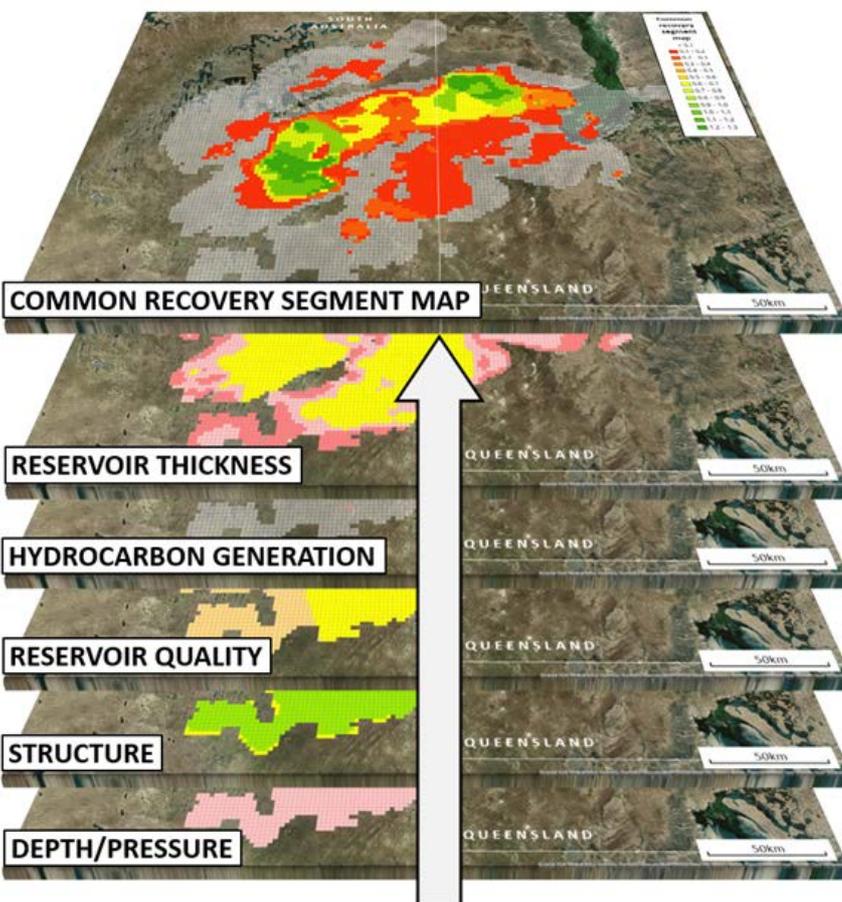


Australian Eastern States gas market study and unconventional play atlas

RISC has developed a comprehensive Australian Eastern States gas market study. The study is based on the 2P reserves positions for domestic gas producers paired with a range of gas demand forecasts to identify probable supply gaps on the East Coast over the next 10 years. A market response to the high gas pricing on the East Coast in the form of new developments is already underway.

At what gas price does it make sense to start developing unconventional resources in the Eastern states?

Resource play quantification for all of the Eastern States recognised potential unconventional plays



The study has analysed all of the potential sources of unconventional gas to fill the East Coast market gap and determines likely gas supply rates, development schedules and breakeven supply costs for each of the major demand centres.

The study illustrates the required gas prices to drive unconventional gas development in Eastern Australia, the subsequent scale of new unconventional gas supplies to the forecast gaps in the market and describes how those developments can reverse the trend of rising prices over time.

Contact



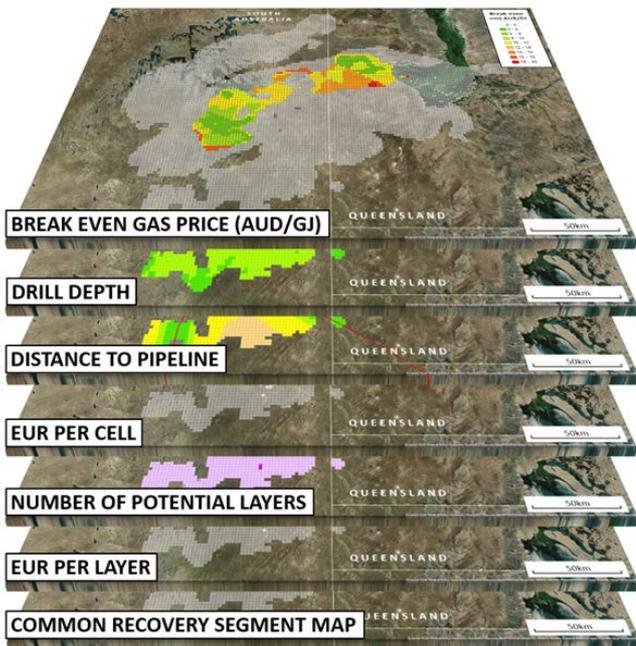
Ian Cockerill
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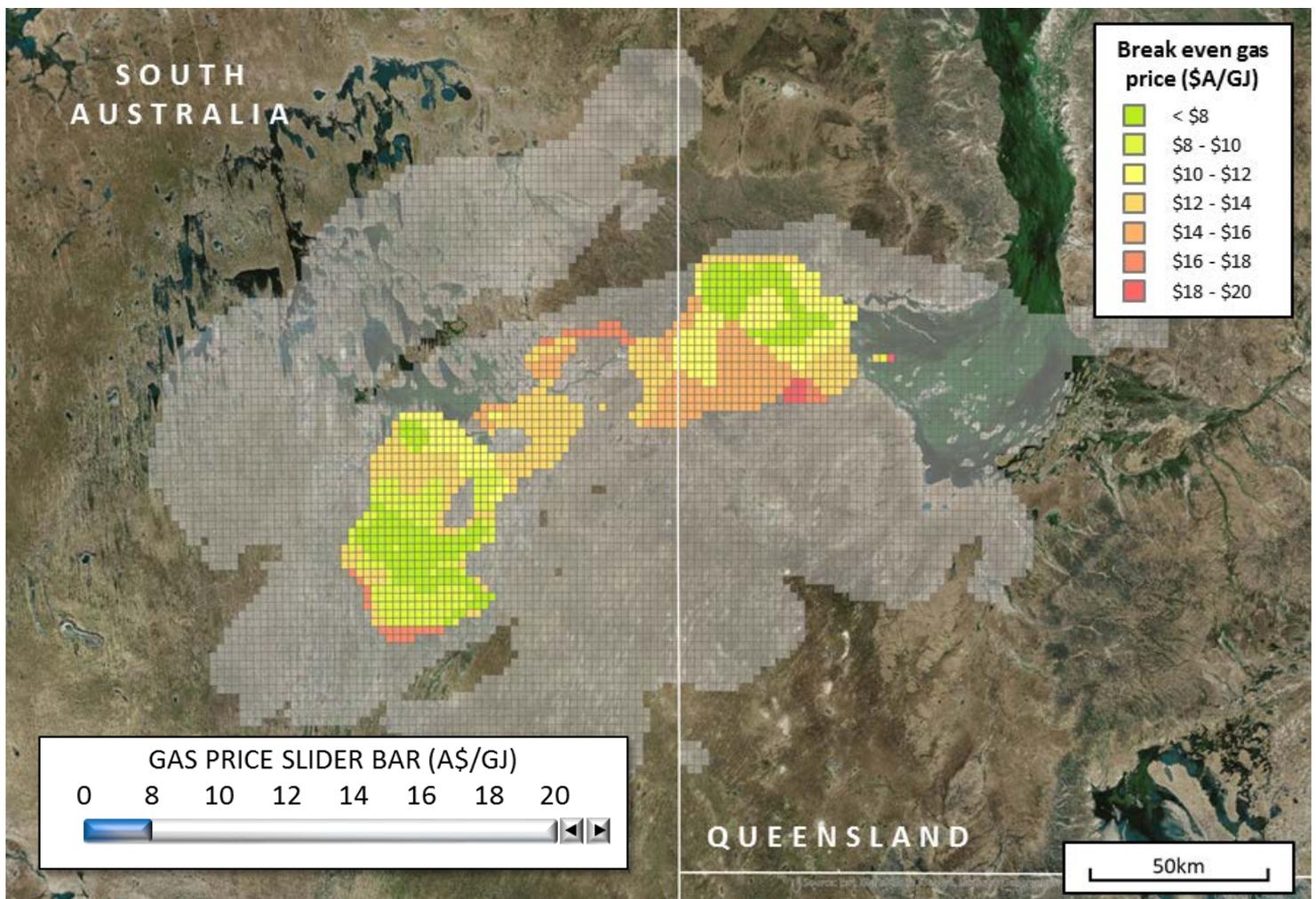
Joe Collins
Principal Development Engineer
Joe.collins@riscadvisory.com

Resource development break-even analysis

A quantitative analysis of the unconventional gas potential of Eastern Australian basins has been undertaken using a spatial analysis methodology of play fairway sweet-spot mapping. Play components considered important for the presence and recovery of unconventional gas were mapped across the plays of interest. Modelled horizontal well type curves and development plans from North American analogues for unconventional gas production have been used to quantify the sweet-spot mapping using a methodology RISC has developed called common recovery segment mapping.



The gas price slider bar provides interactive break even development maps for all of the recognised unconventional plays in Eastern Australia



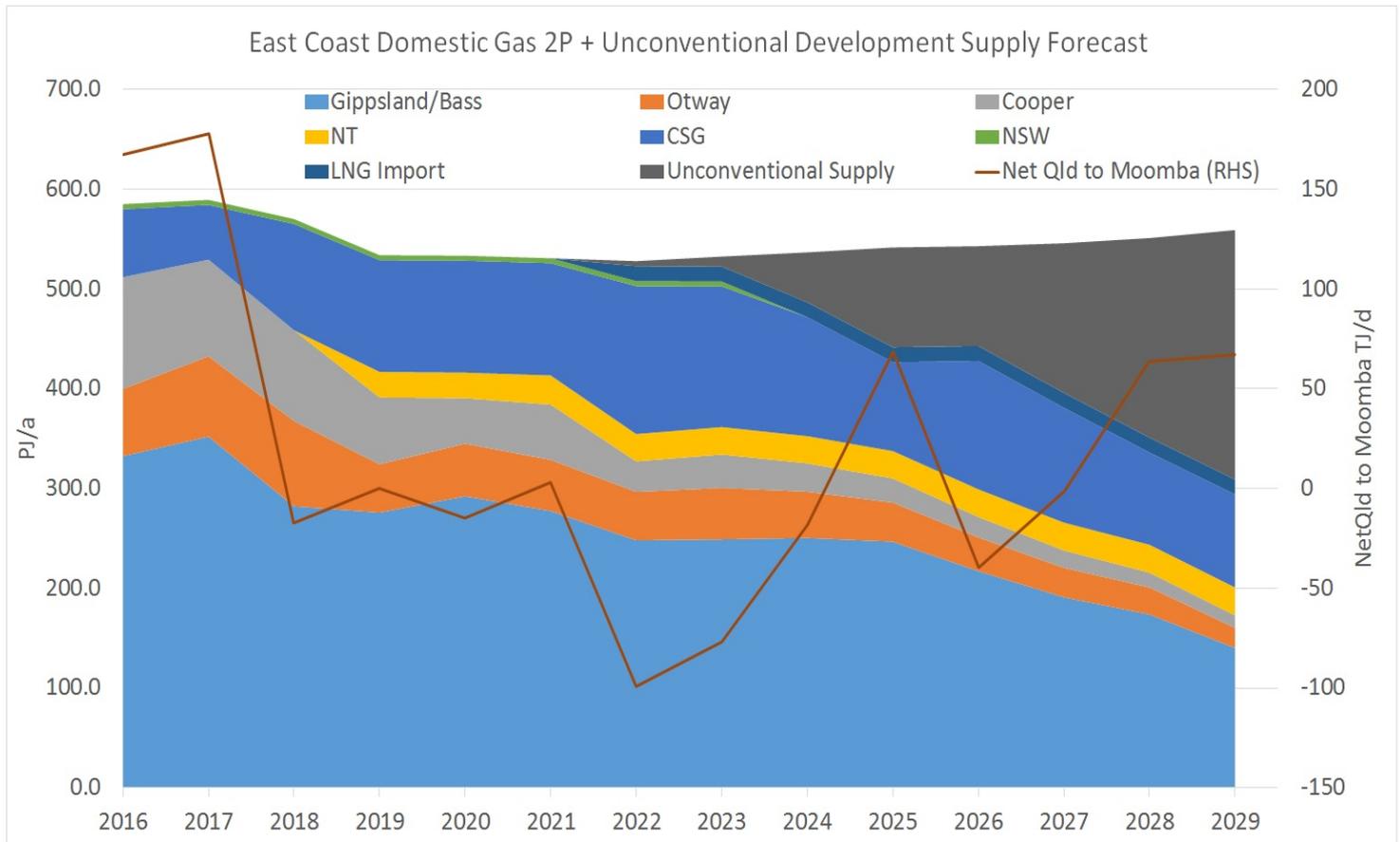
All major gas resource plays identified in Eastern Australia have been quantified

BASIN	PLAY / RESERVOIR	PLAY TYPE
COOPER	TOOLACHEE	SHALE GAS
COOPER	DARALINGIE	TIGHT GAS
COOPER	ROSENEATH	SHALE GAS
COOPER	EPSILON	TIGHT GAS
COOPER	MURTEREE	SHALE GAS
COOPER	PATCHAWARRA	TIGHT GAS
EROMANGA	WINTON	TIGHT GAS
BOWEN	BANDANNA-BARALABA	COAL SEAM GAS
BOWEN	TINWON	TIGHT GAS
BOWEN	REIDS DOME BEDS	TIGHT GAS
SURAT	WALLOON	COAL SEAM GAS
SURAT	PRECIPICE	TIGHT GAS
SURAT	SPRINGBOK	TIGHT GAS
GALILEE	ARAMAC	COAL SEAM GAS
BEETALOO	VELKERRI	SHALE GAS

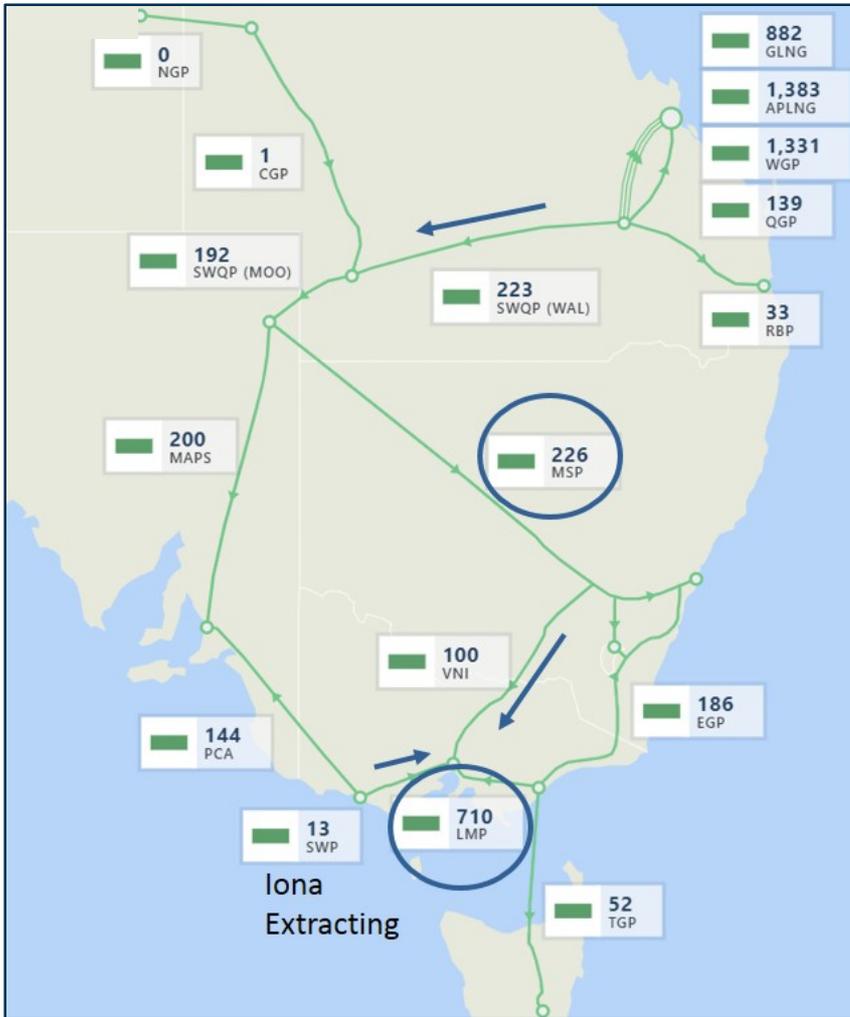
We have constructed an east coast gas market model which mirrors the market. Supply sources are modelled at the basin level and have been characterized using known reserves, production capacity and cost of supply data.

Demand has been aggregated into “demand centers” which are mostly the large population centers on the east coast of Australia as well as the Curtis Island LNG projects. The model forecasts supply and estimated gas prices for the input demand forecasts. Gaps in the existing supply forecast can be utilised by new sources of unconventional supply if the market price can be met.

Eastern Australia gas supply forecast



Eastern Australia gas market model



A quantitative understanding of unconventional resource potential at different gas price scenarios allows us to understand how potential unconventional resource developments could contribute towards the Eastern Australia energy supply mix.

Resource estimates, breakeven prices and supply forecasts can be extracted at the permit level.

Costs	
Hyperlinked report	A\$50,000
ArcGIS project	A\$15,000
Gas market study	A\$10,000

Deliverables

The Eastern Australia unconventional play atlas and market study is available for purchase in both hyperlinked and interactive .pdf report for A\$50,000, with an optional ArcGIS project available for an additional A\$15,000.

The Eastern Australia gas market study is available as an optional excel model for A\$10,000.

An ongoing subscription model with annual updates can be offered with price negotiable.

Availability of the these products will be limited.

Contact



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