

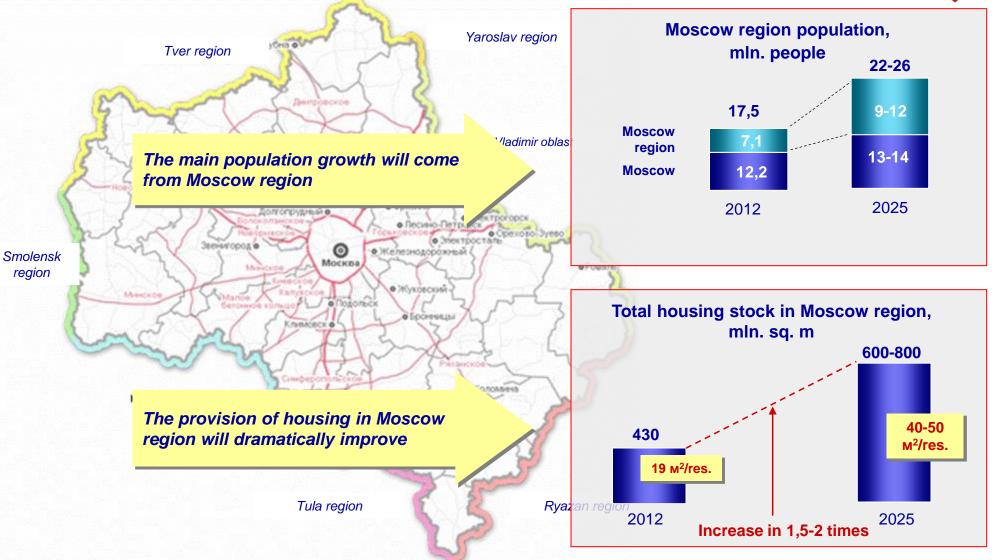
Department for External Economic and International Relations of Moscow

Moscow Energy Sector: Investment Potential

Vakhtang Partsvaniya Deputy Head of Foreign Economic Affairs Office, PhD

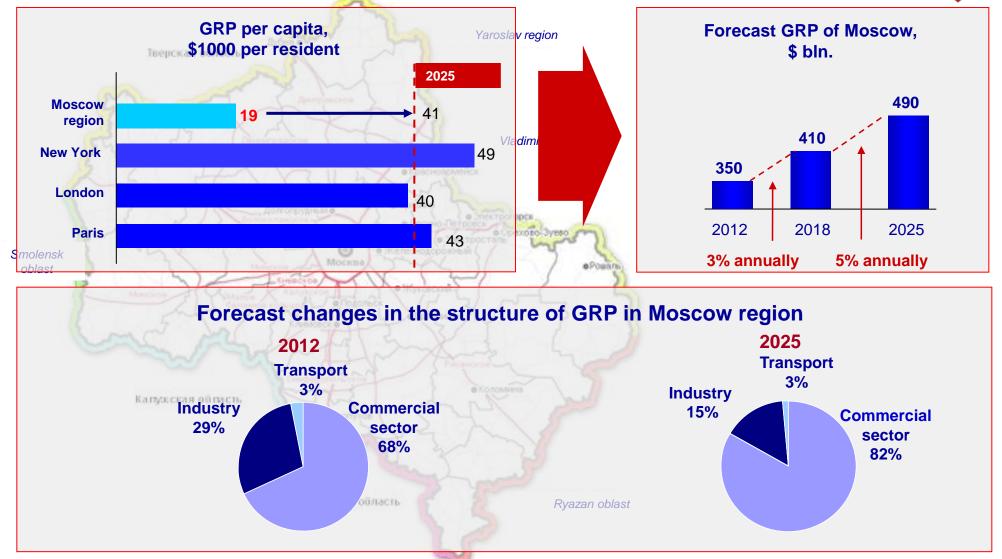
By 2025 Population and Quality of Life in Moscow Region will Increase Significantly





GRP in the Moscow Region will Increase by 2.5 Times, Its Structure will be Significantly Changed

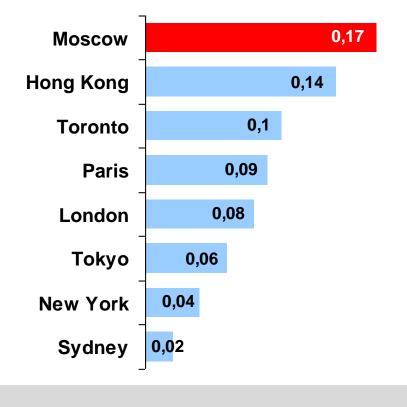




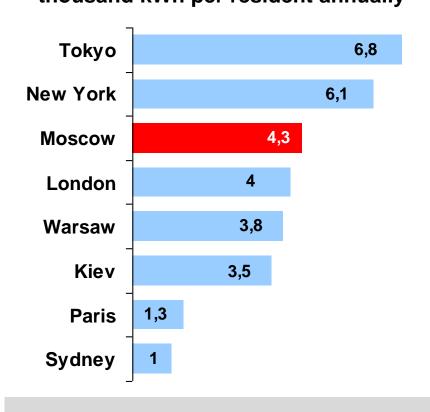
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Energy consumption per \$ 1 of GRP, kWh / \$ 1



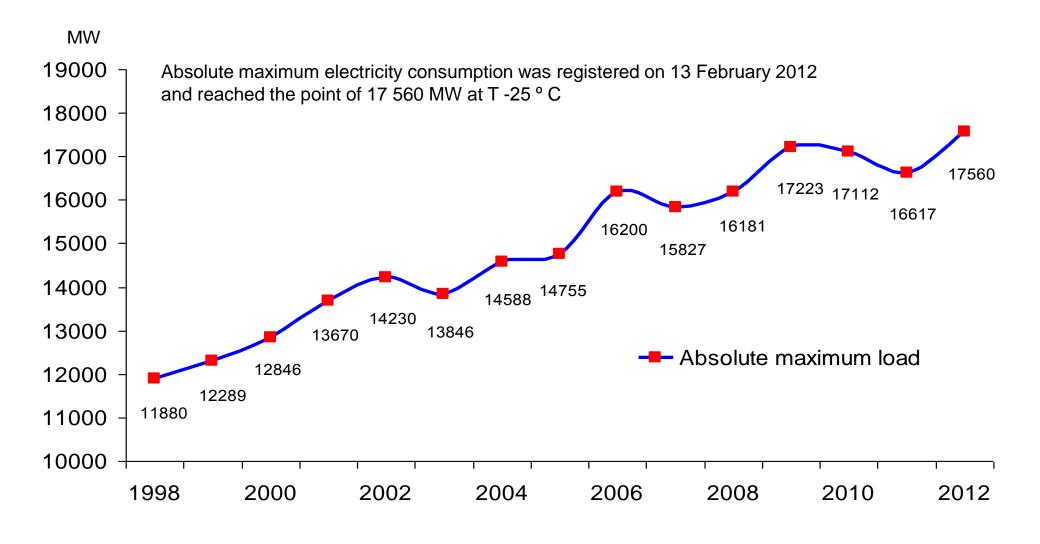
Energy consumption per resident, thousand kWh per resident annually



Energy-output of GRP of Moscow exceeds that of well-developed cities

Energy consumption in Moscow is comparable to that of well-developed cities

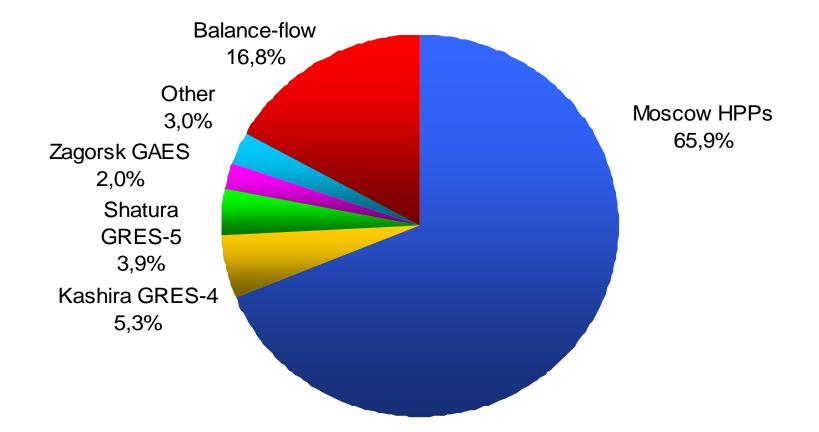




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The Structure of Energy Generating Capacities





Energy Policy: Key Priorities



Priorities

Development programs

- Growth in power generating base, expansion of grid infrastructure, development of energy retail sector
- Energy saving and introduction of energy efficient technologies into the sector
- Optimization of management and state regulation in the sector

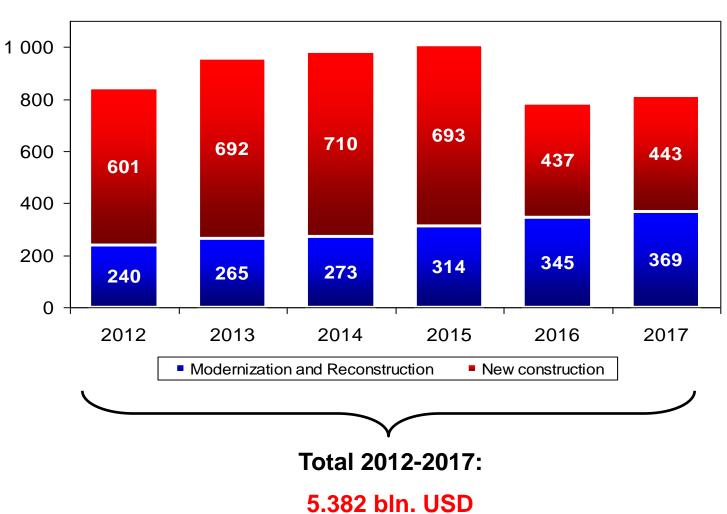
- General Scheme of Energy Supply in Moscow by 2020
- The state program "Energy Saving in Moscow in 2012-2016 and up to 2020"

The potential for investment projects

The potential for cooperation

Power Generating Capacities Development



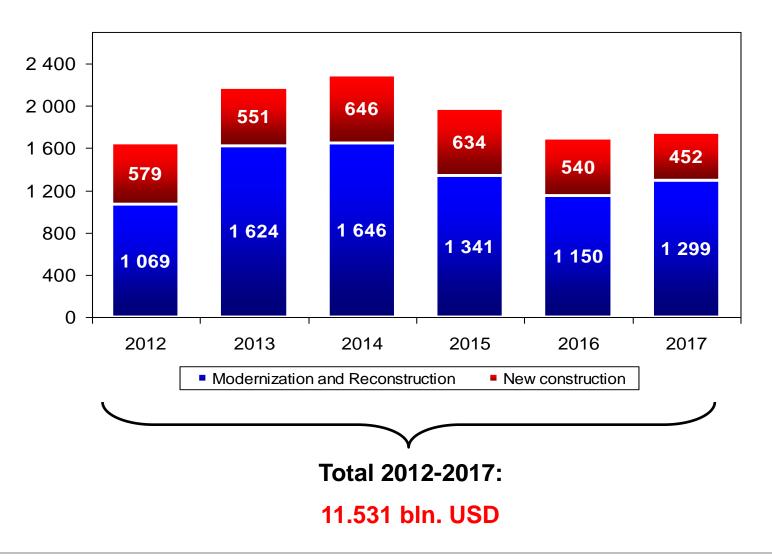


mln. USD

Grid Infrastructure Development



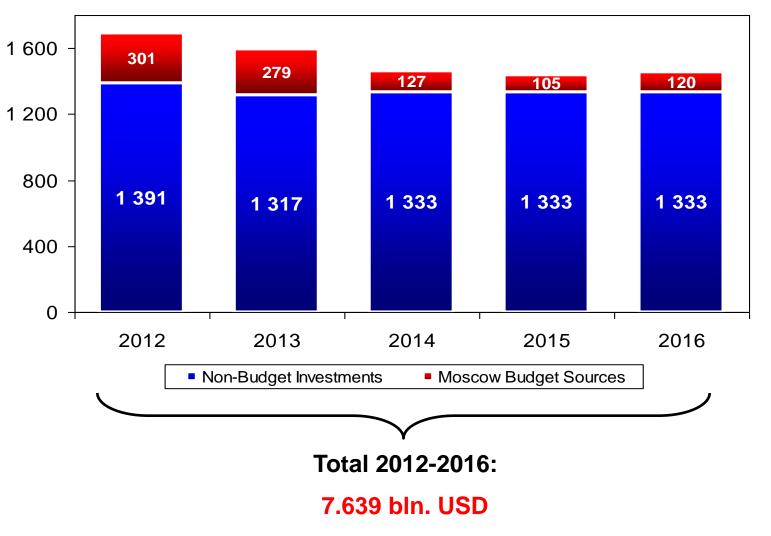
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Energy Saving Policy



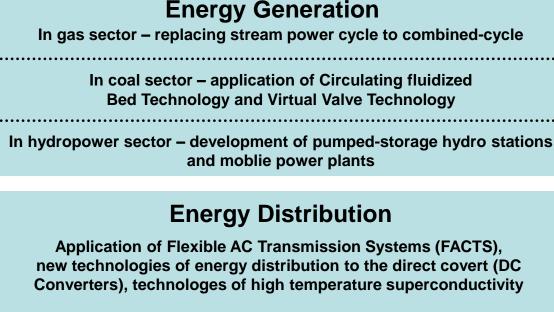
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New Technological Phase in Energy Sector









Electrical network is a passive element of the energy system

EC

EC

34%

34%

Energy Distribution

Application of Flexible AC Transmission Systems (FACTS), new technologies of energy distribution to the direct covert (DC Converters), technologes of high temperature superconductivity

Electrical network are becoming an active part of power system able to change the flow of energy and electricity

Regime management through administrative methods

Energy Dispatching

Radical update of information and information technologies based on the SCADA-EMS.

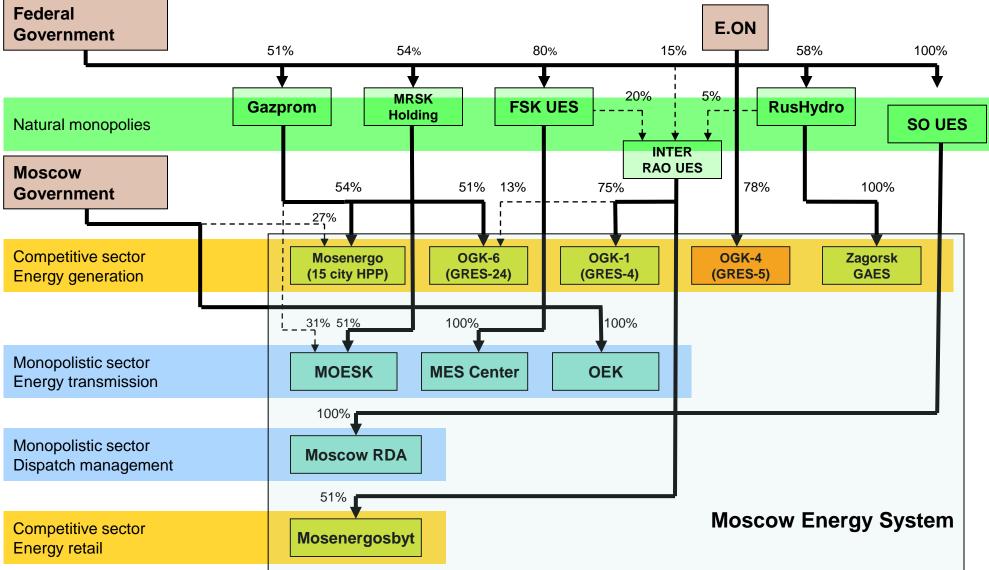
Creating a three-tier technological and vertical dispatching centers

Creation and maintenance of the electricity market, ancillary services market and balancing market

Regime management through economic motivation of the market participants

Structure of Moscow Energy System: Key Companies







Department for External Economic and International Relations

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