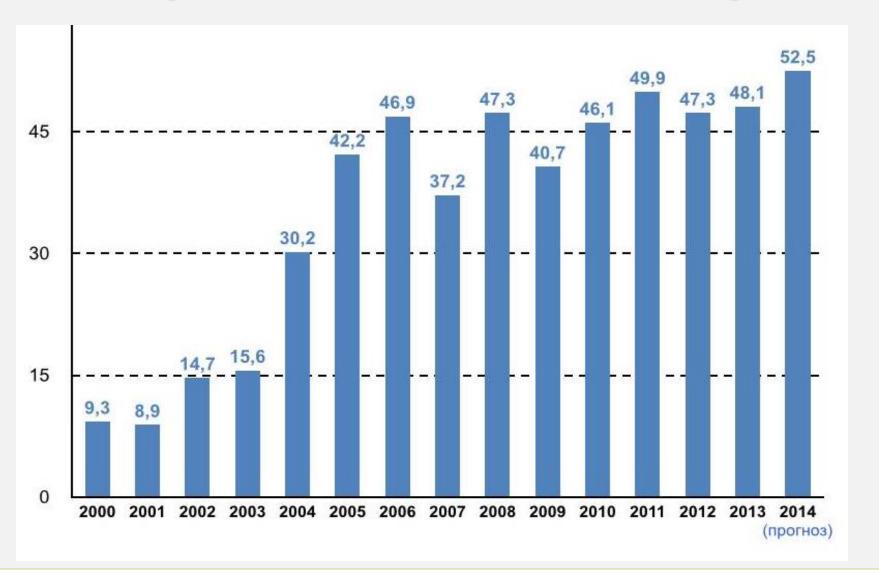


### Russia's oil and gas industry: Where is it heading?

Mikhail Krutikhin RusEnergy



#### Oil and gas revenues in Russia's federal budget, %



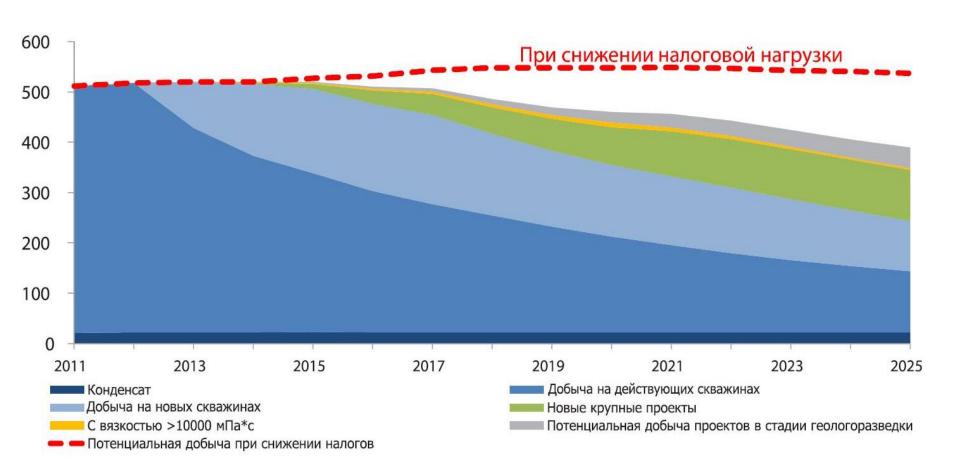


#### Russian oil production is past peak

- Size and quality of new discoveries deteriorates
- Ongoing projects enter depletion phases
- Tight reserves are a challenge for existing technologies
- Tax incentives are inadequate; PSAs are banned
- Industry is dominated by inefficient state-controlled majors
- Foreign operators are discriminated
- Western sanctions are in effect



#### Oil production decline is predicted at 15-20% by 2020





#### Russian oil supply a cause of concern for the EU

- Production is growing slower than eastward export capacity is being increased
- Russian oil is sold at a premium in Asia
- Redistribution of flows is expected
- Some European clients may see their intake of Russian oil diminishing
- Quality of Urals blend is deteriorating

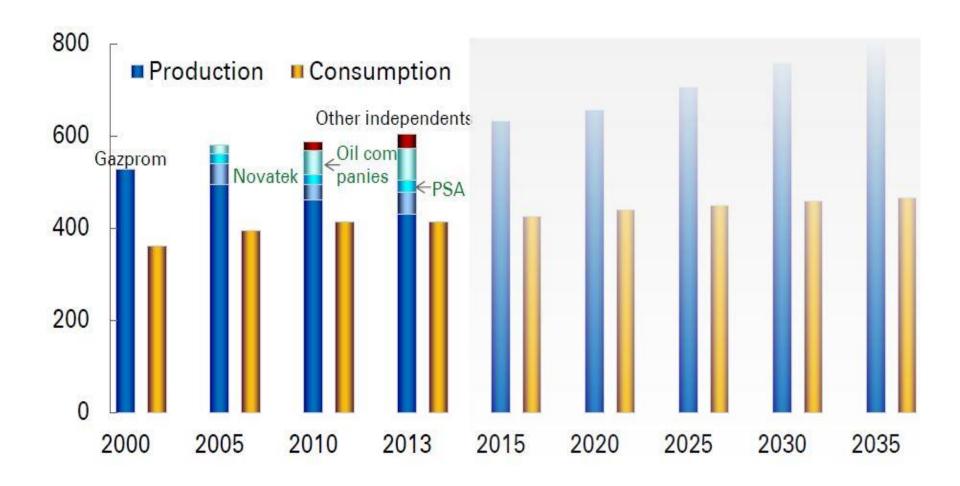


#### Gas production growth is also an issue

- Ongoing projects suffer from depletion and low pressure
- Production and transportation costs grow
- Domestic consumption is in stagnation
- The US shale revolution makes an impact
- Russian LNG is hardly competitive
- Demand for Russian gas in Europe is not growing
- China's gas market can do without Russian supply



#### Natural gas balance estimate in Russia, Bcm



Source: BP Energy Outlook 2035



#### Can Russian gas remain a political weapon?





#### Russia's aggressive attitude in Europe

- Demanding a monopoly role for Gazprom
- No reciprocity
- No win-win solutions
- Insistence on high oil-indexed prices
- Third Energy Package is 'a very harmful document' (Putin)
- Huge redundant politically-motivated pipelines

#### The rationale of this approach?

- High and sustainable energy prices (not any more)
- Misinformation
- Incompetence of management
- Friendly contractors' pecuniary interests



#### Russia's aggressive attitude in Europe





#### October 23, 2012

#### Sudden revelations of Putin:

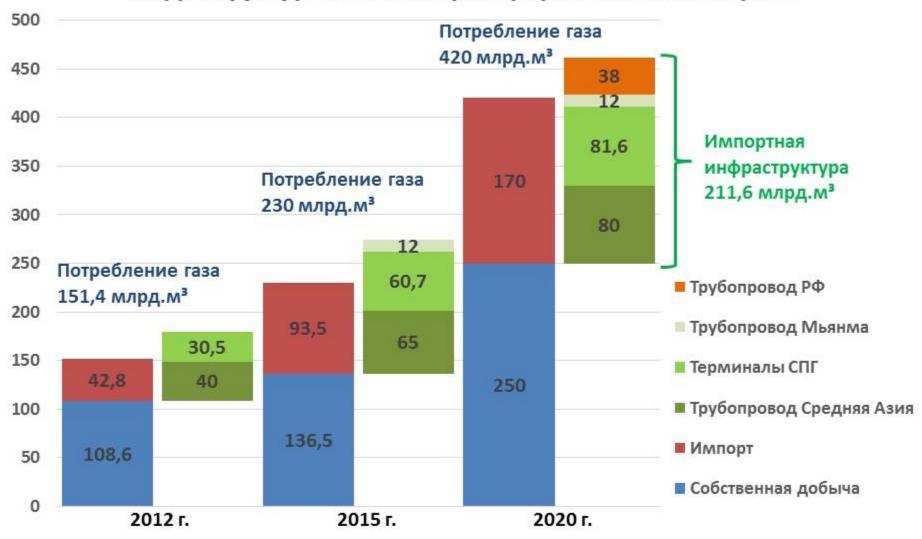
- Shale gas is not a 'Hollywood movie'
- Gas prices are not growing
- Oil indexation becomes unpopular
- Russian LNG plans are in limbo
- China doesn't need Russian gas
- Russia has only one export market left for its gas, and this market is... Europe
- And 'hostile' Europe is not increasing gas demand



#### New radical attitude

- Redrafting 'General Scheme of Gas Industry Development through 2030'
- Redrafting 'Eastern Gas Program'
- Acceleration of projects targeting Asia Pacific markets
- Upstream in Yakutia (Chayanda)
- Upstream in Irkutsk (Kovykta)
- Upstream at Sakhalin III
- Gas processing on the Amur River
- LNG plant and terminal near Vladivostok
- Connecting pipelines

#### Прогноз роста газопотребления Китая и планируемое развитие инфраструктуры для импорта природного газа, млрд.м<sup>3</sup>



Источники: CNPC, Министерство природных ресурсов КНР, ЛУКОЙЛ, Oxford Institute of Energy Studies



## Instructions are issued. Investment decisions are being made. What about costs?

- Eastern projects are expensive and mostly noneconomical
- Gas sales to Asia Pacific countries will probably have to be heavily subsidized by the Russian government
- Gazprom's annual investment budget till 2018 has to be doubled

Which cost items might be victimized? Will South Stream be abandoned?



#### **Conclusions:**

- Russia's oil and gas production faces challenges and is expected to decrease significantly.
- Russia's economy has weak prospects for growth and seems to be shrinking.
- It is going to affect Russia's global role and domestic situation.
- What strategy the government may choose to steer the nation to a brighter future?







#### Three possible scenarios for Russia

- Integration into the Western civilization politically and economically; opening to international capital, technologies, democratic principles, liberal market, private business, transparency, etc. (Norway, Singapore, etc.)
- Cold war attitude on the verge of a real war; a totalitarian regime, mobilization economy, political oppression, etc.
- Transformation into a Chinese colony.



#### What's going on?

- Creeping de-privatization, which means nepotism, corruption, inefficiency, waste of pubic wealth. A crony capitalism.
- Xenophobia under patriotic banners instead of international cooperation and integration.
- Attempts to subjugate former Soviet republics politically and economically (mostly futile).
- Manual control ('vertical of power').
- Cold war rhetoric. Boosting military and law-enforcement budgets.
- Teaching other nations what they must do to accommodate Russia's plans.



# The outcome may be disastrous. The big question is: What is the West going to do vis-à-vis this Russian attitude?





#### Thank you

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