

25th world gas conference "Gas: Sustaining Future Global Growth"

## GAS MARKET INTEGRATION: FOR A SUSTAINABLE GLOBAL GROWTH

By: Chairman of the Management Committee, Gazprom Alexey Miller



Patron

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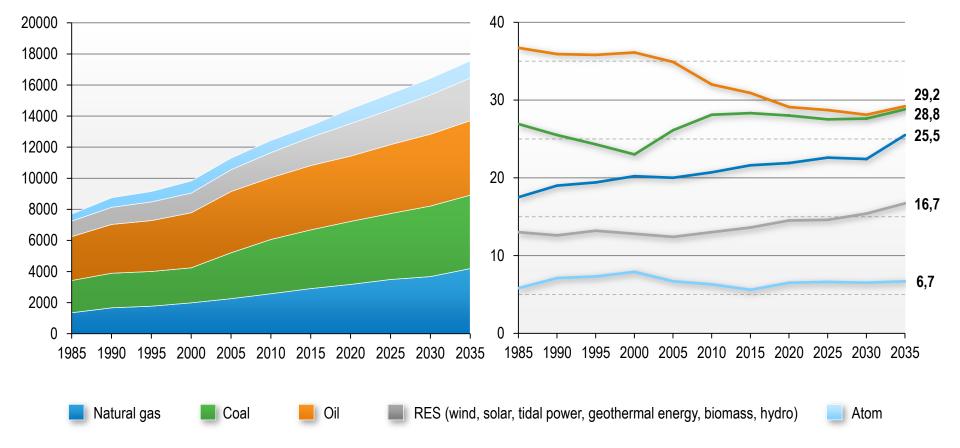
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# **Growth dynamics and structure of energy consumption**

Dynamics of world energy consumption, million TOE.

Structure of world energy consumption, %



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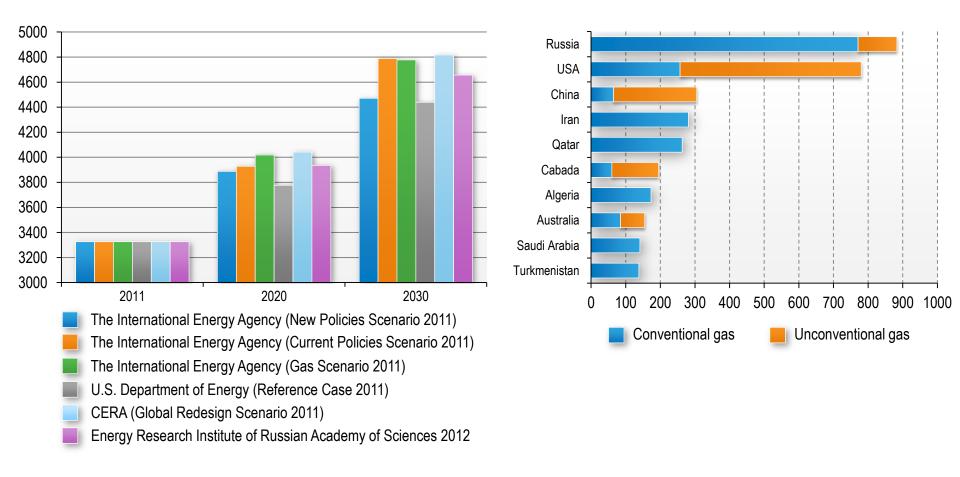
#### The potential of hydrocarbon energy

## Forecasts of global gas demand, billion cubic meters

## Forecast of gas production by 2035, billion cubic meters

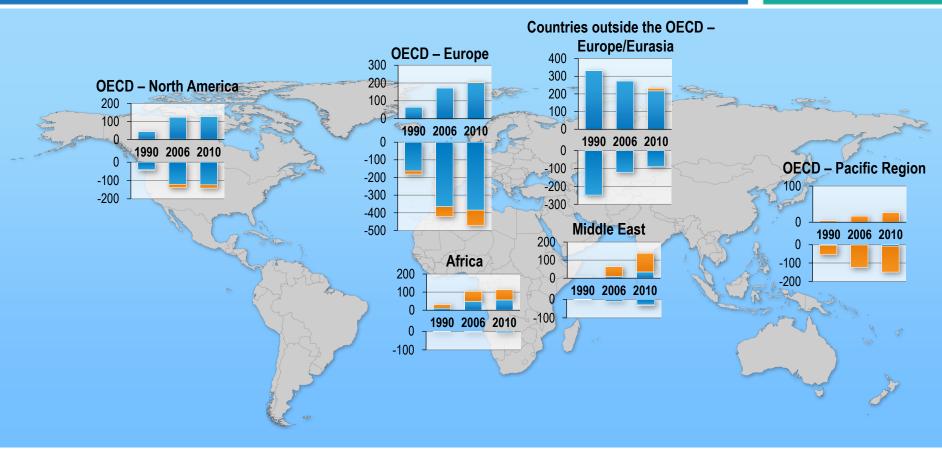
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## The development of global trade in natural gas

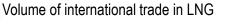


Export, billion cubic meters

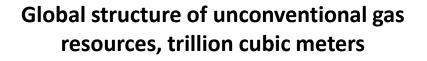
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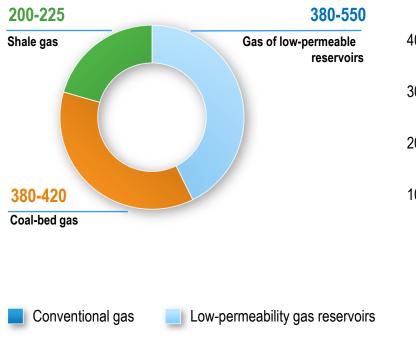
Import, billion cubic meters

Volume of international trade in gas by pipelines



## **Alternative sources of natural gas**

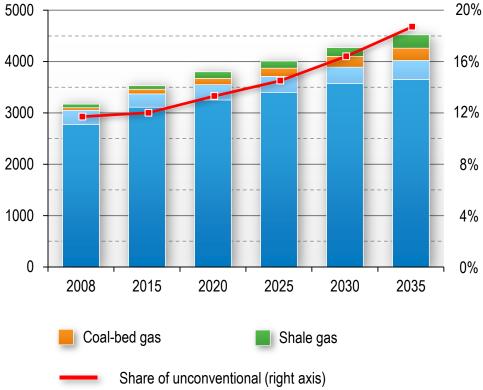




#### Global gas production by types, billion cubic meters

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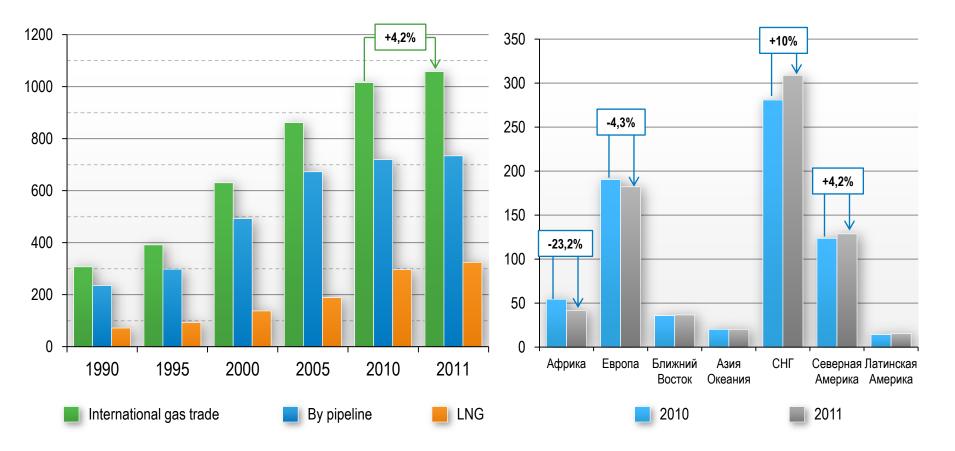
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Expert assessment by Gazprom VNIIGAZ

International gas trade from 2010 to 2011

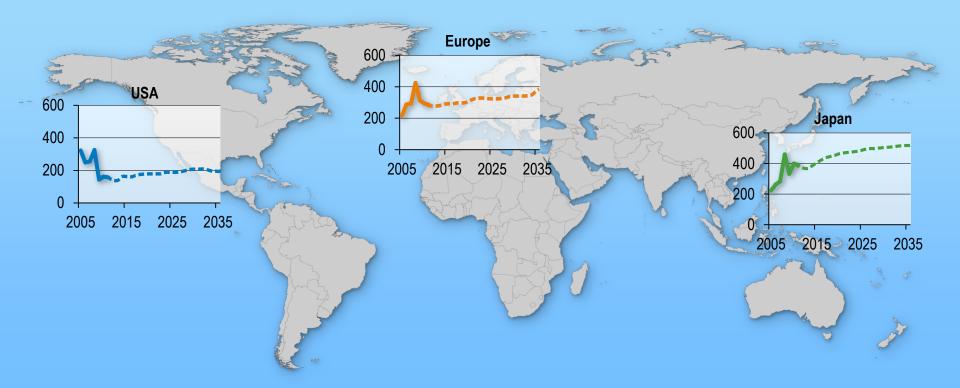
Dynamics of international gas trade, billion cubic meters World exports by regions of the world, billion cubic meters



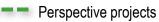


## **Regional gas pricing**





- Average import gas price in Europe, USD/thousand cubic meters
- Spot gas price in the U.S. (Henry Hub), USD/thousand cubic meters
- Import gas price in Japan, USD/thousand cubic meters

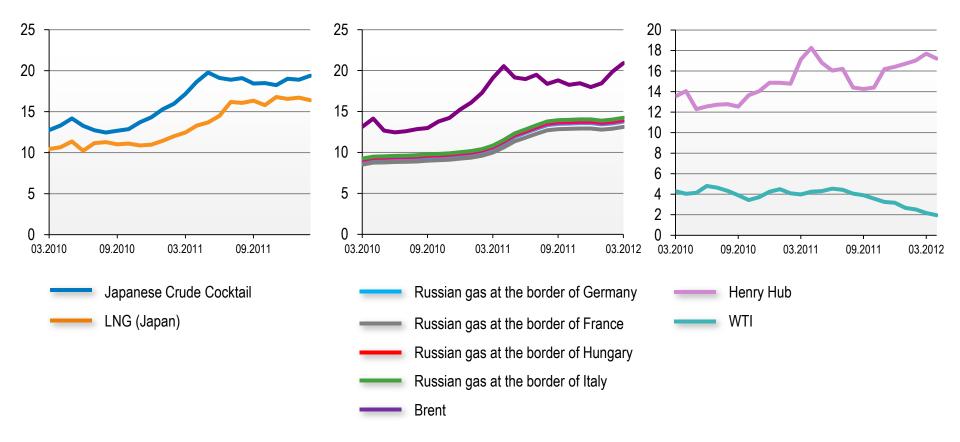


### **Price formation in the gas market**

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Dynamics of LNG prices in Japan, USD/million Btu Dynamics of oil and gas prices in Europe, USD/million Btu

Dynamics of oil and gas prices in the U.S., USD/million Btu



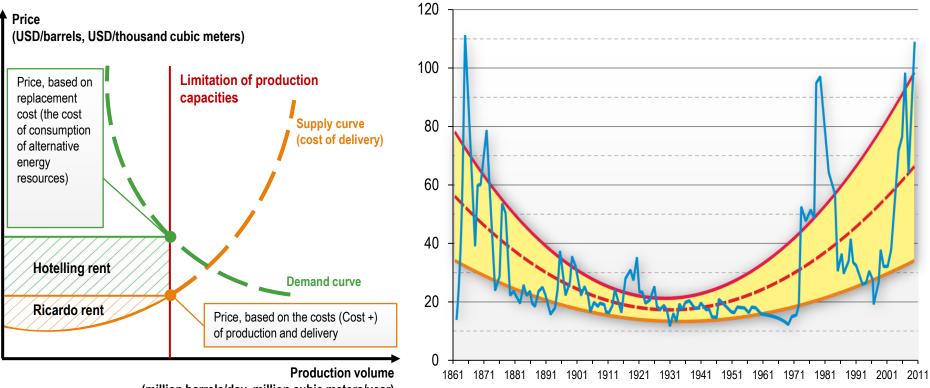
### **Price formation in the gas market**

**Hotelling rent** 

#### Dynamics of price integration of the world gas market

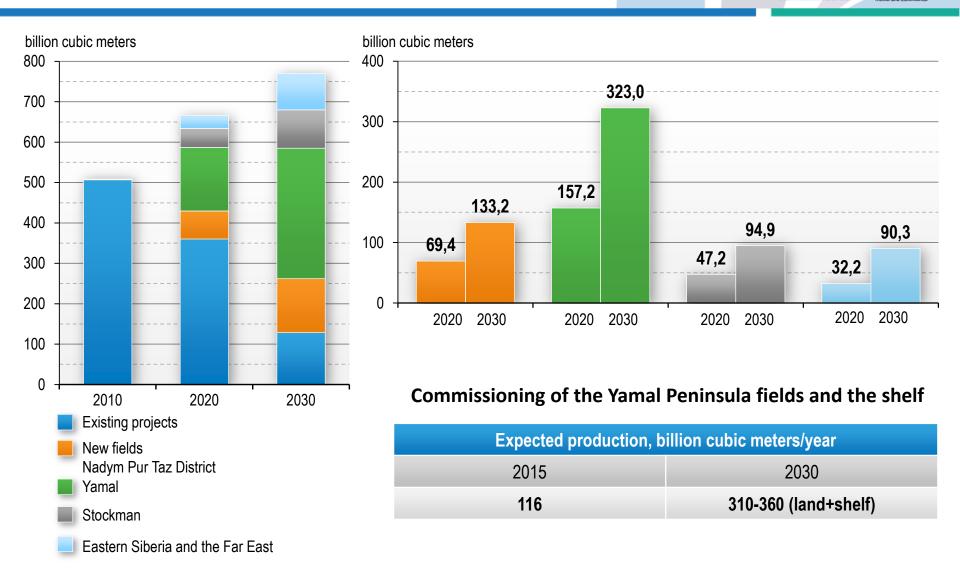
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(million barrels/day, million cubic meters/year)

## **Development of Gazprom's resource base**



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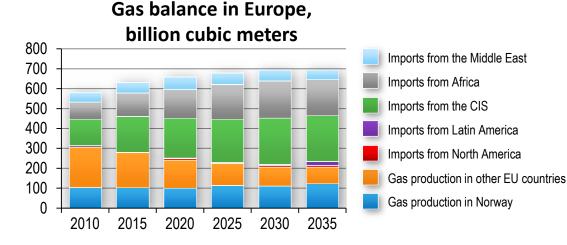


## **Gazprom's transportation projects**

#### Nord Stream gas pipeline



Capacity: 55 billion cubic meters/year

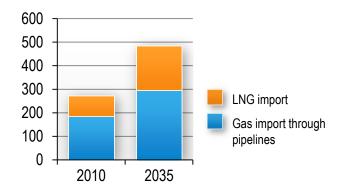


#### South Stream and Blue Stream gas



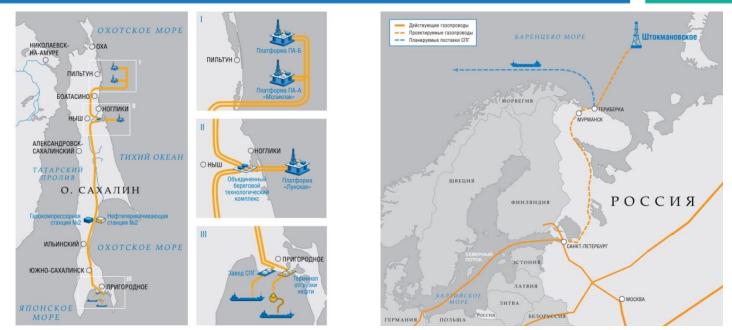
Capacity: 63 billion cubic meters/year (South Stream)

#### Europe's inter-regional gas trade, billion cubic meters

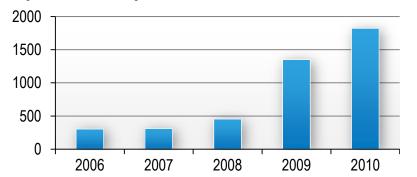




#### **Gazprom in the LNG sector**



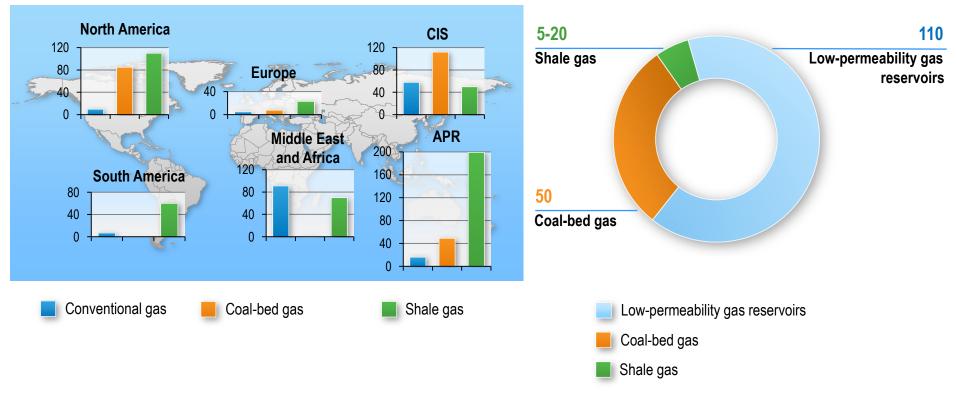
#### Volumes of Gazprom Group's transactions with LNG, thousand tons



# The strategy of relying on conventional natural gas resources



Distribution of conventional and unconventional gas by regions in the world, trillion cubic meters The structure of Russia's unconventional gas resources, trillion cubic meters

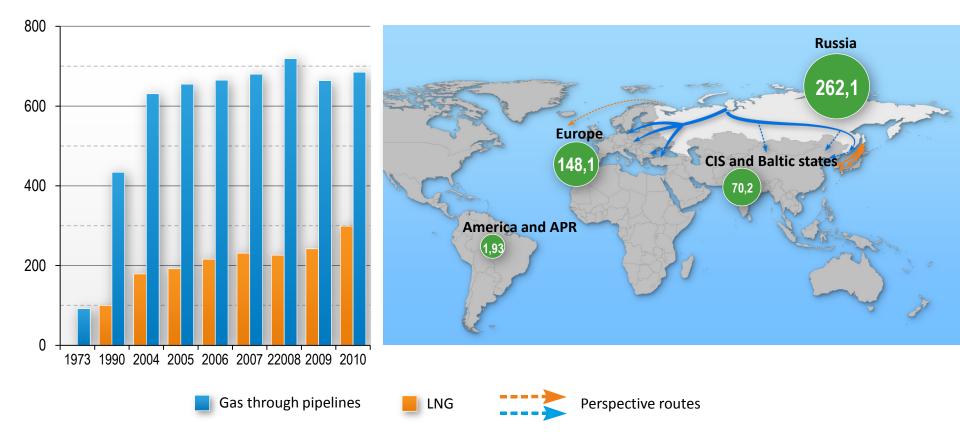


Expert assessment by Gazprom VNIIGAZ

Gazprom's global supplies of pipeline gas and LNG



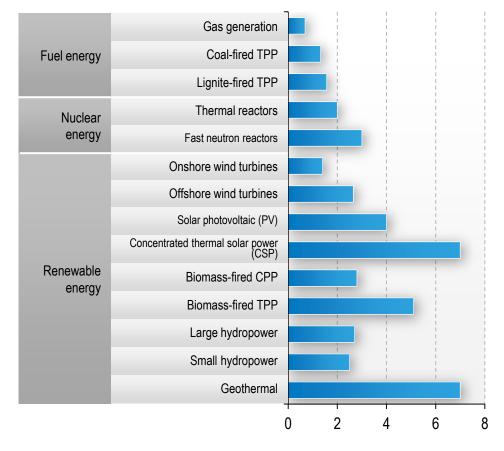
Ratio of supply volumes of pipeline gas and LNG, billion cubic meters Global gas supplies, billion cubic meters



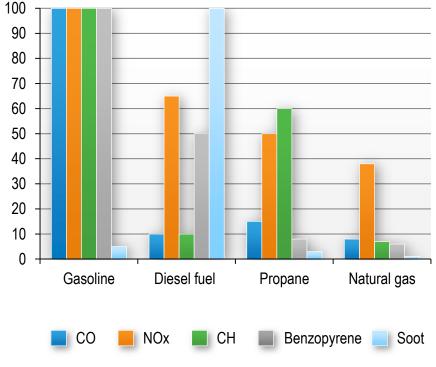
# Natural gas – an environmentally and technologically optimal solution



# Cost of building 1 kW of electric power of various types of power plants, thousand dollars.



#### Relative content of toxic components in exhaust gases of motor vehicles





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## Thank you for your attention!



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