



ARCTIC LNG 2

LNG Producer-Consumer Conference

Tokyo October 2017



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ARCTIC LNG INNOVATION



How to make potentially over 200 Tcf of gas resources in arctic conditions competitive on the LNG market?

How to pave the road to low Capex 600 USD/t?

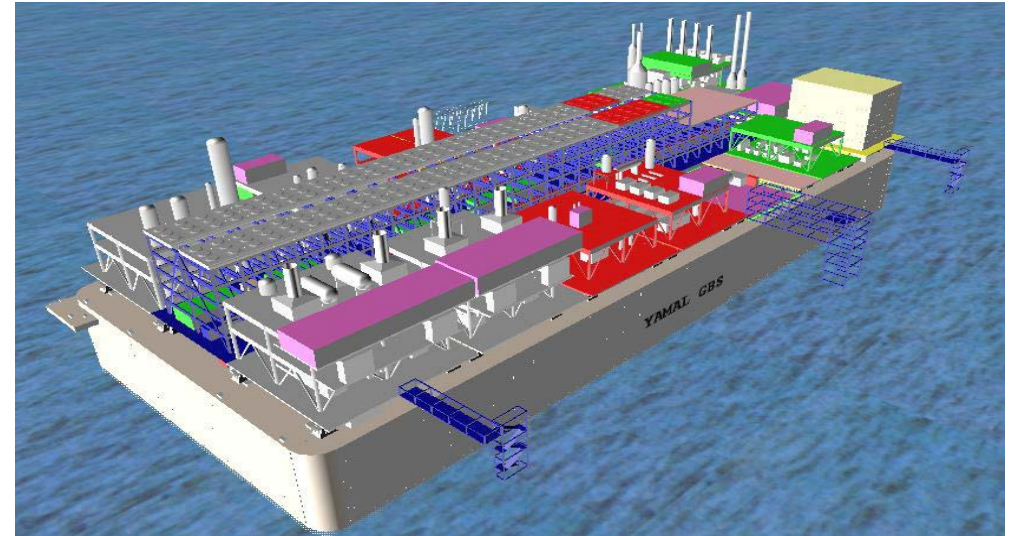
And start production in 2023-2024 for the 1 train of the 18 Mtpa LNG plant.

LNG PLANT GBS CONCEPT

Lessons Learnt led to

- Select standards that fit low Capex/t objective
- Deeper Engineering at FEED stage
- Involve as early as possible fabricators
- Minimize site works and footprint => offshore
- Maximize Russian / Local content when cost effective to minimize logistic costs
- Optimum packaging of contracts to benefit from market conditions
- Use of technology coming from nearby industries best fitted for LNG plants

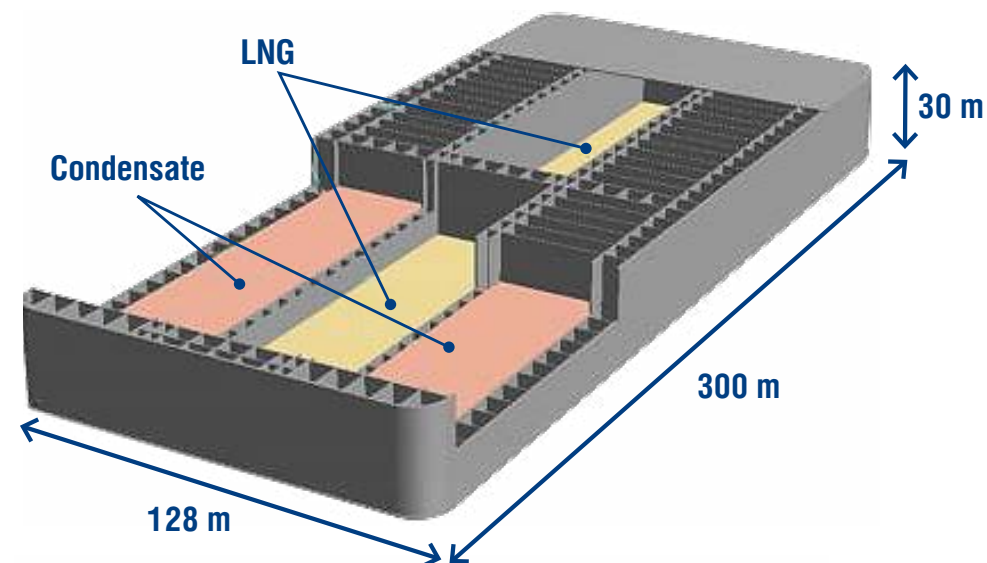
Optimum repeatable concept = LNG plant on GBS



LNG PLANT GBS CONCEPT

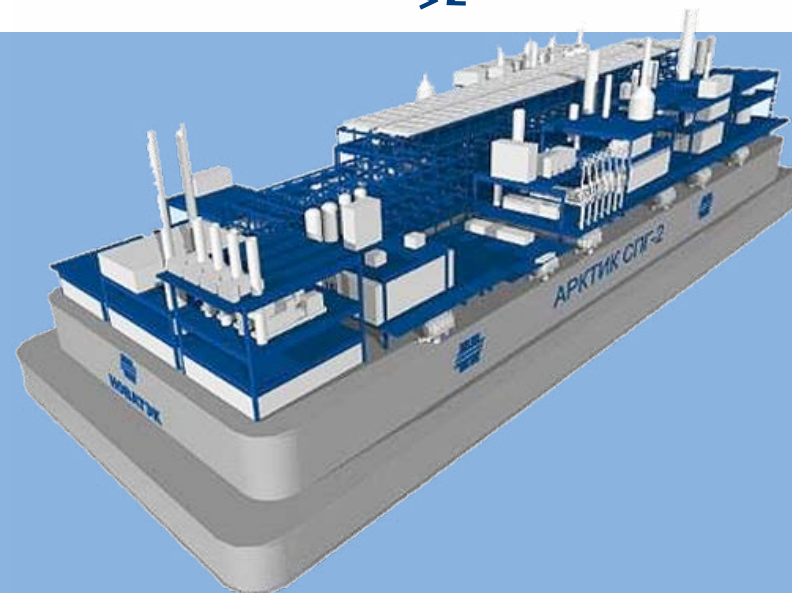
3 LNG trains of more than 6 Mtpa

- Production, storage and loading on GBS
- Site with space to locate a further 2 to 3 trains
- Concept is easily adaptable to other locations



For each LNG train:

- GBS size 300 x 152 m
- GBS weight 400 000 t
- Topsides weight 120 000 t
- LNG tanks 230 000 m³³
- LGC tanks 75 000 m³
- MFC Linde technology, air cooling
- Aeroderivative GT drives 4x55 MW + 3 GT for power plant (165 Mw) located on GBS





KOLA YARD – KEY FACILITIES

Partnering strategy allowing to reach optimum productivity as soon as possible

