

To	Company Announcements Office	Facsimile	1300 135 638
Company	ASX Limited	Date	31 January 2023
From	Helen Hardy	Pages	24
Subject	December 2022 Quarterly Report		

Please find attached a release on the above subject.

Regards

A handwritten signature in black ink, appearing to read "Helen Hardy".

Authorised by:  
Helen Hardy  
Company Secretary

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## ASX/Media Release

31 January 2023

### Quarterly Report December 2022

Origin Energy Limited (Origin) has released its Quarterly Report for the period to 31 December 2022, covering the performance of its Integrated Gas and Energy Markets divisions.

#### Integrated Gas:

- Australia Pacific LNG production of 165.6 PJ was a 1 per cent decline compared to the prior quarter due to the cumulative impact of wet weather on well access.
- FY2023 production range now expected to be 660 – 680 PJ.
- Australia Pacific LNG revenue for the December quarter increased 15 per cent on the prior quarter and 42 per cent on the corresponding quarter in 2021, driven by higher realised oil prices. Origin share of revenue for the quarter was \$876 million.
- Three JKM-linked spot cargoes were delivered in the quarter.
- December quarter Australia Pacific LNG realised prices were an average LNG price of US\$15.94/mmbtu (contracted and spot) and an average domestic price of A\$6.31/GJ (legacy and short-term).
- Origin received \$783 million in cash distribution from Australia Pacific LNG for the six months to 31 December 2022.

#### Energy Markets:

- Total electricity sales volumes increased 4 per cent from the corresponding quarter in 2022, driven by higher business volumes as Origin won new customers.
- Gas sales volumes remained relatively flat with higher business volumes on net new customer wins partly offset by lower gas demand for electricity generation.
- Electricity and gas spot prices declined compared to the previous quarter, although they remain higher than the corresponding period a year earlier.
- 96 per cent of all retail electricity and gas customer accounts have been migrated to Kraken as at 31 December 2022.

Origin CEO Frank Calabria said, “For the December quarter, Australia Pacific LNG delivered increased revenue as a result of higher realised oil prices, while wet weather and an unplanned non-operated downstream outage resulted in a small decline in production.

“Australia Pacific LNG continued to be a major supplier to the domestic market, providing Australian businesses with 31.6 PJ of gas during the quarter, at average prices well below those paid by international customers.

“In Energy Markets, customer sales volumes increased for both electricity and gas compared to the prior corresponding quarter, as Origin won new business customers.

“Average NEM spot wholesale electricity prices have moderated from their elevated peak in 2022, due to lower demand and improved output from coal and renewable generation, although prices are still higher than the same time last year.

“Almost all of our retail customers have been migrated to the market-leading Kraken platform, enabling superior customer experience at a lower cost to serve,” Mr Calabria said.



	Unit	Dec-22 QTR	Sep-22 QTR	% Change	Dec-21 QTR	% Change	FYTD-23	FYTD-22	% Change
<b>Integrated Gas – APLNG 100%</b>									
Production	PJ	165.6	167.5	(1%)	177.9	(7%)	333.0	351.4	(5%)
Sales	PJ	161.4	160.8	0%	169.2	(5%)	322.2	337.3	(4%)
Commodity revenue	\$m	3,184	2,768	15%	2,248	42%	5,951	3,938	51%
Average commodity price	A\$/GJ	19.72	17.21	15%	13.29	48%	18.47	11.67	58%
<b>Energy Markets</b>									
Electricity sales	TWh	8.5	9.6	(12%)	8.2	4%	18.1	17.1	6%
Natural gas sales	PJ	48.8	74.8	(35%)	48.3	1%	123.7	115.4	7%
<b>Corporate</b>									
Origin capex	\$m	161	108	50%	120	34%	269	222	21%
Origin investments	\$m	3	170	(98%)	77	(96%)	173	266	(34%)
Net cash from APLNG	\$m						783	555	41%

**For further information:**

**Media**

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**Investors**

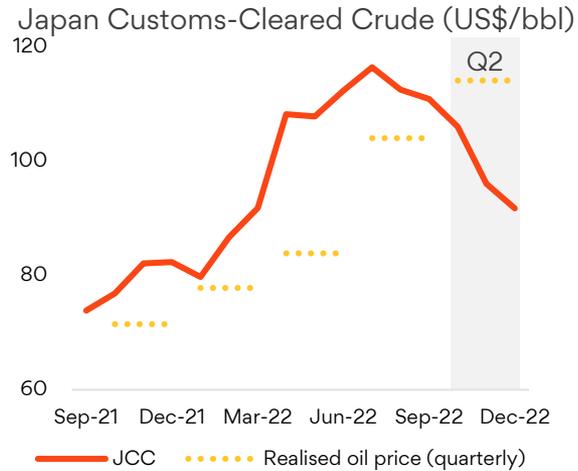
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# Quarterly Report

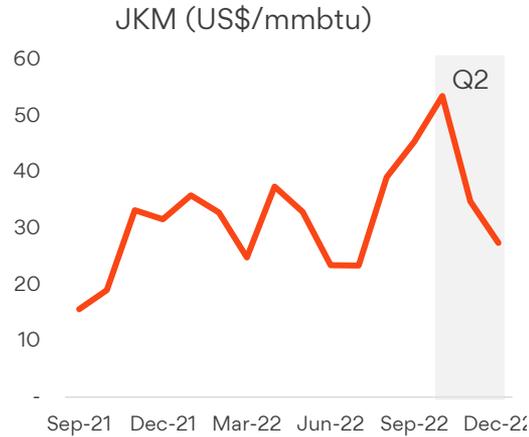
## December 2022



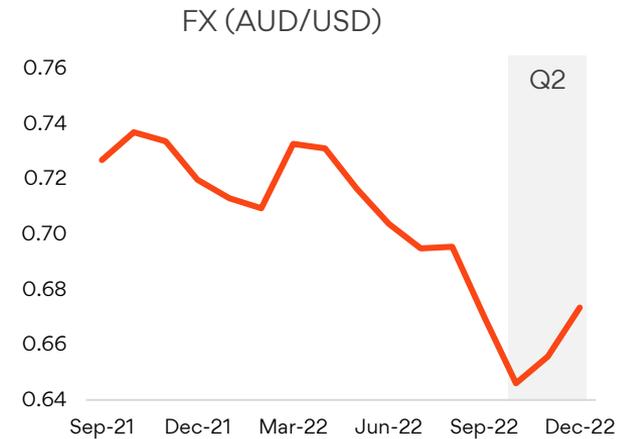




Source: Petroleum Association of Japan, Bloomberg forward pricing from Nov-22

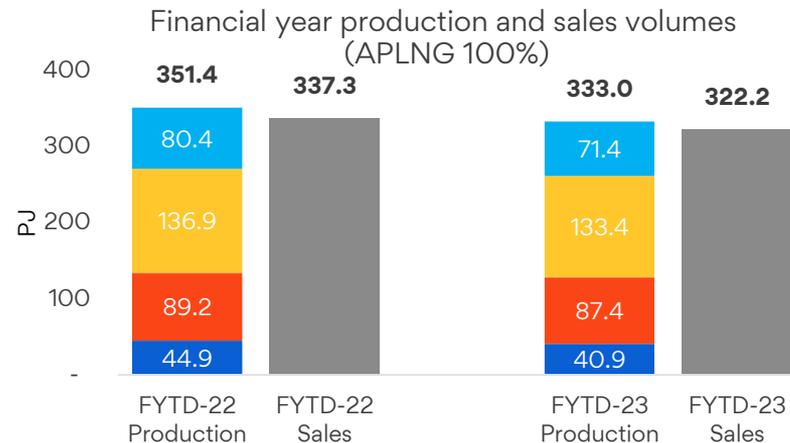
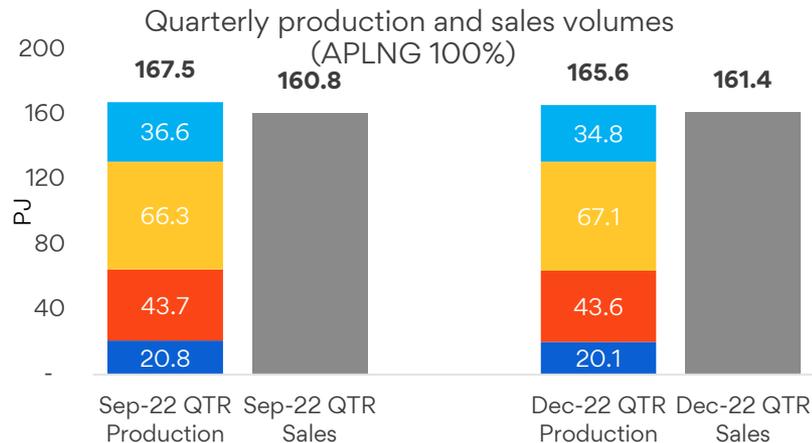


Source: ICE



- APLNG's realised oil price excluding Origin's hedging cost in the Dec-22 quarter was US\$114/bbl (A\$173/bbl), up from US\$104/bbl (A\$152/bbl) in the Sep-22 quarter and up from US\$71/bbl (A\$98/bbl) in the Dec-21 quarter
- As at 31 December 2022, ~92% of APLNG's FY2023 oil exposure was priced at ~US\$104/bbl, based on contract lag and before any Origin hedging
- APLNG delivered three JKM-linked spot cargoes in the Dec-22 quarter, consistent with Dec-21 quarter.

# APLNG production resilient during ongoing wet weather



■ Non-operated  
■ Reedy Creek, Combabula and Peat  
■ Condabri, Talinga and Orana  
■ Spring Gully

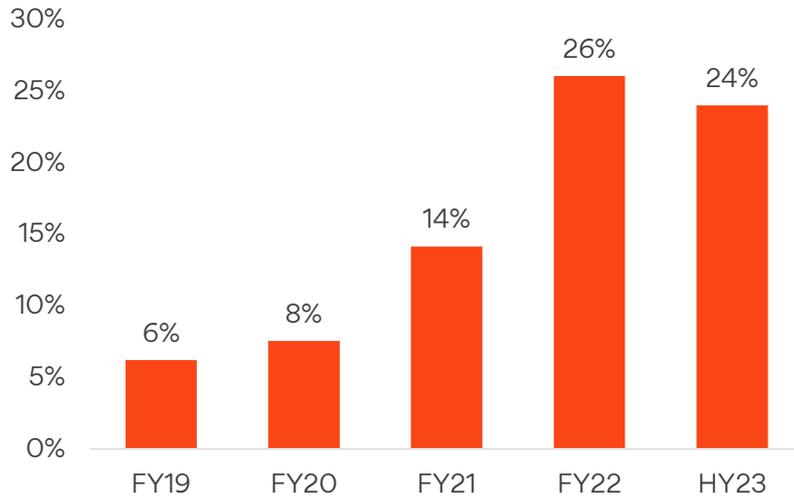
■ Non-operated  
■ Reedy Creek, Combabula and Peat  
■ Condabri, Talinga and Orana  
■ Spring Gully

- Production broadly inline with Sep-22 quarter:
  - Wet weather impacted field access and operations and non-operated production impacted by an unplanned outage
  - Partially offset by a full quarter of Talinga Condabri North Pipeline operations and additional wells online through workovers and commissioning
- Dec-22 quarter sales volume remains steady:
  - Three spot LNG cargoes delivered during the quarter

- FYTD-23 production down 5% compared to FYTD-22:
  - Cumulative wet weather impacts and unplanned non-operated outage
  - Upstream planned cyclical maintenance at gas processing facilities commenced early FY2023
- Production recovery plan underway in H2 FY2023, with higher well workover activity as the impact from wet weather reduces and additional wells return online

## H1 FY2023 production impacted by three-year La Nina cycle

Wait on Weather (WOW)<sup>1</sup>



1. WOW is the percentage of time a workover rig is stood down due to wet weather

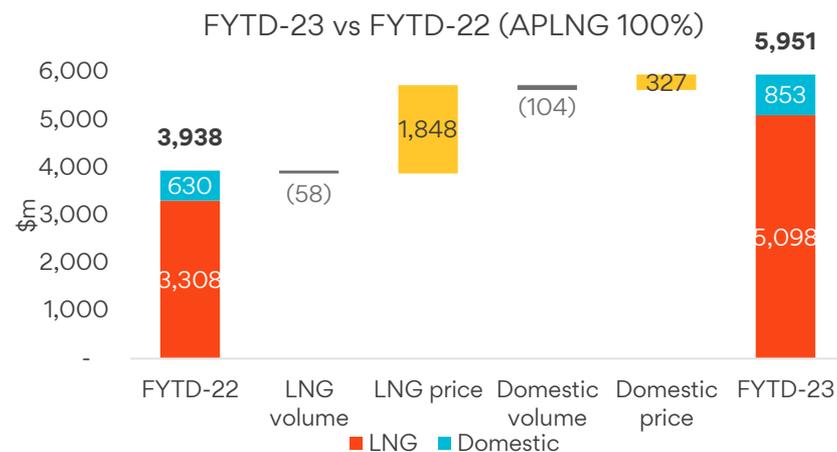
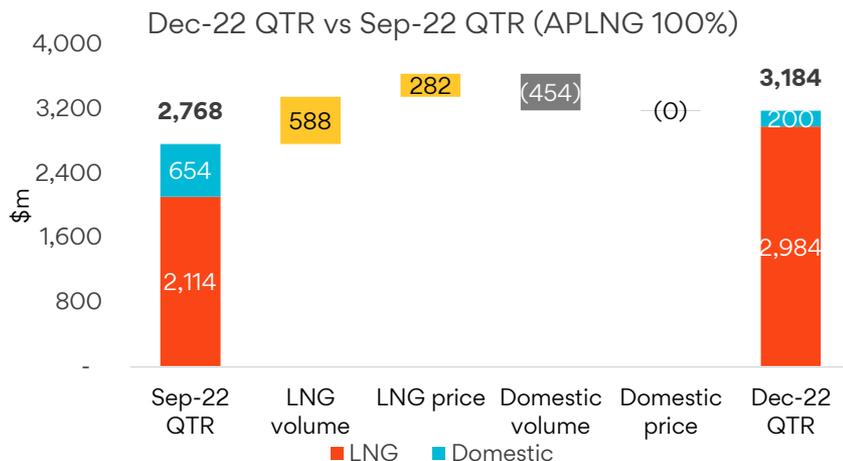
## Wet weather impacts

- Delays to workovers and drilling, and lower rig utilisation
- Restricted site access for brownfields project execution and well optimisation
- FY2023 production now expected to be 660 – 680 PJ

## Production recovery plan underway

- Number of online wells to increase with additional well commissioning, workover activity ramping up and improved field access
- Talinga Condabri North Pipeline ramped to full capacity in December 2022, and Orana South Loop Line is expected to come online in H2 FY2023 providing greater operational flexibility
- Recent drier weather saw Wait on Weather reduce in November and December 2022

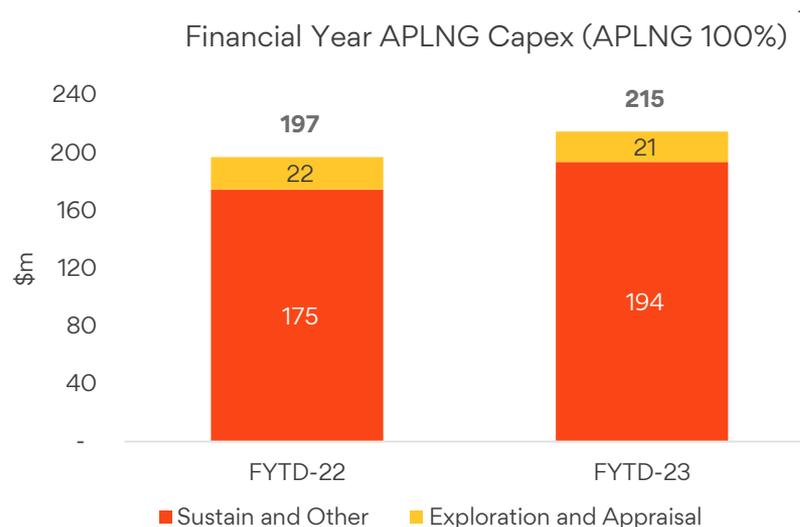
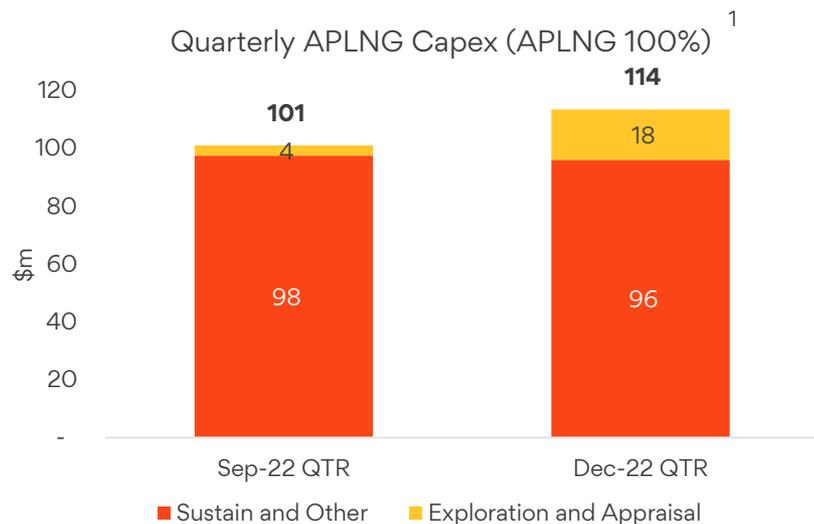
# APLNG revenue up 15% on prior quarter



- APLNG revenue up 15% from Sep-22 quarter:
  - LNG revenue up 41% driven by higher volumes returning in Dec-22 quarter post completion of routine LNG facility maintenance in Sep-22 quarter and higher realised average LNG prices
  - Domestic revenue down 69% primarily driven by lower seasonal short-term contract volumes during the Dec-22 quarter and higher domestic sales during the LNG facility maintenance in the Sep-22 quarter
  - Average realised domestic sale price remains well below international netback price

- APLNG revenue up 51% on prior year:
  - LNG revenue up 54% primarily driven by higher realised oil prices
  - Domestic revenue up 36% primarily driven by higher market linked short-term contract prices, offset by slightly lower volumes in line with lower production

# APLNG capital expenditure

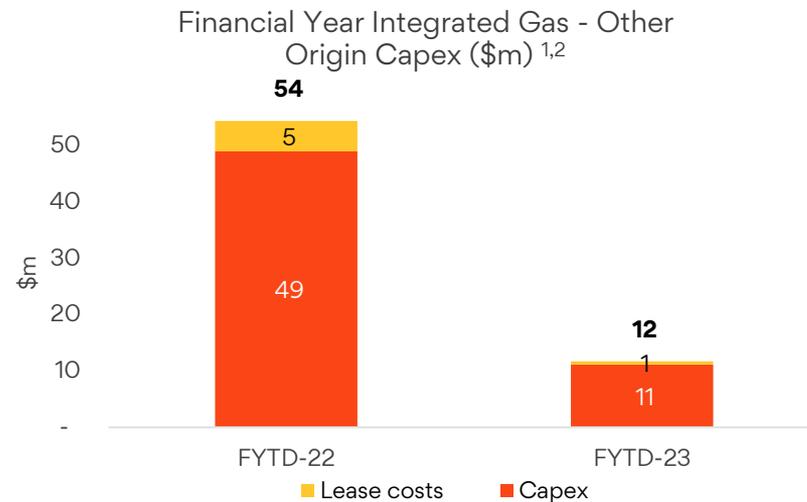
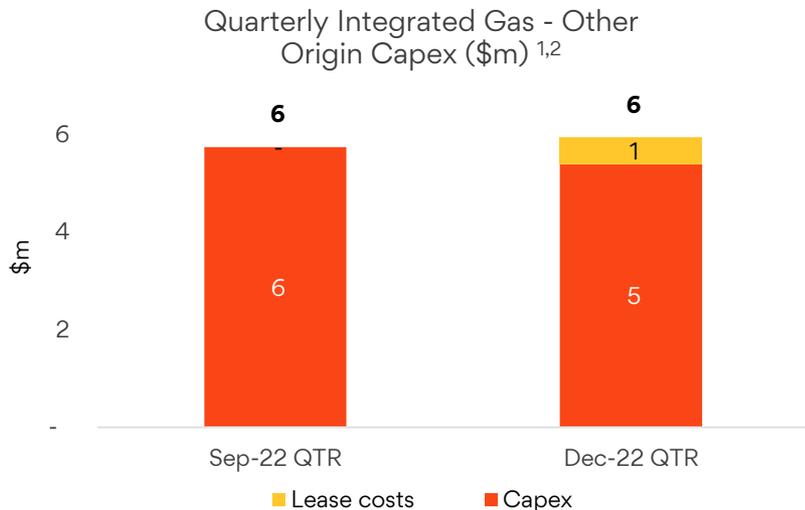


- Exploration and appraisal capex increased \$14 million from Sep-22 quarter due to timing of non-operated activities
- Non-operated sustain activities were lower than prior quarter partially offset by more APLNG operated wells commissioned in Dec-22 quarter due to prior period wet weather impacts

- Capex was up \$18 million (9%) primarily driven by increase in non-operated well development programs and development of Orana South Loop Line project.

1) APLNG capex is reported on an accrual basis.

# Integrated Gas – Origin capex and lease costs <sup>1,2</sup>



- Capital spend in Dec-22 quarter largely related to Beetaloo program and Future Fuels project in Hunter Valley
- Lower capital expenditure in FYTD-23 against prior corresponding period reflects decreased activities across Beetaloo and Canning Basin as we undertake a strategic review of all remaining exploration permits (excluding interests in Australia Pacific LNG) with a view to exiting those permits over time
- The Beetaloo divestment was completed in November 2022 with the FYTD-23 spend recorded in capex but reimbursed as part of the transaction sale proceeds

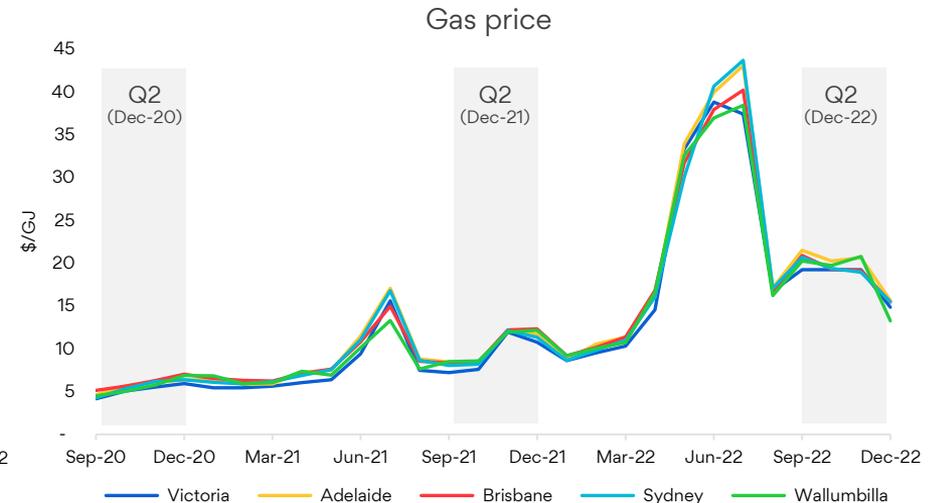
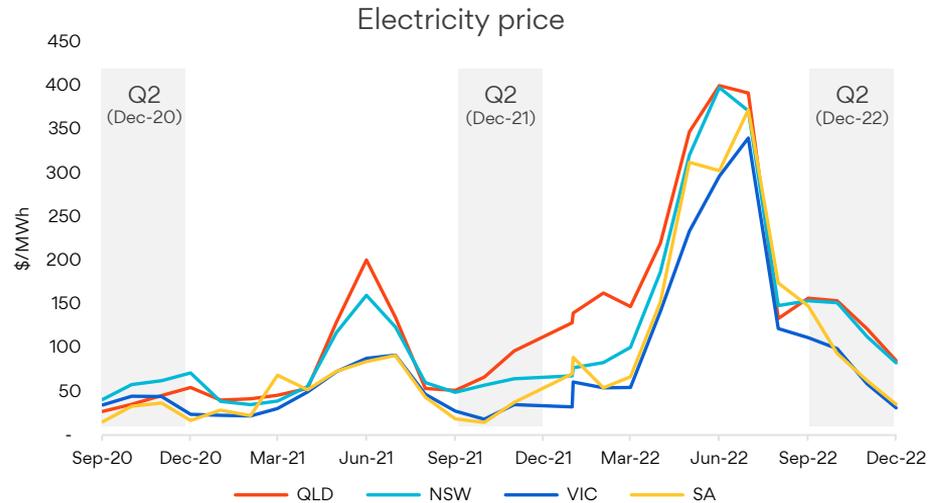
## Non-cash adjustment – Beetaloo divestment

- Origin expects to record a non-cash post tax loss of \$75 million in the half year 2023 financial statements.



Energy Markets

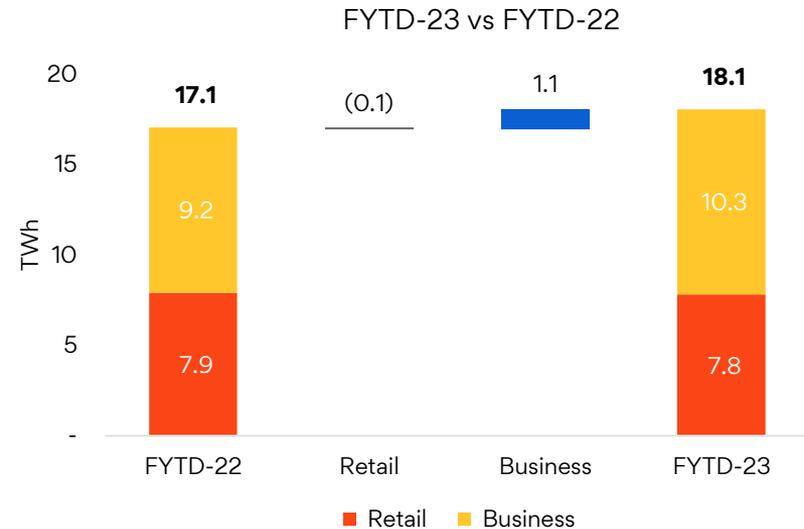
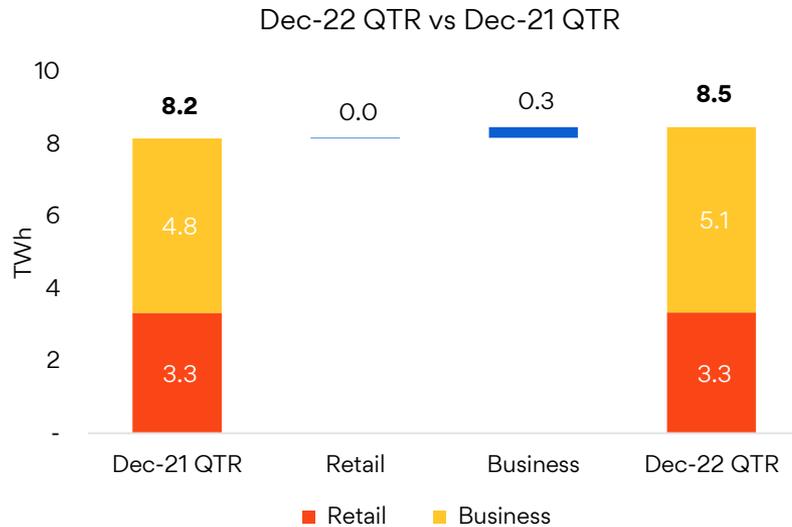
# Electricity and natural gas markets



Source: AEMO

Source: AEMO

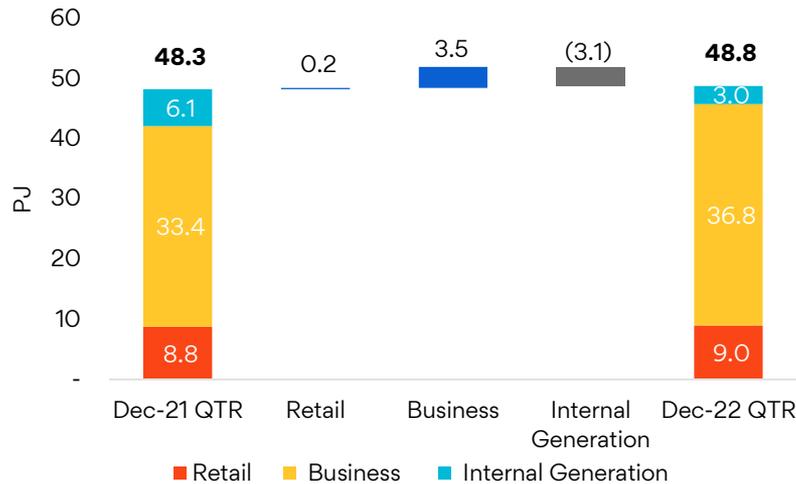
- Both electricity and gas spot prices trended lower compared to the Sep-22 quarter, albeit they remain higher than the Dec-21 quarter due to higher international coal and gas prices:
  - Average NEM spot electricity price for the Dec-22 quarter was \$91/MWh, a significant decrease from \$219/MWh in the Sep-22 quarter due to lower demand as a result of warmer seasonal weather and increased baseload and renewable generation, and up from \$57/MWh in the Dec-21 quarter
  - Average domestic spot gas price for the Dec-22 quarter was \$18/GJ, down from \$26/GJ in the Sep-22 quarter driven by reduced demand due to warmer seasonal weather, and up from \$11/GJ in the Dec-21 quarter
- A temporary price cap of \$12/GJ on domestic gas sales by gas producers and a temporary price cap of \$125/t on coal took effect from 23 December 2022



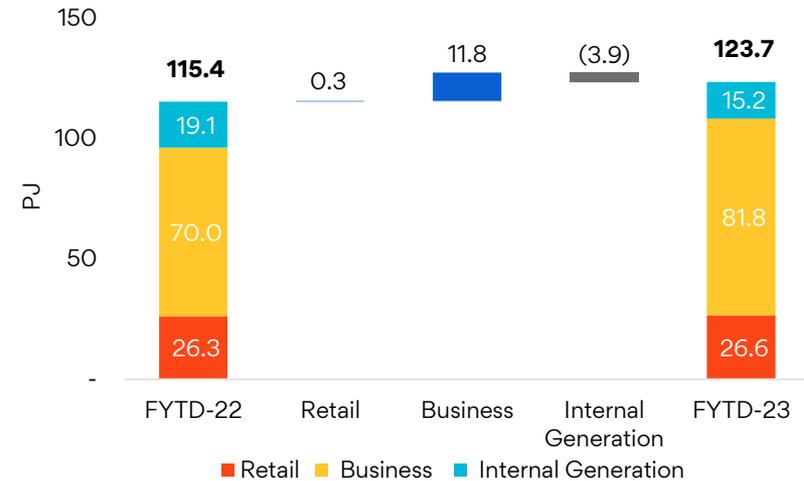
- Retail volumes flat on Dec-21 quarter driven by:
  - Cooler weather across all states (+0.1 TWh)
  - Continued increase in solar uptake and energy efficiency (-0.1 TWh)
- Business volumes up 6% or 0.3 TWh on Dec-21 quarter driven by net customer wins

- Retail volumes relatively flat on FYTD-22 with lower usage due to solar uptake and energy efficiency, partly offset by the impact of colder weather in the Dec-22 quarter
- Business volumes up 12% or 1.1 TWh on FYTD-22 driven by net customer wins, including sales to the Portland smelter

Dec-22 QTR vs Dec-21 QTR



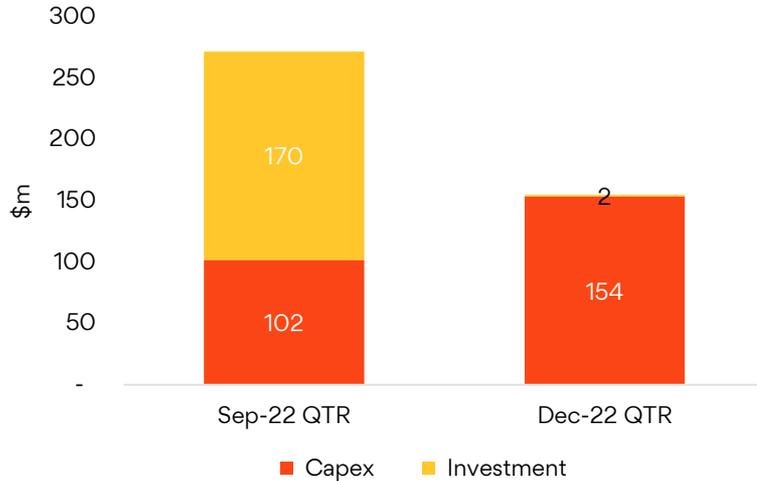
FYTD-23 vs FYTD-22



- Retail volumes marginally up on Dec-21 quarter driven by:
  - Cooler weather, particularly in VIC (+0.3 PJ)
  - Lower average household usage (-0.1 PJ)
- Business volumes up 10% or 3.5 PJ on Dec-21 quarter driven by net customer wins
- Gas to generation down 51% driven by higher gas prices and management of station starts at the Darling Downs Power Station to align with the upcoming planned maintenance

- Retail volumes relatively flat on FYTD-22
- Business volumes up 17% or 11.8 PJ on FYTD-22 driven by net customer wins
- Gas to generation down 21% driven primarily by higher gas generation output in the Sep-21 quarter to cover a planned Eraring outage and lower generation in the Dec-22 quarter

## Quarterly Energy Markets capex and investments

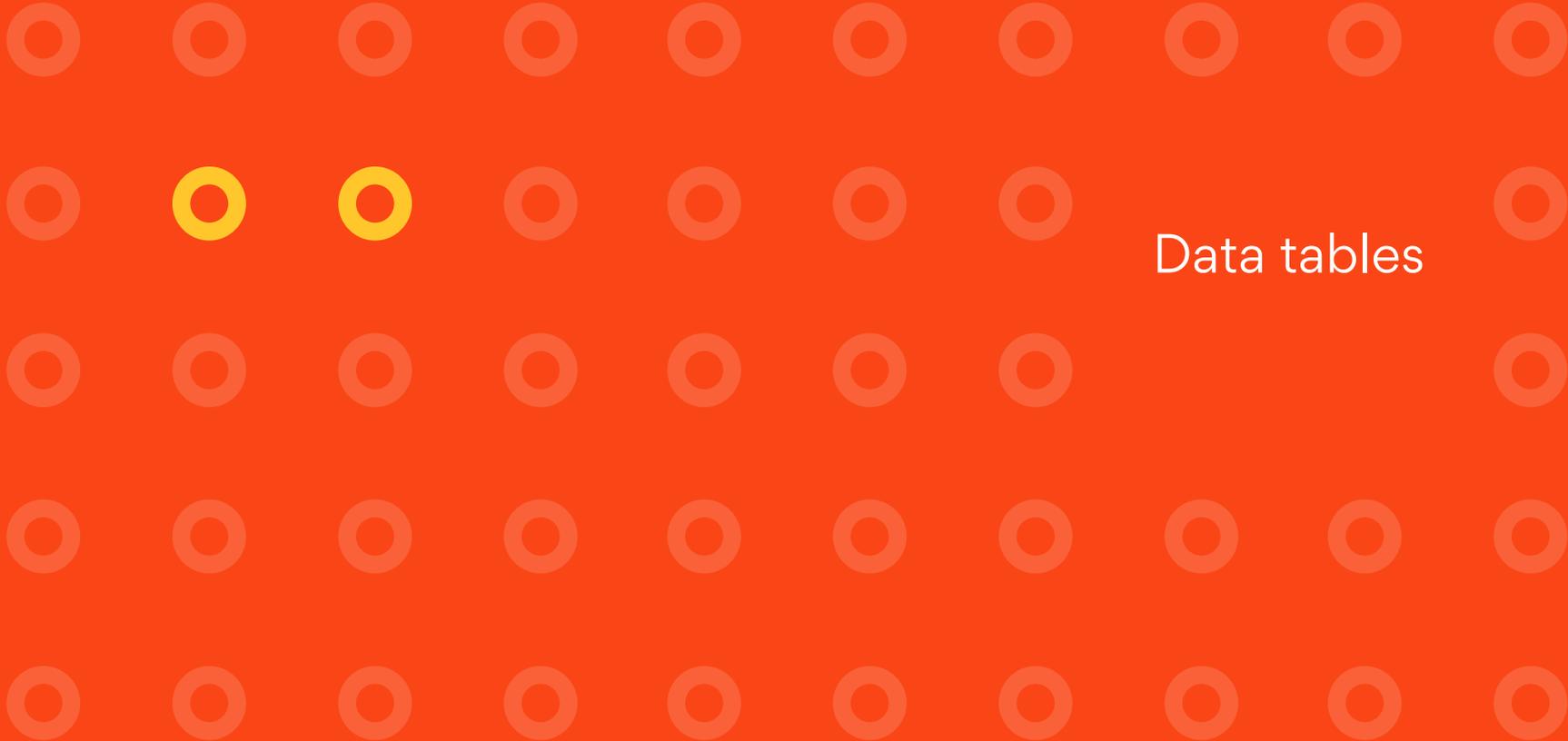


## FYTD Energy Markets capex and investments



- Dec-22 quarter capex includes maintenance spend primarily in generation and LPG, growth spend on Kraken implementation and Community Energy Services, as well as design spend for a potential Shoalhaven Expansion and the Eraring Battery development
- Dec-22 quarter investment primarily relates to Future Energy equity investments

- As expected, FYTD-23 capex is higher due to cost associated with the new Myuna Bay Recreation Centre facility, as well as higher spend on generation maintenance and on pre-FID solar and storage projects
- FYTD-23 investment includes \$163 million (£94 million) in Octopus Energy and \$6 million for Yanco Solar Farm acquisition



Data tables

# Integrated Gas – APLNG 100%



APLNG	Unit	Dec-22 QTR	Sep-22 QTR	% Change	Dec-21 QTR	% Change	FYTD-23	FYTD-22	% Change
Total production	PJ	165.6	167.5	(1%)	177.9	(7%)	333.0	351.4	(5%)
Total sales	PJ	161.4	160.8	0%	169.2	(5%)	322.2	337.3	(4%)
<b>LNG</b>									
Production	kt	2,388	1,963	22%	2,386	0%	4,352	4,417	(1%)
Sales	kt	2,342	1,954	20%	2,358	(1%)	4,297	4,369	(2%)
Commodity revenue	\$m	2,984	2,114	41%	2,004	49%	5,098	3,308	54%
Average realised price	US\$/mmbtu	15.94	14.04	14%	11.80	35%	15.08	10.55	43%
<b>Domestic gas</b>									
Sales	PJ	31.6	52.6	(40%)	38.6	(18%)	84.2	95.3	(12%)
Commodity revenue	\$m	200	654	(69%)	244	(18%)	853	630	36%
Average realised price	\$/GJ	6.31	12.44	(49%)	6.33	(0%)	10.14	6.61	53%
<b>APLNG capex<sup>1</sup></b>									
E&A	\$m	18	4	387%	13	33%	21	22	(6%)
Sustain and Other	\$m	96	98	(1%)	93	3%	194	175	11%

1) APLNG capex is reported on an accrual basis.



# APLNG sources of gas – APLNG 100%



Production volumes	Units	Dec-22 QTR	Sep-22 QTR	% Change	Dec-21 QTR	% Change	FYTD-23	FYTD-22
<b>Operated</b>								
Spring Gully	PJ	20.1	20.8	(3%)	22.5	(11%)	40.9	44.9
Reedy Creek, Combabula and Peat	PJ	43.6	43.7	(0%)	45.8	(5%)	87.4	89.2
Condabri, Talinga and Orana	PJ	67.1	66.3	1%	69.5	(3%)	133.4	136.9
<b>Total operated production</b>	<b>PJ</b>	<b>130.8</b>	<b>130.8</b>	<b>(0%)</b>	<b>137.8</b>	<b>(5%)</b>	<b>261.6</b>	<b>271.0</b>
<b>Non-operated</b>								
GLNG	PJ	10.3	10.1	2%	10.5	(2%)	20.5	21.2
QGC	PJ	24.4	26.5	(8%)	29.6	(17%)	51.0	59.2
<b>Total non-operated production</b>	<b>PJ</b>	<b>34.8</b>	<b>36.6</b>	<b>(5%)</b>	<b>40.1</b>	<b>(13%)</b>	<b>71.4</b>	<b>80.4</b>
<b>Total upstream production</b>	<b>PJ</b>	<b>165.6</b>	<b>167.5</b>	<b>(1%)</b>	<b>177.9</b>	<b>(7%)</b>	<b>333.0</b>	<b>351.4</b>
Natural gas purchases	PJ	8.6	5.6	55%	4.4	96%	14.2	8.2
Changes in Upstream gas inventory/other	PJ	0.3	(2.4)	(113%)	(0.8)	(136%)	(2.1)	0.2
<b>Total sources of natural gas</b>	<b>PJ</b>	<b>174.5</b>	<b>170.7</b>	<b>2%</b>	<b>181.5</b>	<b>(4%)</b>	<b>345.1</b>	<b>359.9</b>



## APLNG Operated Production Wells

	Avg daily production (APLNG share)		Development Wells	
			Wells drilled	Wells commissioned
Spring Gully	218 TJ/d	Dec-22 QTR	-	1
		FYTD-23	-	1
Reedy Creek, Combabula and Peat	474 TJ/d	Dec-22 QTR	-	-
		FYTD-23	14	-
Condabri, Talinga and Orana	729 TJ/d	Dec-22 QTR	5	23
		FYTD-23	9	32
<b>Total</b>	<b>1,422 TJ/d</b>	<b>Dec-22 QTR</b>	<b>5</b>	<b>24</b>
		<b>FYTD-23</b>	<b>23</b>	<b>33</b>

# APLNG uses of gas – APLNG 100%



Uses of gas	Units	Dec-22 QTR	Sep-22 QTR	% Change	Dec-21 QTR	% Change	FYTD-23	FYTD-22
LNG feed gas	PJ	142.8	118.1	21%	142.9	(0%)	260.9	264.6
Domestic sales	PJ	31.6	52.6	(40%)	38.6	(18%)	84.2	95.3
<b>Total uses of natural gas</b>	<b>PJ</b>	<b>174.5</b>	<b>170.7</b>	<b>2%</b>	<b>181.5</b>	<b>(4%)</b>	<b>345.1</b>	<b>359.9</b>

LNG	Units	Dec-22 QTR	Sep-22 QTR	% Change	Dec-21 QTR	% Change	FYTD-23	FYTD-22
LNG production	kt	2,388	1,963	22%	2,387	0%	4,352	4,417
Changes in LNG inventory	kt	(46)	(9)	403%	(29)	58%	(55)	(48)
<b>Total LNG sales volume</b>	<b>kt</b>	<b>2,342</b>	<b>1,954</b>	<b>20%</b>	<b>2,358</b>	<b>(1%)</b>	<b>4,297</b>	<b>4,369</b>
<b>LNG cargoes sold</b>	<b>#</b>	<b>34</b>	<b>28</b>	<b>21%</b>	<b>34</b>	<b>-</b>	<b>62</b>	<b>63</b>

APLNG commodity revenue	Units	Dec-22 QTR	Sep-22 QTR	% Change	Dec-21 QTR	% Change	FYTD-23	FYTD-22
LNG	\$m	2,984	2,114	41%	2,004	49%	5,098	3,308
Domestic gas	\$m	200	654	(69%)	244	(18%)	853	630
<b>Total commodity revenue</b>	<b>\$m</b>	<b>3,184</b>	<b>2,768</b>	<b>15%</b>	<b>2,248</b>	<b>42%</b>	<b>5,951</b>	<b>3,938</b>

Sales – APLNG average realised prices	Units	Dec-22 QTR	Sep-22 QTR	% Change	Dec-21 QTR	% Change	FYTD-23	FYTD-22
LNG	\$/GJ	22.99	19.52	18%	15.34	50%	21.42	13.67
Domestic Gas	\$/GJ	6.31	12.44	(49%)	6.33	(0%)	10.14	6.61
<b>Average commodity price</b>	<b>\$/GJ</b>	<b>19.72</b>	<b>17.21</b>	<b>15%</b>	<b>13.29</b>	<b>48%</b>	<b>18.47</b>	<b>11.67</b>



# Integrated Gas – Origin share



APLNG (ORG share)	Unit	Dec-22 QTR	Sep-22 QTR	% Change	Dec-21 QTR <sup>1</sup>	% Change	FYTD-23	FYTD-22 <sup>1</sup>
Total production (ORG share)	PJ	45.5	46.1	(1%)	60.8	(25%)	91.6	125.9
Total sales (ORG share)	PJ	44.4	44.2	0%	58.0	(23%)	88.6	121.1
LNG (ORG share)								
Production	kt	657	540	22%	812	(19%)	1,197	1,574
Sales	kt	644	537	20%	807	(20%)	1,182	1,561
Commodity revenue	\$m	821	581	41%	694	18%	1,402	1,183
Average realised price	US\$/mmbtu	15.94	14.04	14%	11.95	33%	15.08	10.56
Domestic gas (ORG share)								
Sales	PJ	8.7	14.5	(40%)	13.3	(35%)	23.2	34.6
Commodity revenue	\$m	55	180	(69%)	84	(34%)	235	228
Average realised price	\$/GJ	6.31	12.44	(49%)	6.29	0%	10.14	6.60

Integrated Gas Other	Unit	Dec-22 QTR	Sep-22 QTR	% Change	Dec-21 QTR <sup>1</sup>	% Change	FYTD-23	FYTD-22 <sup>1</sup>
Origin only capex and lease costs	\$m	6	6	3%	32	(81%)	12	54
Origin oil hedging and LNG trading								
Hedge premium expense	\$m	(3)	(2)	17%	(3)	(9%)	(5)	(3)
Gain / (Loss) on oil hedging	\$m	(80)	(95)	(15%)	(29)	179%	(175)	(55)
Gain / (Loss) on LNG trading	\$m	(1)	2	(185%)	(17)	(92%)	0	(37)
<b>Total oil hedging and LNG trading gain/(loss)</b>	<b>\$m</b>	<b>(85)</b>	<b>(96)</b>	<b>(12%)</b>	<b>(49)</b>	<b>74%</b>	<b>(180)</b>	<b>(96)</b>

1) Following the sale of 10% interest in APLNG effective 8 December 2021, Origin accounted for ownership in APLNG at 27.5% (previously 37.5%)

	Unit	Dec-22 QTR	Sep-22 QTR	% Change	Dec-21 QTR	% Change	FYTD-23	FYTD-22	% Change
<b>Sales volumes</b>									
Electricity – Retail	TWh	3.3	4.5	(26%)	3.3	0%	7.8	7.9	(1%)
Electricity – Business	TWh	5.1	5.1	0%	4.8	6%	10.3	9.2	12%
Natural gas – Retail	PJ	9.0	17.6	(49%)	8.8	3%	26.6	26.3	1%
Natural gas – Business	PJ	36.8	45.0	(18%)	33.4	10%	81.8	70.0	17%
Natural gas – Internal generation	PJ	3.0	12.2	(75%)	6.1	(51%)	15.2	19.1	(20%)
Capex	\$m	154	102	51%	86	79%	256	163	57%
Investments	\$m	2	170	(99%)	77	(98%)	172	267	(35%)

Electricity sales volume (TWh)	Dec-22 QTR		Sep-22 QTR		FYTD-23		FYTD-22	
	Retail	Business	Retail	Business	Retail	Business	Retail	Business
New South Wales	1.5	2.0	2.2	2.0	3.7	4.0	3.8	4.0
Queensland	0.9	1.2	1.0	1.1	1.9	2.3	2.0	1.9
Victoria	0.7	1.3	0.9	1.3	1.6	2.6	1.4	2.4
South Australia	0.3	0.7	0.4	0.7	0.7	1.4	0.6	0.9
<b>Total volumes sold</b>	<b>3.3</b>	<b>5.1</b>	<b>4.5</b>	<b>5.1</b>	<b>7.8</b>	<b>10.3</b>	<b>7.9</b>	<b>9.2</b>

Natural gas sales volume (PJ)	Dec-22 QTR		Sep-22 QTR		FYTD-23		FYTD-22	
	Retail	Business	Retail	Business	Retail	Business	Retail	Business
New South Wales	2.4	5.7	4.5	6.5	6.9	12.2	7.0	9.6
Queensland	0.7	19.1	1.1	20.4	1.7	39.4	1.5	33.2
Victoria	4.8	8.9	10.0	14.2	14.8	23.2	14.4	21.6
South Australia	1.1	3.1	2.1	3.9	3.2	7.1	3.3	5.6
<b>External volumes sold</b>	<b>9.0</b>	<b>36.8</b>	<b>17.6</b>	<b>45.0</b>	<b>26.6</b>	<b>81.8</b>	<b>26.3</b>	<b>70.0</b>
Internal sales (generation)	3.0		12.2		15.2		19.1	
<b>Total volumes sold</b>	<b>48.8</b>		<b>74.8</b>		<b>123.7</b>		<b>115.4</b>	

## Conversion factors

LNG	0.0554	PJ/ktonnes
LNG	1.0551	GJ/mmbtu

## Abbreviations

\$	Australian dollars, unless stated otherwise
APLNG	Australia Pacific LNG Pty Limited – an incorporated joint venture between Origin, ConocoPhillips and Sinopec
Barrels (bbl)	an international measure of oil production. 1 barrel = 159 litres
E&A	Exploration & Appraisal
GJ	gigajoule = $10^9$ joules
JCC	Japan Customs-cleared Crude
joule	primary measure of energy in the metric system
kT	Kilo tonnes = 1,000 tonnes
LNG	liquefied natural gas
mmbbl	million barrels
mmboe	million barrels of oil equivalent
mmbtu	million British thermal units
MMscf/d	million standard cubic feet per day
MWh	Megawatt hour = $10^3$ kilowatt hours
PJ	petajoule = $10^{15}$ joules
t	tonnes
TJ	terajoule = $10^{12}$ joules
TJ/d	terajoules per day
TWh	Terawatt hour = $10^9$ kilowatt hours