decisions with confidence

# PESA Production and Development Year in Review

"A Tale of Two ~~Cities~~ Markets/Products"

APPEA conference May 2022

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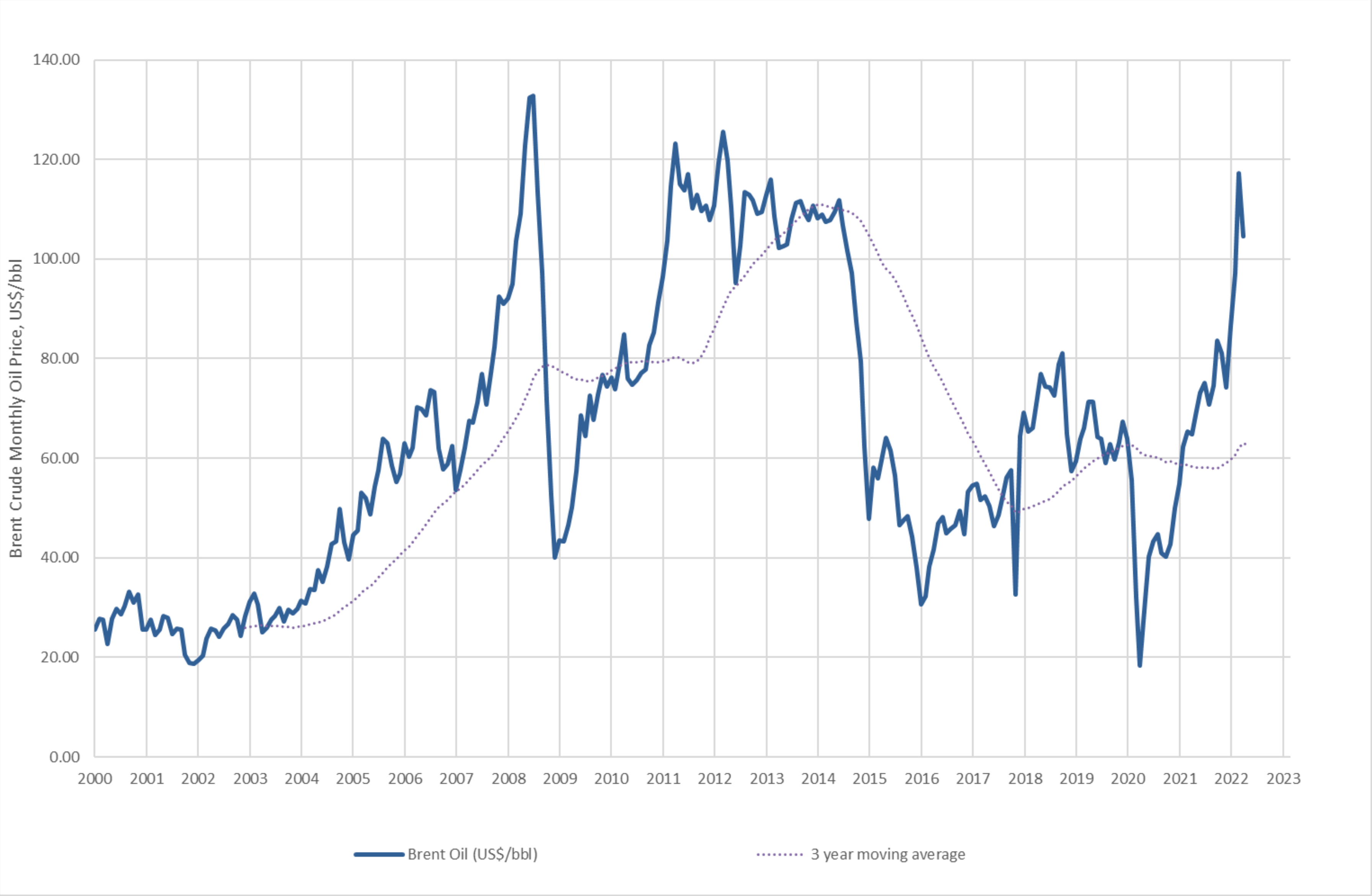
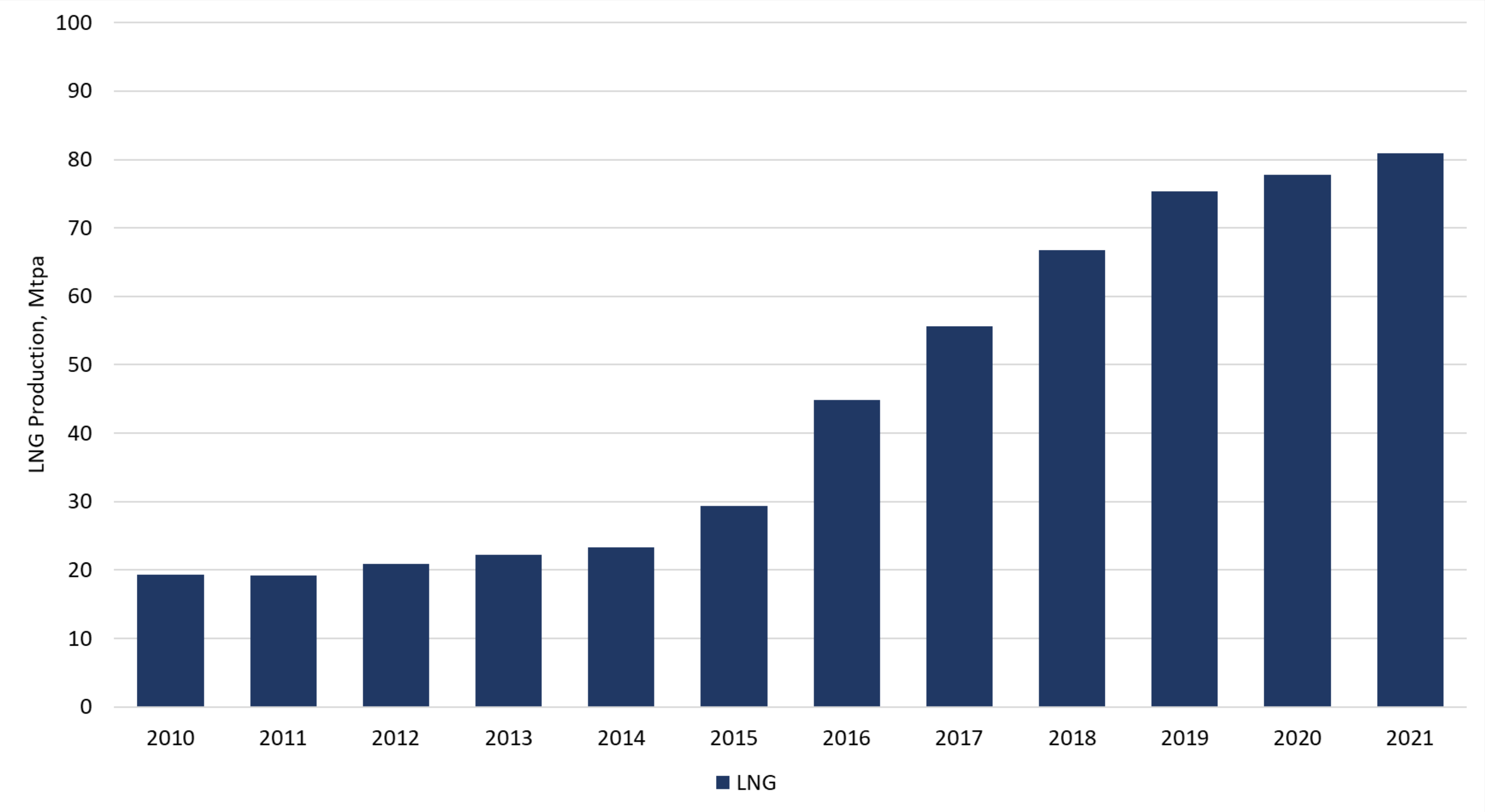
We acknowledge the support and assistance of GlobalData and their data gathering and compilation, without which this review would not have been possible.

- Production data obtained from GlobalData under licence.
- Emissions data sourced from the Clean Energy Regulator.

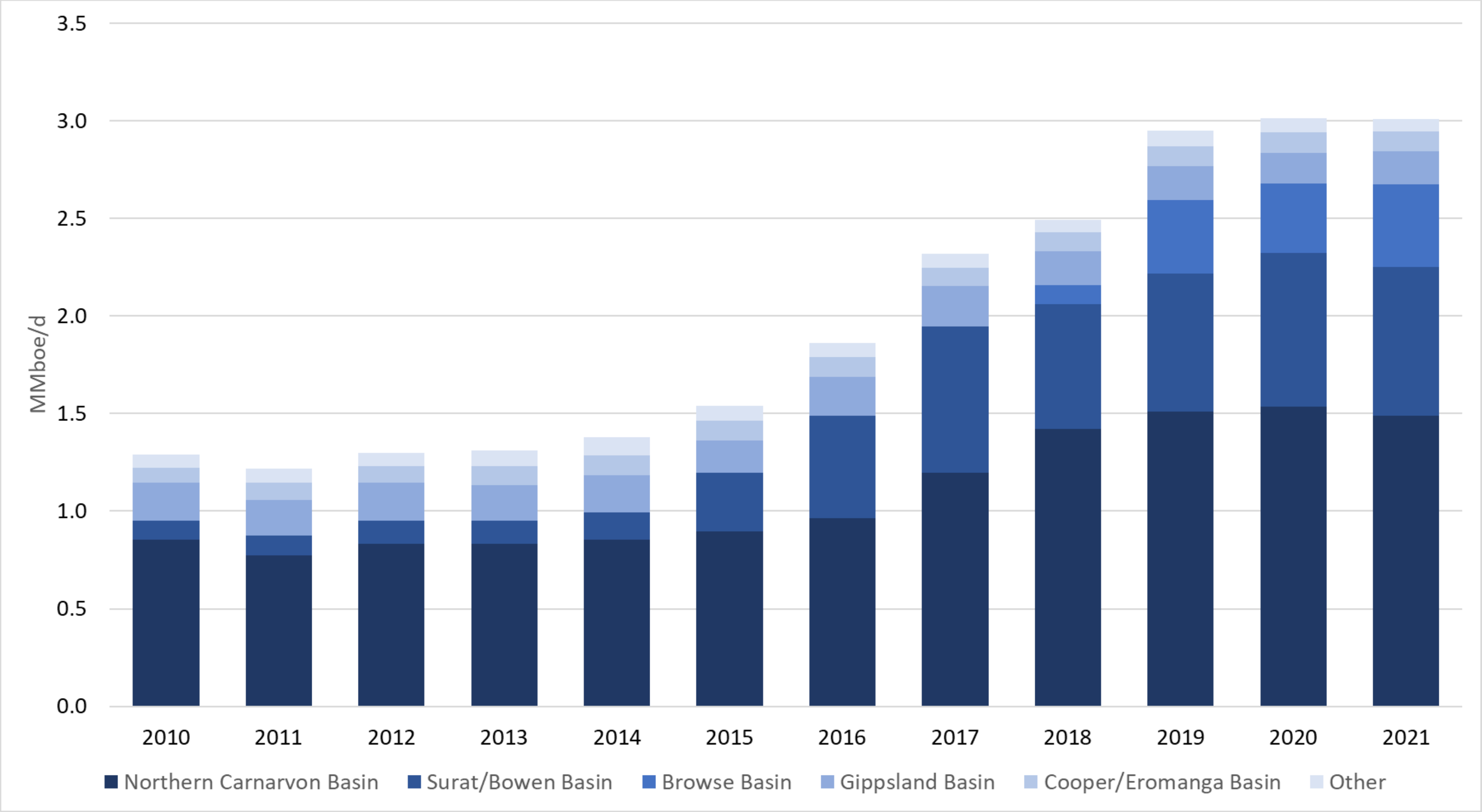
# Oil price $50-80/bbl in 2021



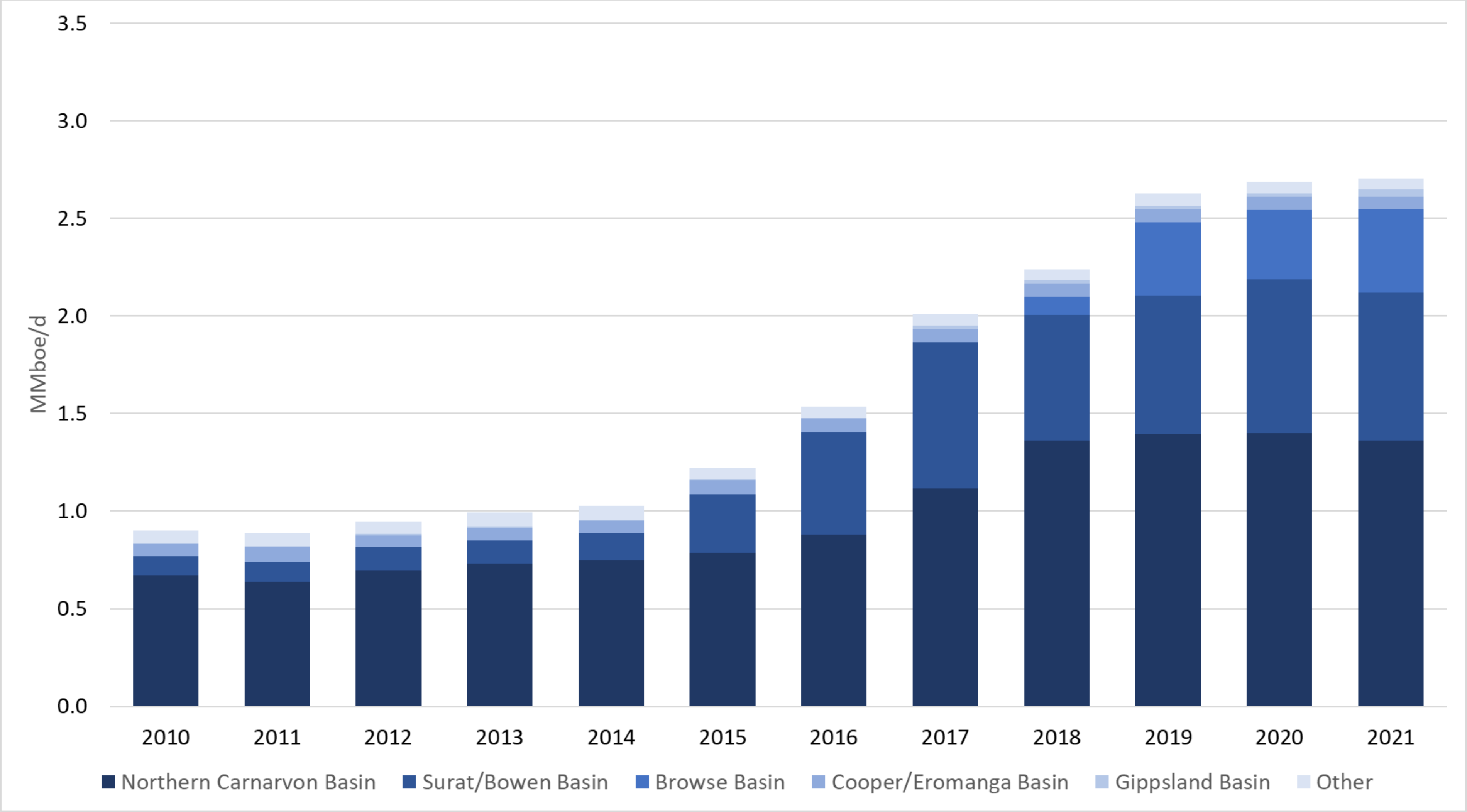
# LNG Production hit record high in 2021



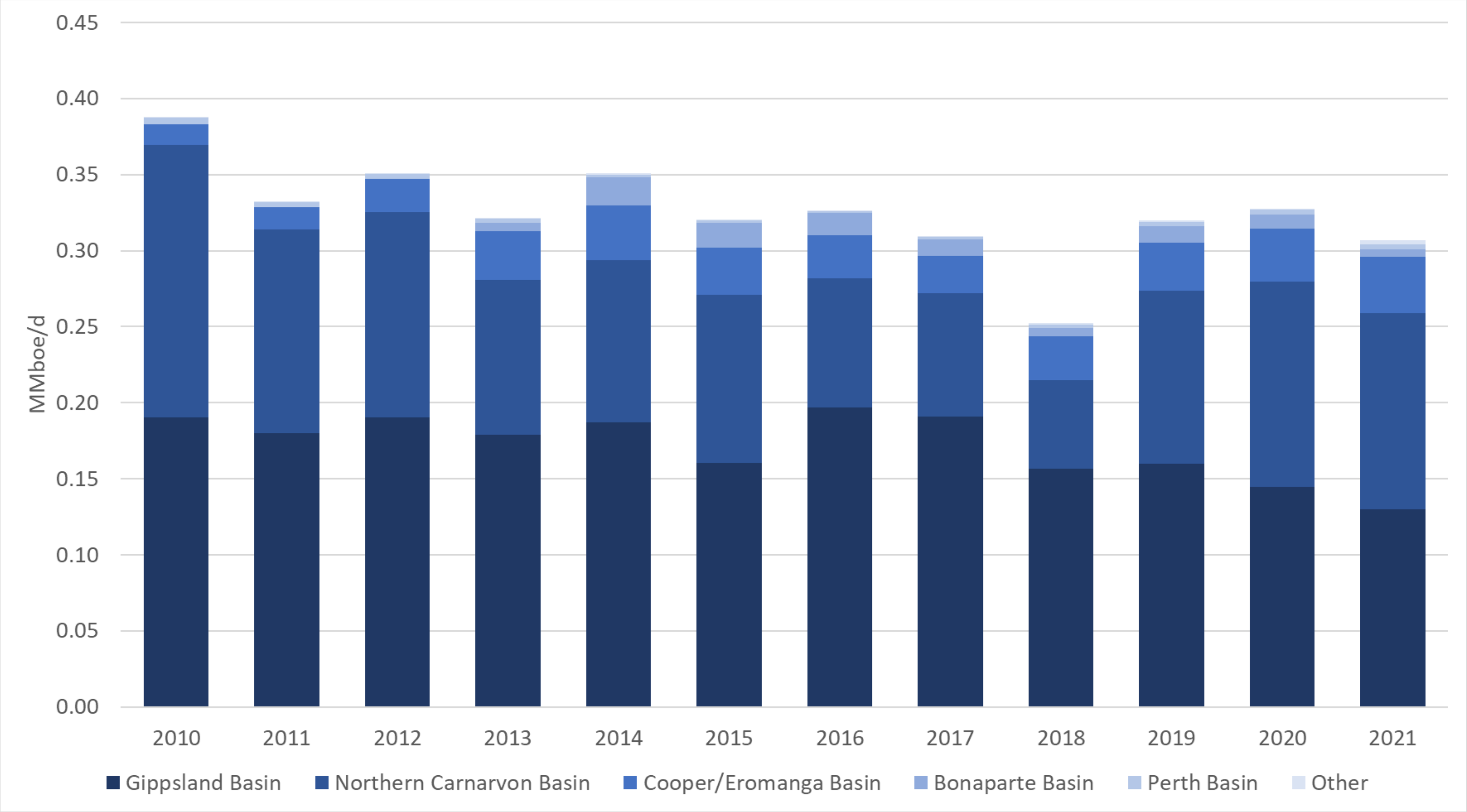
# This also mirrored in overall petroleum production figures



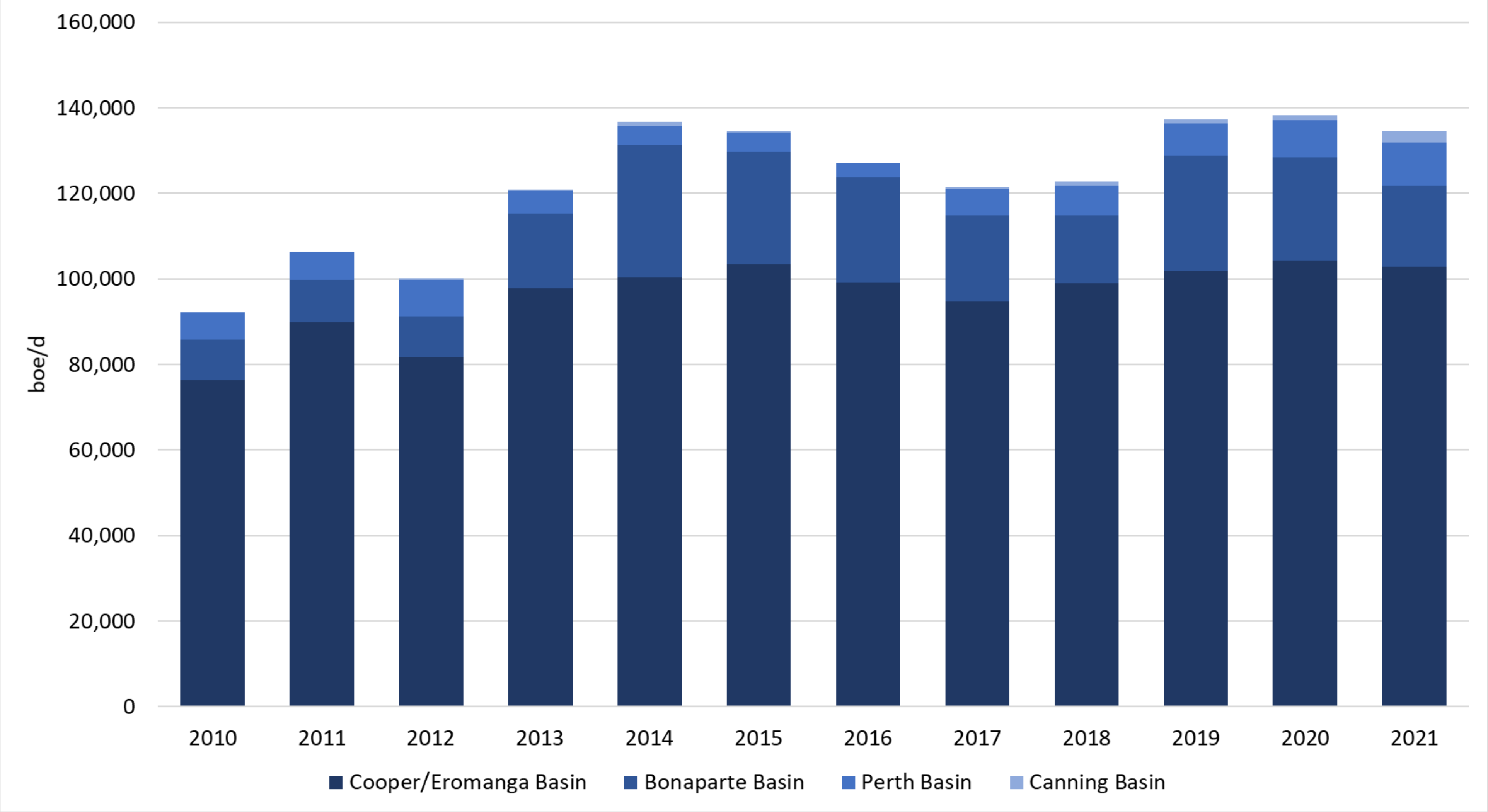
# Gas Production Dominates…



# …oil is in decline.



# Smaller basin successes



# Production challenges and issues, and significant project developments during 2021

**Production Issues:**

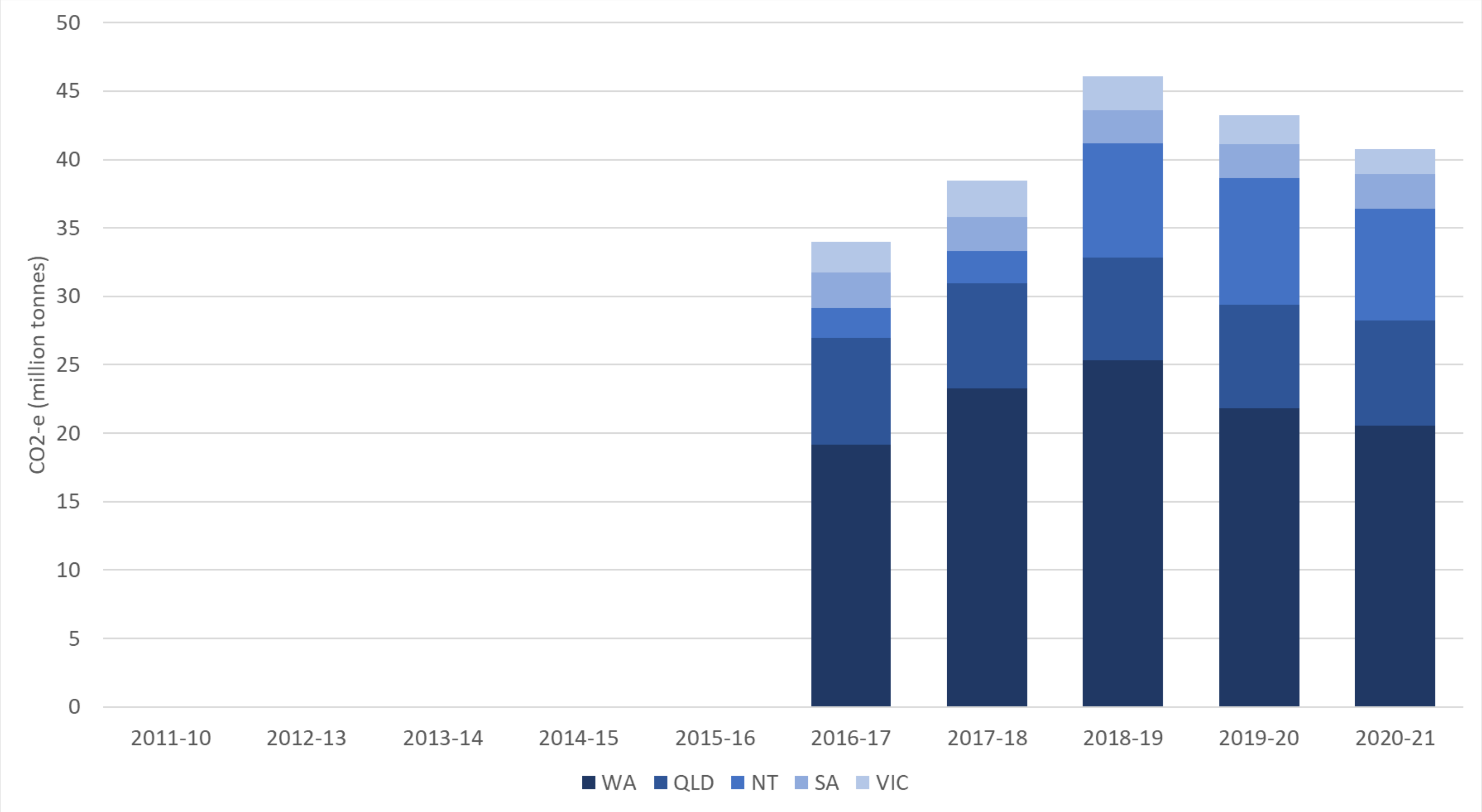
Several fields faced production interruptions or restrictions during the year:

- Prelude – restart in January 2021, fire in December 2021
- QCLNG - power outage caused total plant shutdown in March 2021
- Gorgon CCS - pressure management issues
- Orbost Gas Plant – production improvements from <30 TJ/d to 45 TJ/d through the year.
- Longford – July outage reduced output by around 200 TJ/d
- Cliffhead oil field offtake arrangements

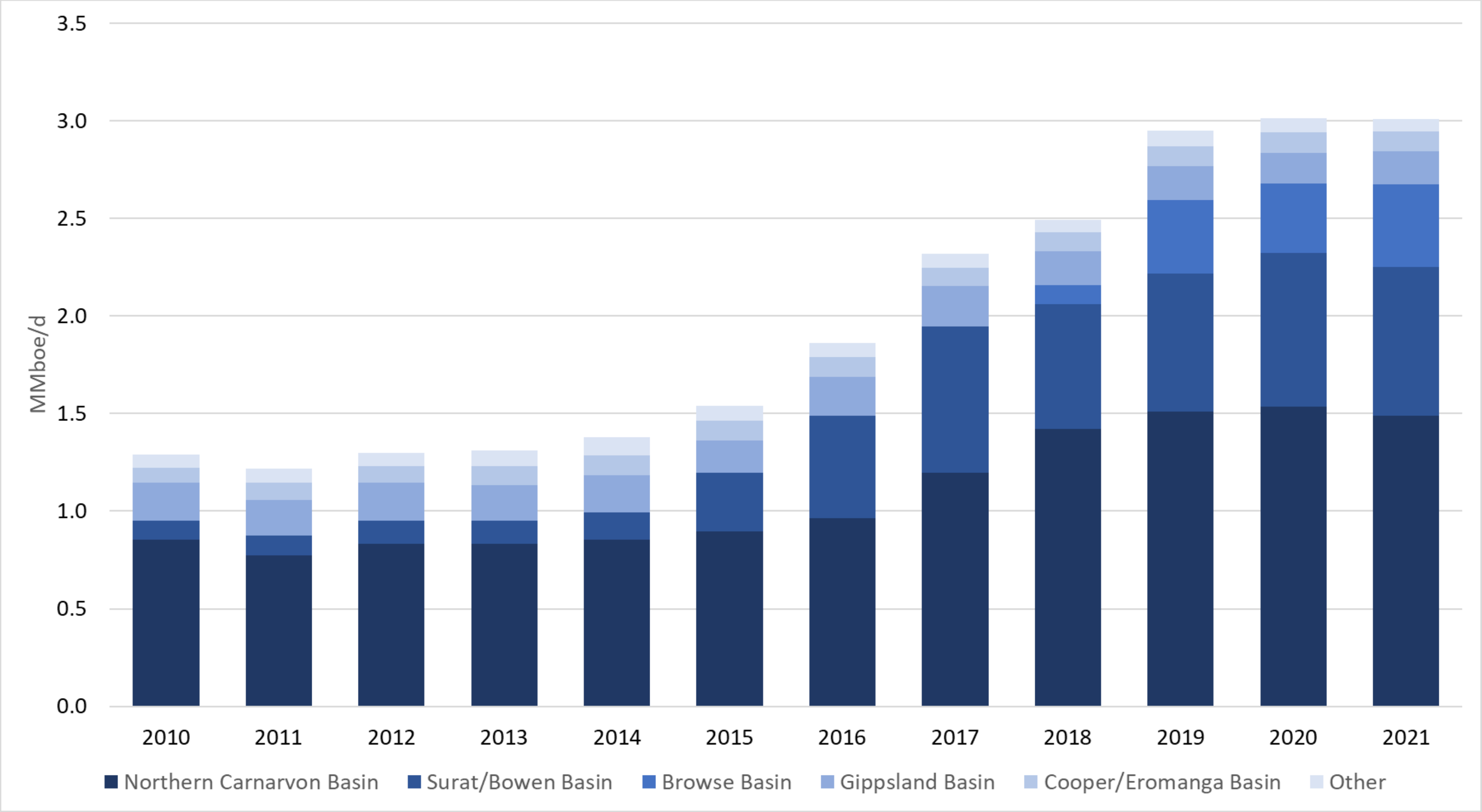
**Project Development highlights 2021**:

- March
  - Barossa project sanction
- April
  - Port Kembla LNG import terminal sanction
  - Will miss winter 2023, RFSU end 2023.
- May
  - Bayu-Undan infill drilling
- June
  - Dorado FEED entry June 2021
  - Targeting FID mid-2022
- August
  - Atlas expansion sanction from 32 TJ/d – 48 TJ/d
- October
  - Pxyis Hub start-up
- November
  - Scarborough and project sanction
    - Pluto 2 selldown
  - Moomba Carbon Capture and Storage project sanction
- December
  - Athena commissioning and CHN cut-over
  - Julimar Brunello Phase-2 start-up
  - Greater Western Flank drilling (completed in Jan 2022)

# Emissions


50
45
40
35
30
25
20
15
10
5
0
CO2-e (million tonnes)
2011-10
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
WA
QLD
NT
SA
VIC

# Overall petroleum production figures



# Lookahead

**East Coast:**

Continued tight supply in the east coast market.

- Gippsland, Otway and Bass basins - efforts will continue to extend the life of existing assets
  - Turrum – Longford
  - Trefoil – Bass Gas
  - Geographe, Thylacine, Enterprise drilling – Otway gas plant
- Cooper Basin – continued drilling program to maintain and grow production
- Bowen-Surat Bain – continued CSG drilling and expansion of upstream activities to keep LNG plants at plateau.
- LNG imports

- Beetaloo Basin – continued support for activity, but commercial production still a long way off

**West Coast**:

Discovery and development of low cost gas,

Opportunities to backfill NWSV

- Perth Basin - continued focus on finding and developing relatively large and low-cost domestic gas into the Western Australian market.
- Carnarvon Basin – backfill opportunities into NWSV.
  - Expansion, unlikely but possible?

- Canning Basin – support for limited activity www.riscadvisory.com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