



The Future of LNG in Russia:

Gas Export Options of the Russian Companies. Local LNG Consumption & Demand

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Produce gas - think about creating market!

Pipeline gas



Auto LNG



«Large» LNG



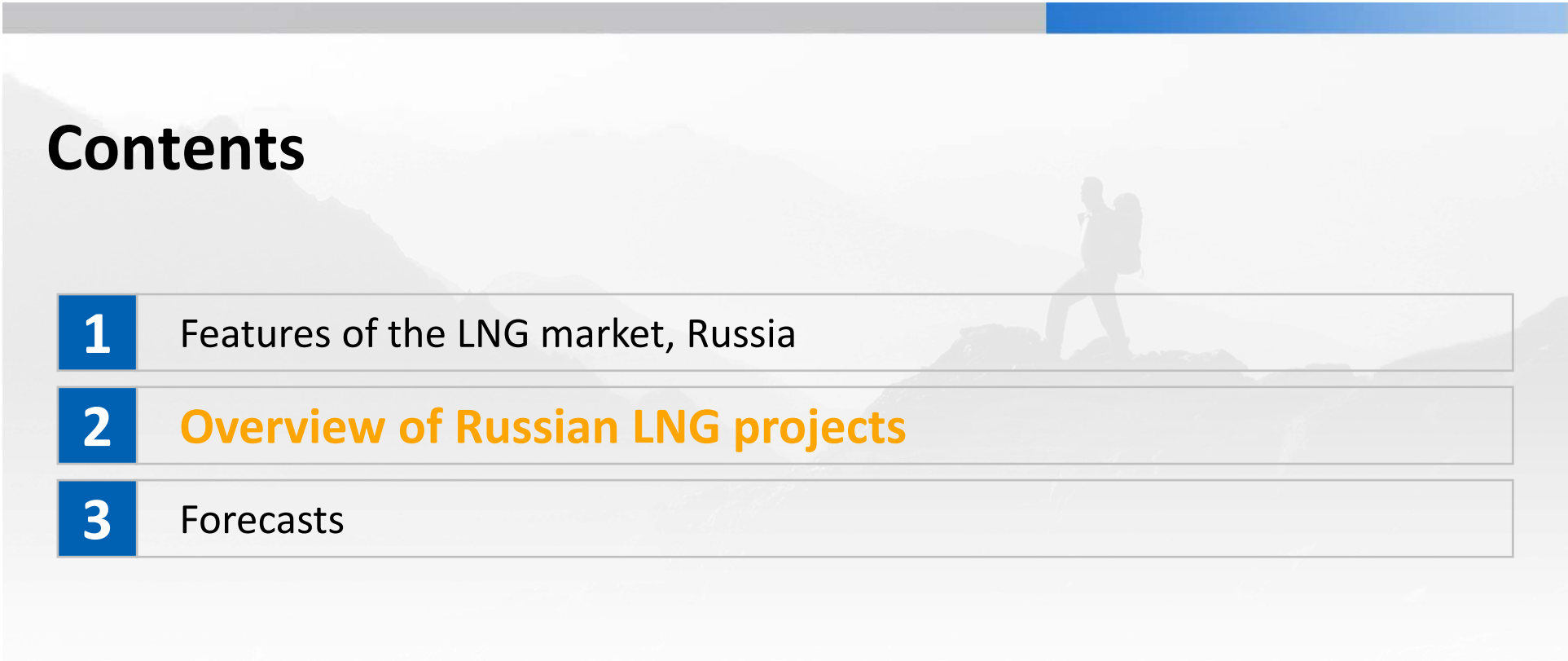
Gasification
by LNG

Legislative restrictions on gas exports

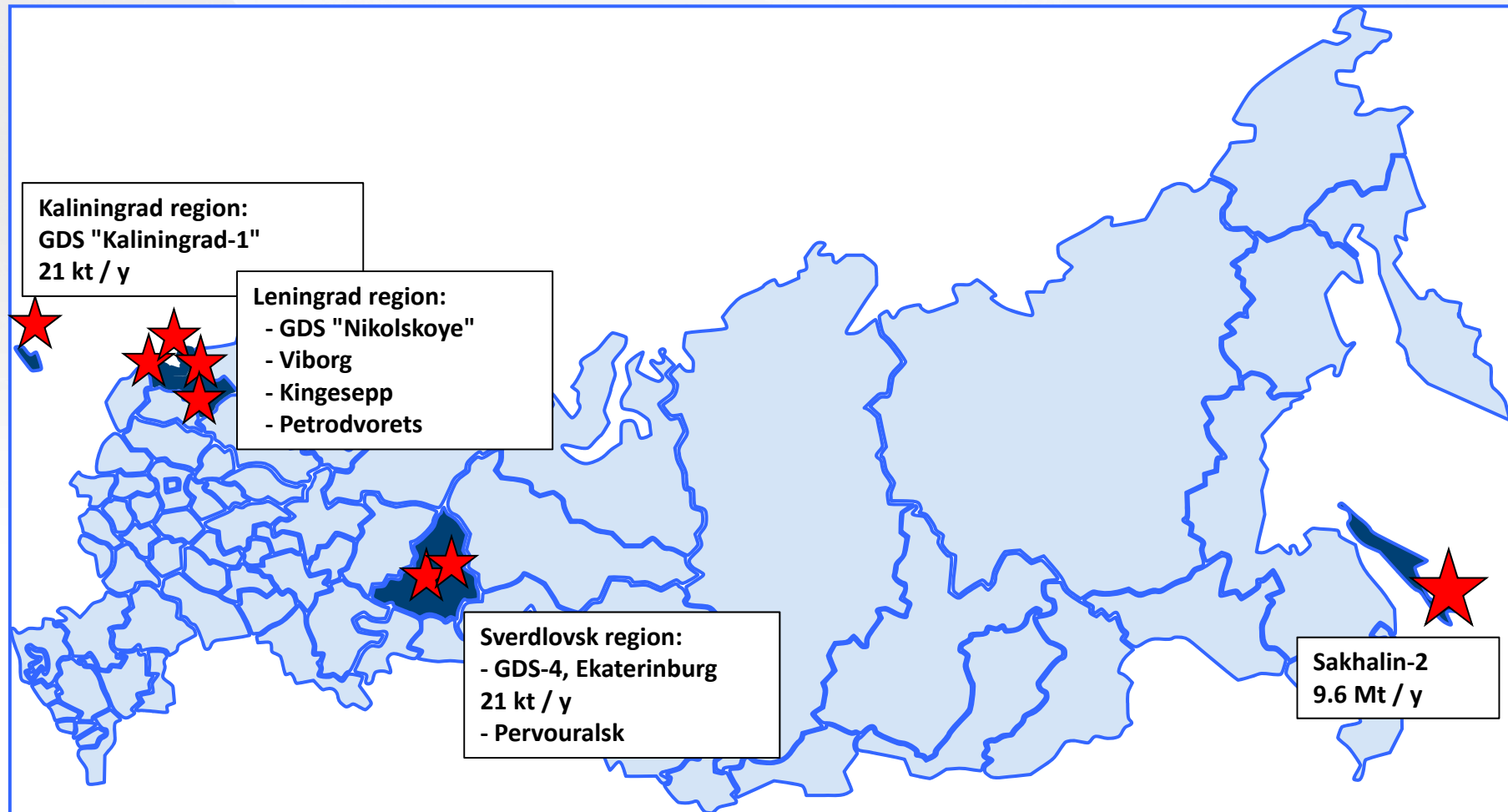
Who has the right to export LNG from Russia (RF Law "On Gas Export"):

- 1) UGS owner and its 100% subsidiary company (Gazprom and Gazexport)
- 2) Companies developing “federal” subsoil, which have received licenses before 01.01.2013 and these licenses demanded production of LNG (NOVATEK)
- 3) State-owned companies (State share more than 50%), developing marine subsoil, produced and liquefied the gas or gas produced under the PSA (Rosneft, ...? Zarubezhneft)

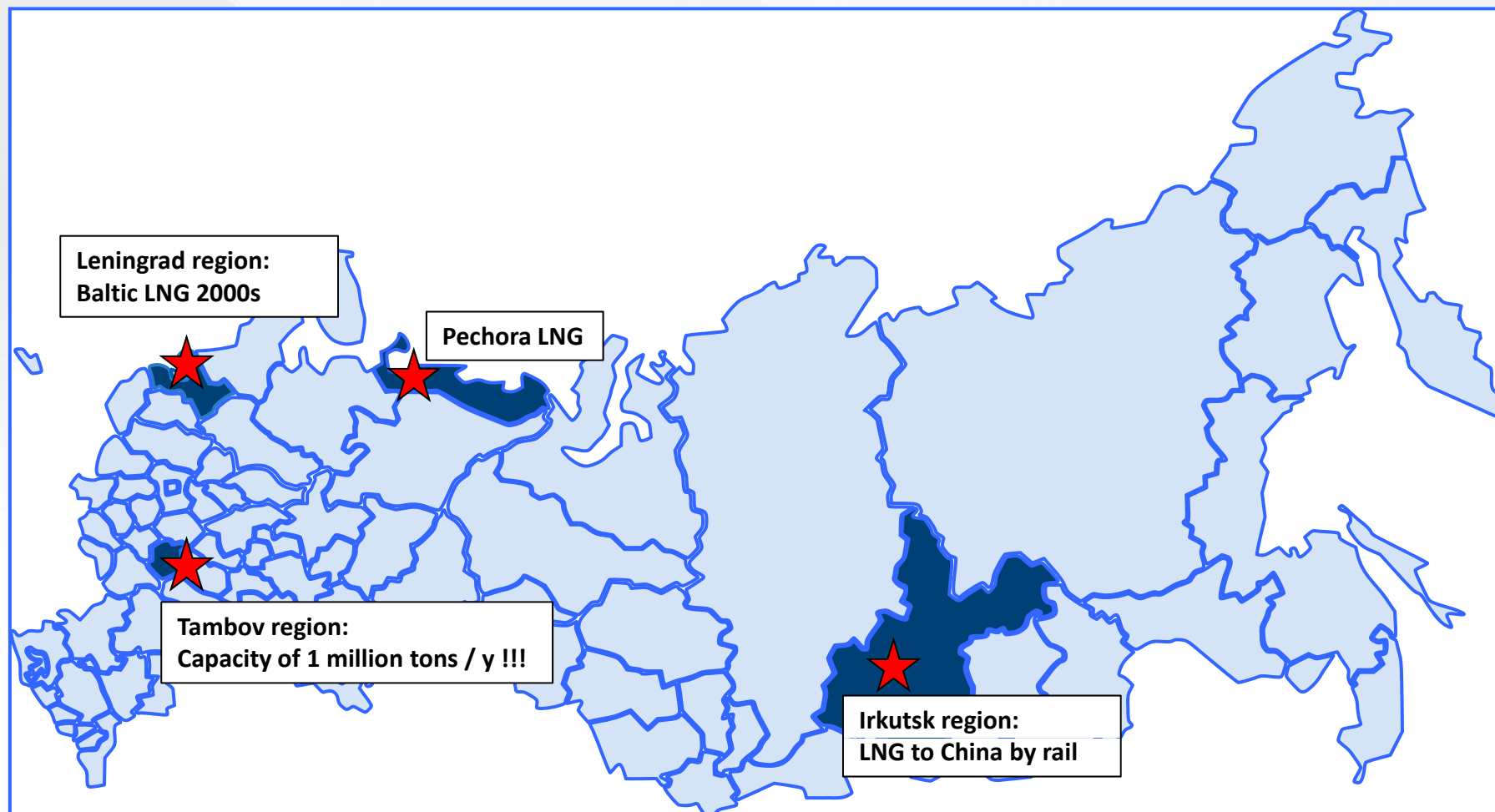
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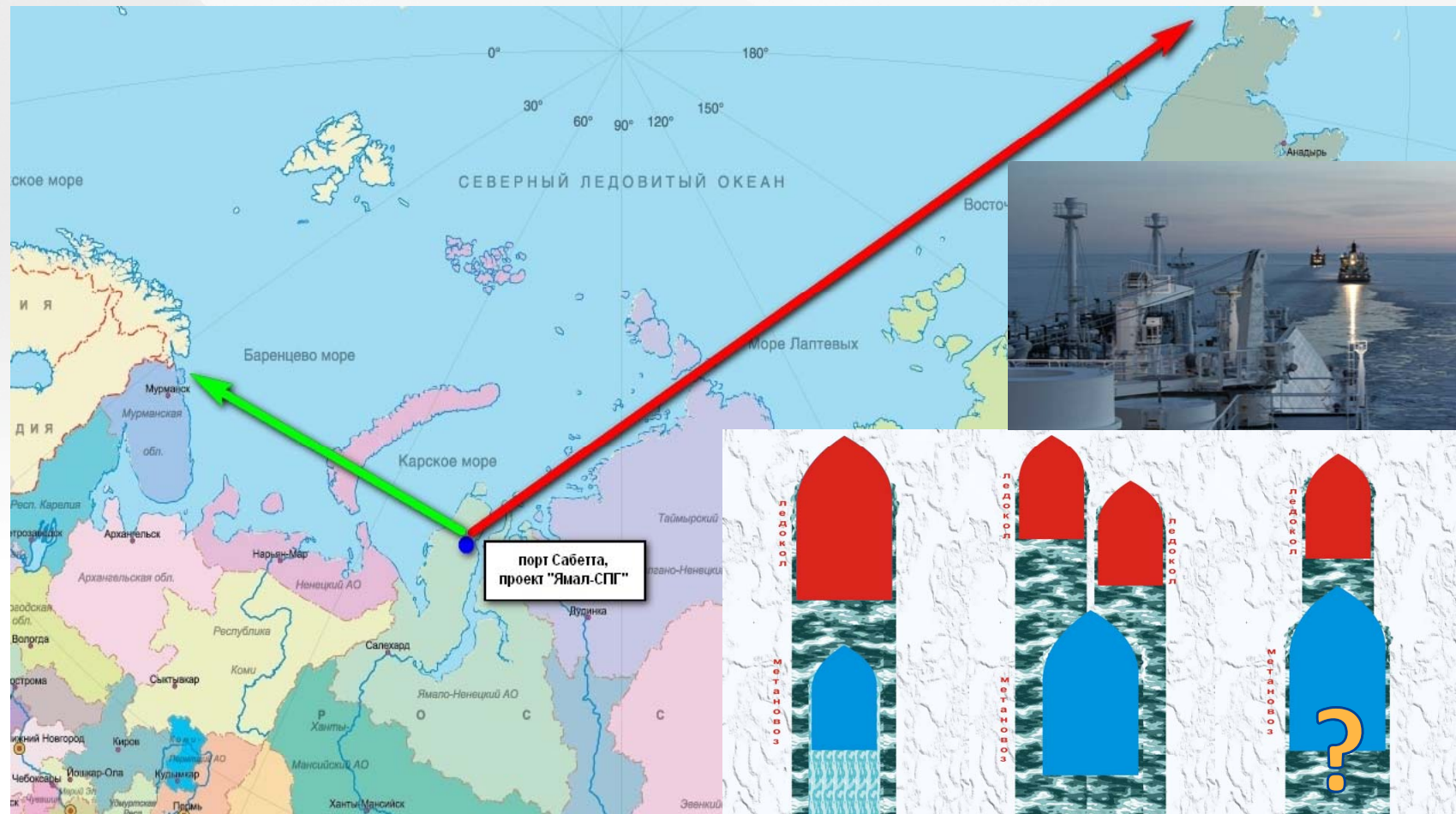
Existing LNG projects in Russia



"Cloud" LNG projects



Yamal LNG - transportation problems



- Methane carriers to be built with capacity of nearly 150,000 tons of ice class Arc7
- Such methane carriers may require icebreaking support during 3-winter-spring months to overcome the pack ice

Yamal LNG (continued)



- + Support of the State:
 - port and fairway
 - icebreakers and infrastructure NSR
 - zero export duty
 - permission to export LNG
 - SUPPORT ...

+ The shareholders

+ Resource base

+ Advanced stage of the project

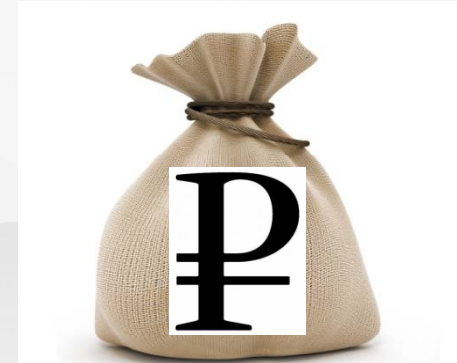


- Climatic and geographic conditions
- The need to create an integrated infrastructure (in addition to gas production, liquefaction plant and marine terminal shipping):
 - airfield
 - universal Port
 - ...
- Transportation problems

Far East - "large" LNG projects in development

Vladivostok LNG (Gazprom)

- + Presence of pipeline
- Resource base
- The presence of external (Sakhalin-1) and internal (Sakhalin-2) competitive projects
- Lack of experience in implementing projects of LNG from Gazprom



Sakhalin-1 (Rosneft + ExxonMobil)

Sakhalin-2 (Gazprom + Shell)

What they say - "small and medium" LNG



- Gazprom
- Gazprom gas fuel
- Gazprom gasenergoset

- Gazprombank (Kriogas)
- NOVATEK

- Shell
- RUMO
- ?Rosneft

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Short list for 10 years (until 2024):

"Large" LNG

- + Yamal LNG (*and wish them good luck!*)
- + 1.5-2 new LNG plants in the Far East
(Vladivostok LNG / Sakhalin-2 / Sakhalin-1)
- +? Shtockman
- + Baltic LNG

"Small" LNG

- + 1-2 mining companies
- + Some examples of local gasification LNG (x10n)
- +? rail transport

We do not expect more results and mass introduction of "small" LNG

Thank for your attention!

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