adjustment (FPA) is the difference between the Applicable Coal Price (ACP) billed to generators and the actual coal price paid to supplier (delivered) by TNBF. The difference is caused by higher or lower coal price or due to currency exchange.
- ACP is set by Energy Commission on a monthly basis starting from August 2022.
- In 2QFY'24, the base ACP (RM24.13/mmbtu) used for billing the generators was lower than the coal price paid to supplier (RM24.23/mmbtu).

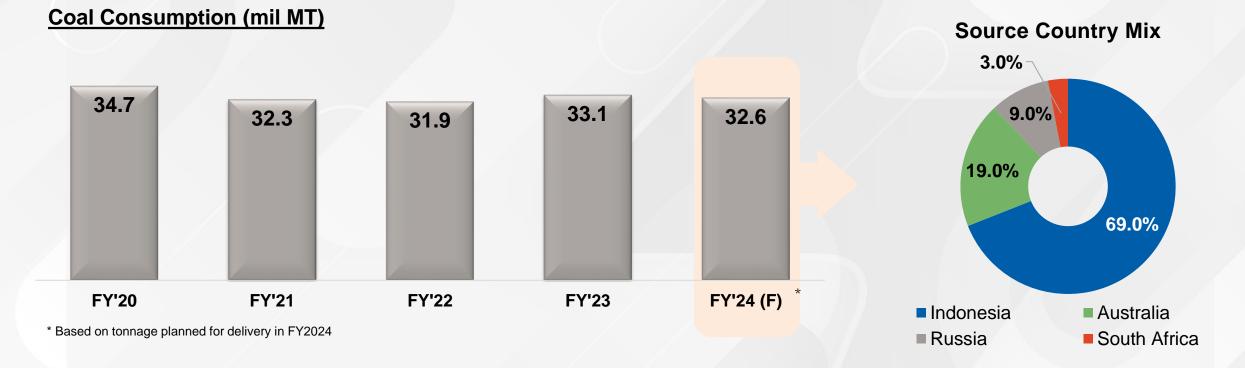
Fuel Margin:Applicable Coal Price (ACP) vs Moving Average Price (MAP)



-O-Applicable Coal Price (RM/MT) ······ Moving Average Price (RM/MT) of coal stock

Industry coal requirement forecast for FY2024





Group CAPEX

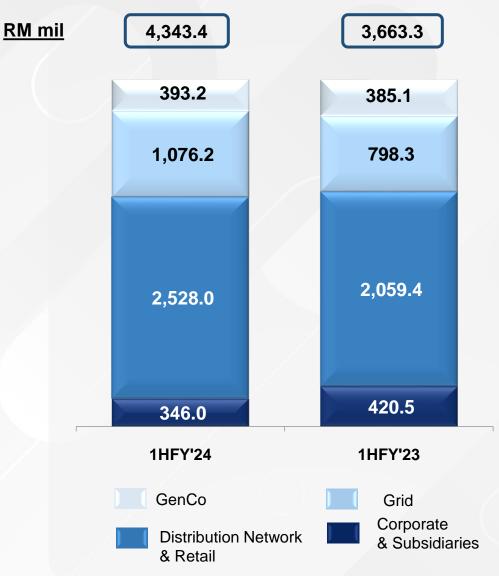




		RP3 RE	GULATED ENTIT	ES CAPEX
	FY	IBR Approved RM mil	Actual YTD RM mil	Utilisation (%)
	2024	6,413.3	3,606.3	56.2

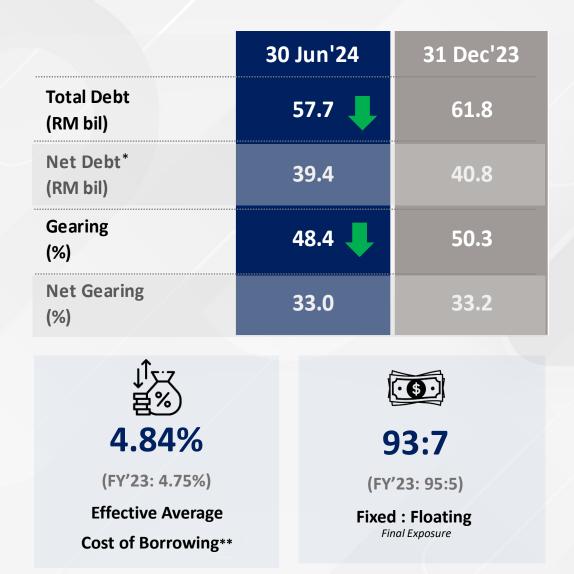
Total RAB (RM mil)		
Actual As at 30 June 2024	Approved FY2024	
66,155.6	66,603.6	

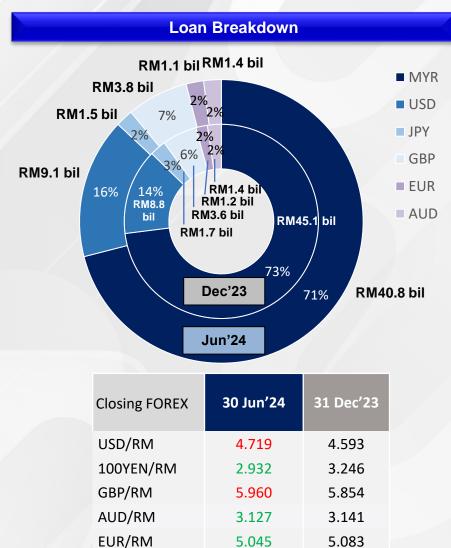
Regulatory net returns: RM2,252.3 mil



Gearing improved to 48.4% as at 1HFY2024







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

** Inclusive of interest rate swap

Trade receivables as at 1HFY2024





113%	117%	121%	119%	112%	120%	113%	120%	112%
Jun'23	Sep'23	Dec'23	Jan'24	Feb'24	Mar'24	Apr'24	May'24	Jun'24

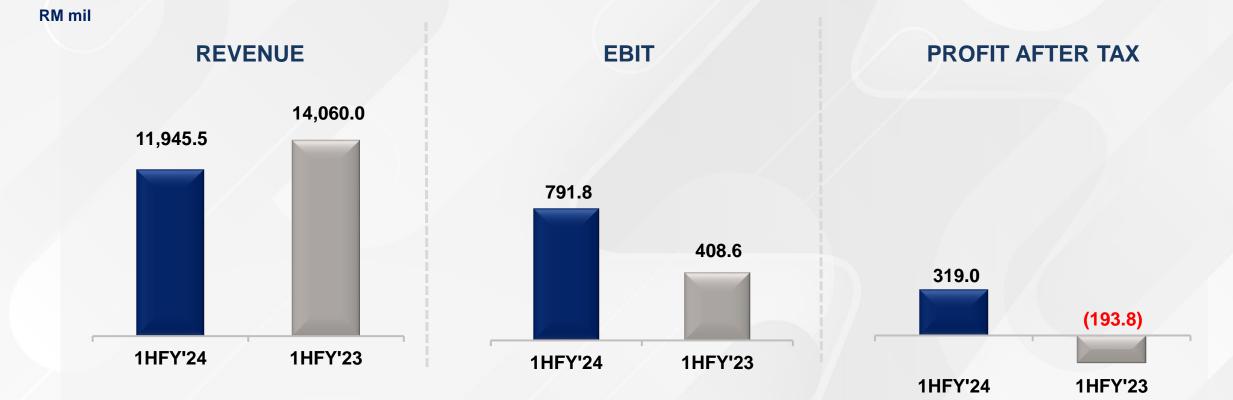


- We continuously monitor our cash flow position on a daily basis and remain prudent on our working capital management.
- S&P: Credit Rating upgraded to A- (May'24)
- MARC: Affirmed TNB corporate credit rating at AAA with a stable outlook (Aug'24)

Domestic generation business performance

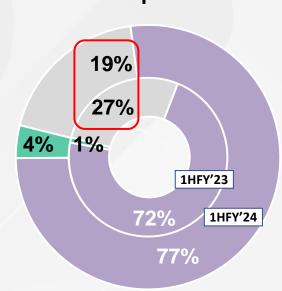
Overall improved performance by power plants





Revenue from coal recorded below 25% due to M4 outage





Actual Group Revenue*



* Total revenue includes ICPT

** Others include revenue from regulated business, subsidiaries and generation from gas



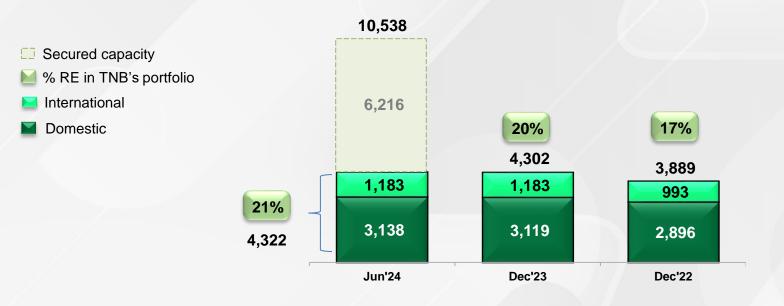
- No new coal plant investment
- Reduction of coal capacity by 50% by 2035 and coal-free by 2050

Our RE journey is progressing well



TNB RE Portfolio

Renewable capacity (MW)

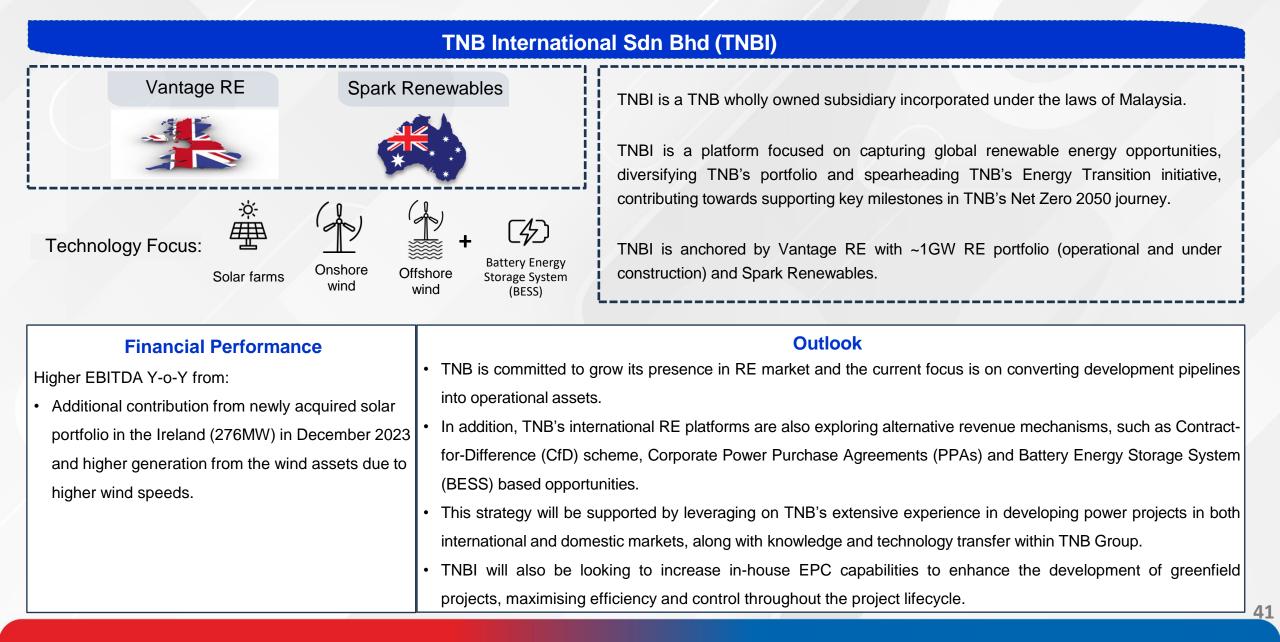


Note:

- · Gross RE Capacity includes large hydro
- Solar capacity is quoted in MWp starting from 2QFY'23
- · Secured capacity includes in construction and development stages
- Exclude SESB

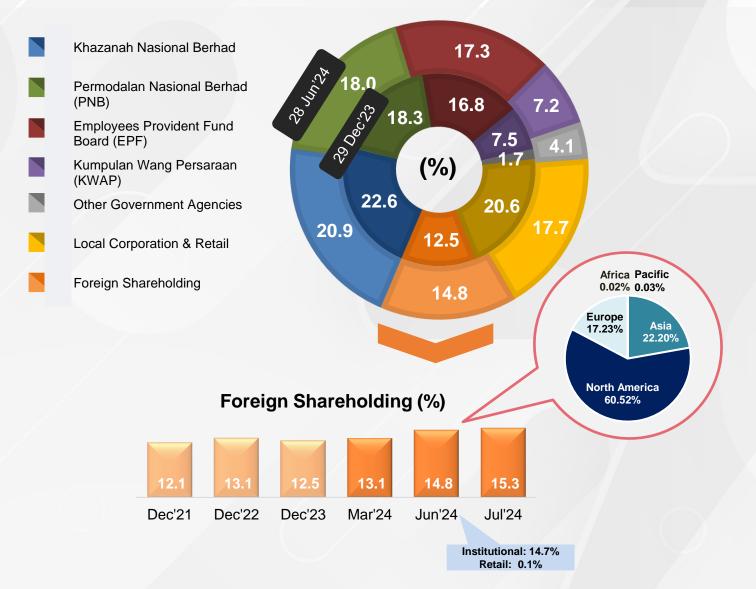
International Investments: Renewable Energy (RE)





Shareholdings







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