Russia - Japan Power Bridge: Rosneft Role and Capabilities

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Chairman of Rosneft Management Board

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### Shale oil changes the structure of global production and export flows





- Oil import to Asia-Pacific is steadily growing. At the same time, oil import to Europe and the USA is decreasing due to decline in consumption and own production growth, respectively
- The share of Asia Pacific region in the global oil import has grown from 37% to nearly 50% in 2002-2014

Oil production forecast by different types of reserves



- Global oil production is expected to grow by more than 20% to 5,1 bln t by 2030
- The share of oil production from offshore fields, oil sand and hard to recover oil resources will reach up to 50% in the global output by 2045

# Oil price hedging and loan availability for the American shale companies by 2017





- Hedging stops being an important source of liquidity for the shale companies
- Getting loans from banks for the specific fields (RBL Reserve Based Lending) is one of the key reasons for the shale companies "survivability»; this kind of loans can be renewed and extended on the back of pledging proven reserves
- RBL is the only chance for the small and medium-size companies to raise necessary funds to maintain the business; this financing structure will be efficient in low oil price environment until at least 2017





<sup>\*</sup> the chart shows three-month moving averages of production and export volumes Sources: Baker Hughes, JODI

### Expected changes in global oil production and greenfield costs





Cost analysis for c. 75% of new oil output expected by 2030 (around 33 mmbpd) demonstrates that only 3 mmbpd of production might be break-even at more than \$85-98/bbl. The costs for the rest of the output is unlikely to exceed \$75/bbl in 2015 prices

#### Russian logistical advantages as an oil supplier to Japan





#### The potential for Russia/Japan partnership is huge





\*according to «Energy Study 2014. Reserves, Resources and Availability of Energy Resources» (BGR) Sources: Rosneft, Petroleum Association of Japan, trademap.org

#### Russian oil sector demonstrates sustainable improvements





- Russian crude oil production, as well as export volumes keep growing
- Russian petroleum product export was up considerably (by 5.7%) in January-July 2015



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#### The oil industry investment cuts





According to Rystad Energy study, global exploration and production costs will be cut by \$200 bln in 2015

Total capex will be reduced by almost 20% with investments into new projects declining by 40%

#### Power Bridge Russia - Japan: resource and infrastructure channel





#### Potential annual volumes of energy resources supply:

- Crude oil up to 25 mmt
- Refining and petrochemical products – up to 5 mmt
- LNG up to 12 mmt

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- Power sustain up to 3 GW
- Electric power supply up to 20 bln kW\*h

Potential investment capacity – up to \$100 bln

#### Russia's share in import of energy resources to Japan and FEPCO project





- Supplies of oil, gas and coal from Russia to Japan were growing steadily in the recent years, reaching 8-9% of Japanese import volumes in 2014
- Share of Russian petroleum products returned to 7% of Japan import after considerable jump in 2008-2010

## FEPCO Project — high-tech refining and petrochemical complex

- FEPCO is located near major markets (Primorsky Krai more than 50% of the demand for fuel in Far Eastern Federal District; Asia-Pacific)
- Phase 1: oil refining 12 mmtpa
- Phase 2: petrochemical capacity 3.4 mmtpa
- Production of motor fuel:
  - Phases 1, 2 **8.5 mmtpa**
- Petrochemicals output:
  - Phases 1, 2 3.0 mmtpa
- Status of the project preparation of design documentation for Phases 1 and 2 of the project, engineering surveys. Work completion in 2016
- Cooperation opportunities attracting a partner into the project

## Technological cooperation and localization of production on the example of Zvezda shipyard



	Construction of a united ship-building complex located in bays Big Rock and Five Hunters			
	1st phase of construction 2012 – 2019 in Big Rock bay	Medium capacity shipbuilding sites		7
	2nd phase of 2018 – 2022 construction in Big Rock bay	Large capacity shipbuilding site	Big R Rosi	ock neft
	3rd phase of construction 2021 – 2024 in Five Hunters bay	Offshore shipbuilding site	100 - 50 -	
	Project cost: 145.5 bln rubles Key customers of the vessels and marine equipment:		0 -	2016
	Russian oil and gas companies and maritime companies:			
	Rosneft, Gazprom, Sovkomflot, NOVATEK, etc. Expected new jobs: ~ 7,500 people		10 -	
			0 +	201



#### osneft demand in drilling rigs and support vessels for offshore drilling in Russia



#### Rosneft demand in seismic survey and support vessels



#### Power Bridge Project: Sakhalin - Hokkaido





\*price of electric power supplied from Russia to China in 1st half 2015, including taxes; \*\*2012 data; \*\*\* 2011 data Sources: Rosneft, IEA, Rosstat, Economy Ministry of Russia, Administration of Sakhalin Region, HEPCO, Statistics Bureau of Japan

#### Forecasts of world energy and oil consumption



Consumption of primary energy by fuel type, bln toe



- By 2030, the total consumption of primary energy in the world will grow by 26% to 17.3 bln toe
- The energy balance will continue to be dominated by hydrocarbons, which will account for 53% of global primary energy consumption

Oil consumption in the Asia-Pacific region, Europe and North America, mmbpd



- Oil consumption in the Asia-Pacific region in 2014 reached 31.1 mmbpd, i.e. more than 1/3 of world consumption
- Already in 2025 it is expected that oil consumption in the Asia-Pacific region will exceed total consumption in Europe and North America



### Thank you for your attention!

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