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# PESA Production and Development Year in Review

APPEA Conference May 2024



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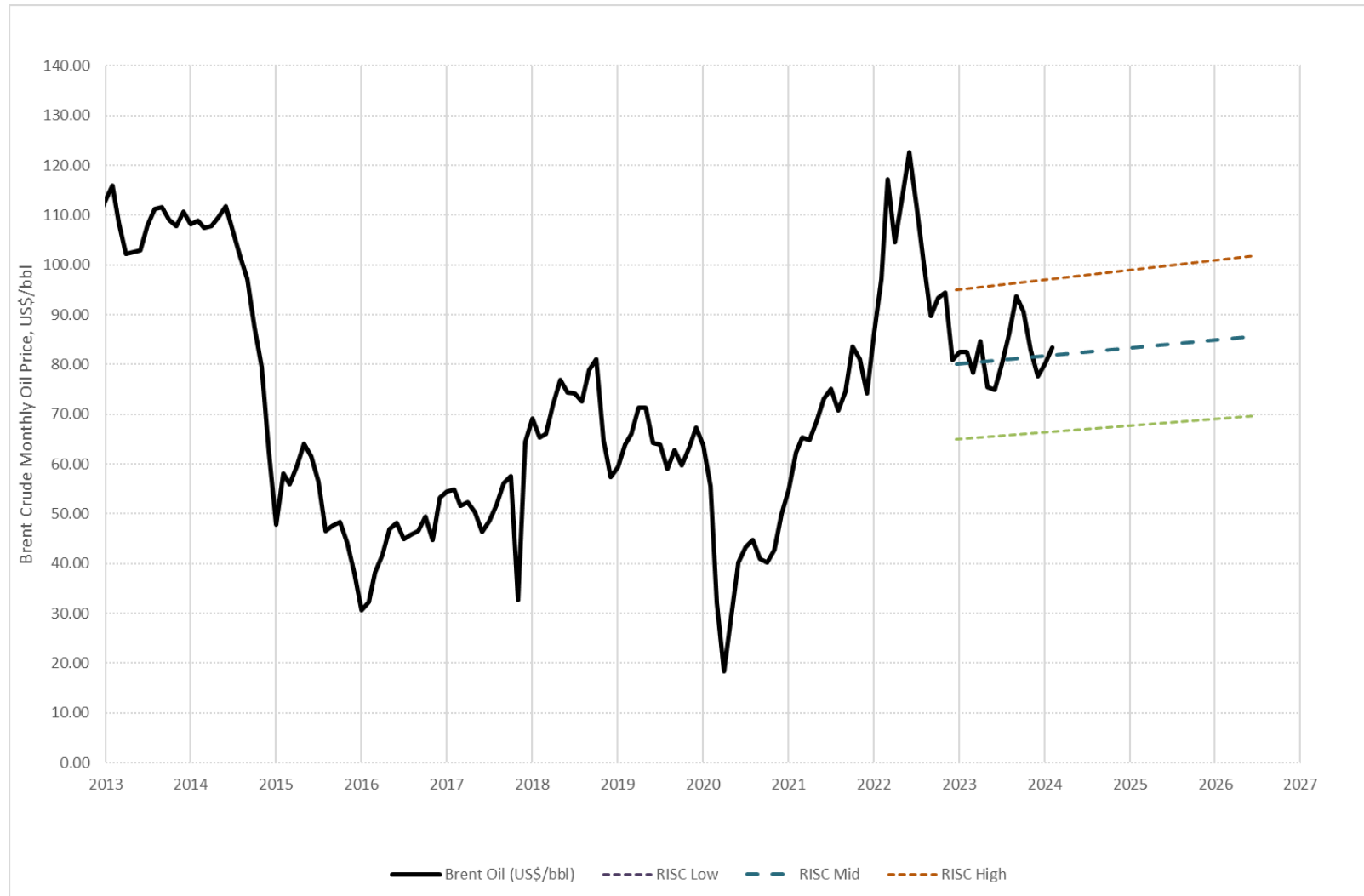
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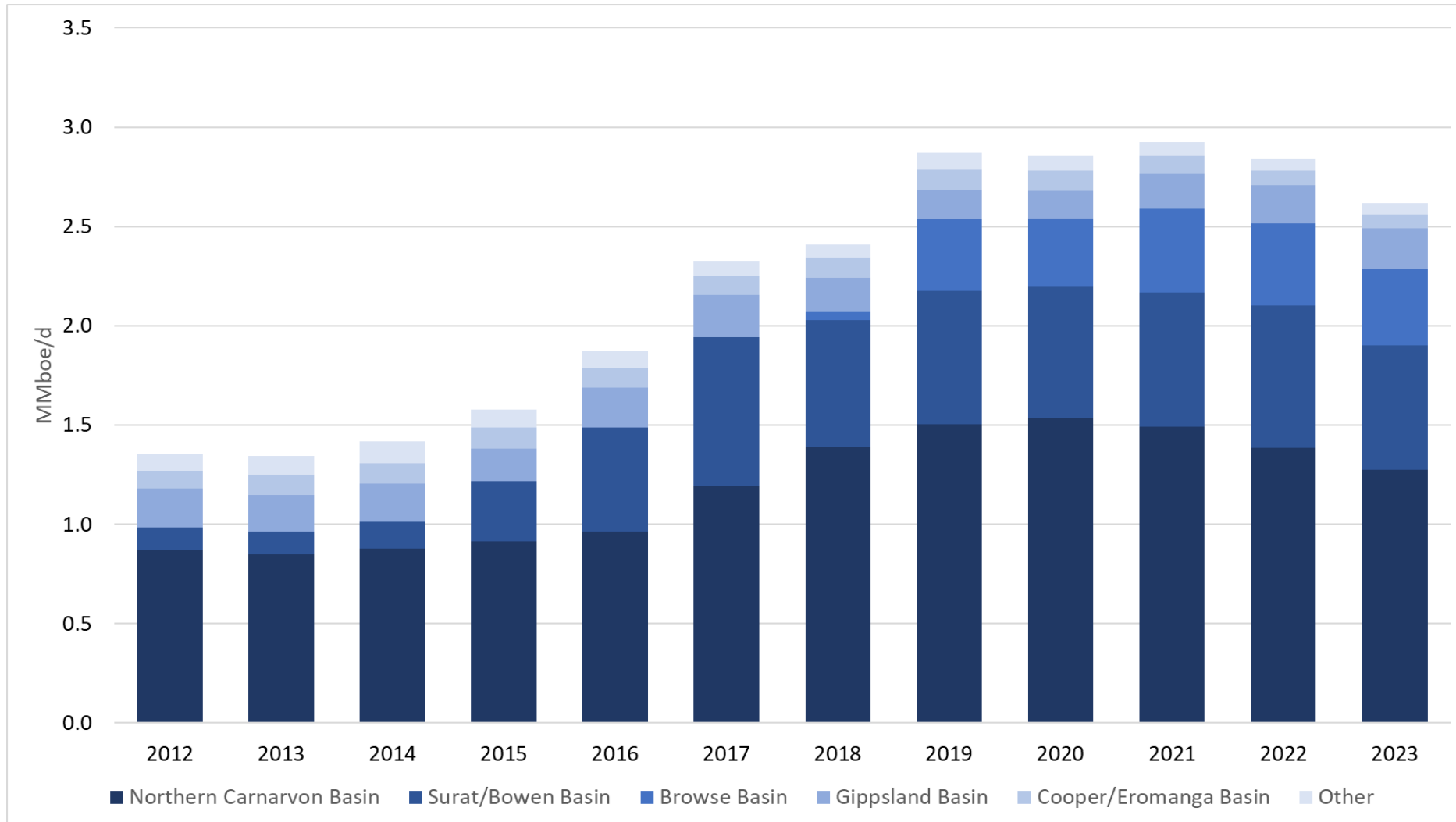
We acknowledge the support and assistance of GlobalData and their data gathering and compilation, without which this review would not have been possible.

- Production data obtained from GlobalData under licence.
- Production data obtained from AEMO Gas Bulletin Board.
- Emissions data sourced from the Clean Energy Regulator.

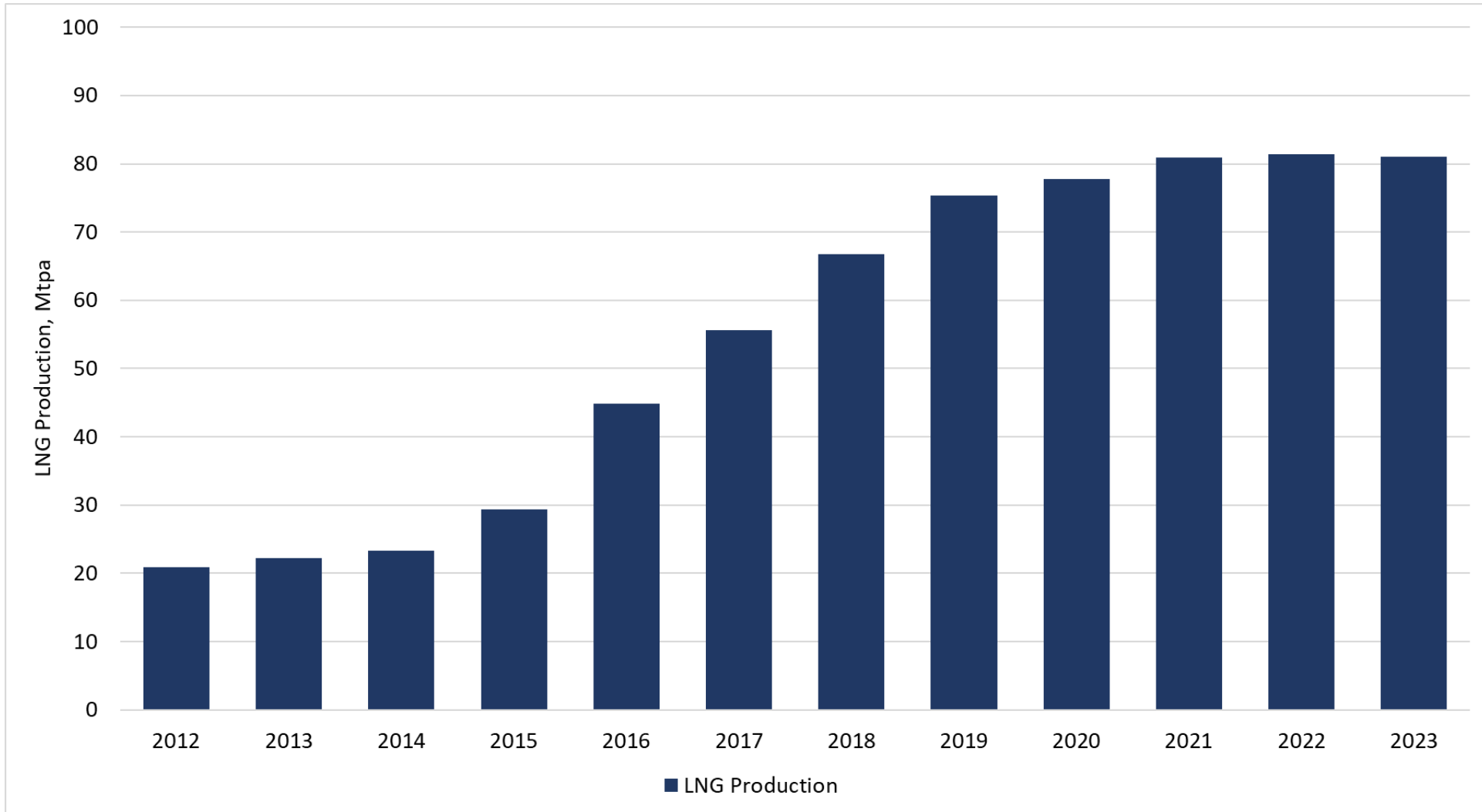
# Oil price remained remarkably steady in 2023

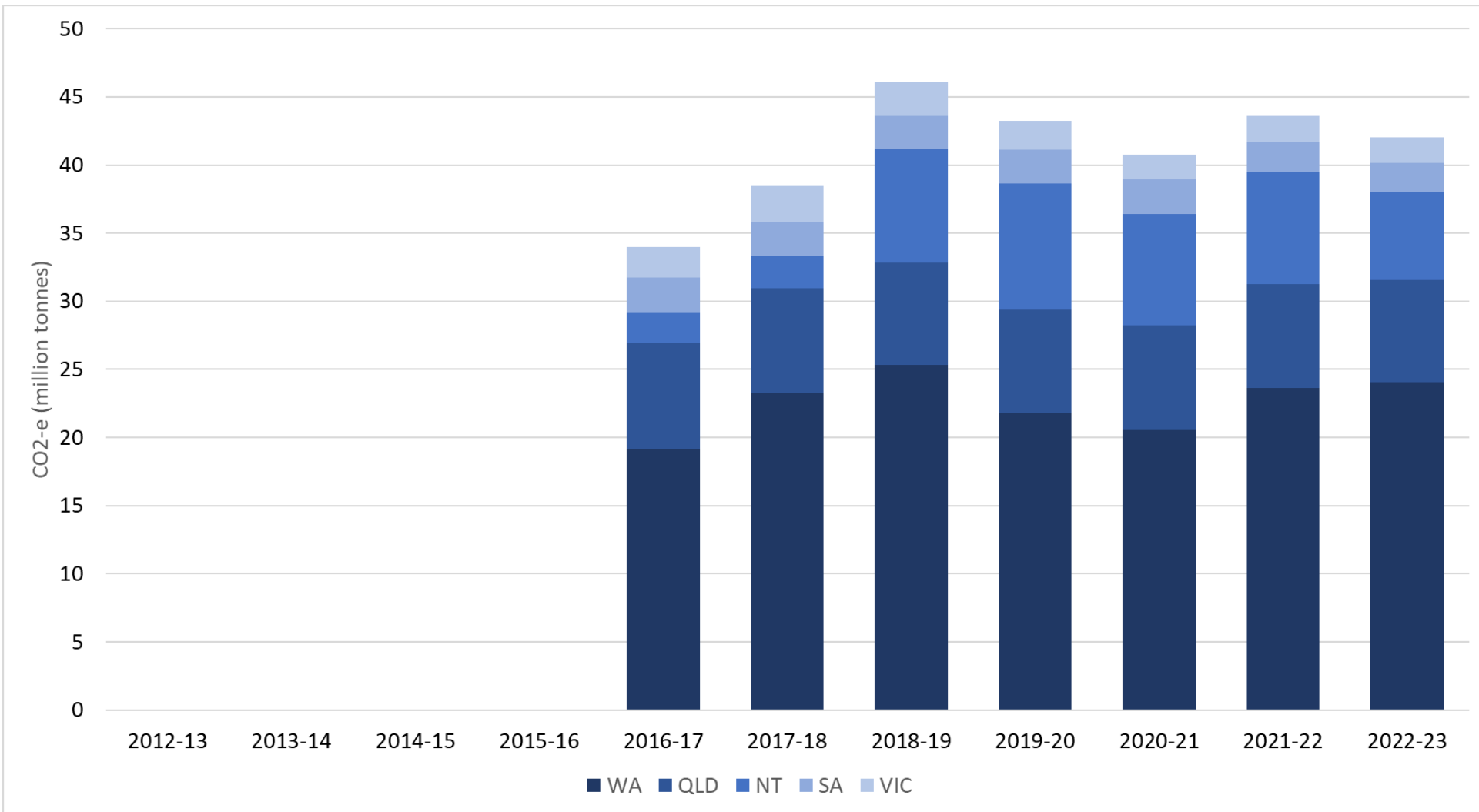


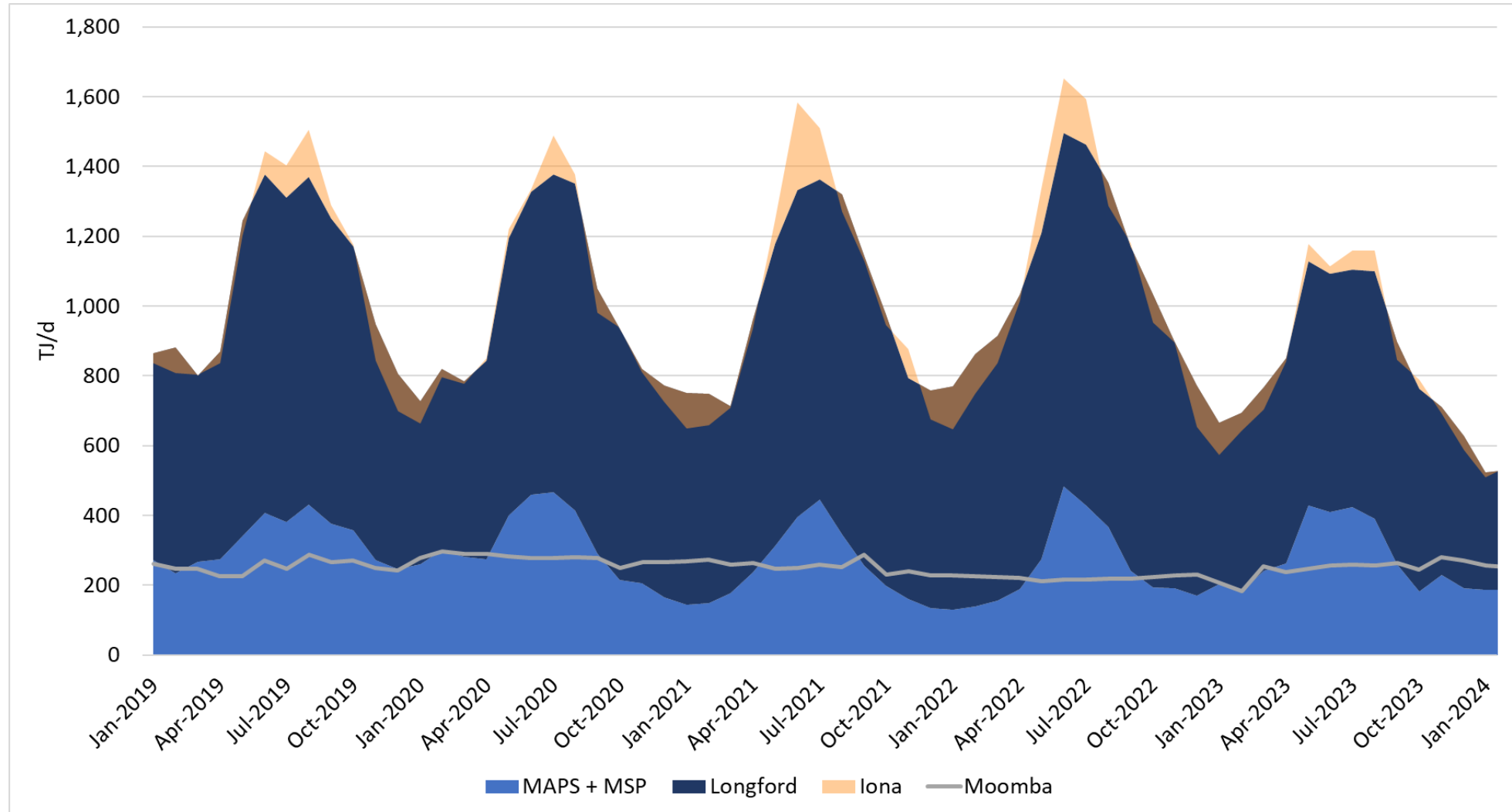
# LNG still dominates overall production which is in decline



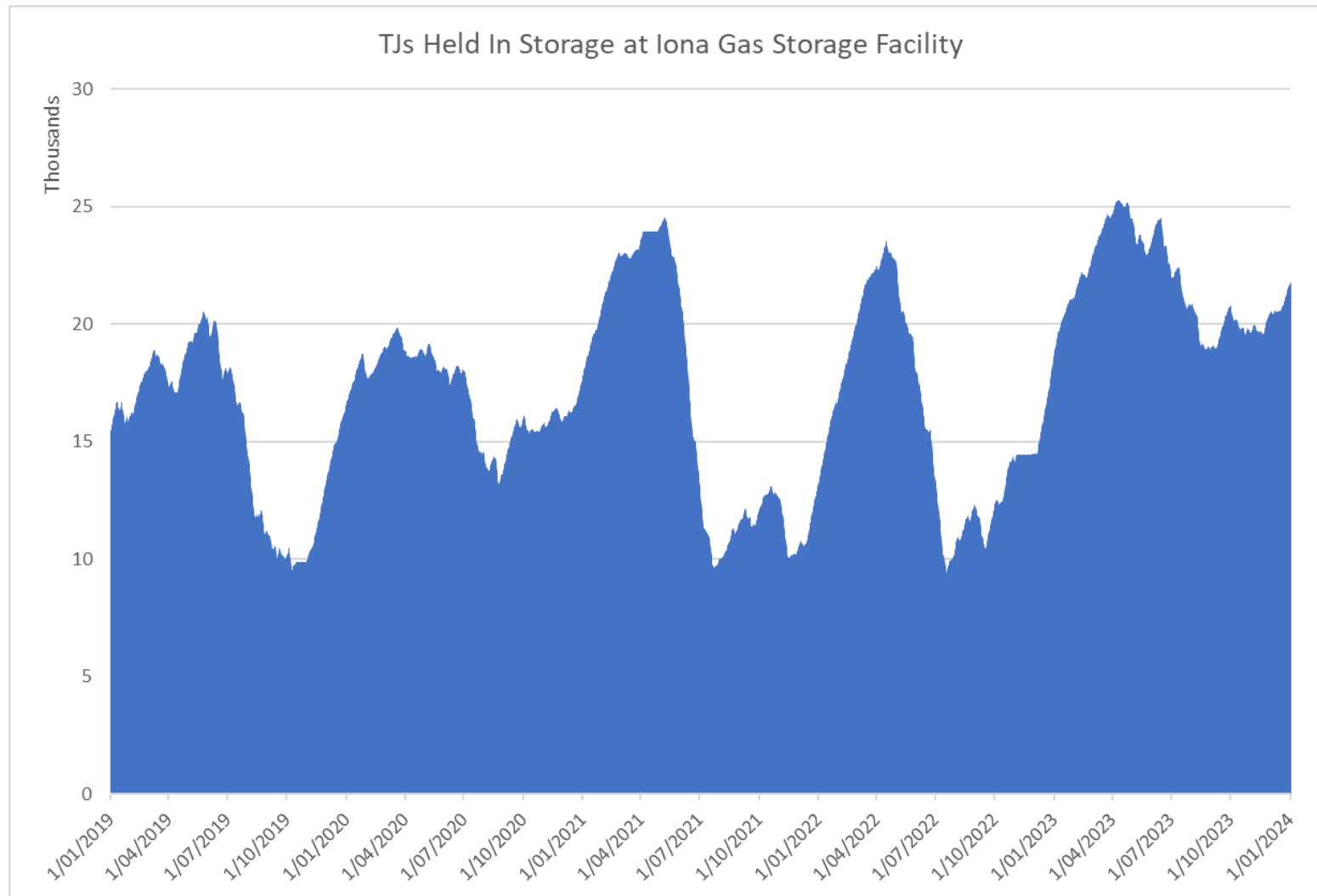
# LNG Production narrowly missed the 2022 record








# Iona reached record end of year storage level in 2023





# Is our message finally being heard?

- This slide was repeated 5 times in the AEMO “Draft 2024 Integrated System plan” presentation in December 2023.

 *Renewable energy connected with transmission, **firmed with storage and backed up by gas-powered generation** is the lowest cost way to*

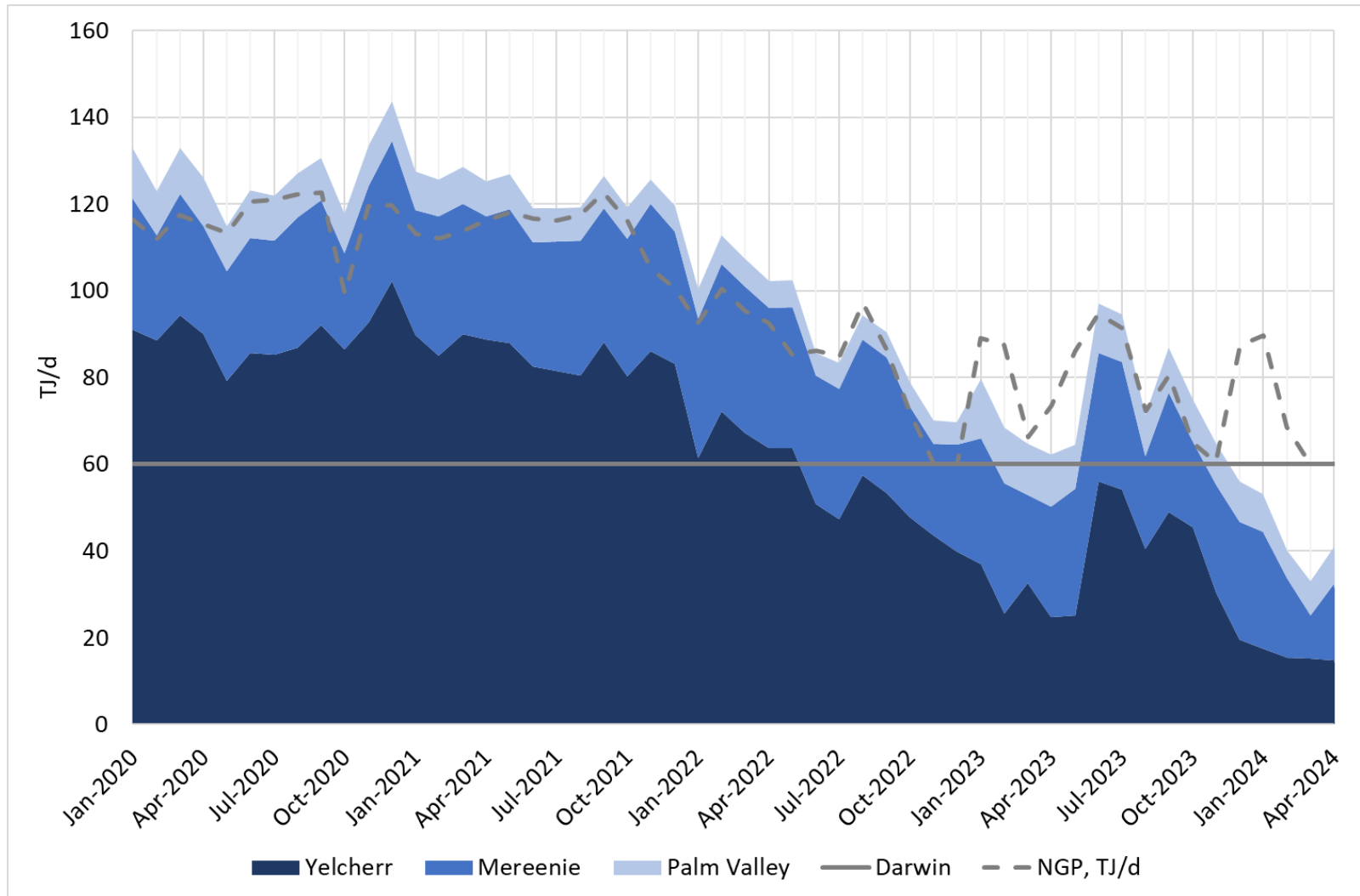


## Conclusions

- This is the conclusion from a presentation entitled “Repositioning Gas in the Energy Mix” that RISC presented at APPEA in 2018.
- Gas generation produces approximately half the emissions of coal generation, so simply switching from coal to gas generation has a material impact on emissions (as seen in the USA)
- Gas generation is a natural companion to renewables as it can be turned on and off and ramped up and down as the renewables generation changes.
- Gas generation is, and should be recognised as, an enabler for the integration of renewables into the grid
- Gas needs to be positively promoted as a partner for renewables
  - Maintains stability of system (intermittency of VRES)
  - Minimises emissions (Coal emits twice as much CO<sub>2</sub> as gas fired generation, and is not as flexible)

**Promotion of a future energy mix based on renewables and gas is likely to lead to the lowest cost and least disruptive way of maximising emission reductions**

# NT Gas Supply situation



# Production issues and challenges, and significant project development achievements and issues during 2023



## Production:

Several fields faced production interruptions or restrictions during the year:

- Prelude problems persisted with only 6-7 months production over the year.
  - A fire in December 2022 shut the facility until late January 2023.
  - A process trip caused a shut down again in May 2023.
  - In August it shut down for extended maintenance and repair and didn't re-start until December.
- Gorgon CCS - pressure management issues continued to reduce injection capacity.
- Darwin LNG stopped production in October 2023
  
- Gas Demand in Southeast dropped significantly
  - Iona reached record inventory levels at year end
  - GBJV production dropped significantly (and plans to close GP1 in 2024)
  
- Blacktip – efforts to re-instate production were only temporarily successful production continued to decline.

## Project Development:

- Q1
  - NOPSEMA direction to stop the Barossa pipeline project in early January.
  - Problems at Waitsia following Clough entering administration.
  - APA completes Stage 1 upgrades to SWQP (50TJ/d) and MSP (30TJ/d) (March)
- Q2
  - Iona hits record storage level of 25.2 PJ (April)
  - APA announces Stage 2 upgrades to SWQP (~60TJ/d) and MSP (~90TJ/d) (May)
- Q3
  - Legal challenge halts Woodside's seismic campaign at Scarborough
  - Walyering project start-up (September)
- Q4
  - Woodside removes the Nganhurra RTM from the Enfield field.
  - Narrabri SAP revoked, Santos delays FID to 2025.
  - Woodside gets approval to continue with seismic and drilling at Scarborough.

## East Coast:

Continued tight supply, and pain expected, in the east coast market.

- Gippsland, Otway and Bass basins - efforts will continue to extend the life of existing assets
- Cooper Basin – continued drilling program to maintain production
- Bowen-Surat Basin – continued CSG drilling and expansion of upstream activities to keep LNG plants at plateau.
- Infrastructure upgrades to pipelines and storage.
  
- LNG imports – commercial arrangements?

## Northern Territory:

- LNG facilities becoming the only reliable source of supply for Darwin.
- Delivery of Barossa and re-start of DLNG
- Beetaloo Basin – continued support for activity, but commercial production still a long way off

## West Coast:

Domgas:

Discovery and development of low-cost gas:

- Delivery of Waitsia Stage 2
- Development of West Eregulla
- Understanding the impact of CPG and other demand closures and recent new GPG announcements.

LNG:

- Delivery of Scarborough
- Opportunities to backfill NWSV
- Backfill of Gorgon



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