

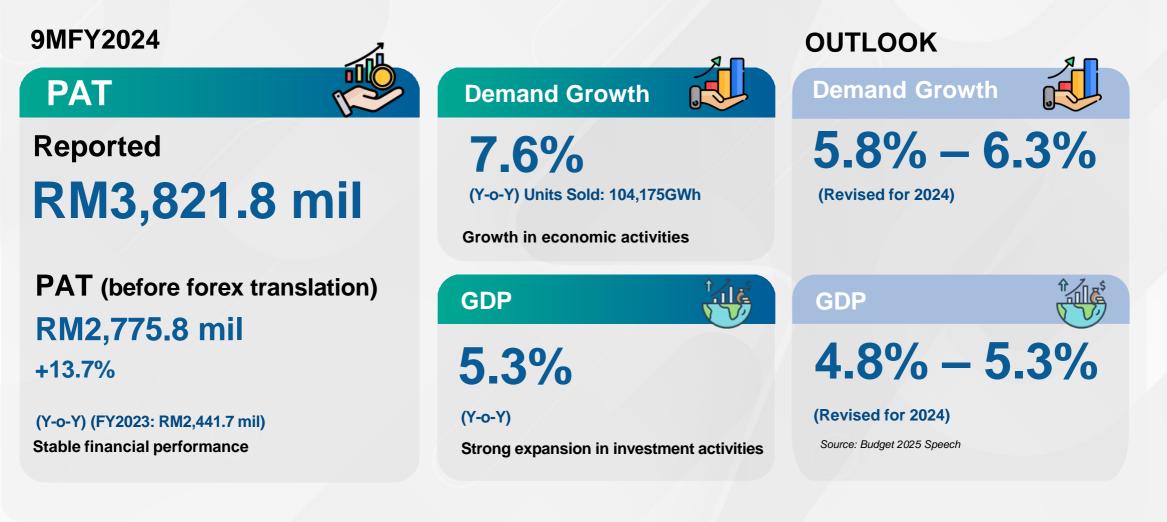


ANALYST BRIEFING 3QFY2024

29 November 2024 | Business Lounge, TNB Platinum



Stable performance in 9MFY2024, driven by the successful strategic initiatives, positions us for continued growth





TNB's 75-Year Legacy: Adapting to evolving energy landscape and sustainability aspirations



Prime Minister Anwar emphasised TNB's role in balancing sustainable energy with economic growth, stressing environmental responsibility and innovation in tackling climate challenges.

The key takeaways from PM Anwar Ibrahim's speech:





As a key player in the ASEAN Power Grid, TNB is advancing energy security and leading the region's energy transition

Regional Business Opportunities

- 1
- Lao PDR-Thailand-Malaysia-Singapore Power Integration Project (LTMS-PIP)
- Signed agreement with Singapore's Keppel Electric Pte. Ltd. to supply up to 100MW of electricity using existing interconnections.
- Electricity export began in September 2024 under willing seller willing buyer arrangement (delivered ~7.5GWh to date).

Cross Border Electricity Sales Renewable Energy (CBES RE) Scheme via ENEGEM

• TNB will sign agreement for 50MW with winning bidder in December 2024 under CBES RE scheme Pilot Phase 1.

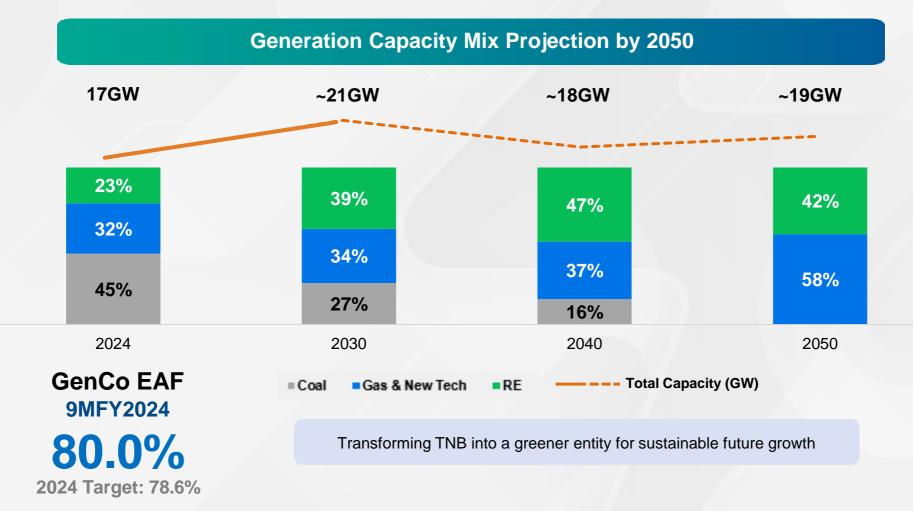


ASEAN Power Grid (APG)



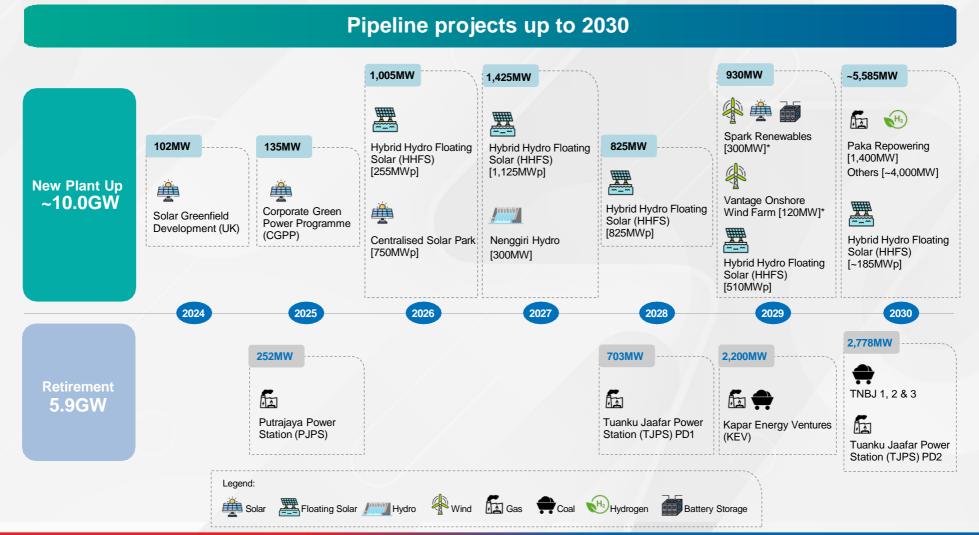


Strengthen operational performance whilst expanding renewable capacity growth towards Net Zero aspiration





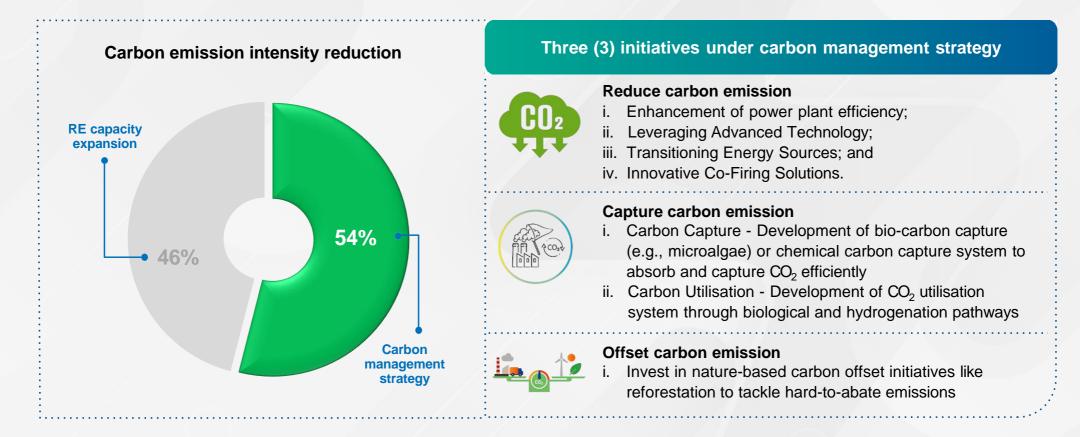
We are making steady progress with a strong pipeline of renewable energy capacity expansion as we transform into a greener entity



Note: Solar capacity is quoted in MWp *Indicative capacity and COD



TNB targets 5% annual reduction in carbon emission intensity (Scope 1) starting 2024, through RE capacity expansion and carbon management strategy





QUARTERLY UPDATES



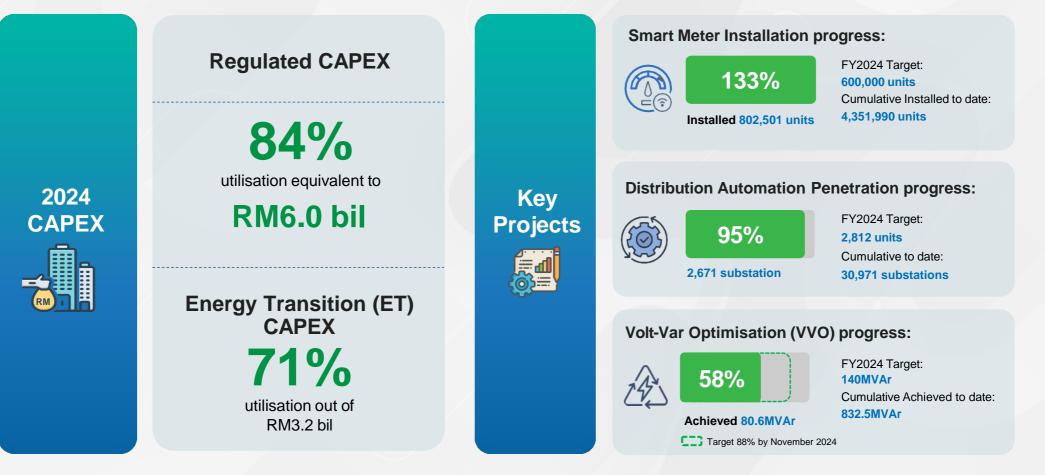
We continue to seek growth opportunities while forging ahead with growing our RE portfolio

	Projects			9MFY2024 Key Highlights
	Sungai Perak Hydro Life Extension Programme	649MW	COD: 1 st unit 2026 (8MW)	Nenggiri Hydro Project Achieved 36% project progress
	Nenggiri Hydro Project	300MW	COD: 2Q2027	
GenCo	Hybrid Hydro-Floating Solar PV (HHFS) - Updated	~2,900MWp by 2040	1 st COD: 2026 (255MWp) Chenderoh : 105MWp Kenyir : 150MWp	
	Paka Repowering	1,400MW	COD: 2029	NENGGIRI HYDROELECTRICULY 2021
	New Combined Cycle Power Plant (Kapar)	2,100MW	COD: 2031	
	Co-firing of Hydrogen & Ammonia			Completed Diversion Tunnel No. 2
NED	Solar Greenfield Development (UK)	102MWp	COD: 4Q2024	Project progress is on track to achieve COD by end of December 2024
	Corporate Green Power Programme (CGPP)	135MWp	COD: 2025	Project progress is on track to achieve Financial Close
	Centralised Solar Park (CSP)	5 x 150MWp	COD: 2026	Finalisation of land lease agreements (2 sites)



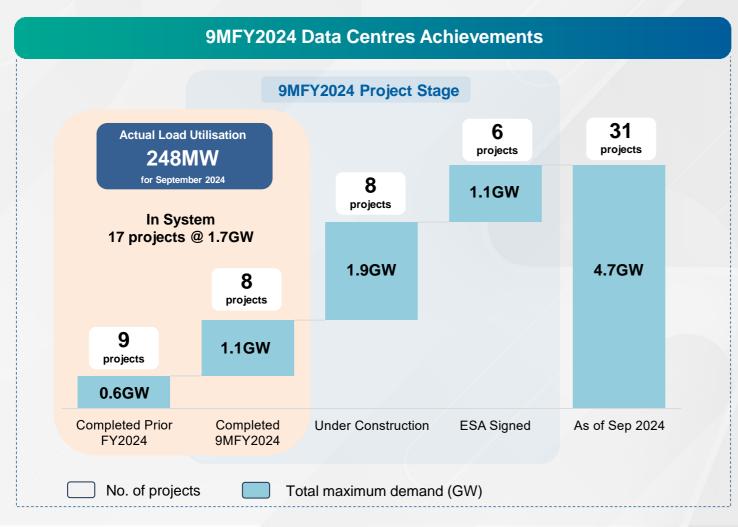
We are on track to fully utilise CAPEX by the end of RP3, with key projects making strong progress

9MFY2024 Key Achievements





TNB continues to deliver power at scale and speed, reflecting its strong commitment and support for data centre growth



Key Highlights



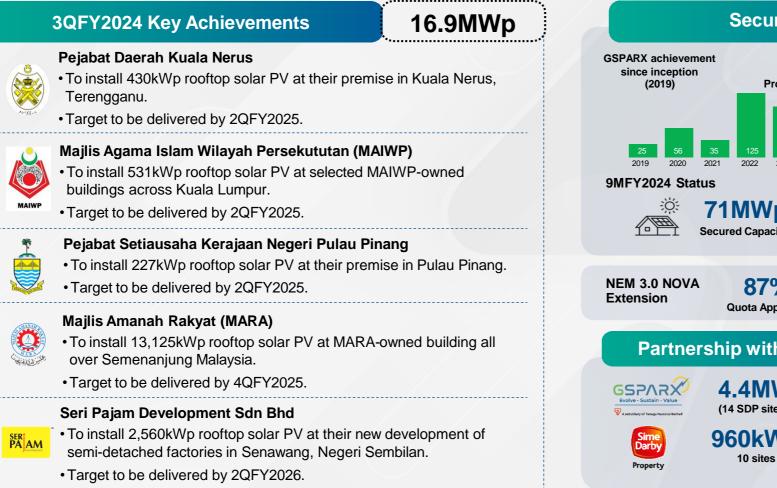
July 2024: Signing of ESA between TNB and Princeton Digital Group (PDG) during PDG JH1 Grand Launching in Sedenak, Johor- received positive feedback and compliments from Chief Minister of Johor, MITI Minister and PDG on TNB's commitment in facilitating DC investments in Malaysia.



August 2024: Vantage Data Centre KUL2 Campus Groundbreaking Ceremony showcased TNB's commitment in providing electricity supply within the stipulated timeline for DC investor.



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

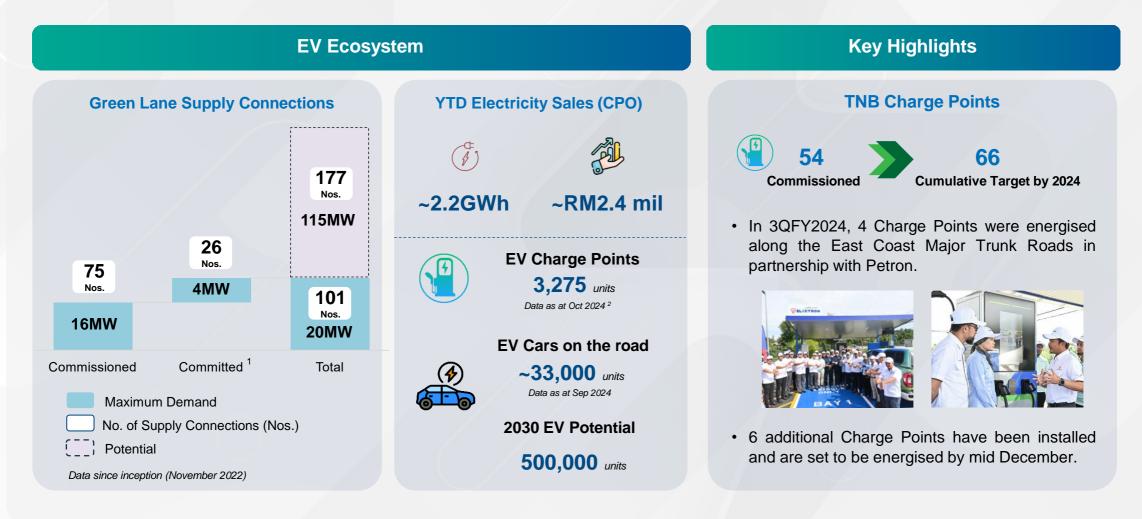




*4 sites to be completed in 2025

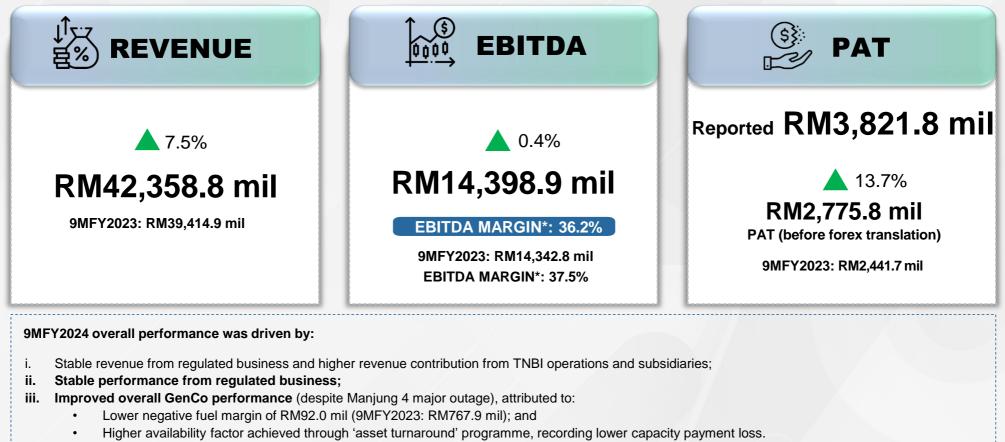


TNB plays a key role in advancing Malaysia's EV market by installing EV chargers and supplying electricity infrastructure to Charge Point Operators (CPOs)





Higher PAT in 9MFY2024 was driven by stable overall performance

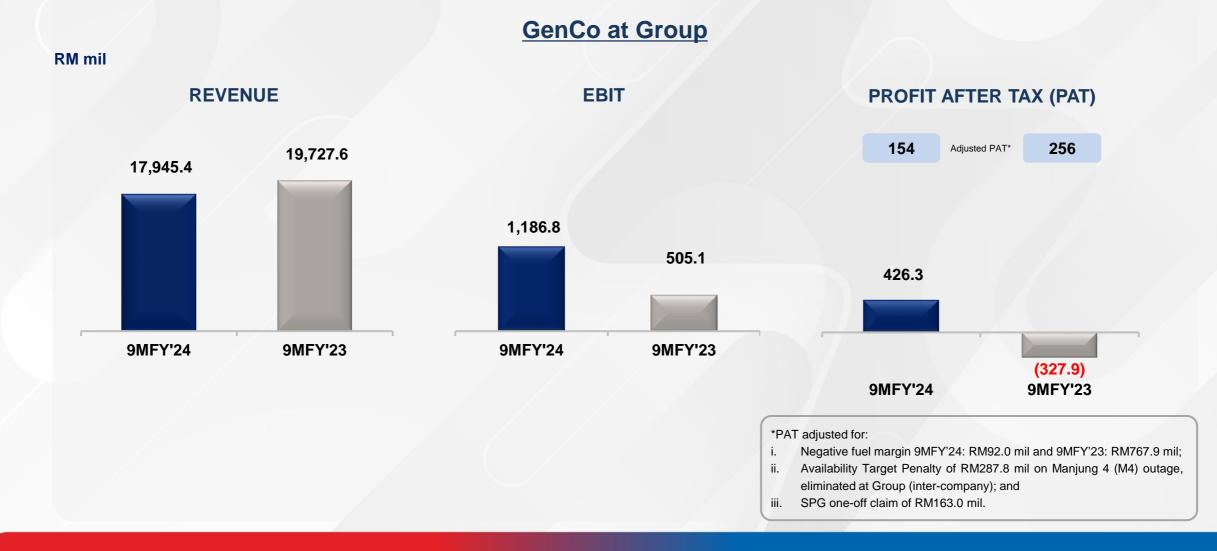


- iv. Forex translation gain of RM1,046.0 mil; and
- v. Lower finance cost of RM3,019.4 mil due to repayment of loans.

Electricity demand growth of 7.6% (TNB 7.3%) driven by increased economic activities



Domestic generation business performance Y-o-Y: Overall improved performance by power plants despite M4 outage



Group earnings supported by; i.

i. Improved generation performanceii. World-class network performance



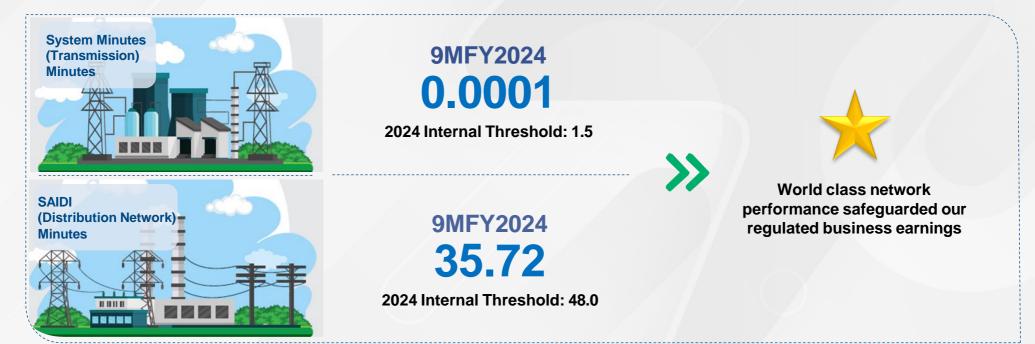
Equivalent Plant Availability Factor, EAF (Generation) %

9MFY2024 80.0%

2024 Target: 78.6%

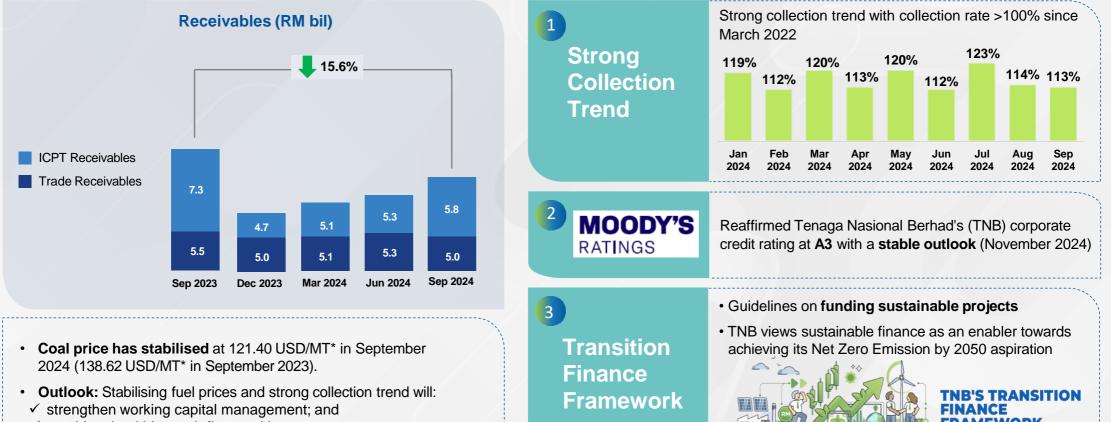


Stable overall performance by power plants





Y-o-Y: Lower receivables driven by lower ICPT and improved collections, strengthening our cash flow position and credit rating



✓ provide a healthier cash flow position.



We continue to pursue sustainable business growth as we commit to a greener future

Electricity

Demand



Projected GDP between 4.8% - 5.3%

Group CAPEX Forecast

Total Group CAPEX : ~ RM11 bil

Regulated capex* : ~ RM7.1 bil

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

RP4 proposal assessment is in the advanced stage Oct'24 RP4 Submission RP4 Submission Sep'24 Series of negotiations with regulator Sep'24 Series of negotiations Series o

Delivering Value to our Shareholders

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



- 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



Appendix

9MFY2024

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

Y-o-Y analysis

				Varianc	е
RM mil		9MFY'24	9MFY'23	RM mil	%
Revenue	1	42,358.8	39,414.9	2,943.9	7.5
Imbalance Cost Pass Through (ICPT)*	2	7,371.6	8,491.6	(1,120.0)	(13.2)
Operating expenses (without depreciation)	3	(36,040.4)	(34,141.4)	(1,899.0)	5.6
Net reversal/(loss) on impairment of financial instruments		17.8	(32.1)	49.9	>100.0
Other operating income		691.1	609.8	81.3	13.3
EBITDA		14,398.9	14,342.8	56.1	0.4
EBITDA Margin (%)*		36.2%	37.5%	-	(1.3)
Depreciation		(8,520.5)	(8,368.4)	(152.1)	1.8
EBIT		5,878.4	5,974.4	(96.0)	(1.6)
Foreign exchange:					
- Transaction		25.9	2.0	23.9	>100.0
- Translation	4	1,046.0	(362.5)	1,408.5	>100.0
Share of results of joint ventures		14.3	9.4	4.9	52.1
Share of results of associates	5	286.5	26.3	260.2	>100.0
Profit before finance cost		7,251.1	5,649.6	1,601.5	28.3
Fair value changes of financial instruments		(5.0)	14.5	(19.5)	>(100.0)
Finance income		445.4	411.7	33.7	8.2
Finance cost	6	(3,019.4)	(3,376.1)	356.7	(10.6)
Profit from ordinary activities before taxation and zakat		4,672.1	2,699.7	1,972.4	73.1
Taxation and Zakat:					
- Company and subsidiaries		(846.6)	(631.6)	(215.0)	34.0
- Deferred taxation		(3.7)	11.1	(14.8)	>(100.0)
Profit for the period (PAT)		3,821.8	2,079.2	1,742.6	83.8
Attributable to:					
- Owners of the Company		3,744.1	2,186.4	1,557.7	71.2
- Non-controlling interests		77.7	(107.2)	184.9	>100.0
		3,821.8	2,079.2	1,742.6	83.8

TENAGA MASIONAL Better. Brighter.

Y-o-Y analysis:

Higher Group revenue recorded from sales demand growth of 7.6% and additional revenue mainly from TNBI operations.

Reduction in ICPT due to decrease in coal price.

Refer Operating Expenses slide.

Forex translation gain due to strengthening of MYR.

Higher mainly due to change in accounting and tax treatment under hyper-inflationary experienced by our associate in Turkey, of RM225.1 mil. This has a corresponding impairment of the same amount, hence neutral impact to earnings.

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

Q-o-Q analysis

RM mil		3QFY'24	2QFY'24	Variance)
RMIIII		JULL 1 24	2QF1 24	RM mil	%
Revenue		14,351.6	14,366.8	(15.2)	(0.1)
Imbalance Cost Pass Through (ICPT)	1	2,196.4	2,822.2	(625.8)	(22.2)
Operating expenses (without depreciation)		(12,295.8)	(12,442.2)	146.4	(1.2)
Net reversal on impairment of financial instruments		62.8	14.4	48.4	>100.0
Other operating income	2	179.4	338.3	(158.9)	(47.0)
EBITDA		4,494.4	5,099.5	(605.1)	(11.9)
Depreciation		(2,882.0)	(2,858.3)	(23.7)	0.8
EBIT		1,612.4	2,241.2	(628.8)	(28.1)
Foreign exchange:					
- Transaction		7.6	(7.1)	14.7	>100.0
- Translation	3	1,112.5	130.2	982.3	>100.0
Share of results of joint ventures		7.3	2.1	5.2	>100.0
Share of results of associates		28.1	243.7	(215.6)	(88.5)
Profit before finance cost		2,767.9	2,610.1	157.8	6.0
Fair value changes of financial instruments		(44.1)	11.5	(55.6)	>(100.0)
Finance income		130.1	159.1	(29.0)	(18.2)
Finance cost		(978.5)	(1,013.8)	35.3	(3.5)
Profit from ordinary activities before taxation and zakat		1,875.4	1,766.9	108.5	6.1
Taxation and Zakat:					
- Company and subsidiaries		(267.9)	(320.0)	52.1	(16.3)
- Deferred taxation		24.0	65.5	(41.5)	(63.4)
Profit for the period (PAT)	_	1,631.5	1,512.4	119.1	7.9
Attributable to:					
- Owners of the Company	2000	1,584.3	1,444.1	140.2	9.7
- Non-controlling interests		47.2	68.3	(21.1)	(30.9)
		1,631.5	1,512.4	119.1	7.9



Q-o-Q analysis:

3

Lower ICPT due to lower coal price.

SPG one-of-claim of RM163.0 mil.

Higher forex translation gain due to strengthening of MYR.

Y-o-Y normalised EBITDA and PAT for 9MFY'24



	EBITDA		9MFY'24	9MFY'23
	Components		RM mil	RM mil
Reported EBITDA			14,398.9	14,342.8
MFRS16 impact		1	(2,891.0)	(3,174.7)
Normalised EBITD/	Ą		11,507.9	11,168.1
	PAT		9MFY'24	9MFY'23
	Components		RM mil	RM mil
Reported PAT			3,821.8	2,079.2
Forex Translation			(1,046.0)	362.5
MFRS16 impact		1	499.8	529.4
MFRS16 impact Normalised PAT		1	499.8 3,275.6	529.4 2,971.1

FRS16 impact:	9MFY'24 RM mil	9MFY'23 RM mil	Variance RM mil
Capacity Payment	2,891.0	3,174.7	(283.7)
Depreciation	(2,391.9)	(2,617.7)	225.8
Finance Cost	(1,142.8)	(1,236.5)	93.7
Deferred Tax	143.9	150.1	(6.2)
Net Impact	(499.8)	(529.4)	29.6

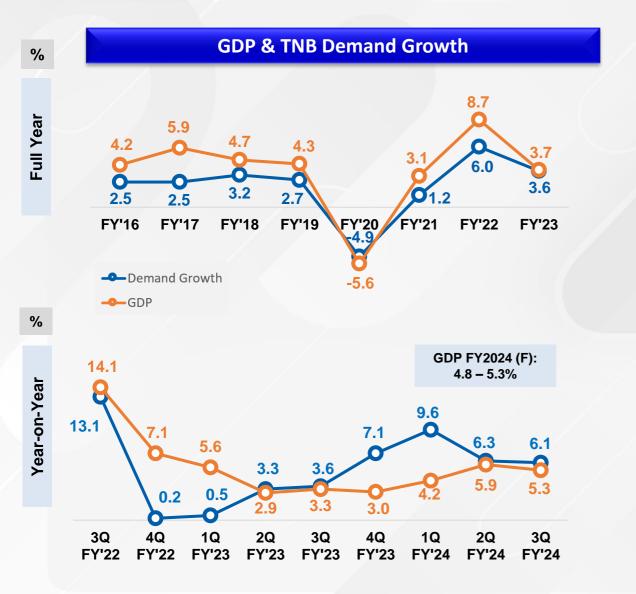
Higher Group revenue driven by overall healthy demand growth



	3QFY'24	4	2QFY'24	ļ	Varian (3QFY'24 vs 2		9MFY'2	4	9MFY'2	.3	Variand (9MFY'24 vs 9		
UNITS SOLD	GWh		GWh		GWh	%	GWh		GWh		GWh	%	
Sales of Electricity (GWh)							1		1 1				1
- TNB	33,358.5		33,120.5		238.0	0.7	98,378.4		91,714.6		6,663.8	7.3	Higher revenue recorded from higher demand growth across all business units.
- SESB	1,697.0		1,707.6		(10.6)	(0.6)	4,984.7		4,543.2		441.5	9.7	demand growin across an business units.
- EGAT (Export)	0.3		0.2		0.1	50.0	0.9		0.4		0.5	>100.0	2 Refer Other Regulatory Adjustment slide.
- TNBI*	274.6		307.6		(33.0)	(10.7)	811.1		522.7		288.4	55.2	Refer <u>Other Regulatory Adjustment slide</u> .
Total Units Sold (GWh)	35,330.4		35,135.9		194.5	0.6	1 104,175.1		96,780.9		7,394.2	7.6	³ Higher revenue recorded by subsidiaries.
REVENUE	RM mil	sen/ kWh	RM mil	sen/ kWh	RM mil	%	RM mil	sen/ kWh	RM mil	sen/ kWh	RM mil	%	
Sales of Electricity (RM)		6					V.						
- TNB	13,438.2	40.37	13,587.1	40.65	(148.9)	(1.1)	39,673.5	40.45	36,708.4	40.21	2,965.1	8.1	
- SESB	570.2	34.37	595.9	34.87	(25.7)	(4.3)	1,715.3	34.55	1,550.2	34.32	165.1	10.7	
- Accrued Revenue	41.9	-	(122.5)	-	164.4	>100.0	124.4	-	182.9	•	(58.5)	(32.0)	
- EGAT (Export)	0.2	66.67	0.1	50.00	0.1	100.0	0.6	66.67	0.3	75.00	0.3	100.0	
- TNBI	230.7	84.01	273.0	88.75	(42.3)	(15.5)	706.1	87.05	590.7	113.01	115.4	19.5	
Sales of Electricity	14,281.2	40.42	14,333.6	40.79	(52.4)	(0.4)	¹ 42,219.9	40.53	39,032.5	40.33	3,187.4	8.2	
Other Regulatory Adjustment	(666.3)		(739.2)		72.9	9.9	2 (1,873.9)		(988.3)		(885.6)	(89.6)	
Tariff Support Subsidy	79.0		79.3		(0.3)	(0.4)	232.3		210.7		21.6	10.3	
Fuel Subsidy - SESB	103.8		79.6		24.2	30.4	256.6		211.5		45.1	21.3	
Total Sales of Electricity	13,797.7		13,753.3		44.4	0.3	40,834.9		38,466.4		2,368.5	6.2	
Goods & Services	447.9		513.9		(66.0)	(12.8)	3 1,211.5		621.8		589.7	94.8	
Construction contracts	31.0		27.3		3.7	13.6	92.8		115.2		(22.4)	(19.4)	
Customers' contribution	75.0		72.3	/	2.7	3.7	219.6		211.5		8.1	3.8	
Total Revenue	14,351.6		14,366.8		(15.2)	(0.1)	42,358.8		39,414.9		2,943.9	7.5	

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





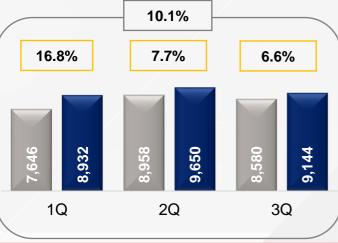
TNB (Peninsular) Yearly Peak Demand

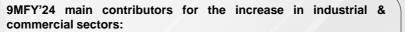


Increased demand across all sectors mainly contributed by commercial and domestic



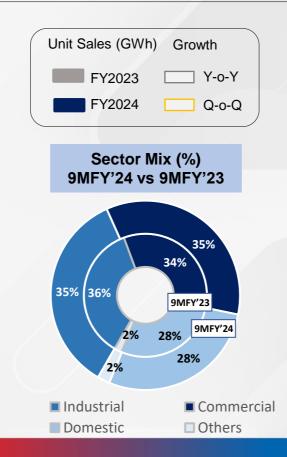






Industrial

- Utility electrical, consumer products and iron & steel Commercial
- Retails, data centres and business services



Commercial 9.6% 11.2% 8.8% 8.8% 10,925 11,102 11,641 11,883 0,699 9,981 1Q 2Q 3Q Others* *includes Agriculture, Mining & Public Lighting 7.3% 8.5% 7.3% 6.2% 655 615 660 680 604 641 2Q 3Q 1Q

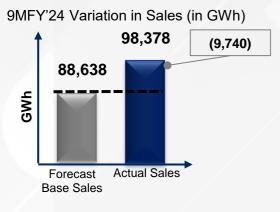
As at 9MFY'24, other regulatory adjustment of RM1,873.9 mil to be returned



Components of Other Regulatory Adjustment	1QFY'24	2QFY'24	3QFY24	9MFY'24	9MFY'23
components of other Regulatory Adjustment	RM mil	RM mil	RM mil	RM mil	RM mil
Revenue Adjustment for Revenue Cap & Price Cap	(412.4)	(684.1)	(621.0)	1 (1,717.5)	(803.8)
Refund Related to Regulated Business	(66.7)	(52.2)	(85.4)	(204.3)	(202.6)
Recovery of 2021 ADD (Commercial and Industrial)	-	/ / -	37.9	37.9	- /
Regulatory Adjustment for SESB*	10.7	(2.9)	2.2	10.0	18.1
TOTAL	(468.4)	(739.2)	(666.3)	(1,873.9)	(988.3)
	~~ /	97			

*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.

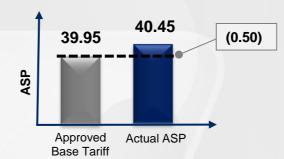
 For 9MFY'24, higher actual sales has led to amount to be returned via revenue adjustment mechanism.

Business Entities	Allowed Tariff	Variation in Sales	Adjustment
	(sen/kWh)	(GWh)	RM mil
Revenue Cap Entities	12.60	(9,740)	(1,225.5)

Numbers manually computed will not match due to decimal variance

Price Cap

9MFY'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 9MFY'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	98,378	(0.50)	(492.0)

Higher Y-o-Y operating expenses



	3QFY'24	2QFY'24	Variance (3QFY'24 vs 2QFY'24)		9MFY'24	9MFY'23	Variance (9MFY'24 vs 9MFY'23)	
	RM mil	RM mil	RM mil	%	RM mil	RM mil	RM mil	%
Non-TNB IPPs Costs	4,612.0	4,694.8	(82.8)	(1.8)	13,540.2	11,506.3	2,033.9	17.7
Capacity Payment	(67.8)	36.7	(104.5)	>(100.0)	10.2	(60.5)	70.7	>100.0
Energy Payment	4,679.8	4,658.1	21.7	0.5	13,530.0	11,566.8	1,963.2	17.0
TNB Fuel Costs	4,273.6	4,552.9	(279.3)	(6.1)	13,161.4	14,900.0	(1,738.6)	(11.7)
Fuel Costs	4,561.4	4,514.5	46.9	1.0	13,427.3	15,497.7	(2,070.4)	(13.4)
Fuel Price Adjustment	(287.8)	38.4	(326.2)	>(100.0)	(265.9)	(597.7)	331.8	55.5
Total OPEX - Fuel and Power Purchase	8,885.6	9,247.7	<mark>1</mark> (362.1)	(3.9)	26,701.6	26,406.3	<mark>2</mark> 295.3	1.1
Staff Costs	911.5	966.5	(55.0)	(5.7)	2,830.0	2,855.6	(25.6)	(0.9)
Repair & Maintenance	837.7	801.0	36.7	4.6	2,330.9	2,156.3	174.6	8.1
TNB General Expenses	518.7	434.2	84.5	19.5	1,382.0	1,214.4	167.6	13.8
Subs. General Expenses	1,142.3	992.8	<mark>3</mark> 149.5	15.1	2,795.9	1,508.8	<mark>3</mark> 1,287.1	85.3
Total OPEX - Non Fuel (without Depreciation)	3,410.2	3,194.5	215.7	6.8	9,338.8	7,735.1	1,603.7	20.7
Total Operating Expenses (without Depreciation)	12,295.8	12,442.2	(146.4)	(1.2)	36,040.4	34,141.4	1,899.0	5.6
Depreciation & Amortisation	2,882.0	2,858.3	23.7	0.8	8,520.5	8,368.4	152.1	1.8
Total Operating Expenses	15,177.8	15,300.5	(122.7)	(0.8)	44,560.9	42,509.8	2,051.1	4.8

3QFY'24 vs 2QFY'24: Lower fuel and power purchase costs due to lower coal and gas prices (refer Fuel Costs slide).

9MFY'24 vs 9MFY'23: Higher fuel and power purchase costs due to higher units generated.

•		
3	Hig	her subsidiaries general expenses:
	i.	Higher cost of sales to support higher
		revenue recorded; and
	ii.	Impairment of associates (refer Y-o-Y
		Analysis Note 5).

Lower overall fuel costs due to lower coal price in 9MFY'24



Table A – TNB & IPP Fuel Costs for Peninsular

Fuel Type	9MFY'24	9MFY'23	Variano	ce
	RM mil	RM mil	RM mil	%
Coal	13,248.4	15,762.4	(2,514.0)	(15.9)
Gas	9,187.8	7,941.9	1,245.9	15.7
Distillate	126.7	214.3	(87.6)	(40.9)
Oil	25.9	29.9	(4.0)	(13.4)
Totał	22,588.8	23,948.5	(1,359.7)	(5.7)

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

Table C – Fuel Costs Related Data

Fuel statistics	9MFY'24	9MFY'23	ļ
Average Coal Price Delivered (USD/MT)(CIF)	112.5	139.9	
Average Coal Price Delivered (RM/MT)(CIF)	521.8	630.7	
Coal Consumption (mil MT)	25.7	25.2	
	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	
	3QFY'24	3QFY'23	
	Tier 1 : 35.0	Tier 1 : 30.0	
	Tier 2 : 45.7	Tier 2 : 44.9	
Daily Average Piped Gas Volume (mmscfd)	982	859	

Table B – TNB & IPP Units Generated for Peninsular

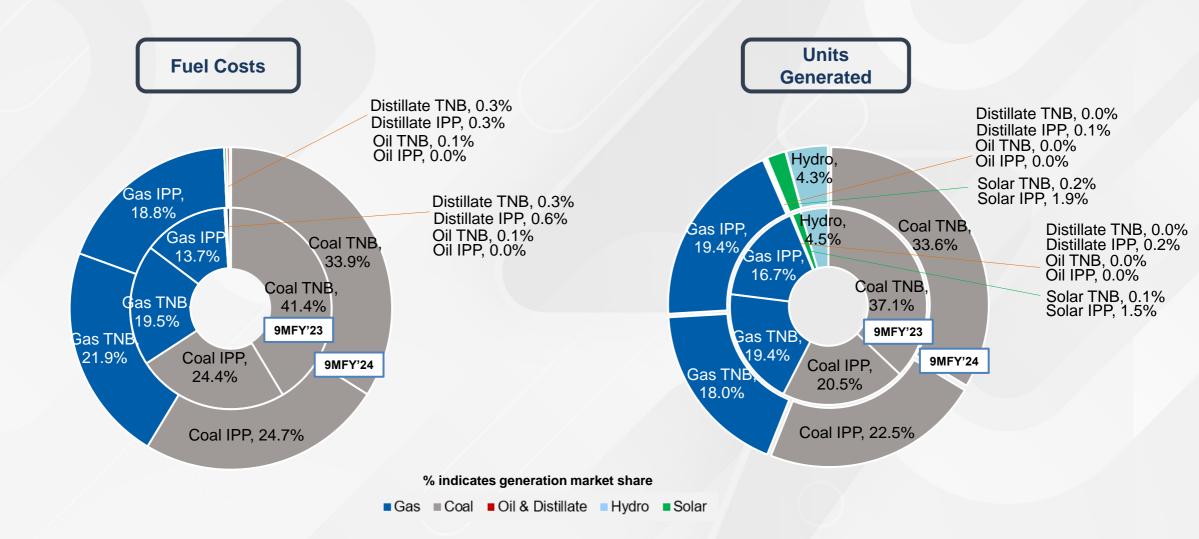
First Time	9MI	=Y'24	9M	FY'23	Variance		
Fuel Type	GWh	Gen. Mix (%)	GWh	Gen. Mix (%)	GWh	%	
Coal	59,811.7	56.1	57,371.1	57.6	2,440.6	4.3	
Gas	39,930.0	37.4	36,006.4	36.1	3,923.6	10.9	
Distillate	85.1	0.1	175.7	0.2	(90.6)	(51.6)	
Hydro	4,592.1	4.3	4,493.8	4.5	98.3	2.2	
Solar	2,276.8	2.1	1,618.8	1.6	658.0	40.6	
Total	106,695.7	100.0	99,665.8	100.0	7,029.9	7.1	

Table D – Average Coal Price Delivered

	9MFY'24	9MFY'23	Variance		
	USD/MT	USD/MT	USD/MT	%	
FOB	102.8	130.2	(27.4)	(21.0)	
Freight	9.3	9.4	(0.1)	(1.1)	
Others	0.4	0.3	0.1	33.3	
CIF	112.5	139.9	(27.4)	(19.6)	

Fuel Costs & Units Generated (TNB & IPPs – Peninsular) in 9MFY'24





Lower Q-o-Q fuel costs mainly due to lower coal costs



Table A – TNB & IPP Fuel Costs for Peninsular

Fuel Ture	3QFY'24	2QFY'24	1QFY'24	Variance 3QFY	24 vs 2QFY'24
Fuel Type	RM mil	RM mil	RM mil	RM mil	%
Coal	4,441.3	4,605.6	4,201.5	(164.3)	(3.6)
Gas	2,939.3	3,013.5	3,235.0	(74.2)	(2.5)
Distillate	49.0	19.0	58.7	30.0	>100.0
Oil	2.0	10.5	13.4	(8.5)	(81.0)
Total	7,431.6	7,648.6	7,508.6	(217.0)	(2.8)

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

Table C – Fuel Costs Related Data

Fuel statistics	3QFY'24	2QFY'24	1QFY'24
Average Coal Price Delivered (USD/MT)(CIF)	112.0	112.2	113.7
Average Coal Price Delivered (RM/MT)(CIF)	499.6	531.0	536.2
Coal Consumption (mil MT)	9.3	8.7	7.7
	3QFY'24	2QFY'24	1QFY'24
Gas Reference Market Price (RM/mmbtu)	Tier 1 : 35.0	Tier 1 : 35.0	Tier 1 : 30.0
	Tier 2 : 45.7	Tier 2 : 47.4	Tier 2 : 44.7
Daily Average Piped Gas Volume (mmscfd)	951	978	1017

Table B – TNB & IPP Units Generated for Peninsular

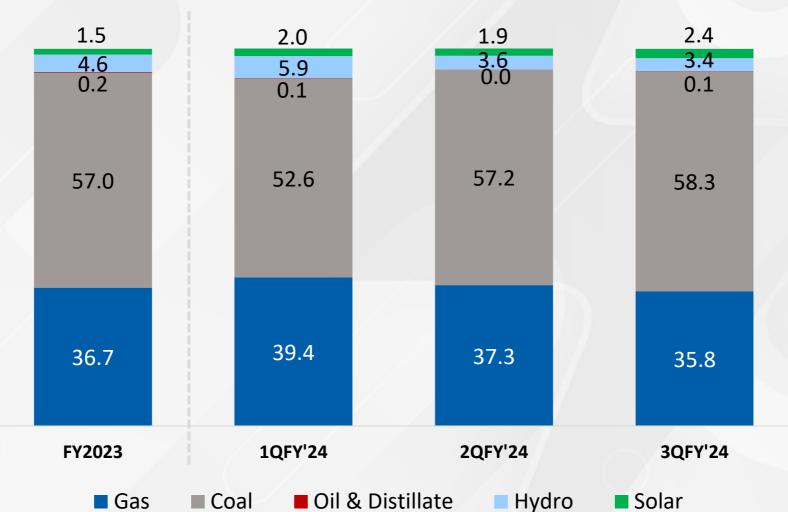
E. J. T	3Q	FY'24	2Q	FY'24	10	QFY'24	Variance 3QFY'24	vs 2QFY'24
Fuel Type	GWh	Gen. Mix (%)	GWh	Gen. Mix (%)	GWh	Gen. Mix (%)	GWh	%
Coal	21,109.4	58.3	20,505.7	57.2	18,196.6	52.6	603.7	2.9
Gas	12,954.0	35.8	13,341.0	37.3	13,635.0	39.4	(387.0)	(2.9)
Distillate	39.4	0.1	-	0.0	45.7	0.1	39.4	>100.0
Hydro	1,246.1	3.4	1,289.6	3.6	2,056.4	5.9	(43.5)	(3.4)
Solar	886.2	2.4	692.2	1.9	698.4	2.0	194.0	28.0
Total	36,235.1	100.0	35,828.5	100.0	34,632.1	100.0	406.6	1.1

Table D – Average Coal Price Delivered

	3QFY'24	2QFY'24	1QFY'24	Variance 3QFY'24 vs 2QFY'24		
	USD/MT	USD/MT	USD/MT	USD/MT	%	
FOB	102.2	102.0	104.5	0.2	0.2	
Freight	9.4	9.7	8.7	(0.3)	(3.1)	
Others	0.4	0.5	0.5	(0.1)	(20.0)	
CIF	112.0	112.2	113.7	(0.2)	(0.2)	

Q-o-Q: Higher generation from coal in 3QFY'24





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



	4QFY'23	1QFY'24	2QFY'24	3QFY'24
	RM mil	RM mil	RM mil	RM mil
Single Buyer Actual Generation Costs: (A)	10,357.3	10,710.6	11,499.8	10,936.5
Actual Sales (GWh)	31,491.4	31,899.4	33,120.6	33,359.0
Single Buyer Tariff (RM/kWh)	0.2620	0.2620	0.2620	0.2620
Actual Gen Cost Recovered (B)	8,250.7	8,357.6	8,677.6	8,740.1
ICPT Surcharge / (Rebate) (C) (C = A – B)	2,106.6	2,353.0	2,822.2	2,196.4

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





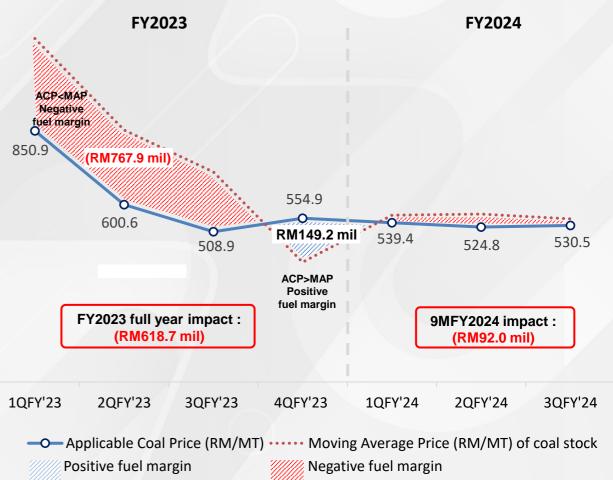
Coal Price & Applicable Coal Price (ACP) comparison

	1QFY'23	2QFY'23	3QFY'23	4QFY'23	1QFY'24	2QFY'24	3QFY'24
Average Coal Price Delivered (RM/mmbtu) *	35.85	29.43	24.31	24.36	24.81	24.23	22.88
ACP (RWmmbtu)	38.77	27.52	23.32	25.42	24.73	24.13	24.31

* Based on internal conversion

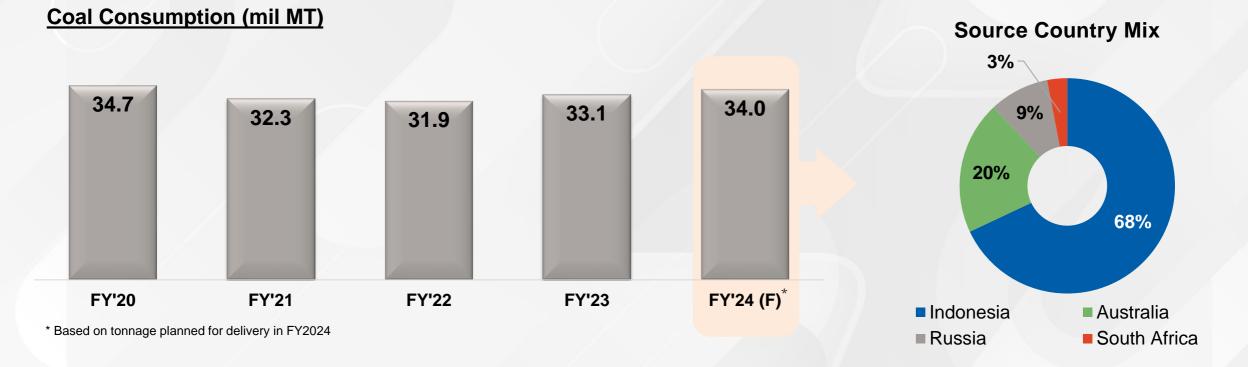
- Fuel Price Adjustment (FPA) is the difference between the Applicable Coal Price (ACP) billed to generators and the actual coal price paid to supplier (delivered) by TNBF. The difference is caused by higher or lower coal price or due to currency exchange.
- ACP is set by Energy Commission on a monthly basis starting from August 2022.
- In 3QFY'24, the base ACP (RM24.31/mmbtu) used for billing the generators was higher than the coal price paid to supplier (RM22.88/mmbtu).

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



Industry coal requirement forecast for FY2024





Group CAPEX

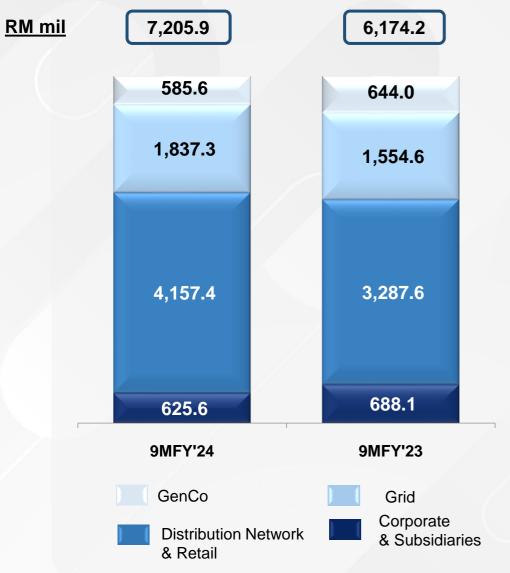




		RP3 RE	GULATED ENTIT	ES CAPEX
	FY	IBR Approved RM mil	Actual YTD RM mil	Utilisation (%)
	2024	7,099.1	5,981.2	84.3

Total RAB (RM mil)				
Actual As at 30 Sep 2024	Projected FY2024			
67,228.0	67,533.7			

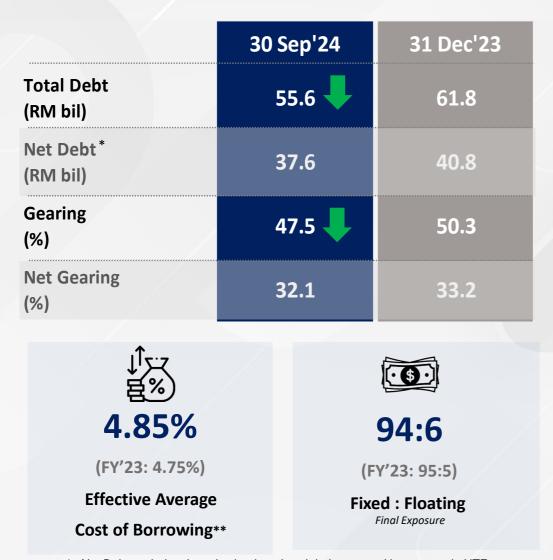
Regulatory net returns: RM3,452.1 mil

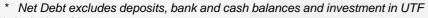


Note: Numbers manually computed will not match due to decimal variance

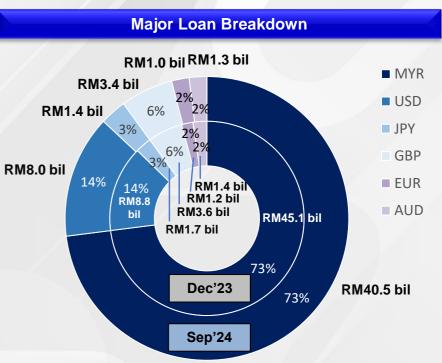
Gearing improved to 47.5% as at 9MFY'24







** Inclusive of interest rate swap



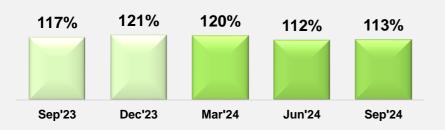
Closing FOREX	30 Sep'24	31 Dec'23
USD/RM	4.105	4.593
100YEN/RM	2.890	3.246
GBP/RM	5.498	5.854
AUD/RM	2.847	3.141
EUR/RM	4.584	5.083

Trade receivables as at 9MFY'24





Strong collection trend

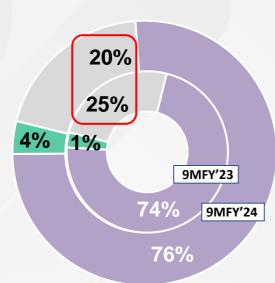




- We continuously monitor our cash flow position on a daily basis and remain prudent on our working capital management.
- Moody's: Reaffirmed TNB corporate credit rating at A3 with a stable outlook (Nov'24).

Revenue from coal recorded at 20% due to M4 outage





Actual Group Revenue*

RE Coal Others **

* Total revenue includes ICPT

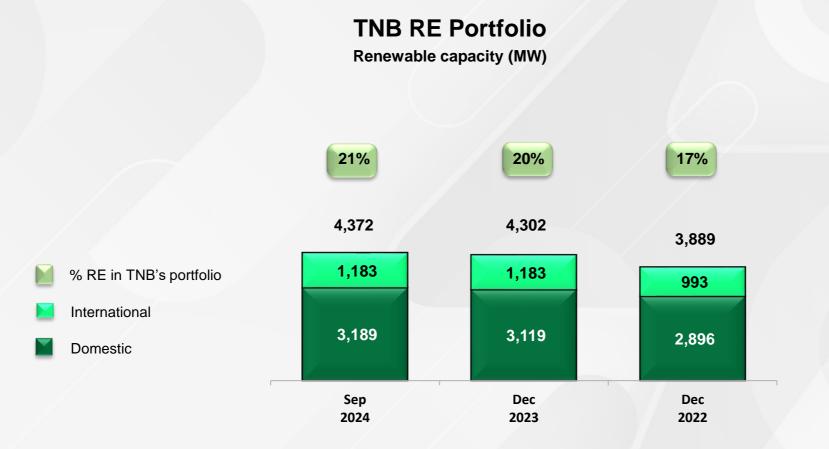
** Others include revenue from regulated business, subsidiaries and other generation sources



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

Our RE journey is progressing well





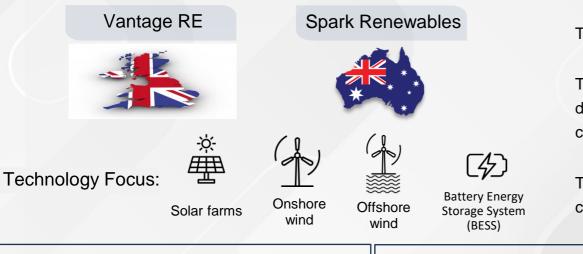
Note:

- Gross RE Capacity includes large hydro (exclude SESB)
- Solar capacity is quoted in MWp starting from 2023

International Investments: Renewable Energy (RE)



TNB International Sdn Bhd (TNBI)



Financial Performance

Higher EBITDA Y-o-Y (9MFY'24: RM496.1 mil vs 9MFY'23: RM442.6 mil) due to additional contribution from newly acquired solar portfolio (276MW) in Ireland in December 2023 and higher generation from wind assets due to higher wind speeds. TNBI is a TNB wholly owned subsidiary incorporated under the laws of Malaysia.

TNBI is a platform focused on capturing global renewable energy opportunities, diversifying TNB's portfolio and spearheading TNB's Energy Transition initiative, contributing towards supporting key milestones in TNB's Net Zero 2050 journey.

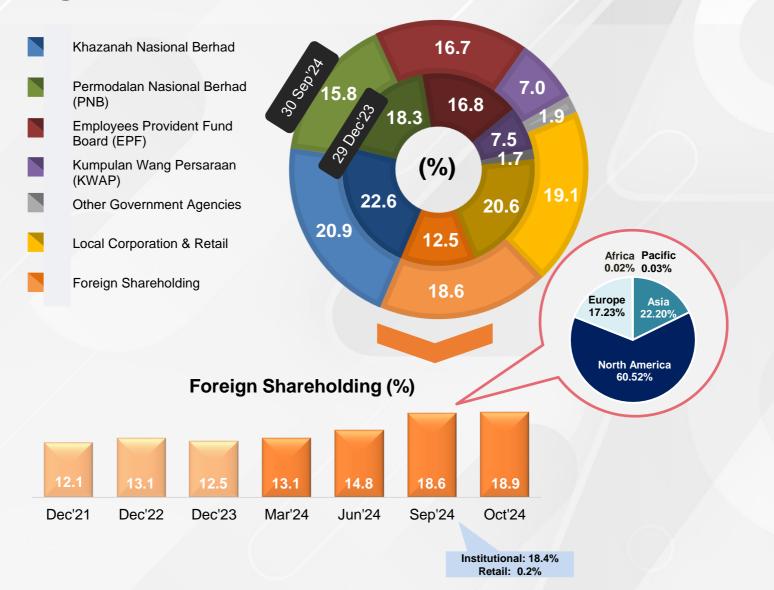
TNBI is anchored by Vantage RE with ~1GW RE portfolio (operational and under construction) and Spark Renewables.

Outlook

- TNB is committed to grow its presence in RE market and the current focus is on converting development pipelines into operational assets.
- In addition, TNB's international RE platforms are implementing alternative revenue mechanisms, such as Contract-for-Difference (CfD) scheme, Corporate Power Purchase Agreements (PPAs) and exploring Battery Energy Storage System (BESS) based opportunities.
- This strategy will be supported by leveraging on TNB's extensive experience in developing power projects in both international and domestic markets, along with knowledge and technology transfer within TNB Group.
- There is a steady progress in greenfield projects through implementing key strategies to drive timely completion and secure future growth opportunities.
- TNBI's platform in Australia, Spark Renewables is currently advancing several development pipelines and has recently submitted a bid to secure grid access rights within the South-West Renewable Energy Zone.

Shareholdings







Disclaimer

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