



ASX/MEDIA RELEASE

4 July 2011

CHINA INTERNATIONAL LNG CONFERENCE TECHNICAL PRESENTATION

The Directors of Liquefied Natural Gas Limited ("**Company**") (ASX Code: LNG) are pleased to provide a copy of the Company's presentation to the China International LNG Conference, held in Beijing last week.

The Conference was hosted by China National Petroleum Corporation and its wholly owned subsidiary China Huanqiu Contracting & Engineering Corporation ("**HQCEC**"). The Company will shortly complete the placement of 53,250,000 fully paid ordinary shares to HQCEC, which will result in HQCEC becoming the Company's largest shareholder (~19.9%).

The presentation was co-authored by the Company's Director and Chief Technical Officer, Mr Paul Bridgwood, and Senior Process Engineer, Dr Nimalan Gnanendran.

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LNG Processing Efficiency in Next Generation LNG Plants

Nimalan Gnanendran and Paul Bridgwood

Liquefied Natural Gas Limited, Perth, Australia.



LNGCHINA – China International LNG Conference, Beijing, China.

Presentation Outline

- Company Background.
- Liquefaction Technology Comparison.
- LNG Limited's OSMR[®] Technology.
- Mid Scale LNG Economics.
- Current Project – Fisherman's Landing LNG, Australia.
- Questions.

Overview of LNG Limited



- **Australian Stock Exchange Code** LNG
- **Shares on Issue** 267million
- **Market Capitalisation** \$ AU 107 million (at \$ AU 0.40/share)
- **Cash Reserves** \$ AU 28 million, no debt
- **Top 5 Shareholders** 45.1% ownership
- **Major Shareholder**
 - HQCEC (Technology and EPC arm of CNPC) - 19.9%

The above figures are post the HQCEC placement which is expected to be settled in early July 2011

What does LNG Limited do?

- **Develop mid-scale LNG projects to the global market.**

- **'Energy-Link' concept:**

Identify and then supply "fast-track" energy solutions to both gas suppliers and energy users.

- **In-house liquefaction technology:**

Optimised Single Mixed Refrigerant - OSMR[®] LNG Process

- lower capital cost;
 - improved energy efficiency;
 - shorter development and construction schedule; and
 - lower carbon emissions and reduced overall environmental impact.
- **Technology Patents:**
Two provisional patents on liquefaction and Boil-off gas handling.

LNG Limited is a Mid-scale LNG Project developer AND a Technology provider

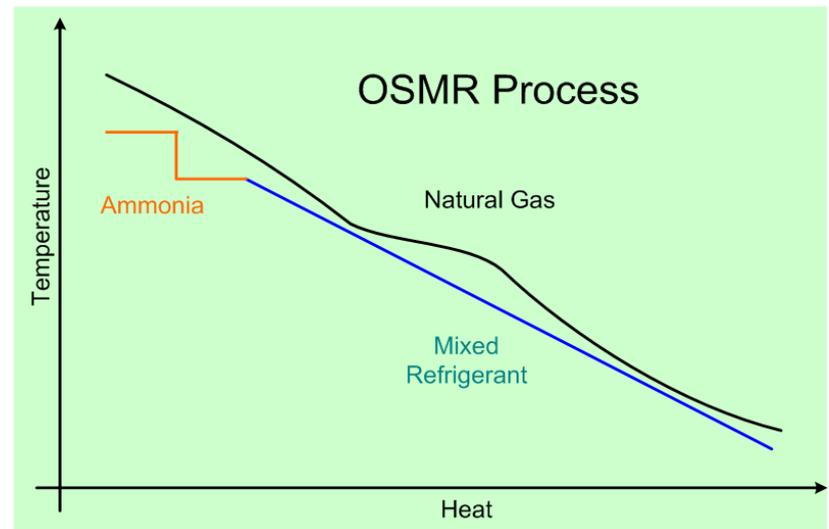
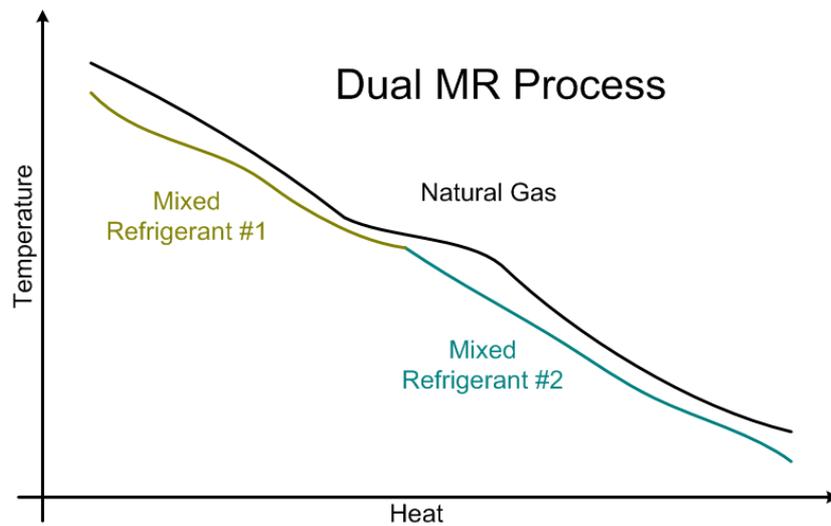
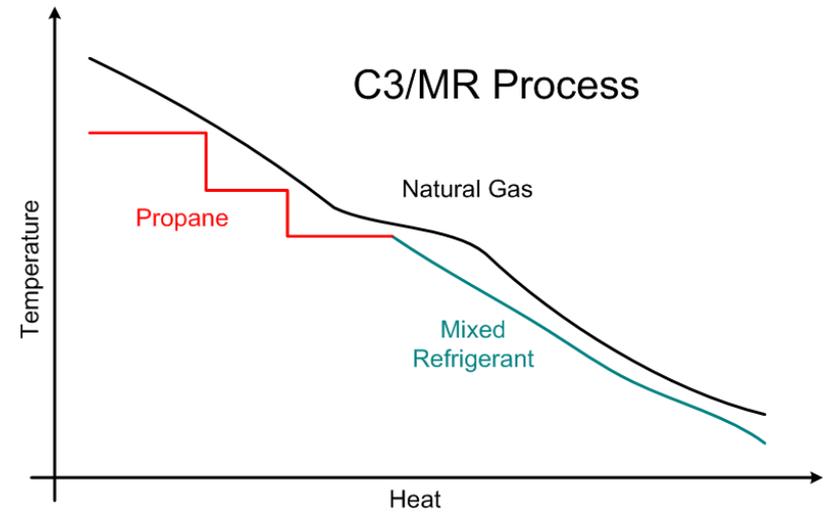
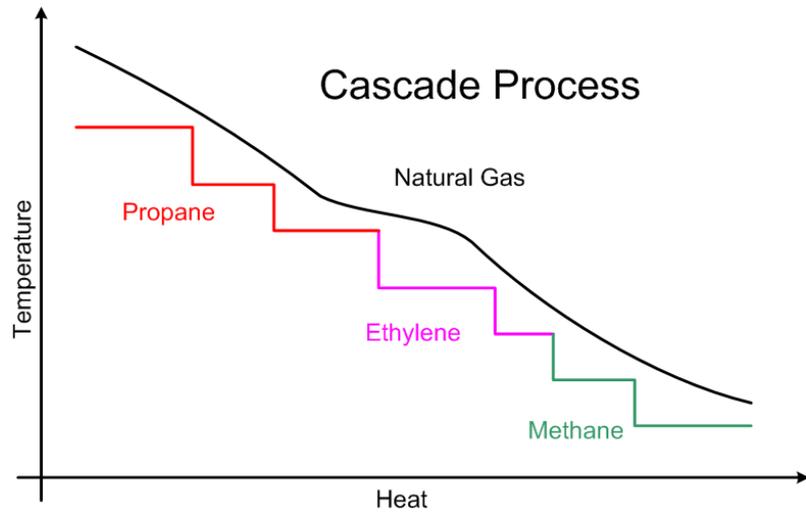
LNG Plant Size & Liquefaction Technology

- **Large Scale LNG Plants (> 3 mtpa)**
 - ConocoPhillips - Cascade Process
 - APCI – C3/MR Process
 - Shell - Dual MR

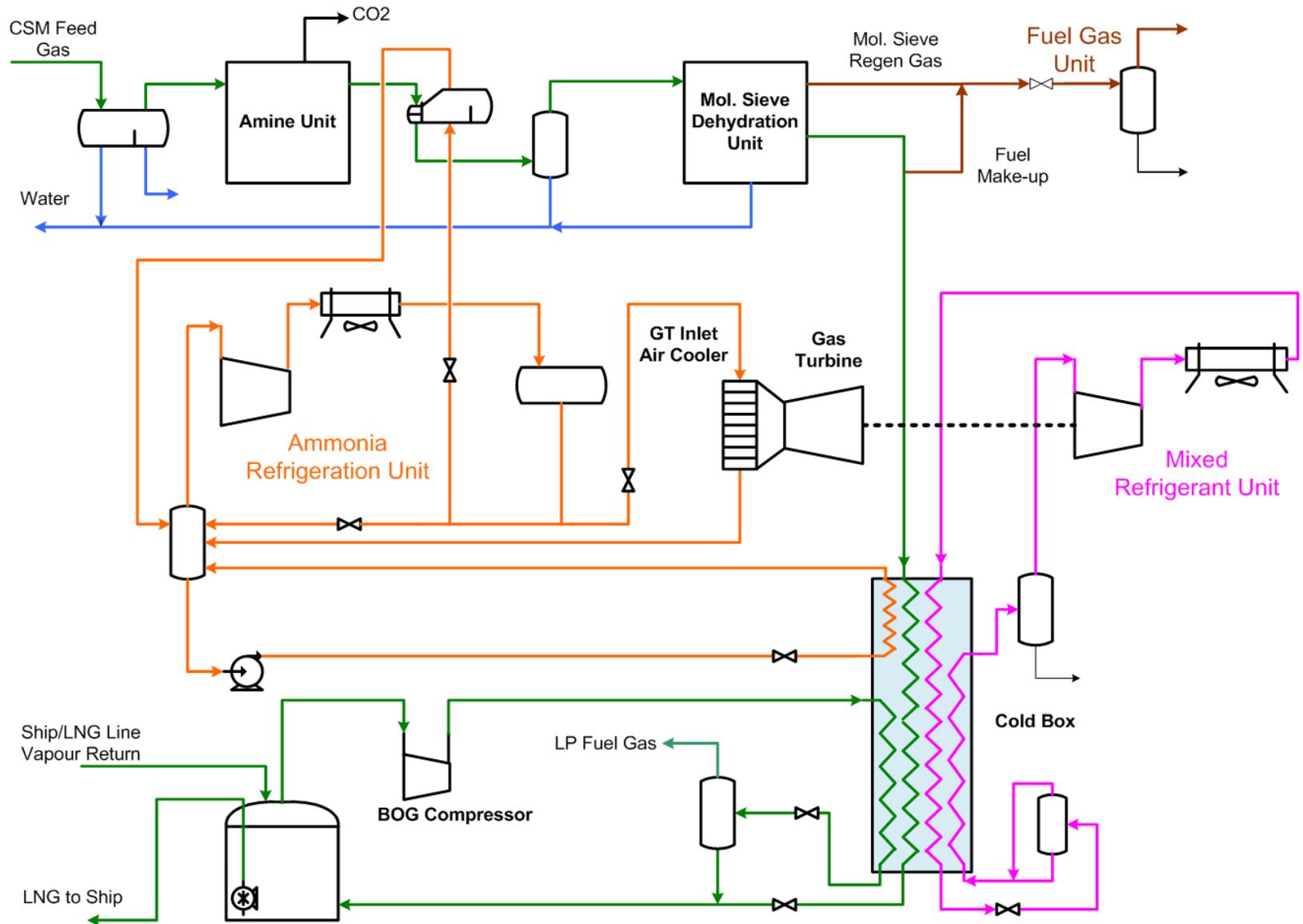
- **Mid Scale LNG Plants (1~3 mtpa)**
 - LNG Limited – **OSMR**[®] Process

- **Small Scale LNG Plants (< 1 mtpa)**
 - Black & Veatch - PRICO – SMR Process
 - Hamworthy - N₂ Expansion

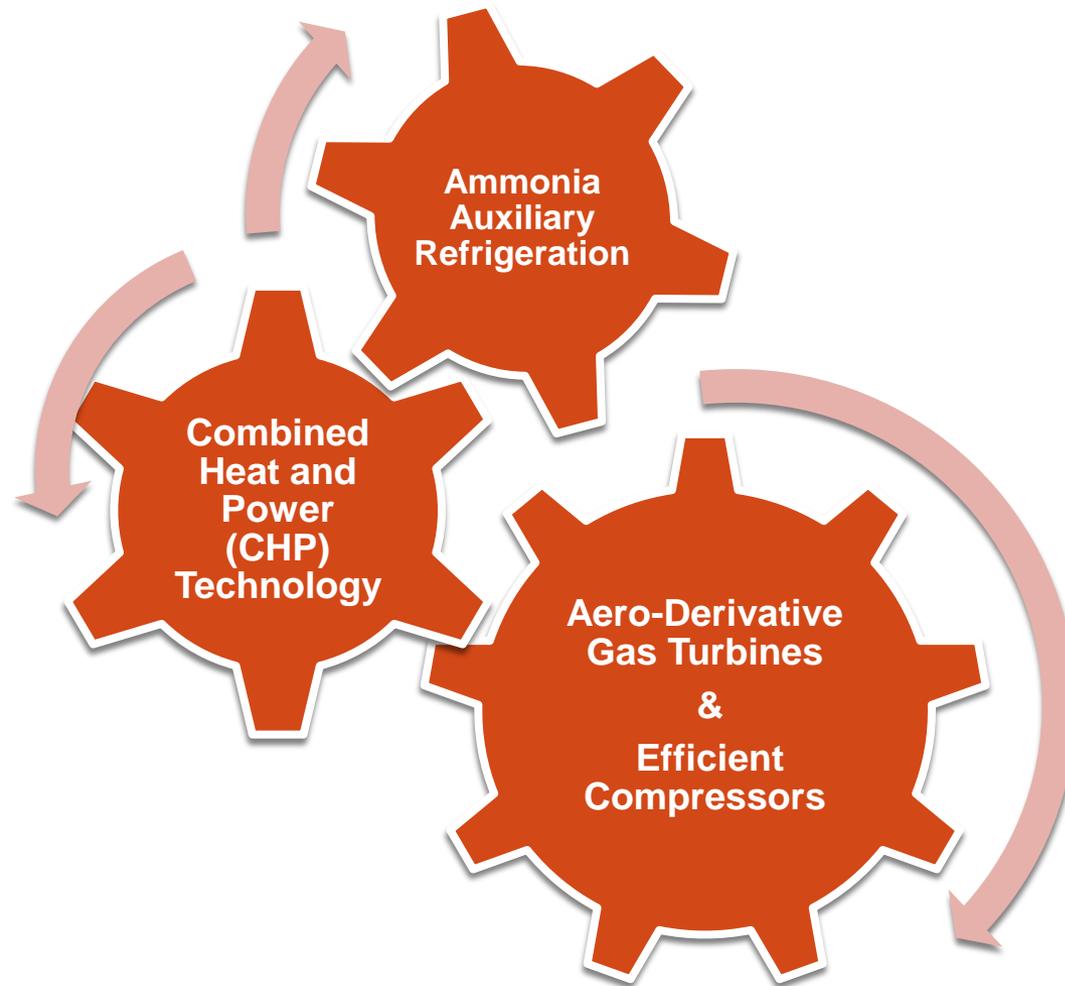
Liquefaction Technology Comparison



OSMR[®] Process Schematic



Main features of the OSMR[®] Process



*The OSMR[®] LNG plant fuel gas usage is < 7% , for a low inert - methane rich Feed gas.
This is 30% better than conventional LNG plants.*

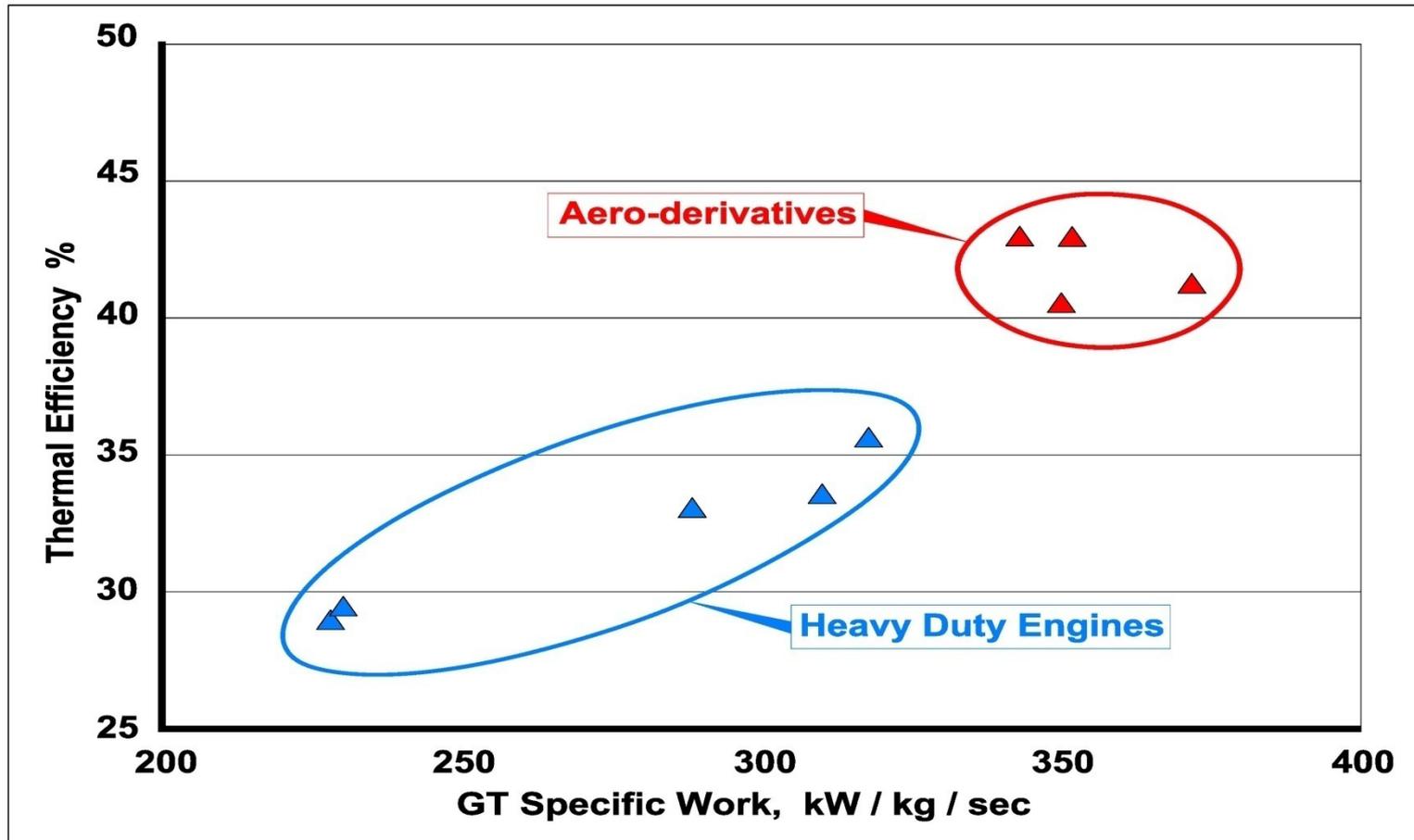
1. Aero-derivative Gas Turbines

- Improves fuel efficiency of gas turbine by 25%.
- No gear box, no helper motor, single-stage (no inter-stage cooler/scrubber).
- Smaller foot print and weight.
- Higher reliability and availability.
- Compact modular design reduces installation and commissioning time and ensures ease of maintenance.
- Aero-derivatives used in Darwin LNG Project in Australia and proposed for Floating LNG projects.

For OSMR 1.5 mtpa LNG Plant:

- Gas Turbine: 2 x GE PGT25+G4 (site rating: 33.5 MW)
- Compressor : 2 x GE BCL805 (polytrophic efficiency: 87.7%)

Thermal Efficiency vs. Specific Work of commonly used Frame drivers and Aero-derivative engines



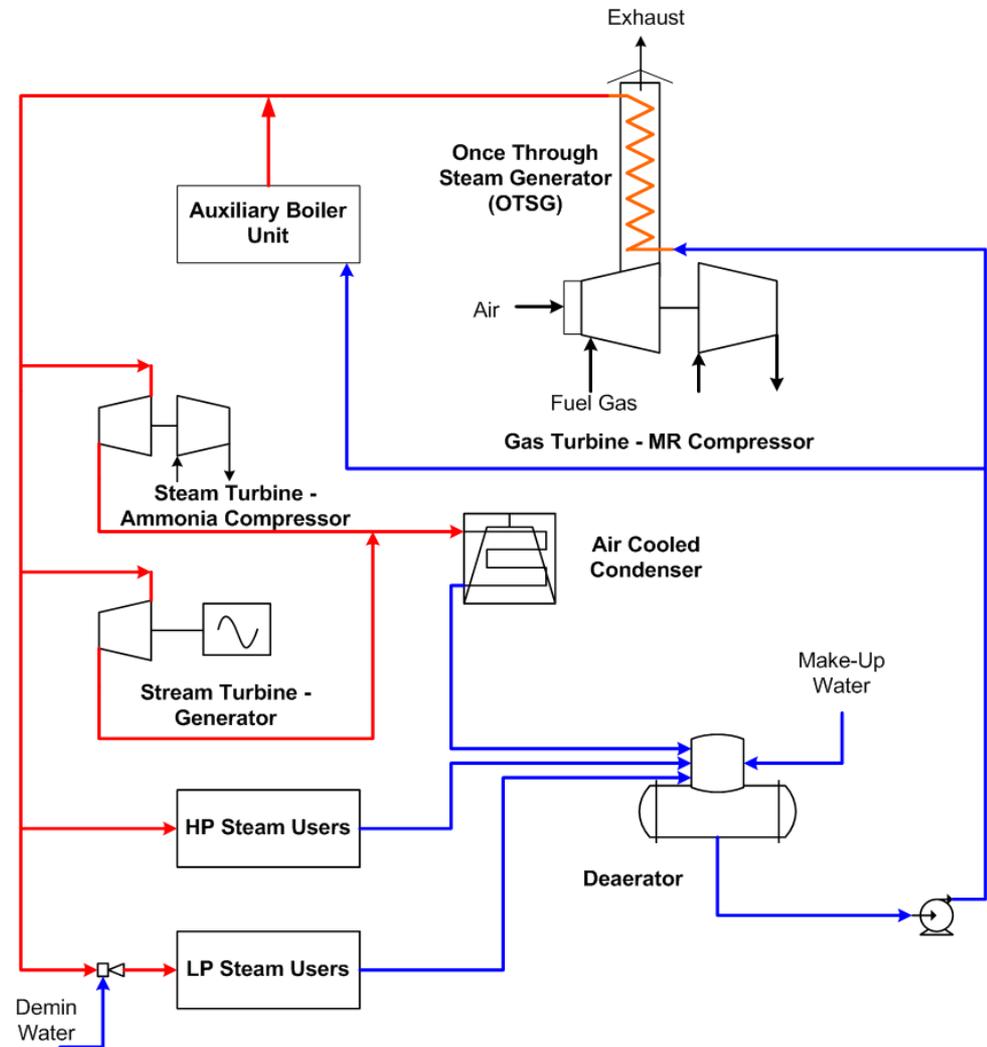
Based on Frame 5C, 5D, 7EA, and 9E frame type drivers and GE PGT25+, LM6000, RR 6761, and RR Trent aero-derivative units.

2. Combined Heat and Power (CHP) Plant

- Waste heat recovery using a OTSG from Gas Turbine exhausts.
- Steam Turbine drivers for Ammonia Refrigeration Compressors.
- Steam Turbine driven power generation.
- Process Steam for heating:
 - Amine re-boiler
 - Mol. Sieve regen gas heater
 - Fuel gas heater
- Auxiliary boiler - End Flash Gas utilized as fuel.

Steam Turbines for OSMR 1.5 mtpa LNG Plant:

- Ammonia Compressor: 2 x 7.5 MW
- Power Generator: 1 x 7.5 MWe

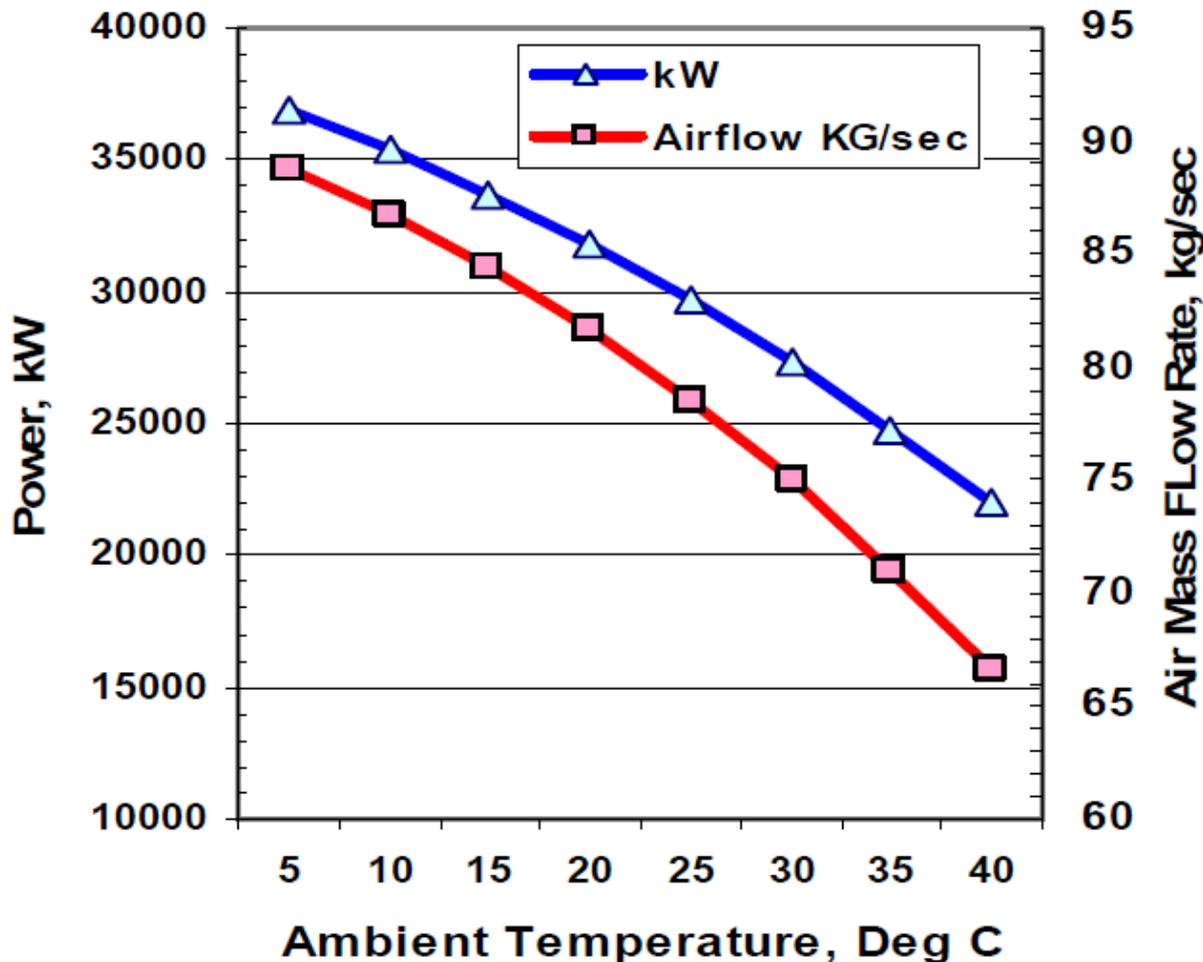


CHP plants have been used in the Power industry for several decades

3. Ammonia Auxiliary Refrigeration

- Ammonia is commonly used for,
 - Industrial and commercial refrigeration.
 - Direct inlet air cooling of gas turbines in power industry.
- In the OSMR[®] Process,
 - Refrigeration power is provided by CHP plant so is substantially “free”.
 - Cools MR and feed gas streams to increase LNG production by 20% - substantially “free”.
 - Direct Cooling of GT inlet air to improve GT power output by 15%.

The impact of ambient air temperature on the Gas Turbine LM2500 power.



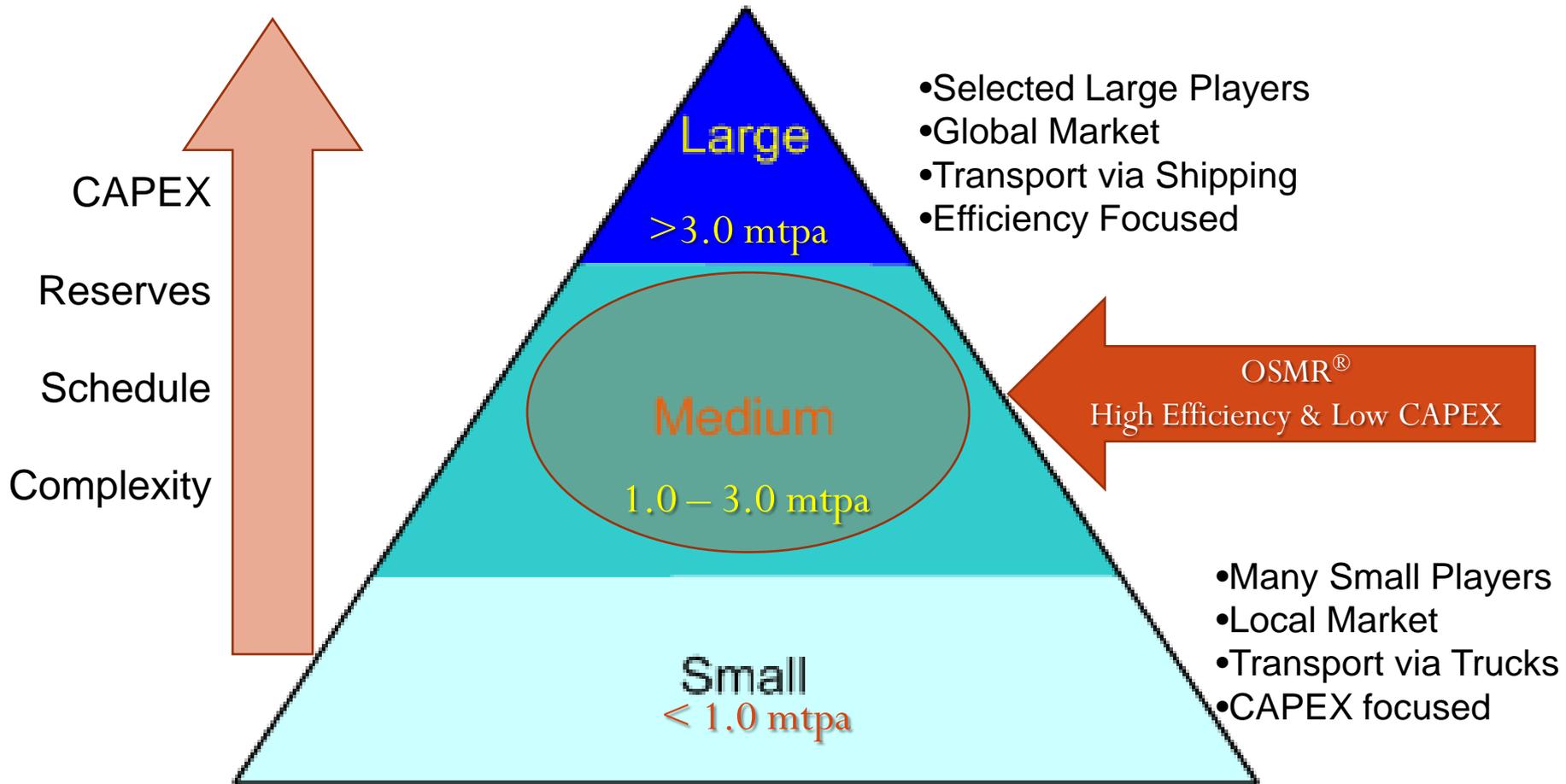
Why Ammonia?

- Higher latent heat allows smaller flow rates:

	Ammonia	Propane
Mass Flow Ratio	1.0	1.90
Volume Flow Ratio	1.0	1.30
Power Input	1.0	1.20

- Low swept volume in compressors, small piping and pumps.
- Higher heat transfer coefficients (twice as propane), reduces Cold Box and Condenser sizes.
- At $-5^{\circ}\text{C}/45^{\circ}\text{C}$, Ammonia has a higher Compression Co-efficient of Performance than Propane, requiring 20% less power.

LNG Plant Scale Economics



At mid-scale, the best features of the large and small scale LNG plants can be implemented.

LNG Limited: Current Project

Fisherman's Landing LNG, Gladstone, Australia.

- 1.5 mtpa x 2 Trains.
- Environmental and site approvals completed.
- FEED review with HQCEC.
- Gas Supply and LNG offtake agreements in progress.
- FID by December 2011.*
- First LNG Shipment July 2014 (30 months).

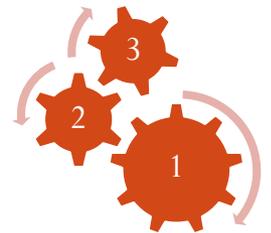
(* Subject to gas supply)

Similar Mid-Scale project feasibility work being carried out for various parts of Australia and around the world.



In Conclusion

- LNG Limited is an Australian mid-scale LNG developer and Technology provider.
- HQCEC (subsidiary of CNPC) has a shareholding of ~20% in LNG Limited.
- Main features of the OSMR[®] LNG technology,
 1. Aero-derivative Gas Turbines and Efficient compressors;
 2. Combined Heat and Power (CHP) Plant;
 3. Ammonia Auxiliary Refrigeration System.
- LNG Limited is currently working on FEED for its Fisherman's Landing Project, with HQCEC.



Disclaimer

The information in this presentation is not an offer or recommendation to purchase or subscribe for securities in Liquefied Natural Gas Limited (ASX:LNG) or to retain any securities currently being held. This presentation does not take into account the potential and current individual investment objectives or the financial situation of investors.

This presentation was prepared with due care and attention and the information contained herein is current at the date of the presentation.

This presentation contains forward looking statements that are subject to risk factors associated with the gas and energy industry. The expectations reflected in these statements are reasonable, but they may be affected by a range of variables that could cause actual results or trends to differ materially, including but not limited to: price and currency fluctuations, geotechnical factors, drilling and production results, development progress, operating results, reserve estimates, legislative, fiscal and regulatory developments, economic and financial markets conditions in various countries, approvals and cost estimates.



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