



# Russia in the Global LNG Market: Strategic View

**Alexey Gromov**

**Principal Director on Energy Studies,  
Institute for Energy and Finance (IEF)**

4<sup>th</sup> Annual Congress and Exhibition “LNG Russia Congress 2017”

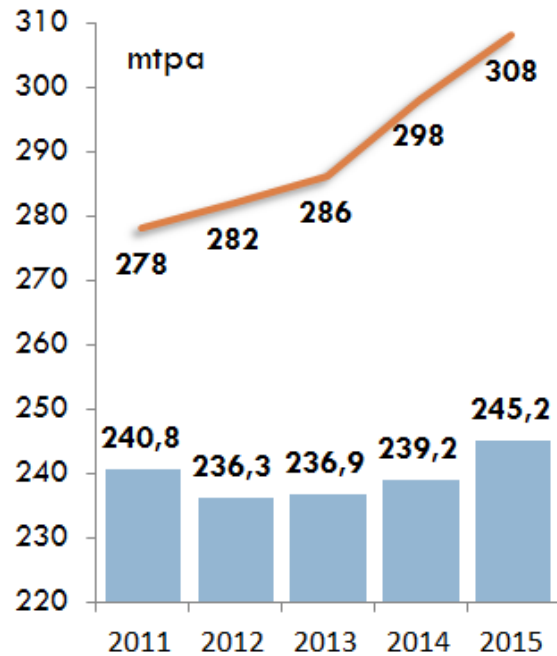
Moscow, March 16, 2017

# Key LNG Market Trends

2

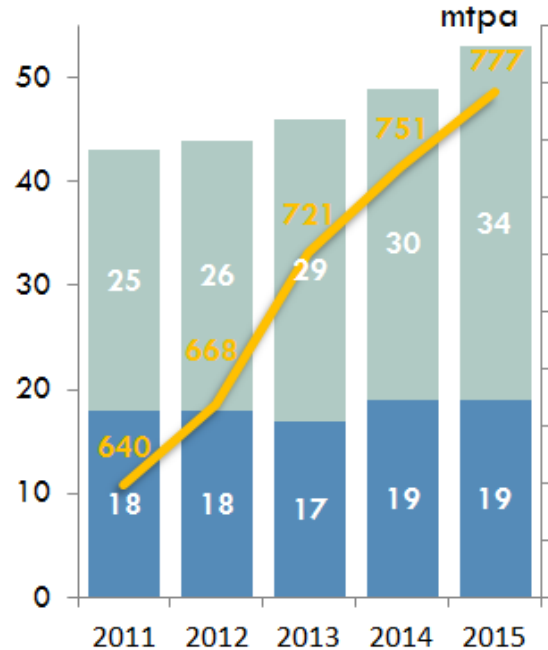
### Global LNG trade

World trade  
World liquefaction capacity



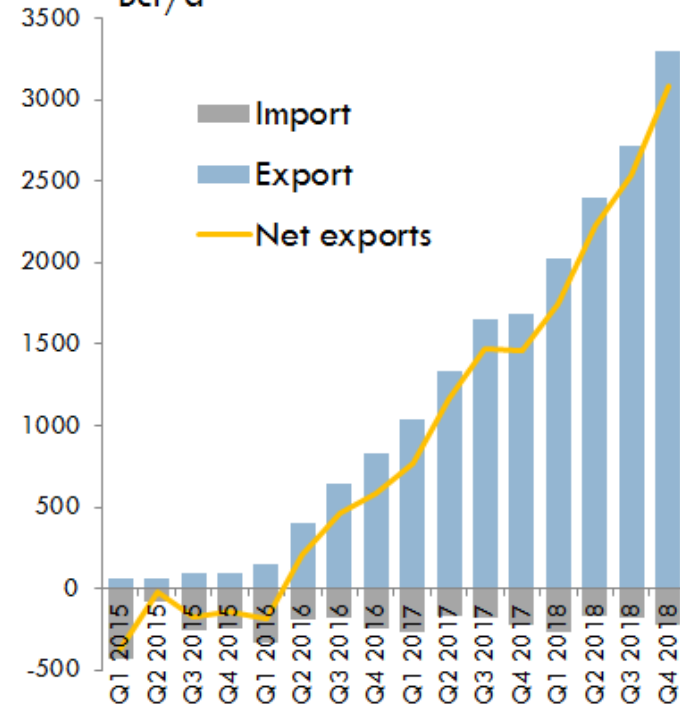
### LNG trade participants

Importing countries  
Exporting countries  
World regasification capacity



### US LNG trade, 2015-2018

Bcf/d

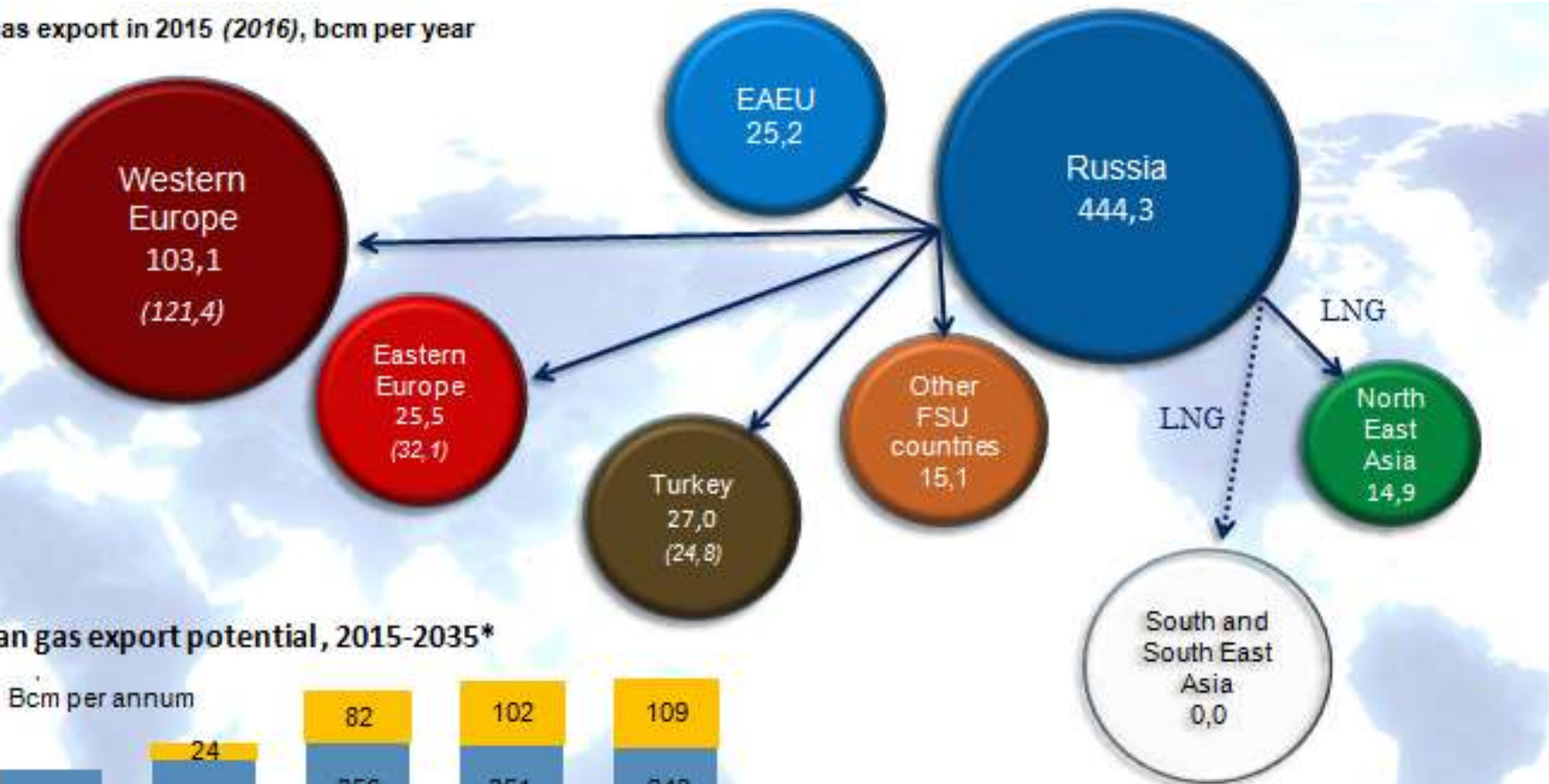


- In 2015-2016 world LNG trade has emerged from a long period of stagnation
- The share of a spot or short-term contracts in global LNG trade has grown very slowly – from 25,4% in 2011 to 28% in 2015
- The key LNG market remains Asia (72%), the key importer - Qatar (32% of global LNG trade in 2015)
- The main game changer is starting of LNG export from the USA

# The Geography of the Russian Gas Export

3

Russian gas export in 2015 (2016), bcm per year



Russian gas export potential, 2015-2035\*

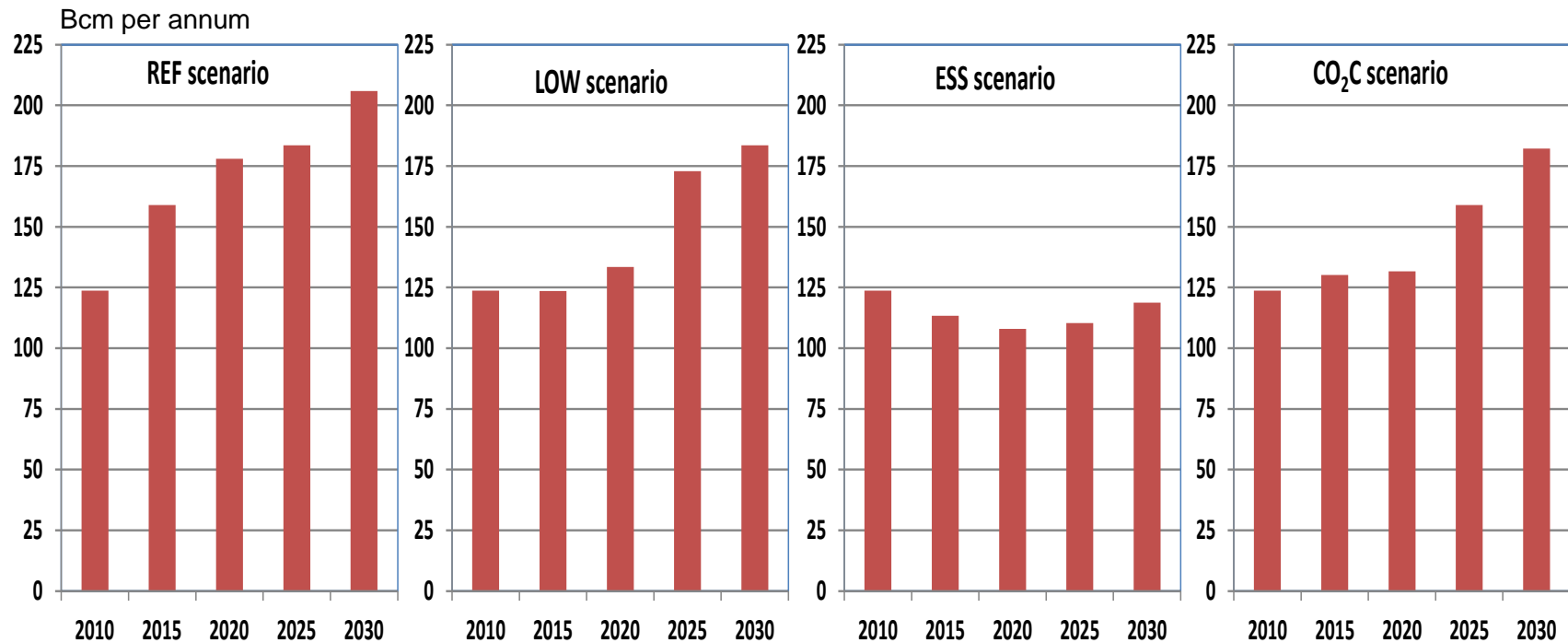


\* Based on the draft of the Energy Strategy of Russia till 2035

# EU-28 Will Remain a Key Buyer for Russian Gas until 2030

4

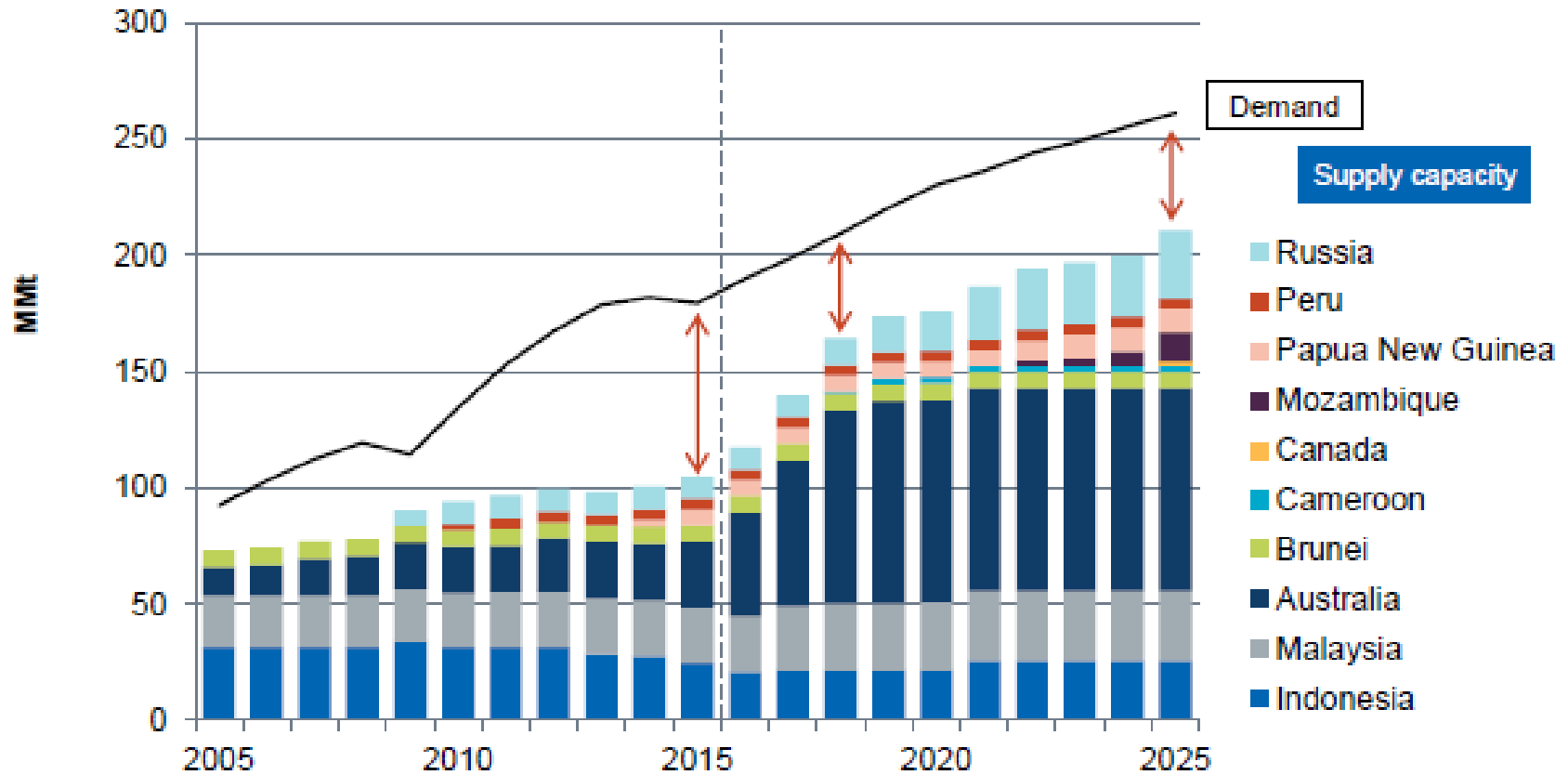
Russian gas import profiles in the EU-28 (different scenarios)



- ❖ Russian gas supplies in the EU mix do not decline by 2030 in any of the scenarios (assuming reasonable price policy)

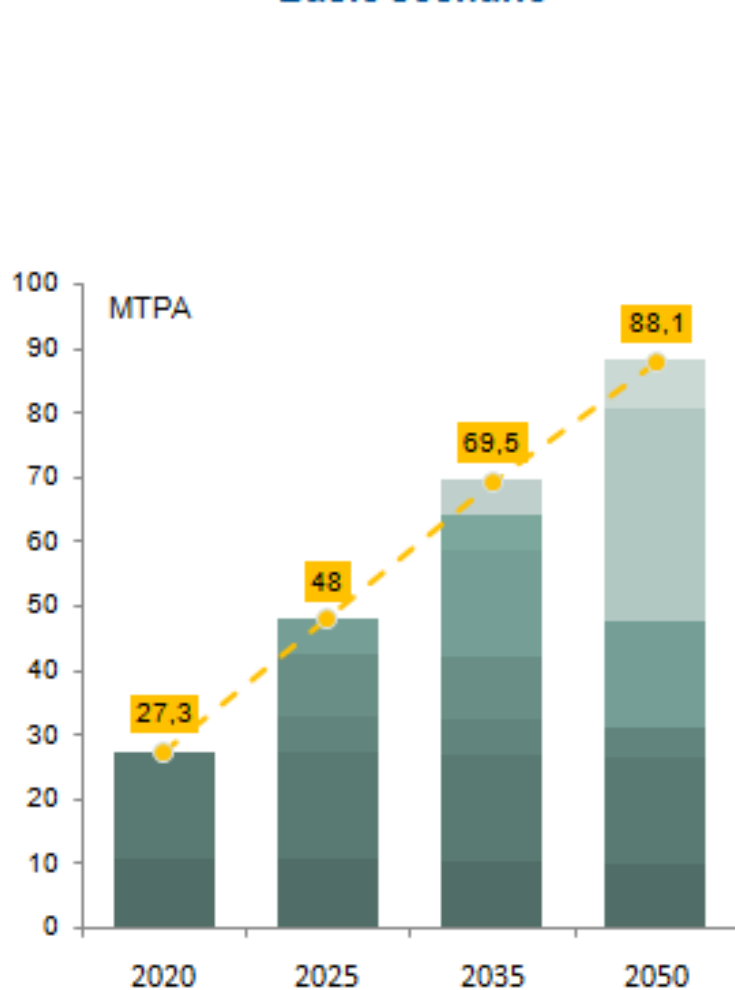
# Asia-Pacific Is a Core Region for Russian LNG Development

5

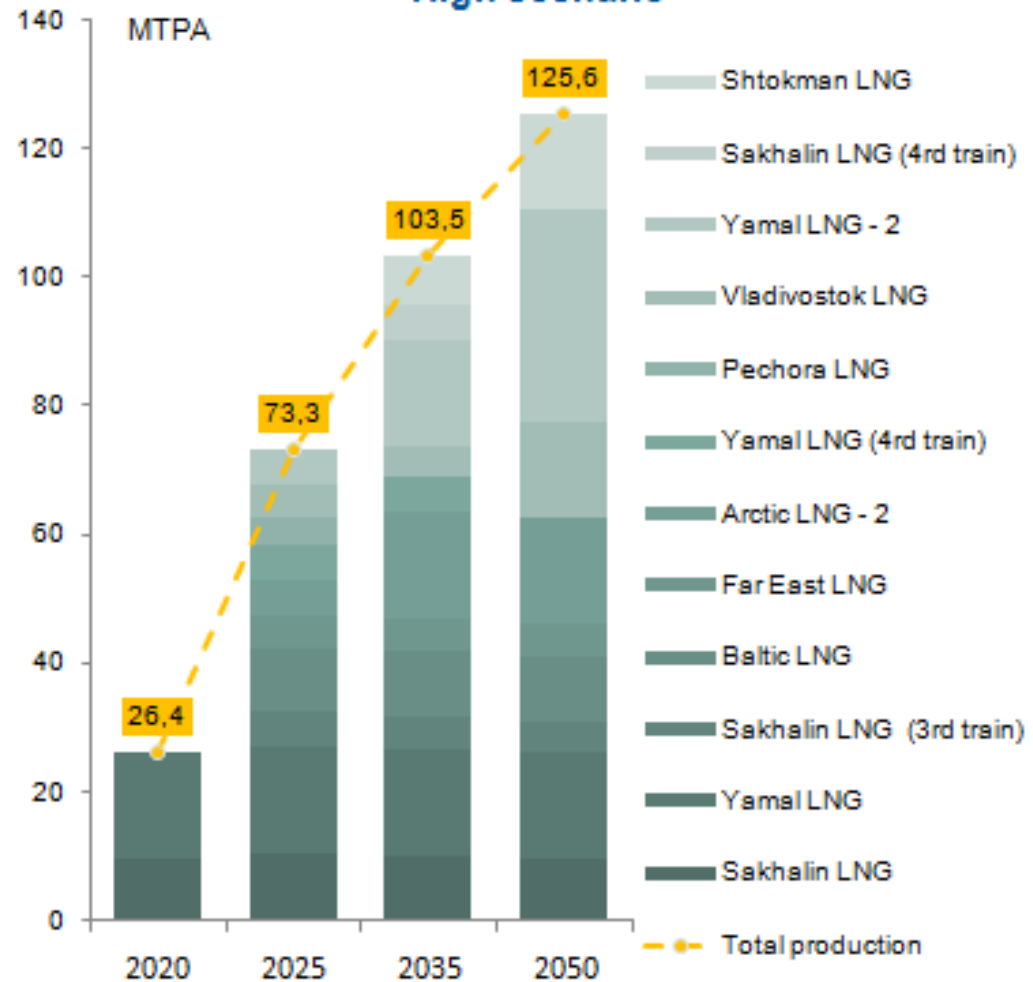


# Russian LNG Production Forecast

## Basic scenario



## High scenario



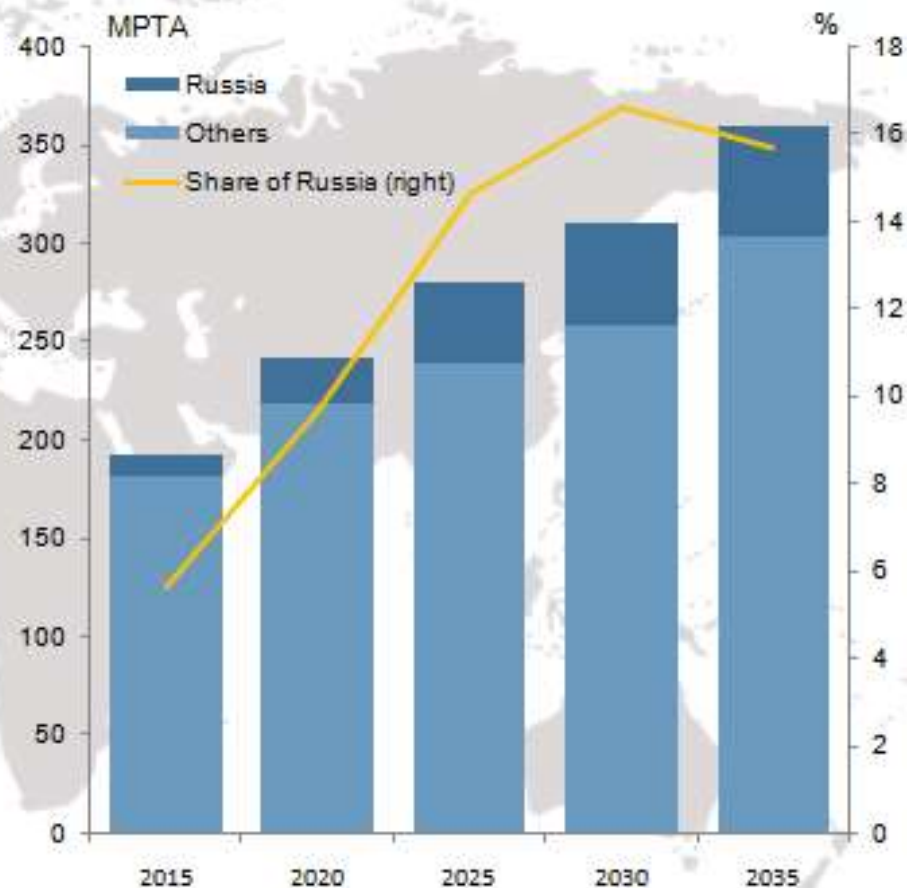
# Targets for Russian LNG in the Global LNG Market and Asia-Pacific LNG Market

7

## World LNG market



## Asian LNG market



# Russian LNG projects (1)

8

No	Project	Participants	Project capacity, MTPA	Resource base	Commissioning	Challenges
<b>Current</b>						
1	Sakhalin LNG	Gazprom, Shell, Mitsui, Mitsubishi	10 -11 (≥5×2)	Piltun-Astokhskoye, Lunskoye fields	2009	No
<b>Under construction</b>						
2	Yamal LNG	NOVATEK, Total, CNPC, Silk Road Fund	16,5 (5,5×3)	South Tambey field	1 <sup>st</sup> phase - 2017 2 <sup>st</sup> phase - 2018 3 <sup>st</sup> phase - 2019	No
<b>Planned</b>						
3	Sakhalin LNG (3 <sup>rd</sup> train)	Gazprom, Shell, Mitsui, Mitsubishi	5-5,5	Sakhalin-2	≥ 2021 (FID – 2018)	<ul style="list-style-type: none"> <li>• competition with pipeline supplies for limited resource base</li> </ul>
4	Baltic LNG	Gazprom (+Shell?)	10	Yamal region fields	≥ 2021	<ul style="list-style-type: none"> <li>• EU market orientation</li> </ul>
5	Far East LNG	Rosneft, ExxonMobil, Sodeco, ONGC	5-10	Sakhalin-1	≥ 2023	<ul style="list-style-type: none"> <li>• it's possible to sell pipeline gas to Gazprom</li> </ul>
6	Arctic LNG - 2	NOVATEK	16,5 (5,5×3)	Utrenneye and Geofizicheskoye fields	≥ 2025	<ul style="list-style-type: none"> <li>• access to technologies</li> <li>• unclear production cost</li> </ul>



## Russian LNG Projects (2)

9

Nº	Project	Participants	Project capacity, MTPA	Resource base	Commissioning	Challenges
<b>Low expected</b>						
7	Yamal LNG (4 <sup>rd</sup> train)	NOVATEK, Total, CNPC, Silk Road Fund	5,5	South Tambey field	≥ 2022	<ul style="list-style-type: none"> <li>limited resource base</li> </ul>
8	Pechora LNG	Rosneft, ALLTECH	4,3	Kumzhinskoye, Korovinskoye fields	≥ 2020	<ul style="list-style-type: none"> <li>no right to export</li> <li>small resource base</li> </ul>
9	Vladivostok LNG (Sakhalin-1)	Gazprom	10	'Power of Siberia'	≥ 2022	<ul style="list-style-type: none"> <li>low priority project</li> <li>high cost of pipeline transportation</li> </ul>
10	Yamal LNG - 2	Gazprom, NOVATEK	≤33	Tambey gas fields group	≥ 2025	<ul style="list-style-type: none"> <li>low commercial interest for Gazprom</li> </ul>
11	Sakhalin LNG (4 <sup>rd</sup> train)	Gazprom	5-5,5	Sakhalin-3	≥ 2025	<ul style="list-style-type: none"> <li>uncertainty of resource base</li> </ul>
12	Shtokman LNG	Gazprom	≥7,5	Shtokman field	≥ 2028	<ul style="list-style-type: none"> <li>high production cost</li> <li>access to technologies</li> </ul>

## Key conclusions

10

- A rapid worldwide expansion of LNG helps to support global gas consumption
- Key new global LNG market drivers are:
  - floating storage regasification units (FSRU)
  - small scale LNG and transport
  - shorter-term contracts
  - lower volume contracts
  - contracts with greater degrees of flexibility
- Expected LNG overproduction crisis in 2018-2023 is temporary and does not defining for the long-term strategies of exporting countries, inc. Russia
- The era of large-scale pipeline construction projects in Eurasia will be completed by mid 2020-ies. Almost all of the new Russian gas export volumes after this period will be in the form of LNG.
- Russian export gas strategy since 2025 is completely LNG-oriented