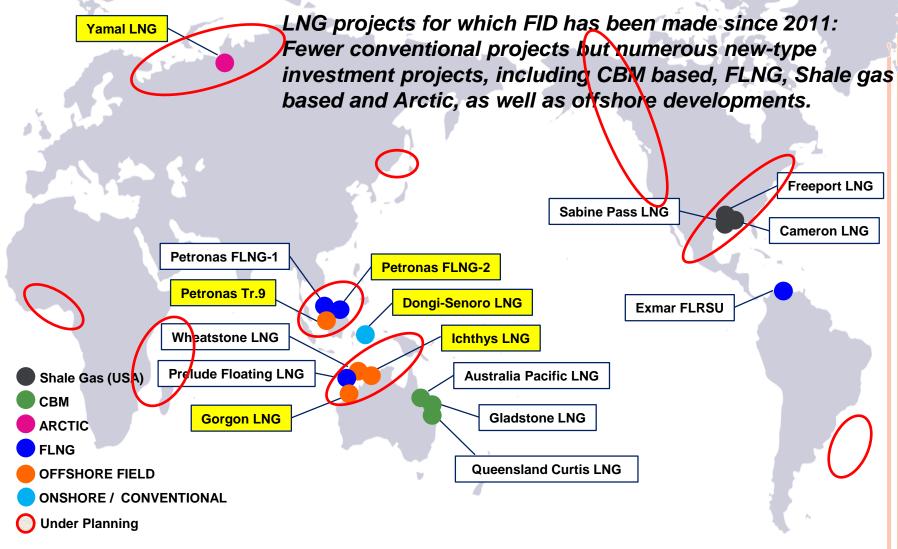




Koichi Kawana President & Representative Director JGC Corporation



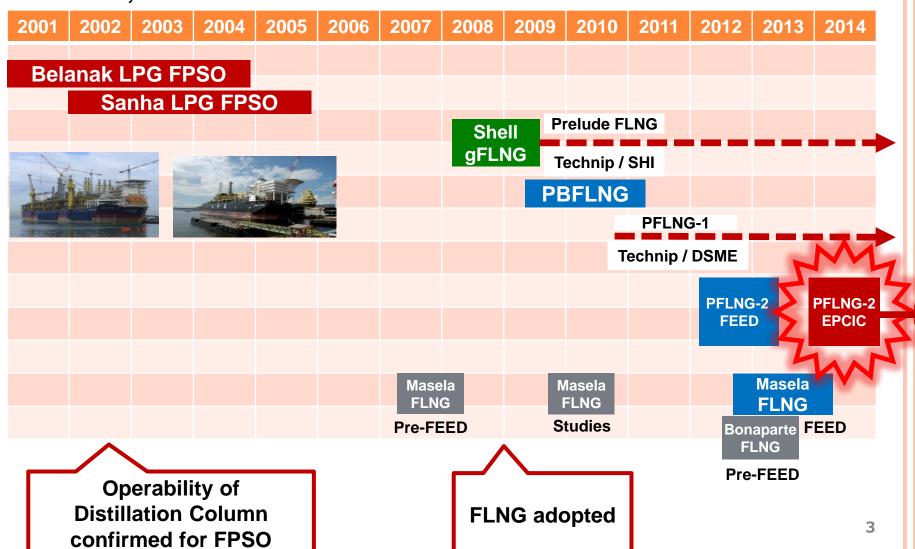
A Paradigm Change in LNG Business



JGC

JGC FPSO / FLNG Development

JGC started FLNG preliminary studies in the 90's. In early 2000, two (2) EPCICs of LPG FPSO were completed in which operation of distillation columns was confirmed. Since 2007, FLNG has been accelerated.





FLNG – Key Attractions

- Potential cost-effective solution for deep water gas extraction
- Potential alternative for onshore plant, to overcome labor issues, land limitation or geopolitical risks
- An effective approach for stranded offshore gas field development

3D Model of FLNG2 shown only on screen (not in handouts) due to confidentiality reasons.

FLNG: Increasing opportunities for gas monetization



FLNG - Challenges

- 1. Safety considerations
- 2. Pursuit of Cost Competitiveness
 - **Optimum Scale and Layout**
 - > Standardization of Vessel and Equipment
 - Involvement of wider range manufacturers
 - Flexibility of Ship and Module yards
 - Accumulation of knowledge from Lessons Learned
- 3. Project finance / Marine insurance

FLNG: Offers opportunity for higher commercial benefit to owners 5

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