



Australia PETROLEUM



Queensland

A pipeline of resource opportunities



Disclaimer

The information contained herein is subject to change without notice. The Queensland Government shall not be liable for technical or other errors or omissions contained herein. The reader/user accepts all risks and responsibility for losses, damages, costs and other consequences resulting directly or indirectly from using this information.



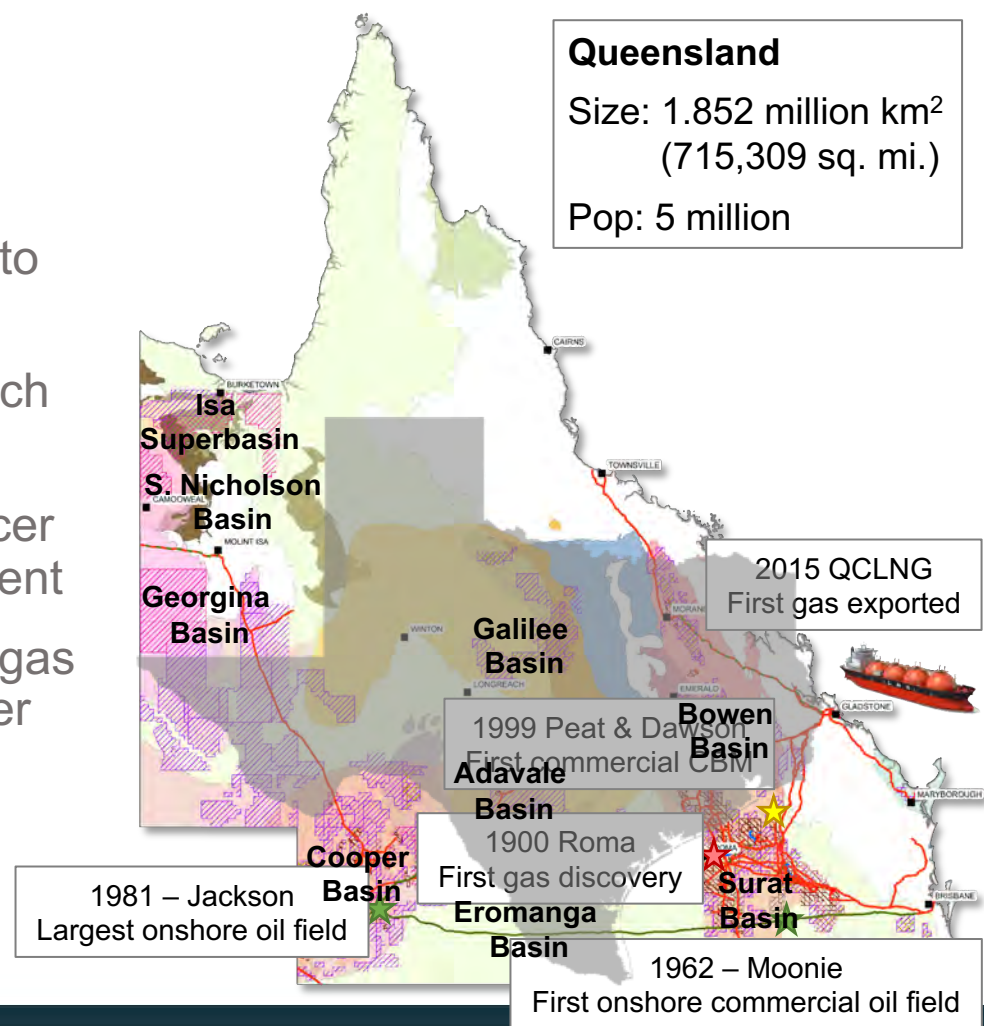
Overview

- 27 hydrocarbon basins, 10 producing to highly prospective
- A thriving oil and gas industry with a rich history of discoveries
- Australia's largest onshore gas producer and a global leader in CBM development
- A key supplier to Australia's domestic gas market and a world-class LNG exporter

Queensland

Size: 1.852 million km²
(715,309 sq. mi.)

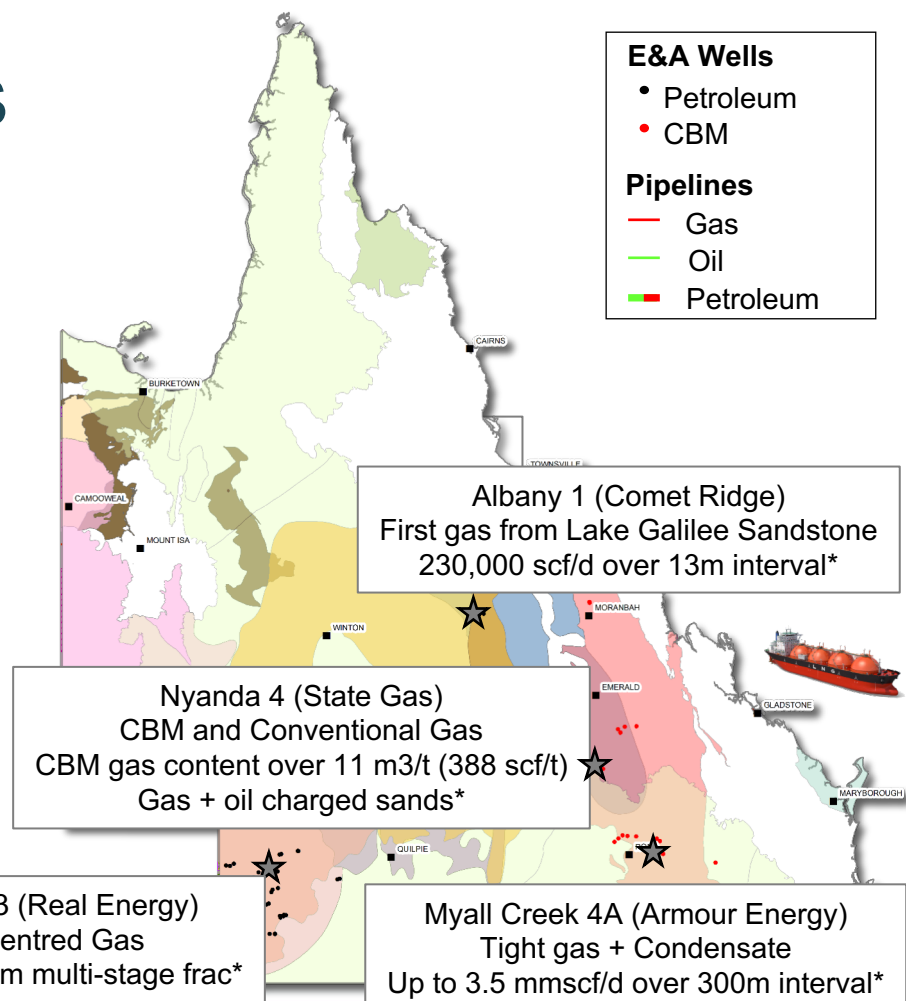
Pop: 5 million



2018 Industry Highlights

- Northern Gas Pipeline completed with first gas in early 2019
- 1.5 TCF of gas produced from Surat, Bowen, and Cooper basins
- 20.5 MT of LNG exported in 2018 to China, Japan, Korea, UAE, SE Asia
- 814 wells drilled, 67 E&A with several new frontier discoveries
- Exploration expenditure up 50% from 2016 levels with \$1.17B over 5 years

*Information sourced from ASX



Gas Markets

- ~10,000 km (6213 mi) of gas pipelines
- Domestic (East Coast) demand 500 – 700 PJ/annum expected to 2038*
- LNG export demand 1200 to 1500 PJ/d after 2023 as plant utilization increases to 100%*
- Current contingent resources base required to supply domestic market from 2021*
- Spot market gas trading at Wallumbilla 8 to 10 AUD\$/GJ (benchmark) in 2018**
- 1.6% growth in global gas demand to 2040 led by China, India, Other Asia (non-OECD)***

Sources

*AEMO GSOO 2018

**AEMO Wallumbilla Hub

*** BP Energy Outlook 2018

Conversions

1 PJ = 947 bbtu

1 GJ = 0.947 mmbtu

1PJ ≈ 0.943 BCF

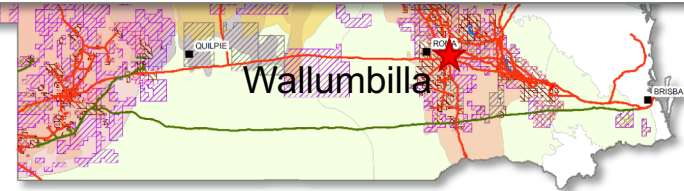
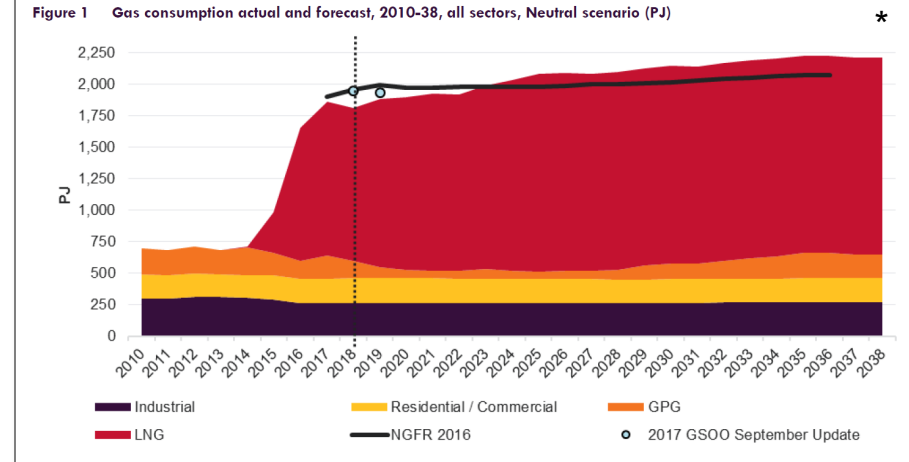
1 AUD ≈ 0.70 USD

Pipelines

— Gas

— Oil

— Petroleum



Investment Opportunities








Acreage Release

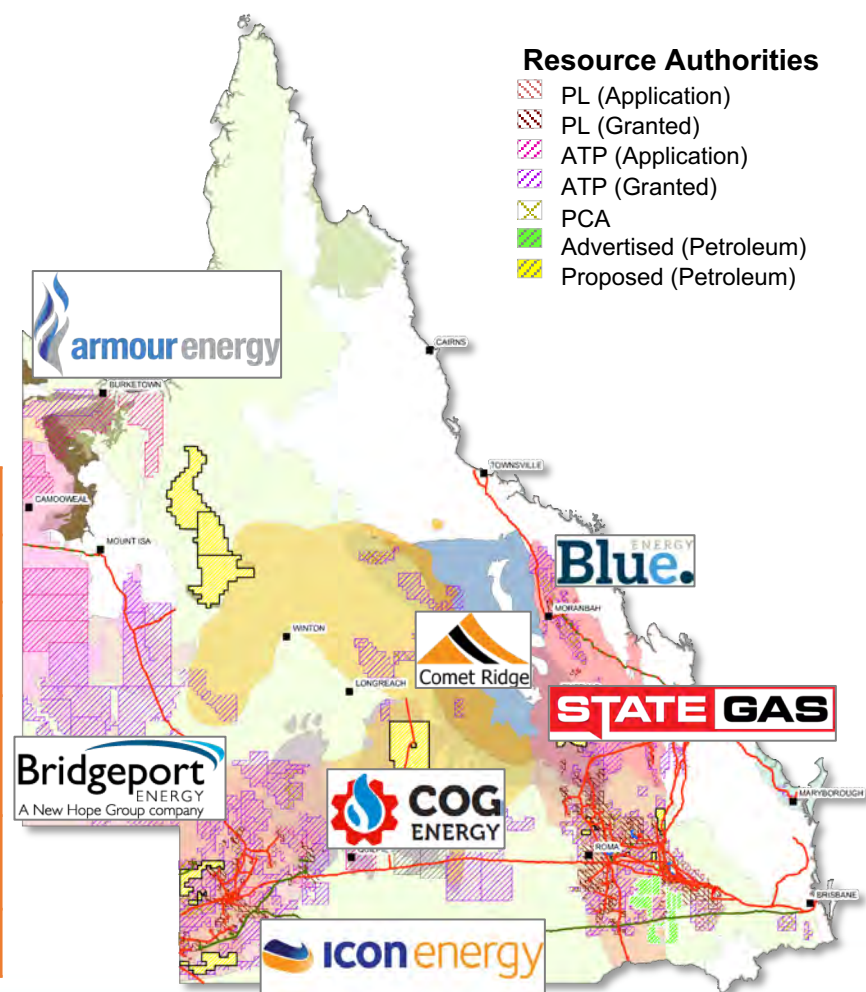
- 22 areas in 2018/19 QEP (Queensland Exploration Program)
- PLR2018-1A (2 domestic) released 1 Nov 2018 – close 28 Feb 2019
- PLR2018-1B (1 domestic) released 15 Nov 2018 – close 14 March 2019
- Register at Qtenders <https://www.hpw.qld.gov.au/qtenders/>
- For further information on the QEP or to submit an expression of interest contact resources-tenders@dnrme.qld.gov.au or +61 7 3096 6191

Projects Seeking Investment (*company sourced)

Company	Acreage	Basin	Resource	PR/Other (mean)	CR (2C)	%WI
Armour Energy	ATP1087	Isa Superbasin	shale gas	22.1 TCF	154 BCF	100
Bridgeport Energy	ATPs 269, 608, 805, 948, 2022, 2026	Cooper	oil, gas, shale oil	400 mmmboe		100
Cog Energy	ATPs 1104, 1195, 1093, 2039	Adavale, Eromanga	oil, gas, shale gas	181.4 TCF (P10), 570 mmmbl (2P) OGIP/OOIP		100
Icon Energy	ATPs 855, 594	Cooper	tight gas, deep coal gas, oil, gas	28.49 TCF 13.22 mmmbl	1.57 TCF	100
State Gas	PL231	Bowen	CBM, gas, tight gas			80

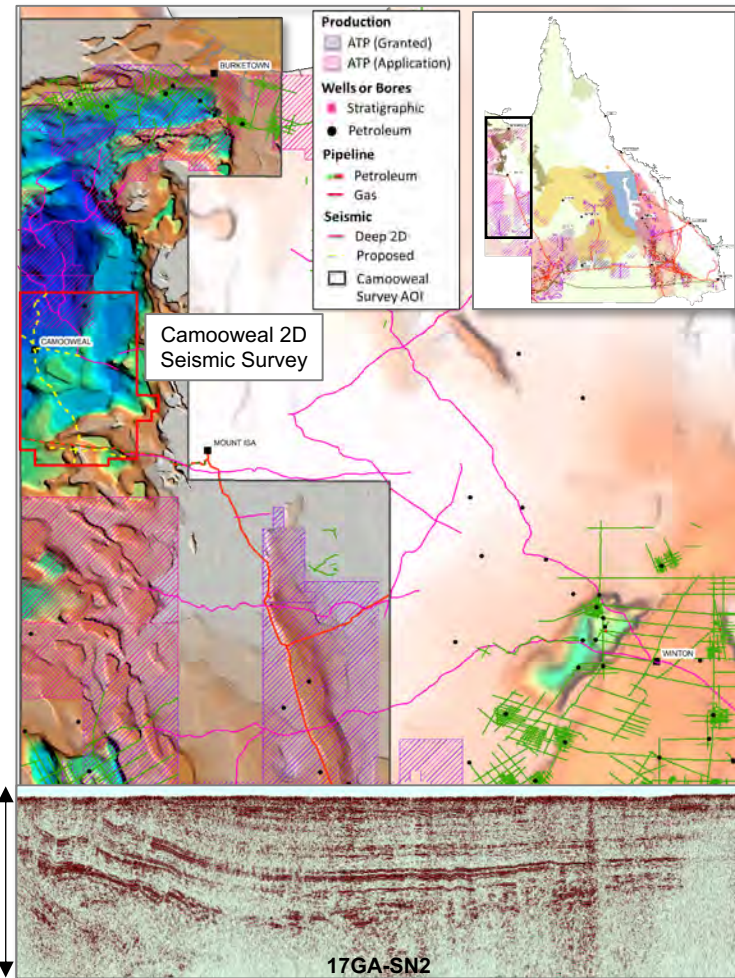
Resource Authorities

-  PL (Application)
-  PL (Granted)
-  ATP (Application)
-  ATP (Granted)
-  PCA
-  Advertised (Petroleum)
-  Proposed (Petroleum)



Frontier Horizons

- Proterozoic basins with significant gas prospectivity in thick, continuous, organic-rich shale units
- 1000 km of 2D seismic acquired in 2017 by Geoscience Australia (GA) under Exploring for the Future Program
- 300 km of 2D seismic being acquired by Geological Survey of Queensland in 2019
- Delivered SEEBASE® modelling to constrain the structural architecture of the basin
- APPEA Paper – “Petroleum systems of the Proterozoic and a description of various play types” (Gorton and Troup 2018)
- Commercial pathway to East Coast markets through Northern Gas Pipeline – acreage release potential
- Further activities in collaboration with GA to improve subsurface understanding of the region



Digital Transformation

Geoscience Data Modernization Project

- Modernising the collection and management of geoscience data
- Enabling data driven decision making to increase exploration success
- Pilot data lake with end-to-end demonstration planned for March 2019
- Program to deliver in June 2020

Petroleum and Gas Reporting Guideline

- New Petroleum and Gas Reporting Guideline released in October 2018
- Improve the collection and management of geoscience information
- Some of the key changes include:
 - submission of key data and metadata in standardised templates
 - introduction of well-level production reporting by month
 - expanded reporting of petroleum reserves and resources
- Transition period in 2019 with full implementation in 2020

Petroleum and gas reporting guideline

Well and bore, survey, petroleum and hydraulic fracturing activities reports

October 2018

Contact Details



Justin Gorton

Director, Basin Studies

Department of Natural Resources,
Mines, and Energy

Queensland Government



Caoilin Chestnutt

Resources Investment Commissioner

Queensland Government



NAPE Booth: #1535

Story Map: <https://arcg.is/1qbWDi>



Queensland
AUSTRALIA
endless opportunities

TIO Trade &
Investment
Queensland
AUSTRALIA



Queensland
Government

