

#### **Energy Panel**

#### GLOBAL OIL MARKET – ON THE PATH TO SUSTAINABLE DEVELOPMENT

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#### Sustainability of Main Producers in 30-40-50 \$/bbl Scenarios



- Heavy oil, Canadian sands, projects in mature basins of Western Africa offshore, North Sea and Gulf of Mexico are not economically viable at long term prices below 50 \$/bbl
- Projects with combined production over 12 mmbpd and investment over \$800 bln will not be sanctioned at prices below 50 \$/bbl

#### **Fiscal Stimulus to Electric Vehicles Buyers**



## **Investment Optimization**



Steep reduction of new projects launch in 2015 and 2016 after period of prior high activity

# Variation in Estimates of Global Demand & Supply Dynamics Leads to Different Expectations



 According to leading agencies, scale of oversupply in Q1 2017 significantly varies – from 0.1 to 0.8 mmbpd Growth of Global Liquid Hydrocarbon Demand (y/y) according to various energy agencies, mmbpd



- Estimation of the demand growth forecast by different agencies in the last two years have almost coincided
- Forecasts for Q2 Q4 2017 vary

# **Oil Futures Trading Volume and Open Interest**





- Brent futures market has significantly increased over the last 10 years
- Current liquidity indicators and frequency in futures trading substantially exceed 2008 numbers

### Equity Raising in Oil & Gas Sector





· New equity is not the main source of financing for the most of oil and gas companies

# Production Cut by the Agreement Parties is Mostly Compensated by Production Growth in the USA and Other Countries



Note: Northern Europe includes Norway, UK, the Netherlands and Denmark. Figures for non-OPEC countries also include condensate, while for the USA – NGLs Sources: OPEC, IEA, EIA, CDU TEK, Ministry of Energy of the Russian Federation

## Challenging Time for Majors' Traditional Business Models



- Low reserves, low R/P rate, production decline
- High OPEX and CAPEX, projects with high breakevens
- High expectations of share buybacks
- Growing debt due to lack of equity

## National Companies – Becoming Stronger



- Pattern of national oil and gas companies becomes more and more apparent
- They are not only holders of large resource base, but also new active players shaping the global market

Note: Companies' data for 2016, Rosneft – pro-forma data for acquisition of Bashneft. Data for Saudi Aramco, NIOC, Qatar Petroleum, ADNOC and CNPC for 2015. Source: companies' data, BP Statistical Review

### Unlike Majors National Oil Companies Increased Production Over the Past 10 Years



### Tax Take Reduction in Saudi Arabia – Stimulus to New Investments





## Growth of Liquids Production in the USA will Intensify in 2017-2018



- By September 2016 liquids production in the USA has declined by 0.8-1 mmbpd from the peak level of April 2015, but in 2016 YoY only by 0.3 mmbpd
- Shale production was the main factor of this decrease, declining by about 0.6-0.7 mmbpd

#### Conditions for Production Growth in the USA





- Sustainable growth in the USA is only possible with oil price higher than 50 \$/bbl
- Nevertheless, many projects in the USA are profitable at 30-40 \$/bbl
- Companies actively use hedging strategies to increase production

### An Increase In Shale Productivity in the USA

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	2014	2016	Change			
Investments, \$ bln	124	36	-71%			
Horizontal wells	1 030	322	-69%			
Wells completed	22 750	8 930	-60%			
Number of drilling rigs older than 2011	72%	28%	-44%			
Number of stages per well	23	32	+39%			
Increase In Shale Productivity In the USA						

Cost of 1 mmbpd of production increase, \$ bln	59	30	-49%
Drilling footage per rig, thousand meters per year	41	61	+47%
Initial production rate, bbl/1000 feet of horizontal lateral well	38	42	+11%

# Over the Past 20 Years Share of Russia, Saudi Arabia and the USA in the Market Increased to 39.5%



Note. Production includes oil, condensate and other types of liquid hydrocarbons, incl. LPG (pentanes, ethane-ethylene fraction, propane, propylene and others). The OPEC countries' extraction is given by the historical composition of the member countries of the organization for the corresponding year. Source: BP Statistical Review, Wood Mackenzie

#### Oil Producing Countries' Budget Deficit



· State budgets of the main oil exporting countries remain in deficit at current price

### Leader Among Public Companies





Note: (1) Rosneft AB1C1+B2C2 reserves under Russian classification as of 01 January 2017 (incl. Bashneft), data for other companies is taken from Wood Mackenzie reserve estimates including commercial and sub-commercial reserves; (2) Lukoil's data – preliminary operating results for 1Q 2017; (3) Rosneft and Petrobras data for 1Q 2017, other companies – 2016 data.

#### **Integration Enhancement**





# Improvement of the Company's Performance Due to Synergy





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