

Timor Sea GTL Venture Development

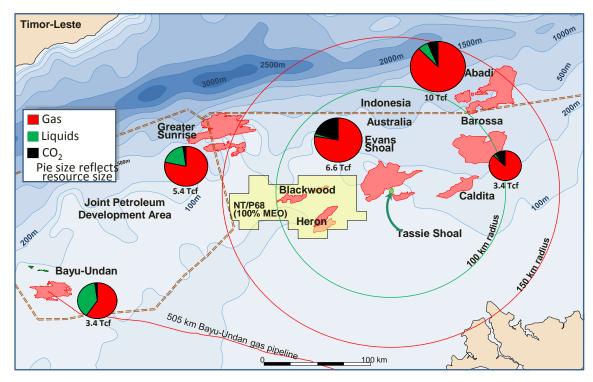
4th Australasian Energy Pacesetters Conference Perth, 3 August 2010



What is GTL? Resources to Revenue

Gas to Liquids (GTL):

• A process for converting gaseous hydrocarbons to liquids in order to make their development and long distance transportation economic.

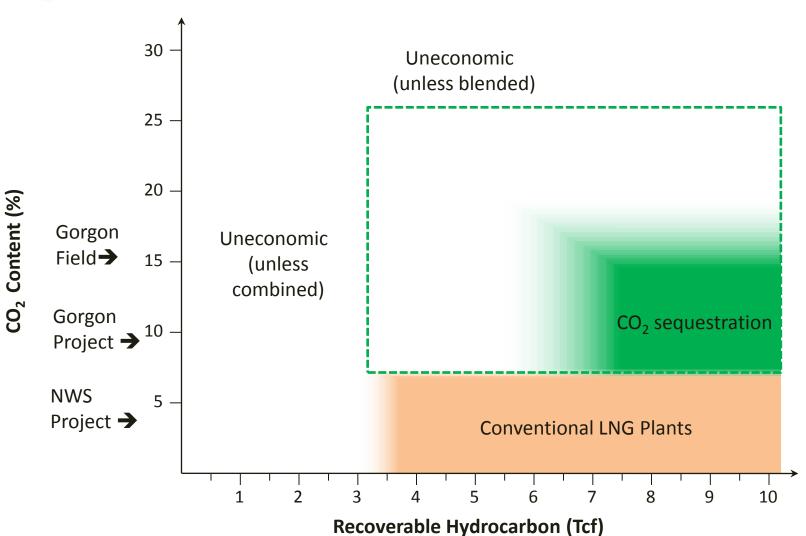


• Question is - what is the best GTL for a particular resource?



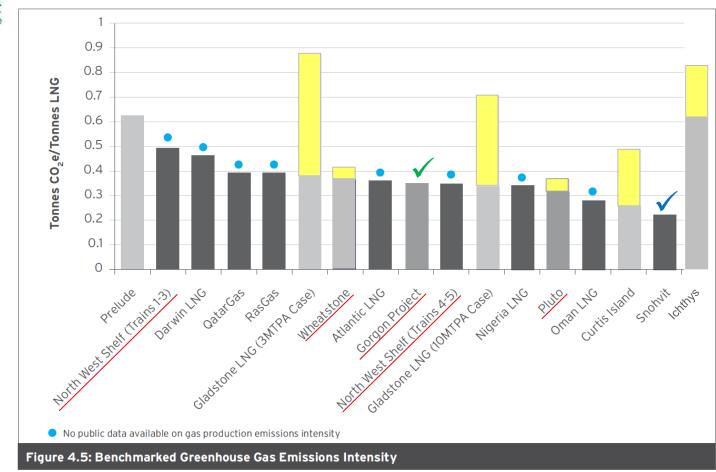
Resource commercialisation considerations

 CO_2 is a challenge





CO₂ emissions intensity a significant hurdle for new projects

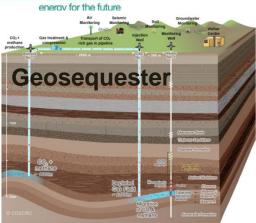


- Primary driver is CO₂ content in reservoir gas, secondary driver is plant efficiency
- Gas production and transportation to LNG plant is hidden challenge
- Gorgon is only project with CO₂ sequestration planned, Snohvit benefits from hydro power

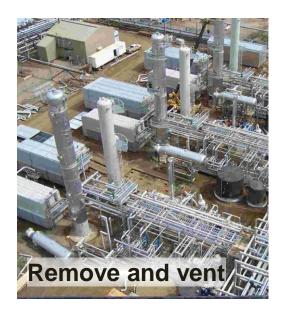
Sources: Chevron Australia Pty Ltd – Wheatstone Project EIS, Inpex Corporation - Ichthys Project Draft EIS



Options for dealing with CO₂

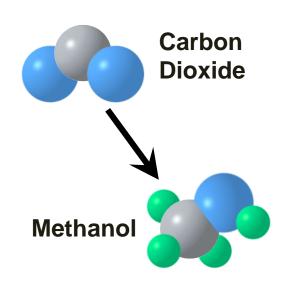


- Geo-sequester (re-inject)
- Bio-sequester
 - Trees (offset emissions)
 - Algae (consume emissions)
- Chemical-sequester
 Methanol
- Regulatory relief



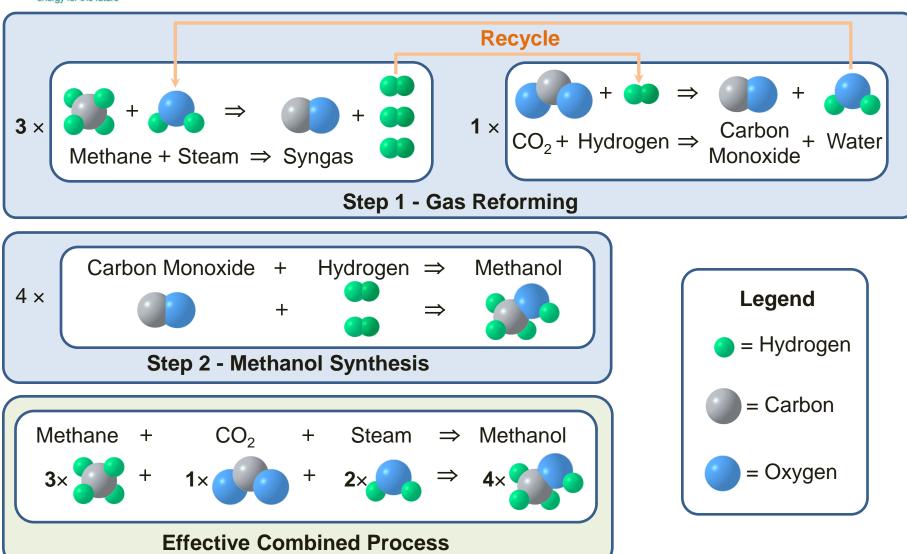


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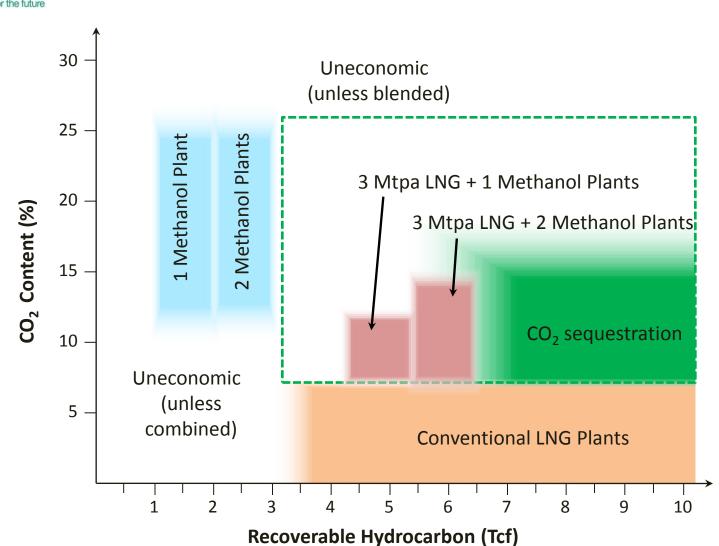
The CO₂ → Methanol Story high school chemistry

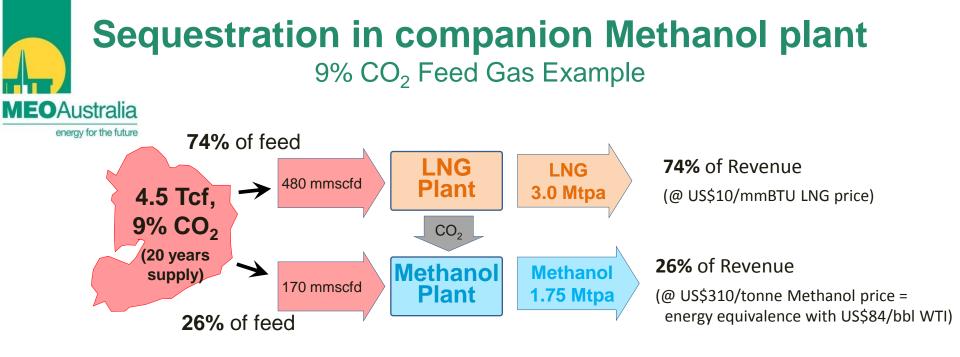




Methanol – a viable sequestration option

a solution for high CO₂ gas



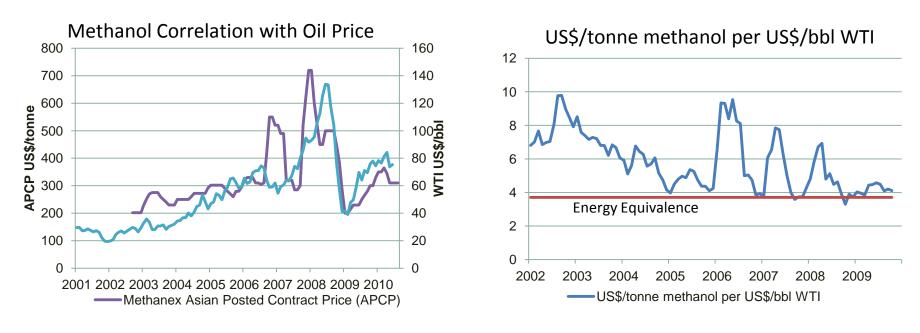


- Yeilds LNG plant emissions = 0.33 tCO₂/tLNG
 - Compare with Gorgon project = 0.35 tCO₂/tLNG (with geosequestration)
- Methanol plant CO₂ emissions are 40% lower than coal based production (swing producers)
- Methanol is an enabler for the commercialisation of high CO₂ gas and the sequestration of CO₂ from LNG processing



Methanol prices track oil

with considerable cyclic upside

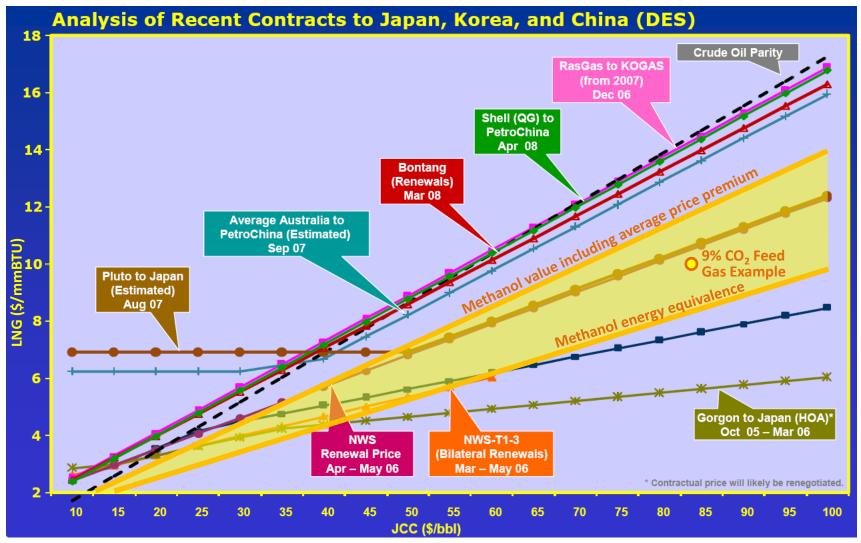


- Methanol price shows strong correlation with oil price
- Some erosion of "chemical premium"
- High methanol price cycles provide additional upside
- Price floor remains energy equivalence
 - US\$300/tonne methanol = US\$80/bbl WTI (energy content basis)



Methanol price relative to LNG

range of values comparable to LNG

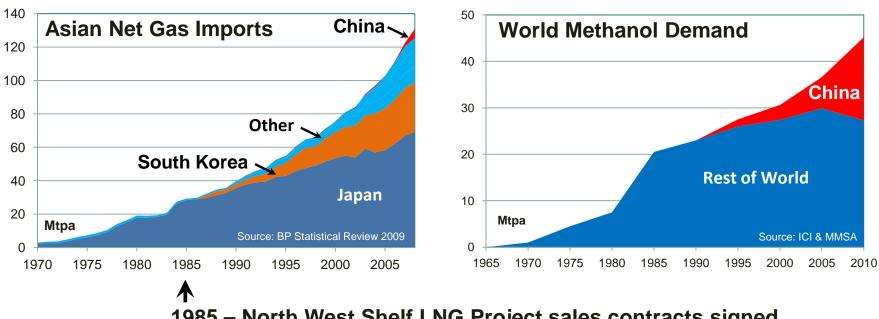


Source: Oil Search Limited, MD's Presentation, 2009 Annual Meeting, May 2009, MEO analysis



Established Markets

China is the growth market



1985 – North West Shelf LNG Project sales contracts signed, project construction commenced

- LNG was a niche market at NWS Project commitment
- NWS Project represented major portion of identified demand
- Considerable current interest in long term methanol contracts
 - no shortage of offtakers to underpin projects



Location Map and Water Depth MEO's Timor Sea discoveries and projects

eneray for the future oxton Shoals 1 480 460 10000 20000 30000 40000 440 420 400 380 360 Troubadour 1 340 -320 -300 -280 55 46 260 220 180 160 140 120 **NT/P 68** Evans Shoa 100 Evans Shoal 80 **Blackwood East** 40 20 Blackwood - Wonarah Evans Shoal South Blackwood **Tassie Shoal** Heron "Heron 2 Heron Original **O**Chuditch Permit Boundary

> WATER DEPTH MAP (derived from 2D Seismic data)

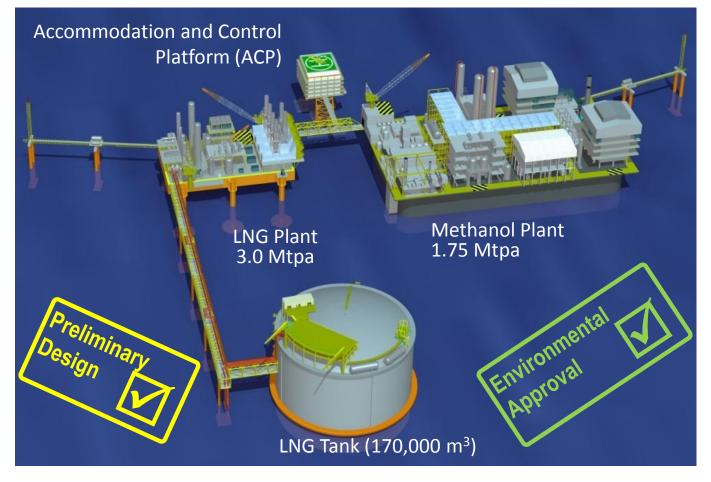
0<u>50</u>0m



Timor Sea GTL Venture Development

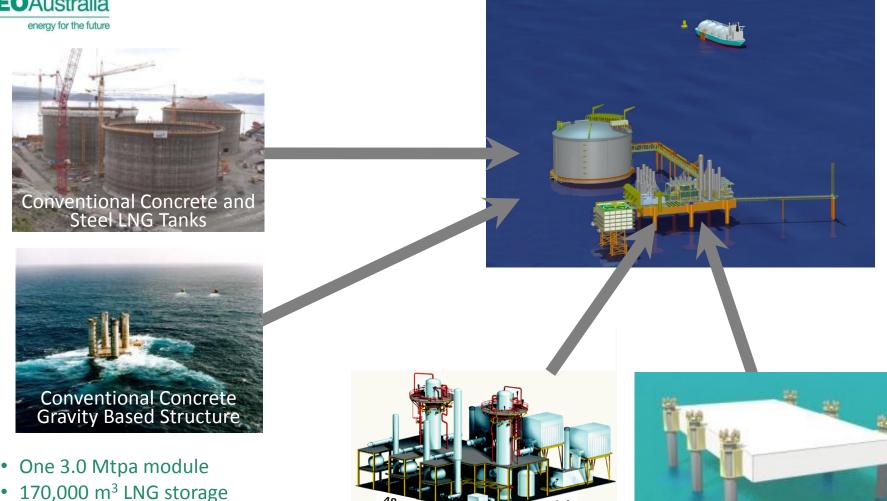
ready for confirmed gas supply

- Preliminary design and environmental approvals complete
- Ready to proceed rapidly to development once gas supply confirmed





LNG Plant - Proven Technology sensible combination



• Arup, Air Products and Worley Parsons designs and costings

Air Products 3.0 Mtpa LNG Plant

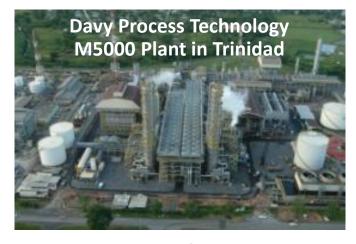
56m

Arup self-elevating platform (100m x 50m)



Methanol Plant - Proven Technology

located near gas source and LNG plant







Methanol Plant on GBS

- 1.75 Mtpa methanol production
- Davy Process Technology, Arup and Aker Kvaerner designs



Timor Sea GTL Venture Development

- Close to gas source
- Grounded in shallow water
- Modular construction
- LNG and Methanol
- Proven technology
- Mature design
- Environmental approvals

- reduces distance challenge
- removes movement challenge
- minimises development cost
- manages CO₂ challenge
- reduces implementation risk
- ready to proceed rapidly
- secured for LNG & Methanol (x2)

Next Steps:

- Heron & Blackwood reservoir studies now complete
- Complete resource certification (Gaffney Cline and Assoc)
- Farmout and appraise NT/P68 gas resources
- Select and proceed with optimised development



Disclaimer

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These factors include, among other things, commercial and other risks associated with estimation of potential hydrocarbon resources, the meeting of objectives and other investment considerations, as well as other matters not yet known to the Company or not currently considered material by the Company.

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