OIL AS A COMMODITY: DEMAND, AVAILABILITY AND FACTORS AFFECTING CONDITIONS AND PROSPECTS OF THE MARKET



РОСНЕФТЬ

DEVELOPMENT AND ROLE

Igor Sechin

Chairman of Management Board

Rosneft Oil Company Singapore, 6 - 7 September 2015

Disclaimer

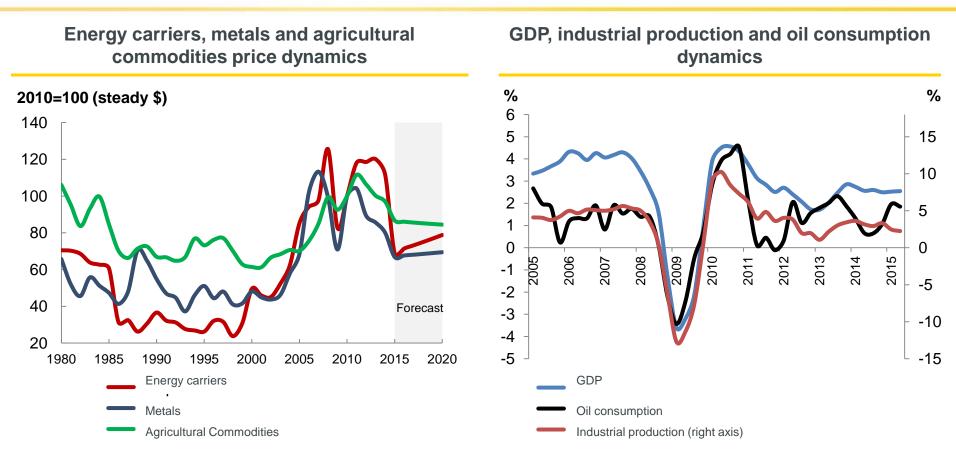


The information contained in this presentation is prepared by the Company. The conclusions presented here are based on general information collected at the time of preparation and are subject to change without notice. The Company relies on the data obtained from the sources, which it believes to be reliable; however, it does not guarantee its accuracy or completeness.

The materials contain statements about future events and explanations, which represent the forecast on such events. Any assertions in these materials not being statements of historical facts are forward-looking declarations associated with known and unknown risks, uncertainties and other factors, owing to which our actual performance, results and achievements may significantly differ from any future performance, results and achievements expressed or anticipated in the forward-looking statements. We do not assume any commitments to update any forward-looking declarations contained herein in order to reflect actual results, changes in assumptions or factors affecting these statements.

This presentation does not constitute an offer to sell, or any solicitation of any subscribe, purchase or securities offer. It is understood that nothing in this report / presentation creates a basis for any contract or commitment whatsoever. The information contained in this presentation should not be in any ways relied on in terms of its completeness, accuracy or unbiased assessment. The information in this presentation is subject to review, finalizing and change. The contents of this presentation have not been verified by the Company. Accordingly, we have not given and do not give on behalf of the Company, its shareholders, directors, officers or employees, or any other persons any representations or warranties both clearly expressed or implied, as to the accuracy, completeness of the information or opinions contained herein. None of the Company Directors, shareholders, officers or employees or any other person assumes responsibility for any loss of any kind that may arise from any use of this presentation or its contents, or otherwise arising from this presentation.

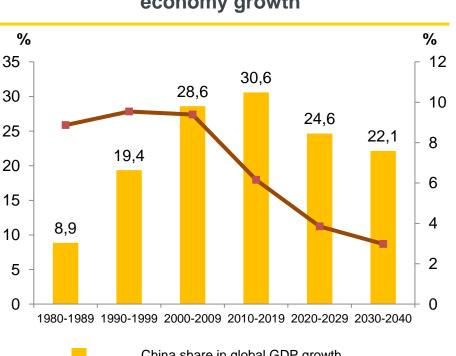
Different commodities price dynamics' behavior is similar; this points to the fact that demand is the first priority factor



- Following V-shape restoration in 2010-2013, agricultural commodities and metals prices took downward trend, and energy consumption joined the trend in the course of impetuous oil market meltdown in 2014.
- Starting from 2011, the global economy is facing smooth deceleration, especially in industrial production

China economy is key global economy and commodities price growth factor



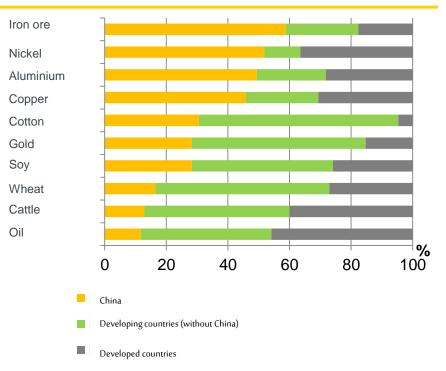


China's GDP structure and its share in global economy growth



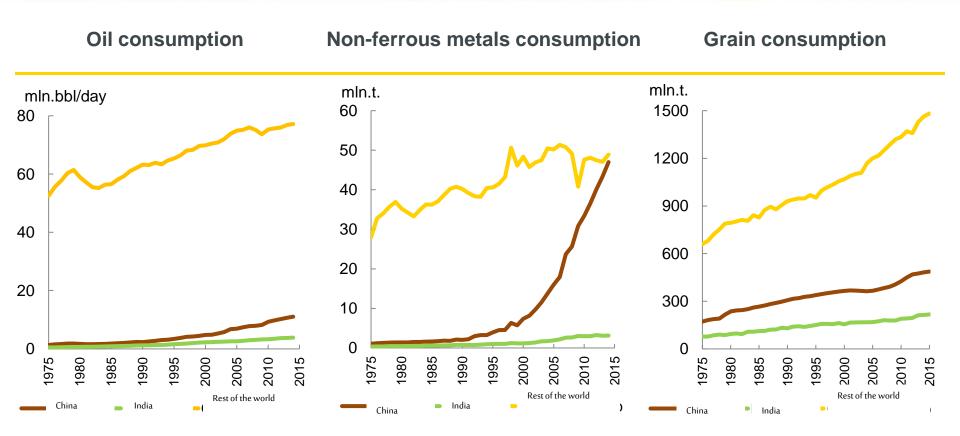
- China GDP growth (right scale)
- It is expected that by 2030 China contribution to global economy rate will be about 30% per year and on the wane afterwards

Regional structure of global metals, agricultural goods and oil consumption



- Metals markets are most dependent on demand in China. China contribution to global copper, aluminum and ore consumption is about 45-60%.
- China contribution to global oil consumption is 12%.

China economy has most significant effect on the growth of global demand for metals and energy carriers



Non-ferrous metals demonstrated the highest growth of demand in China over the last decade

The next, in terms of growth rate, is oil demand— during recent years China secured up to 2/3 of global oil demand growth. Therefore, in the eyes of analysts, oil demand growth in the world and in China matches.

Growth rate in industry and power consumption in China are decelerating



Dynamics of industrial production and power Dynamics of real GDP growth in China's production in China economy sectors % % YoY YoY, 3-moths average moving 18 30 16 25 14 20 12 10 15 8 10 6 5 4 2 0 2001 2002 2003 2004 2005 2005 2008 2010 2011 2012 2013 2007 2009 1999 2000 2014 0 201 -5 2004 2006 2008 2010 2012 -10 Primary sector (agriculture, forestry, etc. Secondary sector (industry, construction Industrial production Power production Tertiary sector (services, trade, transport, finances

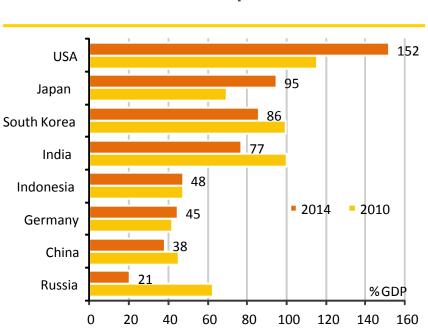
- China industry growth is slowly decelerating- in July it grew by 6,0% (in June the growth rate was 6,8%)
- Power production in July decreased by 2%

- First of all, commodities consuming sectors are decelerating
- At the same time, the share of services sector in China economy is growing

2014

Slowdown Has a Controllable Character: The stock market role in the ecomony is not too big, the housing market is under control

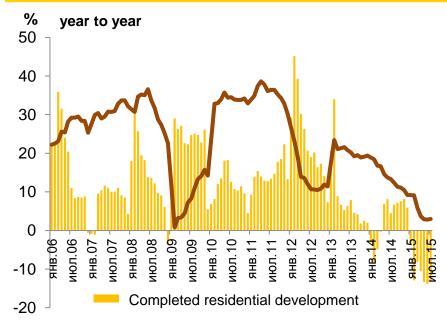




Stock market capitalization

The stock market is poorly connected with the real sector: On the financial markets less than 3% of the capital investment is financed due to attarction, while over 70% due to own funds. Only 6% of the population have stock market investments.

Dynamics of investments in residential development and new housing supply volumes



New housing supply

- The real estate market has a significantly greater importance: in 2014, 6% of GDP, 19% of all investments and 20% of bank credits fell thereon.
- The pace of investments growth in residential development in China is gradually decreasing since 2013.

Asian economies today are much more stable than in 1997 - 1998



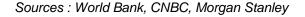
- 1 Importance of Asia in the world has increased, and the other countries take this into account in their policy (e.g., the US monetary policy)
- The total reserves of China are
 22 times higher than monthly import

3 China's debt is mostly internal

- The current account of the balance of payments is essentially superfluous
- 5 Inflation is low, which gives flexibility of manoeuvre for Central Bank of China

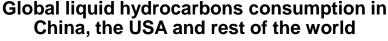


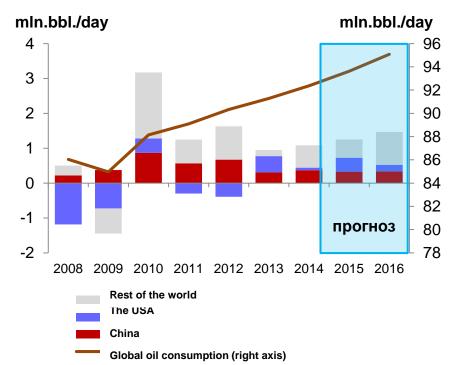
- The Asia-Pacific Region countries today are much stronger than in the late 1990s and much less susceptible to currency speculations
- Growth of the world economy depends more on China and the Asia-Pacific Region and, hence, other countries will adapt in order to support their trading partners
- Currency reserves, low interest rates and inflation (both in the Asian countries and other regions) give a significant flexibility in response measures on crisis prevention
- Taking into account the crises in the Middle East, Latin America and Europe, the market get used to volatility and work in the time of uncertainty



Fundamental demand for oil on the part of China has a stable character

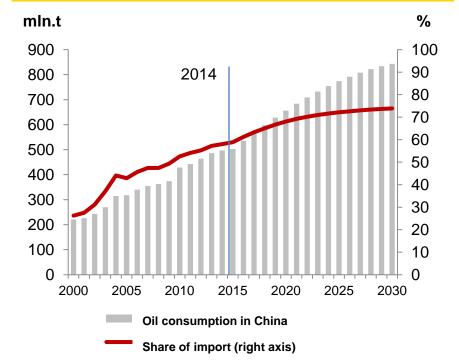






In addition to growing demand for liquid hydrocarbons in China in 2015-2016, significant growth of consumption is expected in the USA and a number of new fast growing economies (India and others)



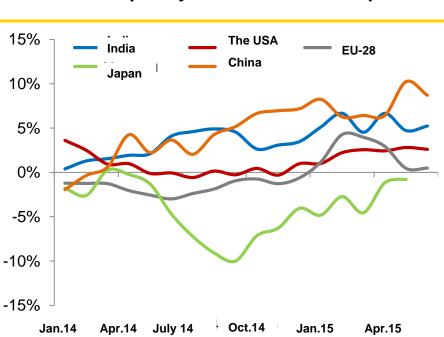


Oil consumption in China until 2030

- In 2014 oil consumption in China exceeded 500 mln.t, and the share of import in consumption - 60%
- In 15 years, according to our estimates, China will consume 850 mln. tons of oil, i.e., 350 mln. tons of oil more than now, at that, internal production growth is insignificant

Oil and petroleum products price reduction has led to accelerated growth of demand for liquid hydrocarbons both in developed and developing countries

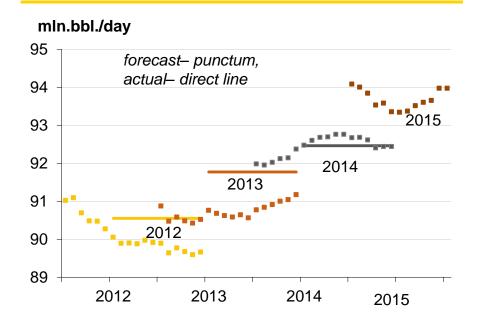




Growth of liquid hydrocarbons consumption

- Rate of demand for liquid hydrocarbons in consuming countries has was growing in the first half of 2015
- Accelerated rate of demand was evidenced both in developed and developing countries

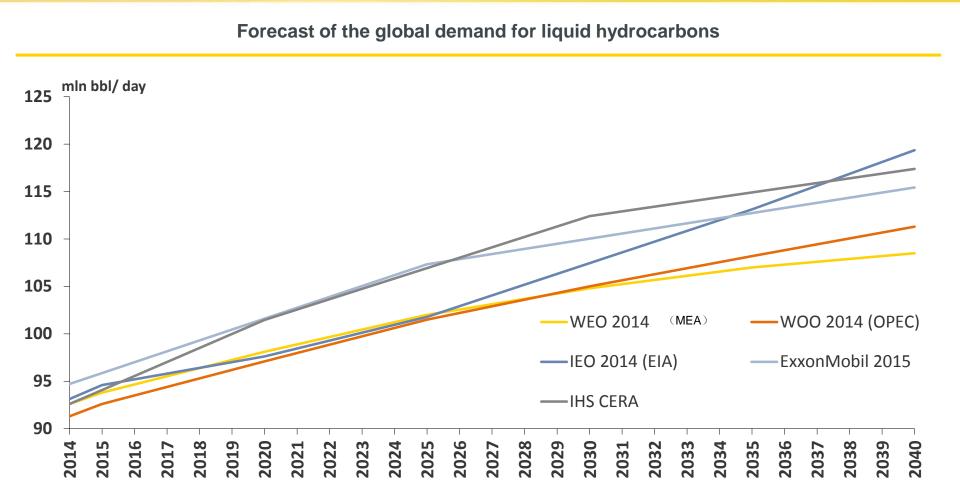
Forecast vs actual values of global liquid hydrocarbons consumption



- The leading energy agencies are revising their forecasts on the global oil consumption towards upside
- According to EIA estimate made in August, global oil consumption will be at the level of 94,2 mln.bbl./day (+1,6 mln.bbl./day YoY), which is 980 thous. bbl./day higher compared to January 2015 forecast.

Sources: EIA, Ministry of economy, trade and industry of Japan, National Bureau of Statistics of China, Ministry of oil and gas of India, JODI, MEA

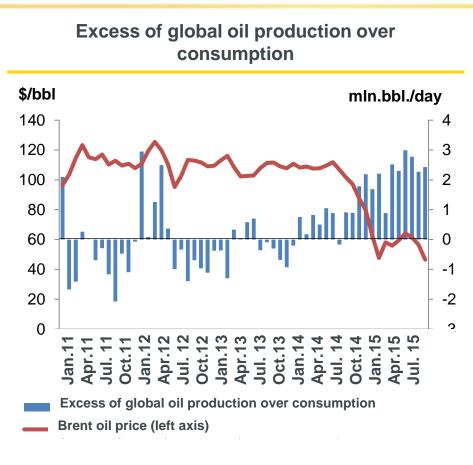
In the Longer term run oil will keep the key role in the global power balance



According to majority of power agencies, the demand for liquid hydrocarbons in the long-term period will steadily grow
 Liquid hydrocarbons will make about ¼ of the world power balance within the next 15-20 years.

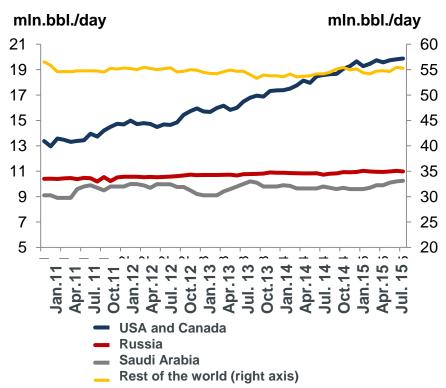
Fundamental cause of low oil price is excess of oil production over its end consumption





- Steady excess of global oil production over consumption appeared in 2014, which has resulted in fall in prices
- In 2015 oil offer exceeds the demand by 1,5-3 mln.bbl./day

Surplus of global supply oil production



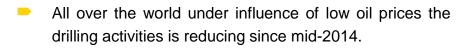
The global hydrocarbons production during recent years was growing primarily at the expense of the USA and Canada, where "shale revolution" occurred

Drilling activities all over the world are slowing down Exclusion: Saudi Arabia

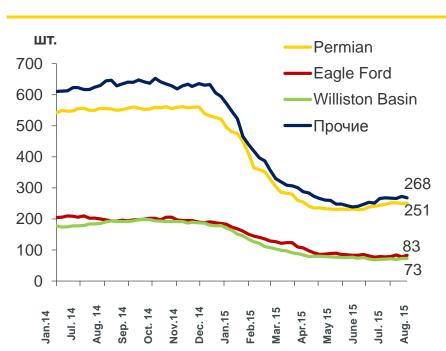


Jan. 2013 =100 150 140 130 120 110 100 90 80 70 60 Jan.13 Apr.13 **Jul. 13** Jan.14 Jan.15 Apr.15 Jul. 15 Oct.13 Apr.14 Oct.14 Jul. 14 Saudi Arabia Rest of Far East Africa Asia Pacific Latin America Europe

Number of drilling rigs (except for North America and CIS)



 Drilling activities in Saudi Arabia were growing during past few months, and the total number of drilling rigs increased by 20 %.



Number of drilling rigs in the USA

- Owing to reduction of drilling cost, the number of operating drilling rigs In the USA has stabilized after sharp reduction in the second half of 2014.
- In general, the number of drilling rigs in the USA in the 1st half of 2015 reduced 2 - 2,5 times.

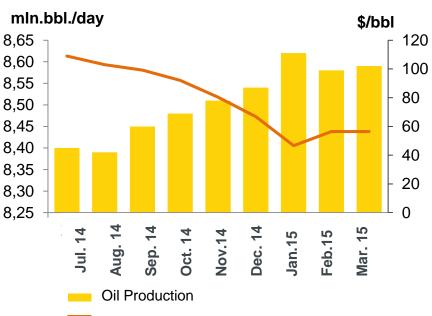
Due to reduction in oil prices and drilling activities, the production of liquid hydrocarbons in the USA is falling



Crude oil production in the USA mln.bbl./day 9,8 9,6 9,4 9,2 Data of 30.06.2015 9,0 Data of 31.07.2015 8,8 Data of 31.08.2015 8,6 June 15 Aug. 14 Jul. 14 Sep. 14 Mar. 15 May 15 Dec. 14 **Dct. 14** Nov.14 Jan.15 eb.15 Apr.15

- According to the EIA estimate made in the end of August, crude oil production in the USA was reducing from May to June 2015, having completely compensated the growth of January to April 2015.
- During last three months the actual data on oil production in the USA were revised towards downside.

Revision of crude oil production in the USA in Q2 2014

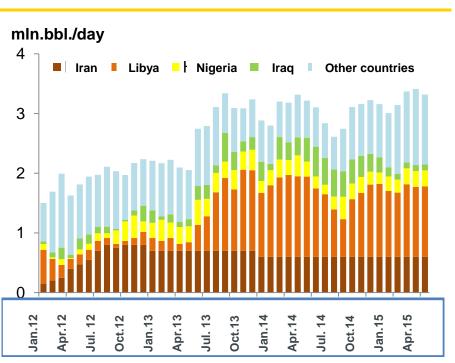


Brent as of the date of issue of the publication (right axis)

- EIA revises not only the forecast estimations, but also historical data, "adapting" them often to the current conjuncture.
- All above-mentioned undermines credibility of such publications and creates preconditions that unfair market participants create the corrupted representation of its dynamics.

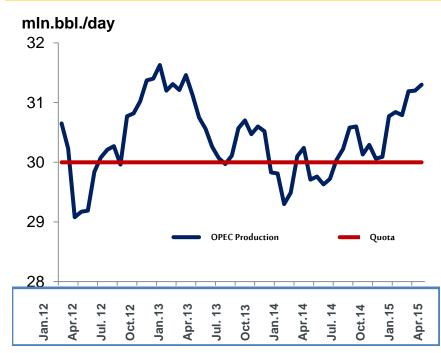
A number of factors may delay balancing of the world oil market





Non-planned downtime of oil producers

Crude Oil Production in OPEC



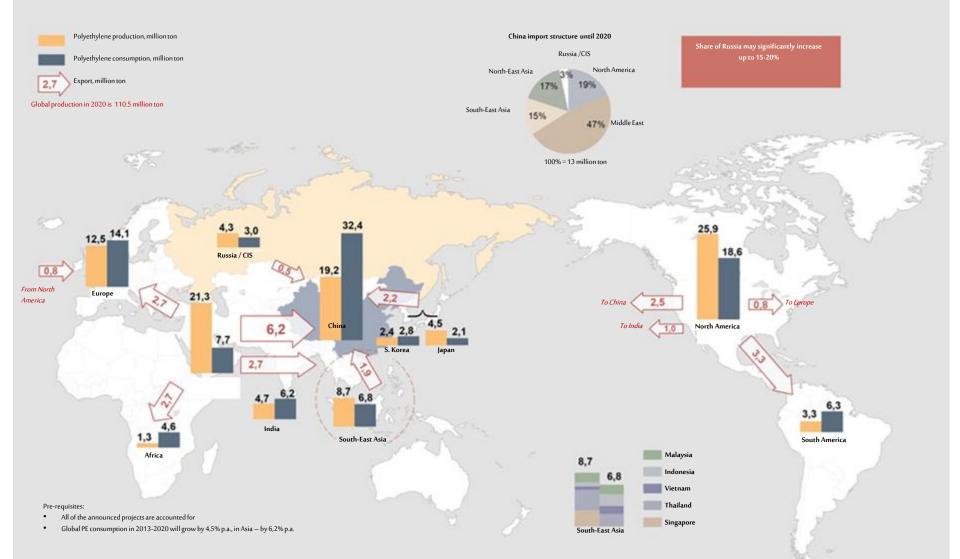
- Currently the total volume of oil production by OPEC countries exceeds significantly the official quota of 30 mln barrels per day.
- A number of OPEC member-countries express their growing concern of low prices, which threatens their stability, and put forward relevant initiatives.

Gradual removal of sanction from Iran will lead return to the market of no less than 0,6 mln.bbl./day oil from this country

In case of settlement of Libyan conflict, the market will get another 1,0-1,2 mln.bbl./day oil

CHINA IS A MAJOR DEFICIT PE MARKET IN 2020; EXPORT FROM ALL SURPLUS REGIONS OF THE WORLD, PRIMARILY FROM THE MIDDLE EAST AND NORTH AMERICA

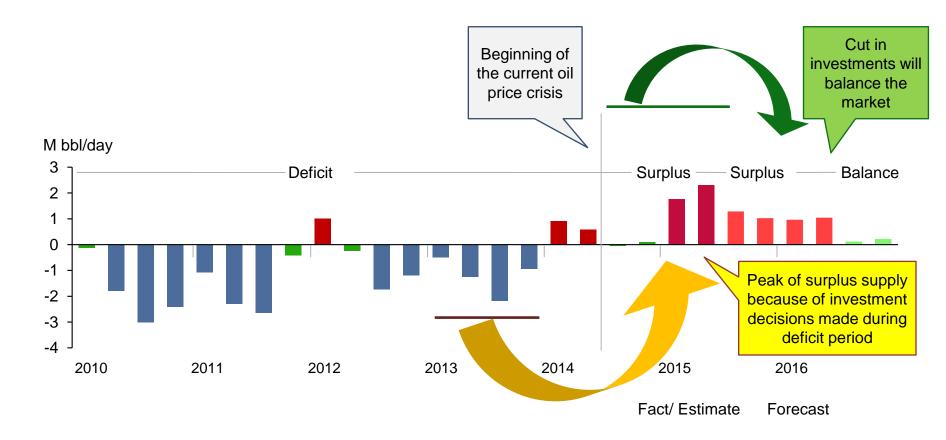
Forecast for production, consumption, and main flows of (high and low pressure) polyethylene trade in 2020 in case of implementation of all announced projects, million ton



The investments made into production still bring volumes to the market, but decreased investment is already taking its toll



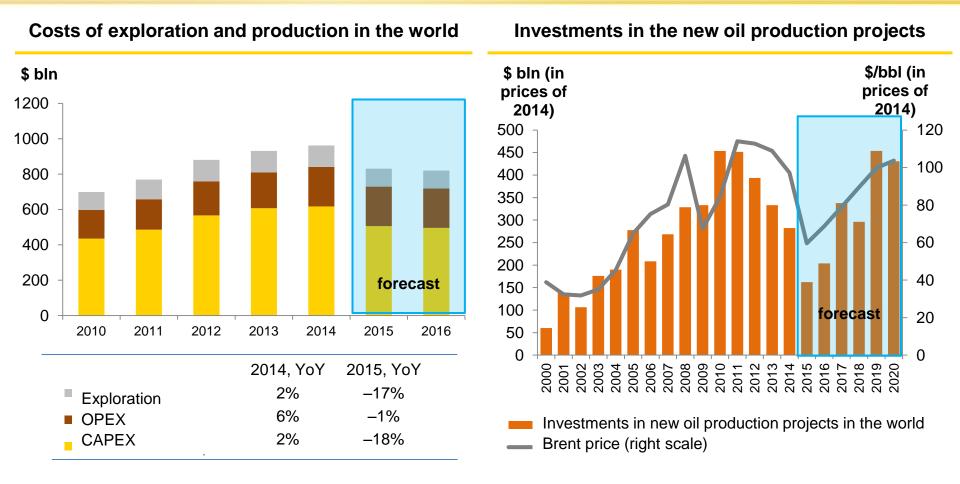




Investments made during the period of oil shortage explain the W-shape of the price curve

Decrease of investments in production: in 2015 – by \$137 bln, down to \$200-250 bln by 2016



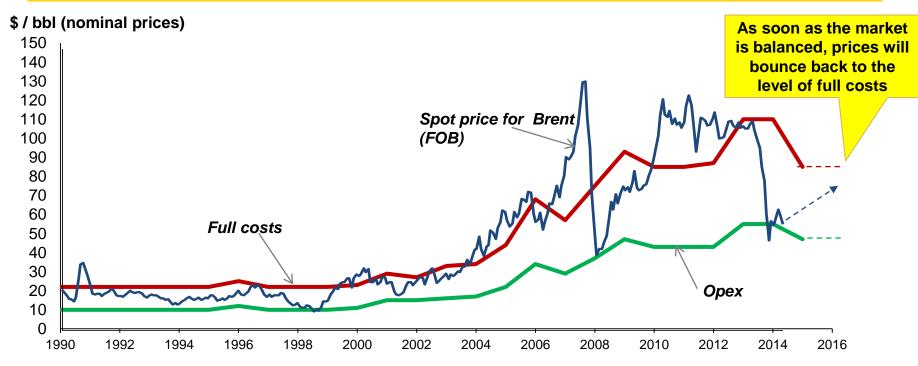


- Based on Rystad Energy evaluations, E&P costs in the world in 2015 will decrease by \$180 bln vs the previous year. The highest rate of decrease is observed in the North America, mostly in the US.
- CAPEX will decrease by almost 20%, and investments in the new projects well go down even more by 40%.

When the market is balanced, the prices will return to the full cycle costs level







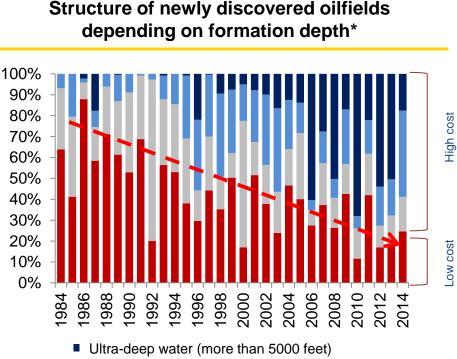
We should remember about the price limits:

- Oil price should exceed the OPEX level of suppliers bearing maximum costs (marginal suppliers)
- The balanced market implies that oil price exceeds full costs of production
- In the periods of deficit the price, naturally, may exceed all costs
- Current oil prices are at the level of OPEX. This is not enough for sustainable production

Sources: EIA, Bernstein

Hi-tec oil resources will be in greater demand and will determine the limits of full costs in future

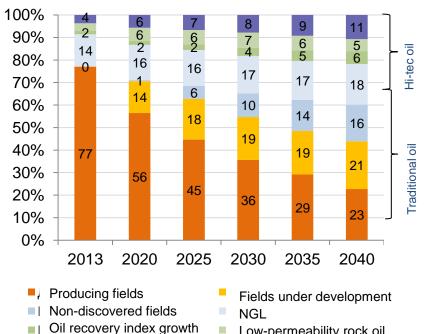




- Deep water (1000-5000 feet)
- Shallow water (up to 1000 feet)
- Onshore
- Percent of more expensive deep fields grew up significantly. Such oil will prevail in future discoveries too.

Note: * not accounting for the onshore fields in Canada and the US (below 48 parallel) and shallow fields in the US

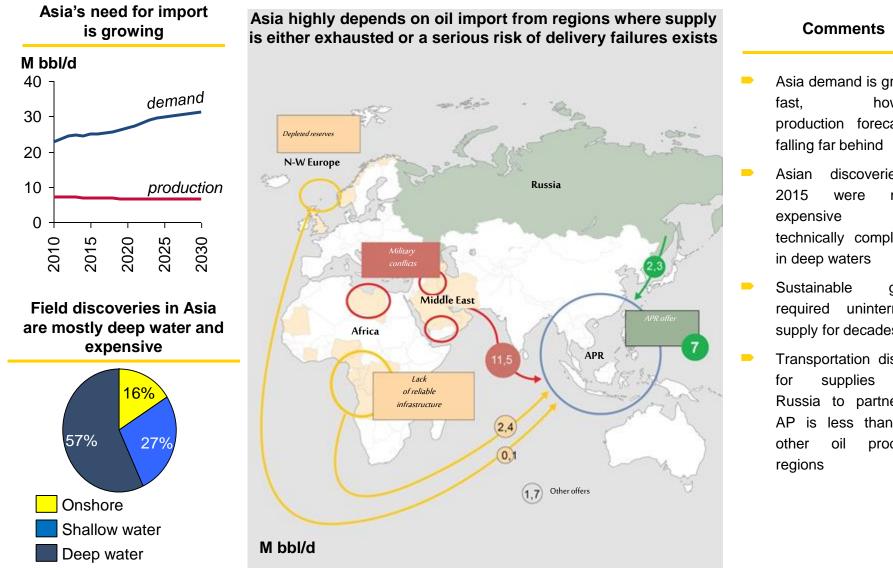
Forecasted structure of liquid HCs global production



- CTL+GTL+EHOB
- Low-permeability rock oil
- Oil industry technological development plays a key part in ensuring of its competitive ability.
- Traditional oil will be replaced with hi-tec oil, the percent of which will kite, approaching to 30%-40% in 2040.

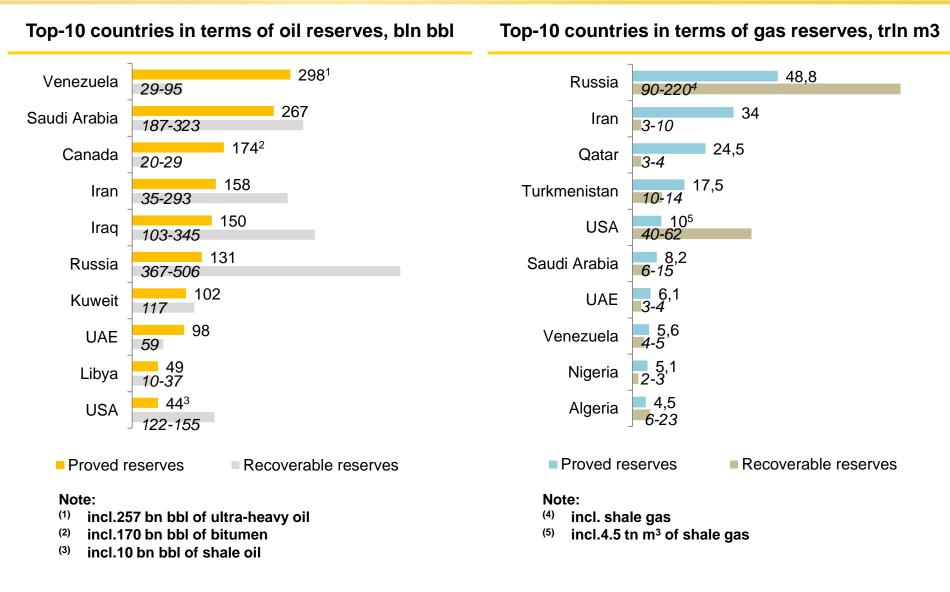
Deficit of own oil resources in Asia is growing, new Asian discoveries are expensive, while supply security is extremely important





- Asia demand is growing however, production forecast is
- discoveries in mostly and technically complicated
- growth required uninterrupted supply for decades
- Transportation distance from Russia to partners in less than from producing

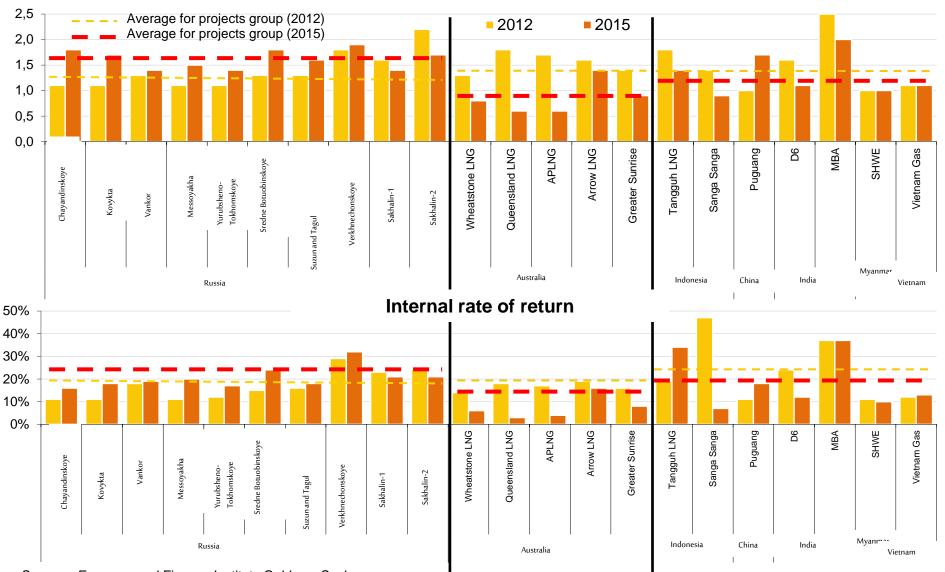




Sourceu: BP Statistical Review 2015, EIA, RF Ministry of Natural Resources, USGS, Zarubezhgeologiya, Rosneft

Production projects in East Siberia are more competitive than other AP projects



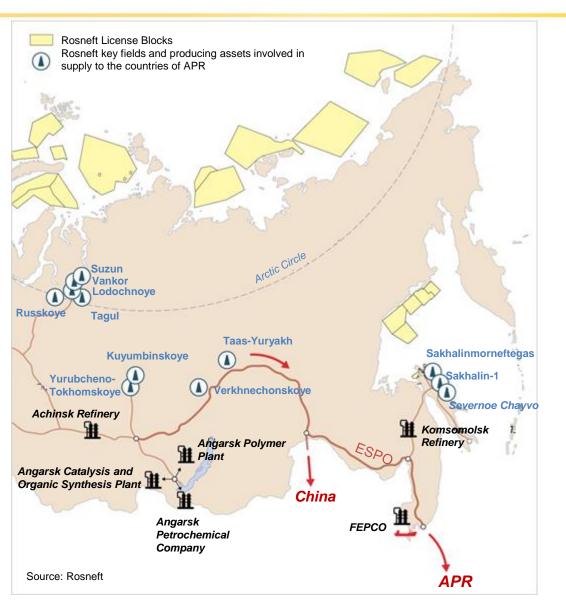


Profit/investment ratio

Sources: Economy and Finance Institute, Goldman Sachs

The more actively we develop the potential of Russia's East, the more secure are oil supplies to APR





- Russia is a reliable partner for oil supplies to AP
- Russia is open for cooperation in upstream with international partners
- The existing tax treatment for different fields increases investment appeal
- There are possibilities for joint development of diverse portfolio of fields:
 - Conventional onshore fields
 - Offshore fields
 - Arctic fields
- Vast internal market and export capabilities ensure high potential of oil refining and petrochemistry



Thank you for your attention!

РОСНЕФТЬ

Contact information

117997, Moscow, Sofiyskaya Embankment 26/1 Tel.: +7 (499) 517-88-99 Fax: +7 (499) 517-72-35 E-mail: postman@rosneft.ru

07.09.2015