

# Winter 2020 Market Review

September 2020

# Key Messages for Winter<sup>1</sup> 2020

- Winter 2020 was colder than 2019 across all regions except NSW
  - Third coldest winter in Melbourne since 2000
  - Non GPG demand was up 0.5 PJ with Vic up 1.2 PJ
  - This was offset by lower GPG -1.3 PJ
- Demand was down overall however primarily due to QLNG LNG
  - QLD LNG -15.4 PJ
  - LNG production was only down 2.1 PJ and excess gas from QLD was offset by supply reductions at Minerva -4.4 PJ (decommissioned September 2019), Longford -3.7 PJ and Otway -1.8 PJ
- Gas prices were the lowest since 2015 & almost halved compared to winter 2019
  - Average \$4.35/GJ compared to \$8.46/GJ
  - Low international gas & oil prices and lower demand have continued on since March
- Day Ahead Auction usage increased, particularly in July and August
- Despite this, GSH volumes were down -4.2 PJ

# Gas Market Prices

	Average Price (\$/GJ)		Movement
	Winter 2020	Winter 2019	
DWGM	4.73	8.85	47% ▼
ADL STTM	5.62	9.54	41% ▼
SYD STTM	4.33	8.75	51% ▼
BRI STTM	3.59	7.78	54% ▼
GSH	3.49	7.41	53% ▼

- All markets saw significant price decreases; lowest prices seen since 2015
- Price decreases continue to be influenced by lower international gas prices
- Adelaide remains the highest priced region, with a notable increase from July compared to other markets

# System Demand

Demand Region	System Demand (PJ)				Max Demand (TJ)	HDD and EDD*			
	2020	2019	Move			2020	2020	2019	Move
Brisbane	7.0	8.0	12%	▼	88	206	190	8%	▲
Sydney	25.0	24.7	1%	▲	308	491	497	1%	▼
Victoria	81.1	79.9	2%	▲	1,212	884	845	2%	▲
Adelaide	6.9	6.9	0%	▲	94	625	576	9%	▲
QLD LNG	302.3	317.7	5%	▼	3,586	-	-		

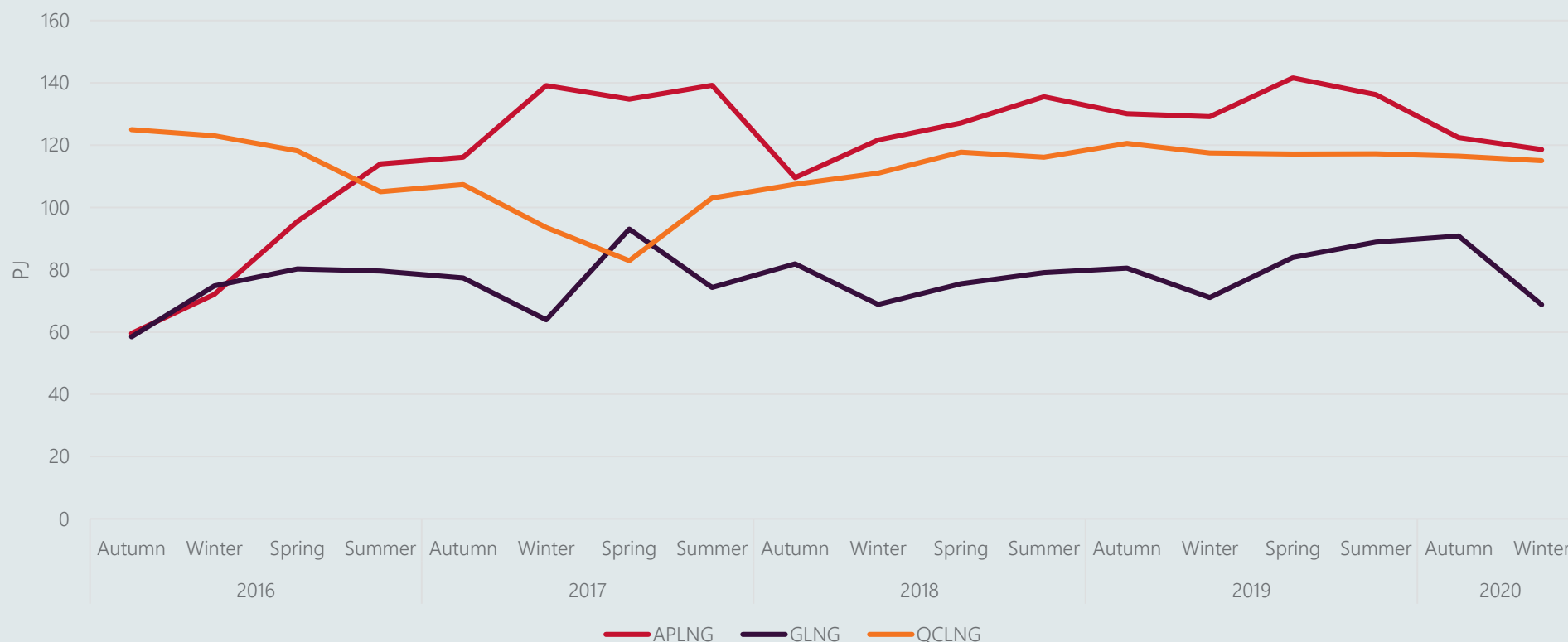
- Small demand increase in Victoria and Sydney
- Adelaide demand was stagnant despite colder weather due to lower industrial demand
- Brisbane decrease due to lower industrial demand
- Lower QLD LNG demand across all 3 participants, particularly GLNG

# GPG

Demand Region	Total State GPG (PJ)			DWGM/STTM GPG (PJ)		
	2020	2019	Move	2020	2019	Move
QLD	16.4	10.9	51% ▲	3.4	0.5	580%▲
NSW	2.5	5.0	51% ▼	0.1	0	-
VIC	6.1	9.9	38% ▼	2.5	5.8	57% ▼
SA	18.3	18.8	3% ▼	-	-	-
TAS	598	545	10% ▲	-	-	-
ΣGPG	43.8	45.1	3% ▼	3.4	5.7	40% ▼

- GPG slightly demand down overall, only significant increase in QLD
- QLD increase mostly due to Darling Downs (+2.3 PJ) and Swanbank E (+2.9 PJ)

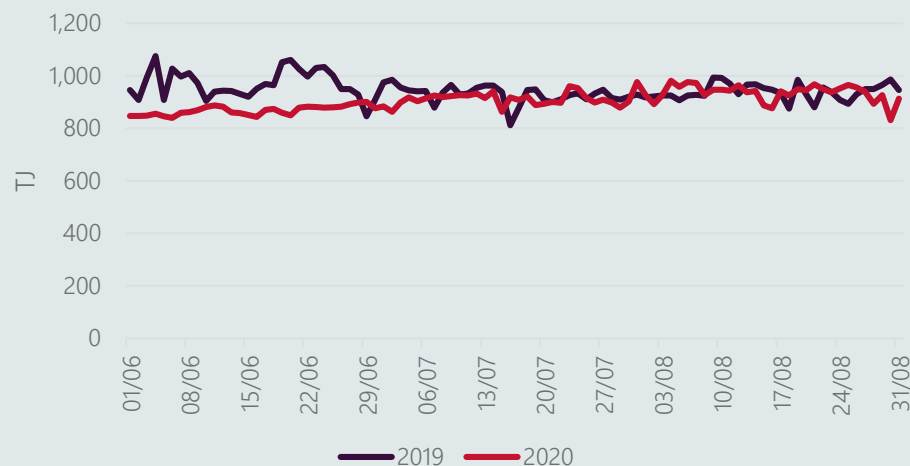
# QLD LNG Demand



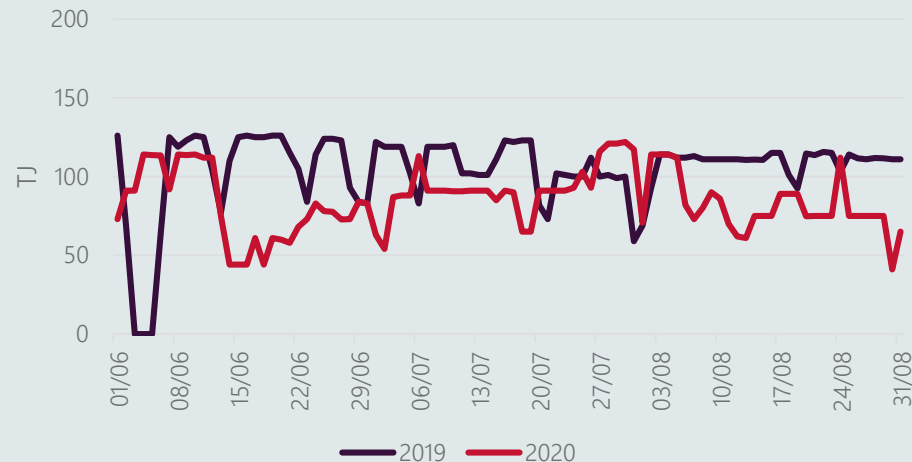
- Lowest QLD LNG demand since winter 2018
- GLNG demand decreased the most, however Roma Underground Gas Storage (RUGS) levels increased by 6 PJ

# Supply

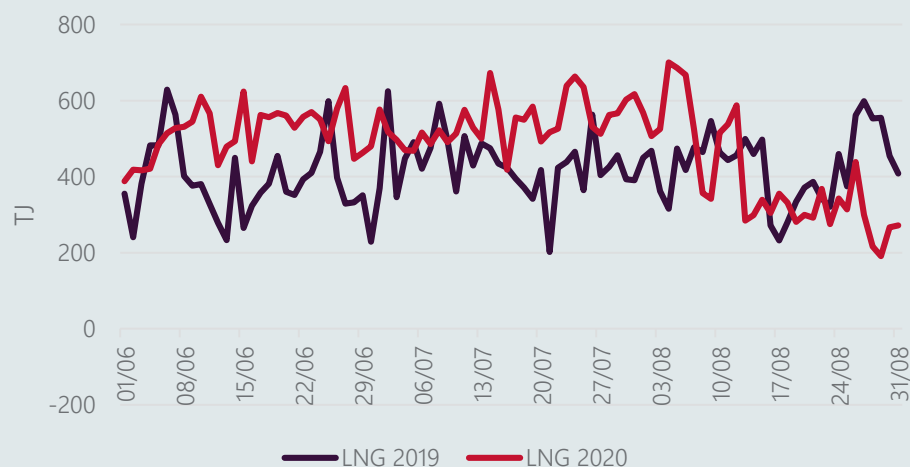
Longford Production



Otway Production

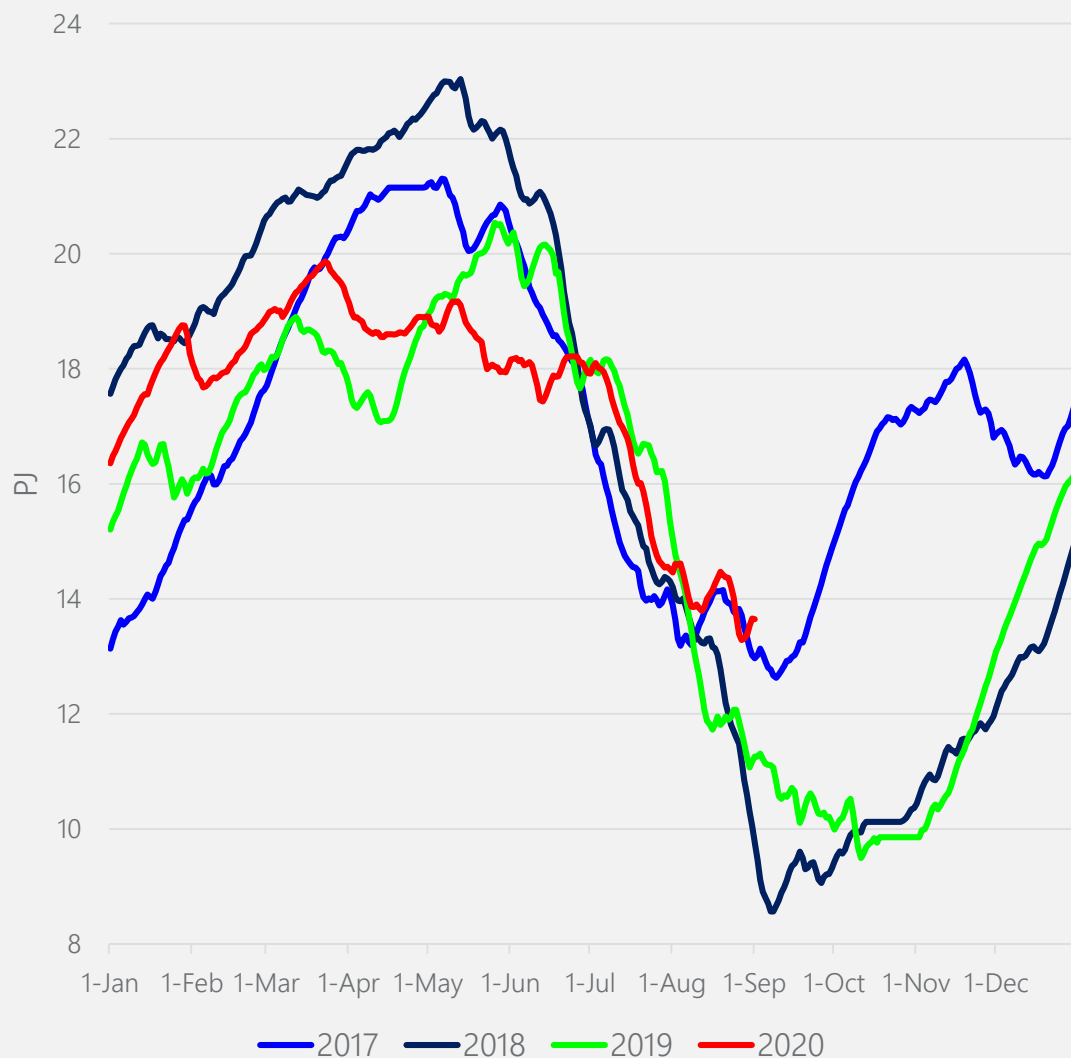


LNG Production Excess



- Longford production lower (-3.7 PJ)
- Otway production lower (-1.8 PJ)
- Bass Gas production higher (+1.2 PJ)
- Orbest supplied 2.7 PJ
- Moomba production higher (+1.0 PJ)
- LNG production excess to the domestic market higher (+6.3 PJ)
- Northern Territory supply to QLD lower (-0.7 PJ)

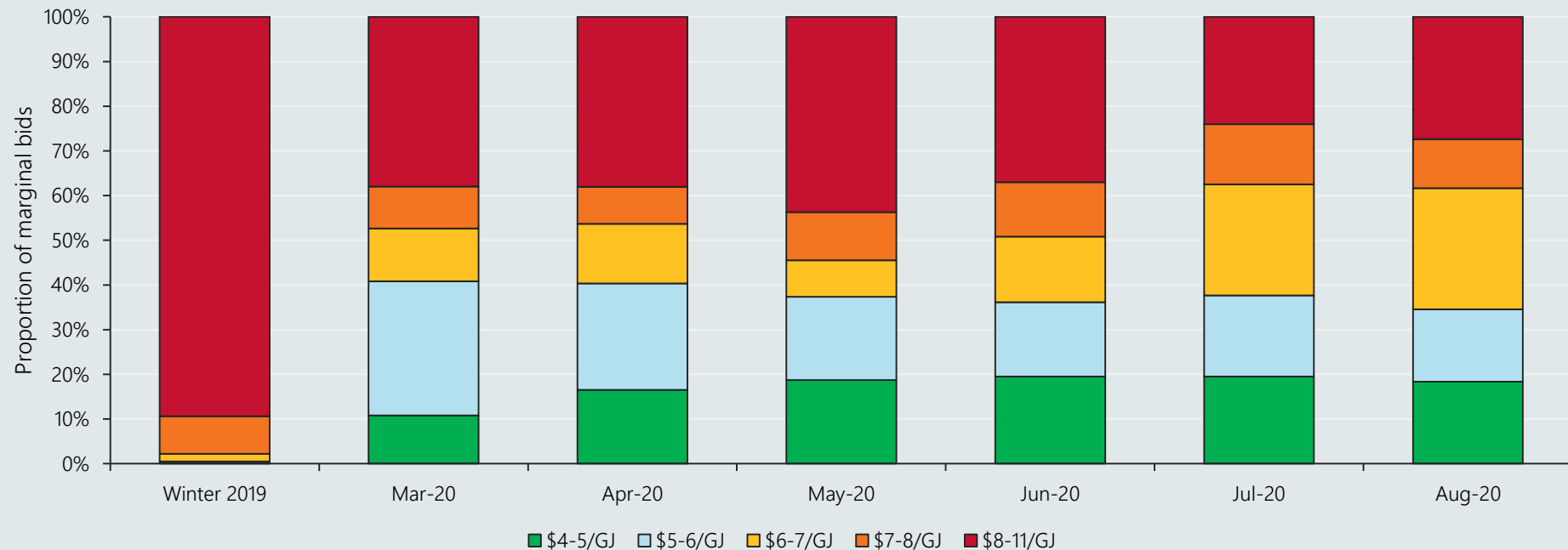
# Iona Gas Storage



- Despite beginning winter 2 PJ lower than 2019, Iona was 2.4 PJ higher than at the end of winter 2019
- Contributing factors to this were lower GPG demand in Victoria, SA and NSW, as well as an increase in supply from Queensland to the southern regions



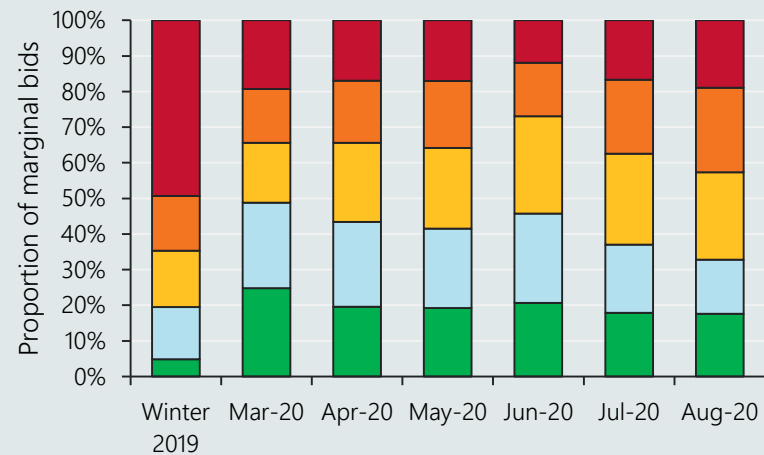
# DWGM Marginal Injection Bids



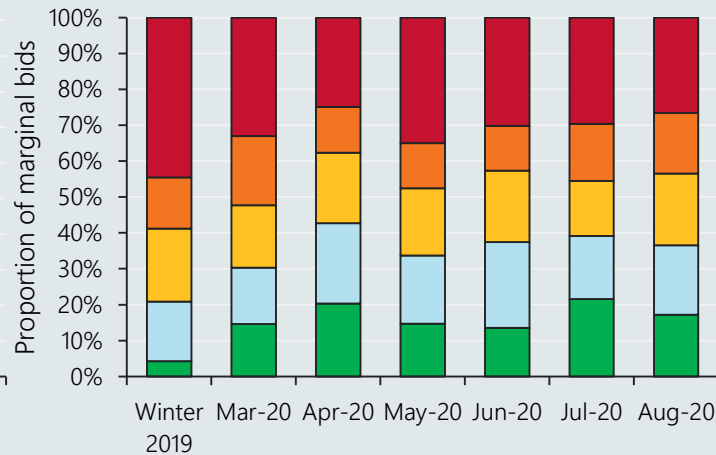
- Lower 2020 prices influenced by large increase in marginal bids priced between \$4-6/GJ across all months
- Winter saw little change from bidding behaviour in autumn 2020

# STTM Marginal Injection Bids

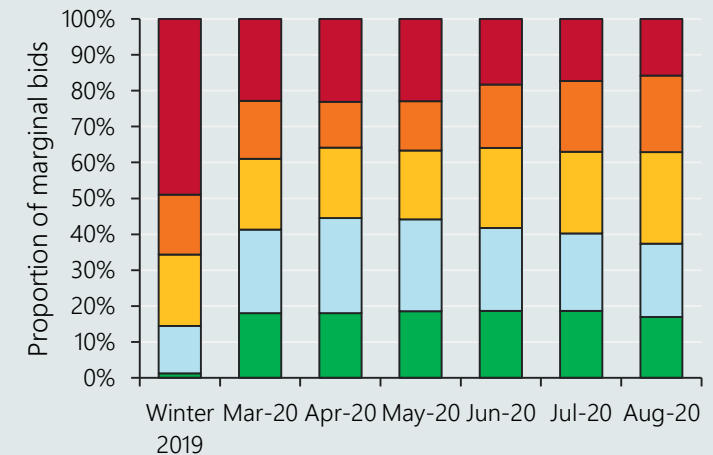
Brisbane



Adelaide

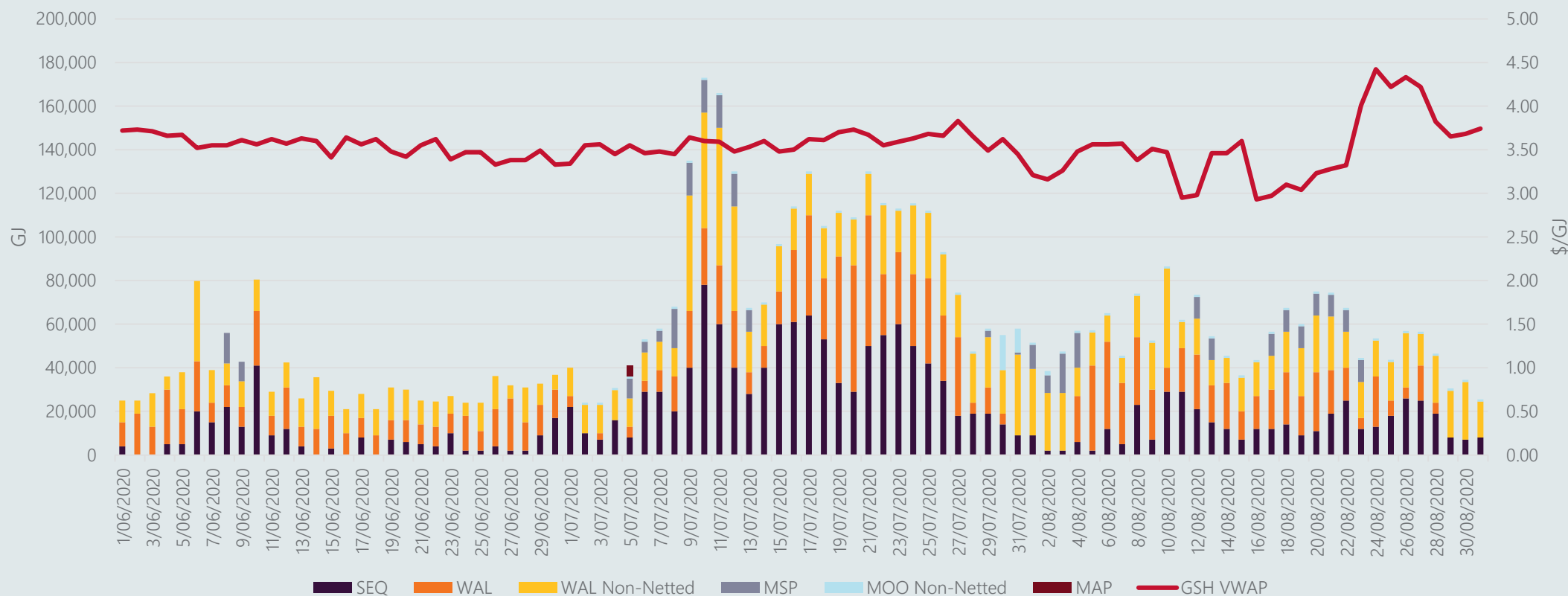


Sydney



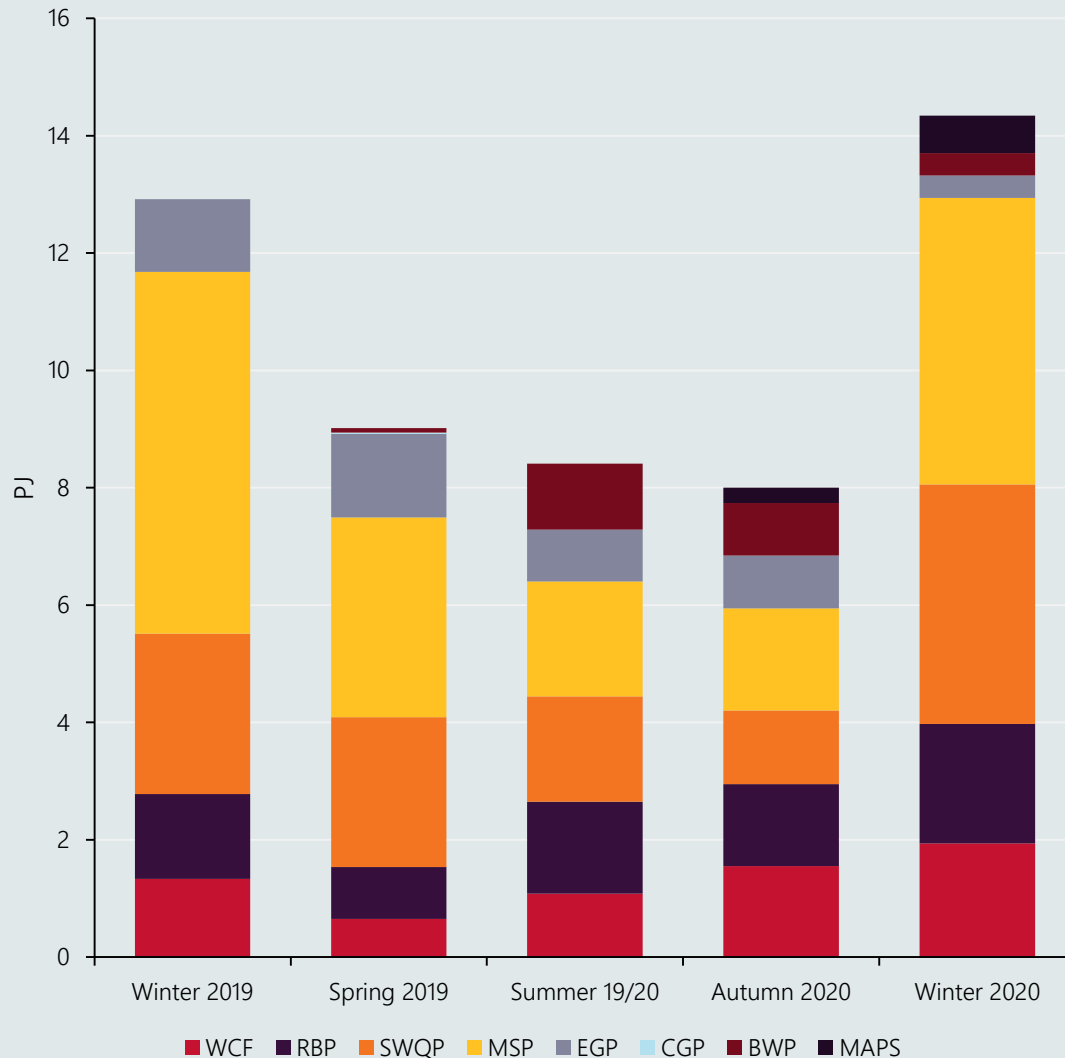
- All hubs have seen substantial shift in volumes priced below \$5/GJ

# Gas Supply Hub



- 5.4 PJ was traded and delivered across winter, compared to 9.6 PJ in 2019
- After a quiet June, volumes rebounded in July before easing off again in August

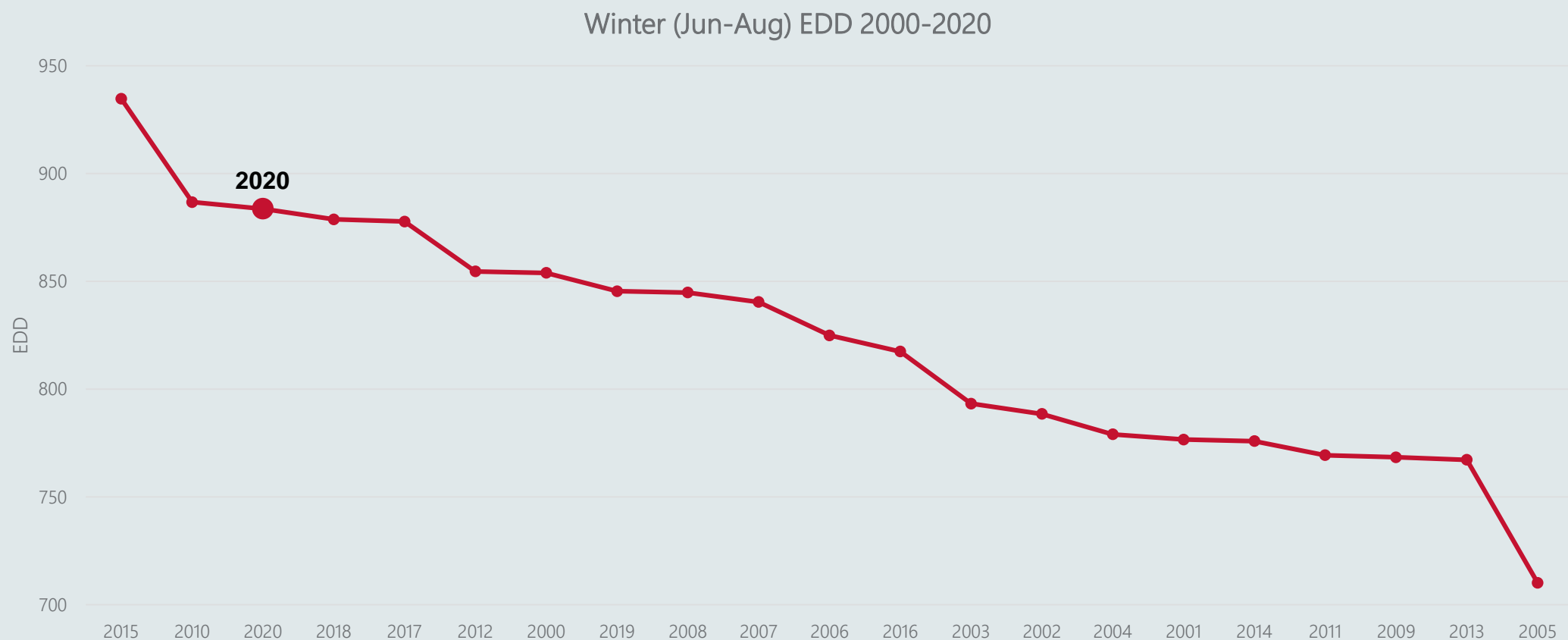
# Day Ahead Auction Results



## Summary

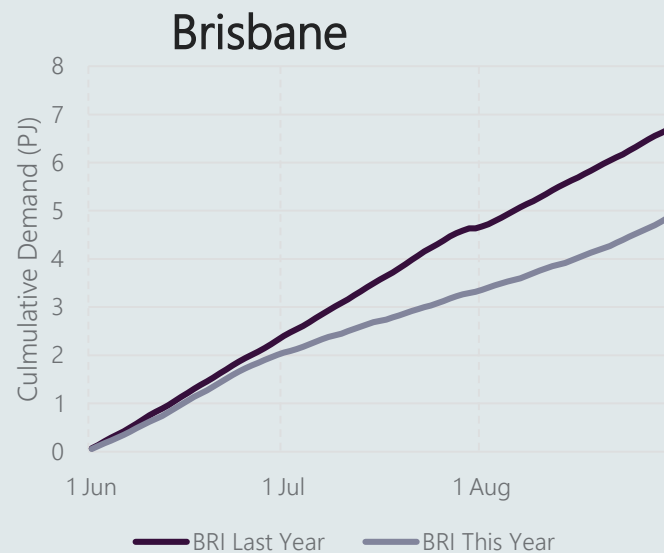
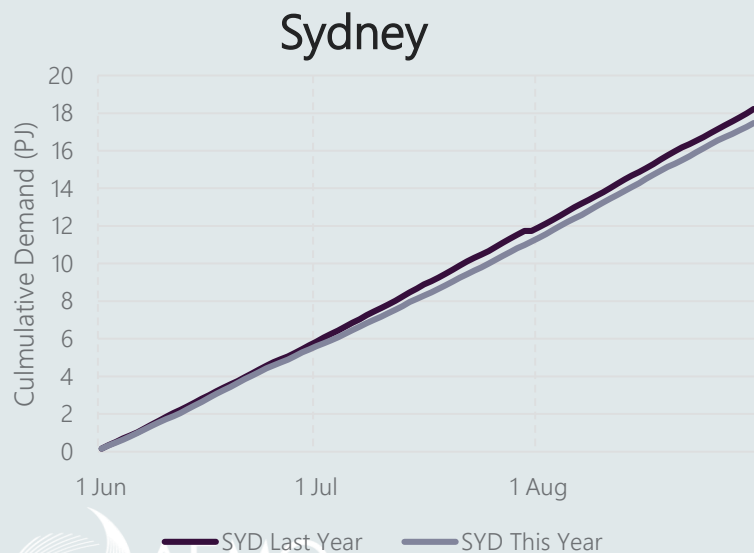
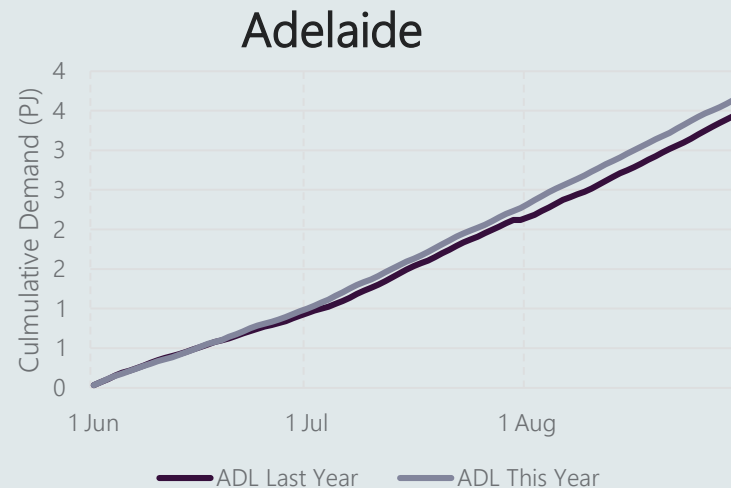
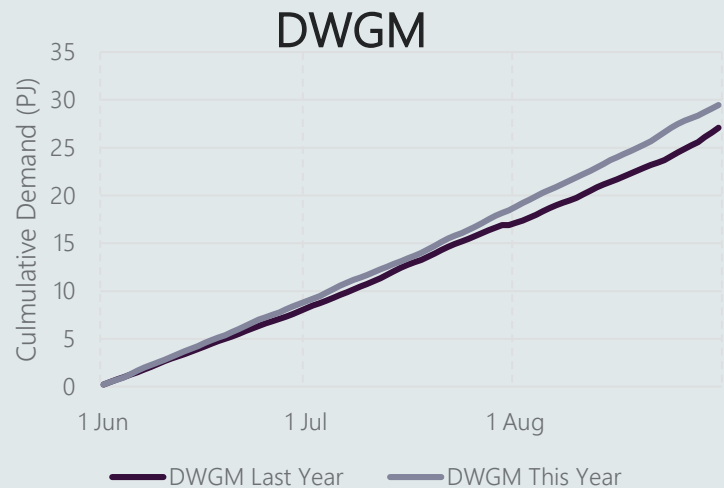
- A Strong auction volumes, particularly in July and August
- B MSP still the most utilised pipeline, followed by SWQP; MAPS volumes have increased
- C Average auction clearing prices have increased on MSP, averaging \$0.42/GJ to Sydney and \$0.36/GJ to Culcairn. RBP has increased to \$0.12/GJ, with other pipelines at or close to zero

# DWGM EDD



- 2020 was the third coldest winter in Victoria since 2000
- Highest EDD of 15.3 occurred on 4 August (record since 2000 is 16.8)

# Winter Demand Comparisons



- DWGM increase coincided with colder weather, particularly in August
- Adelaide also had a colder August
- Brisbane continues to trail well behind 2019 due to lower industrial demand

# Web Links

## Pipeline Flows, Production Flows, Capacity and GPG Data

<https://www.aemo.com.au/energy-systems/gas/gas-bulletin-board-gbb/data-portal>

## DWGM

Gas Held in Storage

<https://www.aemo.com.au/energy-systems/gas/gas-bulletin-board-gbb/data-portal>

Market Price (INT310), Bid Stack (INT314)

<https://aemo.com.au/energy-systems/gas/declared-wholesale-gas-market-dwgm/data-dwgm/daily-dwgm-reports>

## STTM

Ex-Ante Market Price (INT651) & Schedule Quantity (INT652)

<https://aemo.com.au/energy-systems/gas/short-term-trading-market-sttm/data-sttm/daily-sttm-reports>

## Gas Supply Hub

Traded Volume and Volume Weighted Average Price

[http://nemweb.com.au/Reports/Current/GSH/GSH\\_Historical\\_Trans\\_Summary/](http://nemweb.com.au/Reports/Current/GSH/GSH_Historical_Trans_Summary/)