





Key report sections & charts:

Key messages

Australia east coast gas market outlook. September 2018

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	Is the east coast Australian market short of gas?	
	Where does Wood Mackenzie expect future prices to go?	
	Is AEMO's gas demand outlook for the east coast a robust planning assumption?	
	What is the opportunity for new domestic gas production to fill the gap?	
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	On-stream projects	
	Bass Strait – Gippsland Basin, VIC	
	Cooper Basin – SA and QLD	
	Otway Basin – Victoria	
	Other non-CSG basins	
	Coal seam gas – Bowen - Surat, QLD	
	APLNG CSG supply projects	
	GLNG CSG supply projects	
	QCLNG CSG supply projects	
	Cost of supply	
	Breakeven analysis for each LNG project	
	Supply availability Draw on gas production by LNG and the domestic market	
	Domgas (non-LNG)	
	Domgas (LNG)	
	LNG production – third-party gas	
	LNG production – equity gas	
	Future sources of supply (not modelled in our forecast)	
	Contingent nearer term sources of future gas production	
	Contingent longer-term supply (unlikely within the 2032 timescale of this report)	
	Delivered costs to market	
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Key assumptions Exchange Rate Energy Pipeline capacities and tariffs LNG contracting trends Offtake contracts from Queensland LNG Projects

Regas cost assumptions and tariff calculations

Charts

East coast supply-demand balance The domestic market call on LNG feedgas Supply cost curve Eastern Australia gas infrastructure and production areas Gas demand in east Australia by sector Gas demand in east Australia by state Industrial gas demand forecast - by segment Industrial gas demand forecast by state Strong and weak industrial demand scenarios WM low industrial gas demand forecast by sector AEMO electricity demand forecast Gas to power demand in east Australia by state AEMO strong and weak gas to power demand scenarios



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Residential and commercial gas demand forecast

AEMO strong and weak residential and commercial demand scenarios

Hydrocarbon basins of Australia

Eastern Australia gas infrastructure and production areas

Eastern Australian gas production by basin

Gas to LNG supply outlook

Wellhead breakeven cost of operated upstream gas supply for each of the LNG projects (US\$)

Production outlook vs demand and LNG requirement

East coast gas supply and demand

QLD supply and demand

NSW, SA & VIC supply and demand

Wellhead breakeven of undeveloped gas resources in eastern Australia

Contingent gas production outlook

Production outlook vs demand and LNG requirement with contingent resources

Supply cost curve

Global Gas Model (GGM) network map (with capacity TJ/d)

East coast Australia gas infrastructure

Infrastructure utilisation - Gas hubs

Infrastructure utilisation - Victoria

Infrastructure utilisation - New South Wales

Infrastructure utilisation - South Australia

Queensland liquefaction utilisation

Queensland liquefaction utilisation PJ/month 2025 vs 2030

Historic and forecast annual LNG prices

Forecast Asian LNG spot monthly prices

Oil price outlook

Calculation of Australian LNG netback pricing APLNG (mmtpa)

Calculation of Australian LNG netback pricing GLNG (mmtpa)

Calculation of Australian LNG netback pricing QCLNG (mmtpa)

Oil linked contract vs spot price forecasts (real 2018)

Netback pricing can deliver a wide range of outcomes

Queensland gas price forecast

Example average netback pricing calculation 2019-2032 for Melbourne

Victoria gas price forecast (real 2018)

New South Wales gas price forecast (real 2018)

South Australia gas price forecast (real 2018)

Regional price comparisons (real 2018)

Regas flows low tariff (PJ/Month)

Regas flows high tariff (PJ/Month)

Comparison of gas demand scenarios (AMEO Strong, Neutral and Weak; Wood Mackenzie Low)

Supply-demand balance and call on third party gas and equity gas

Victoria regas utilisation

Victoria prices

Liquefaction utilisation scenario

Pipeline capacities and tariffs

LNG contracting trends

Offtake contracts from Queensland LNG Projects

Regas cost assumptions and tariff calculations