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Research

Oil and gas industry of Russia in 2013-2018

Investment projects and ratings of companies

Demo-version

- Condition of oil-and-gas industry in Russia: reserves, production, consumption, prices, investment activities
 - Benchmarking of performance indicators of the largest enterprises of oil-and-gas industry
 - Analysis of governmental regulation of Russian oil-and-gas industry: production, transportation, processing and sales
- Analysis of the production infrastructure of oil and gas industry
- Description of the largest investment projects in the industry and investment volumes forecast by segments till 2018

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Facts about INFOLine Information Agency INFOLine information agency was established in 1999, its aim was to render information and advisory services to commercial organizations. The agency renders permanent information support to more than 1000 companies in Russia and world-wide. On daily basis INFOLine IA monitors publications in more than 5 000 MSM and carries out analytical research according to 80 subjects of the RF economy. Since 2003 INFOLine IA has been conducting various desk researches of the markets both on the customer's request and on the Agency's own initiative. When working on a market research, the



NIPIgazpererabotka JSC.

Agency's analysts make extensive use of their unique data support and their years-long experience in various data flows operating. Research materials of INFOLine IA are used in their activities by the largest companies of oil-and-gas industry, leaders of extracting segment (NK Rosneft JSC, Gazprom JSC, Surgutneftegaz JSC, TAIF-NK JSC and others), the leading companies in the segment of hydrocarbon processing and oil&gas chemistry (SIBUR Holding JSC, BASF Group, Baker Petrolite and others), suppliers of industrial equipment and service companies (Trest Koksohimmontazh CJSC. Endress+Hauser LLC, Yokogawa Electric Corporation, Mitsubishi Corporation, Schneider Electric, Mitsui & Co. Moscow LLC and others), engineering companies of Russia and the world (Group E4 JSC, IMS Industries LLC, Promstroy JSC, GSK VIS LLC, Intehenergoresurs CJSC and others), leading scientific research organizations of fuel and energy sector - Gazprom VNIIGAZ LLC, VNIPIneft JSC, NIIgazekonomika LLC,

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About this Research

The Objective of the **Oil and gas industry of Russia in 2013-2018** research is a comprehensive, integrated study of development dynamics of oil-and-gas industry of Russia, key trends of governmental regulation of this sector, dynamics of investment activities of the major companies in oil-and-gas sector in Russia, assessment of the current volume of investments in oil-and-gas industry as a whole and by its segments, making a forecast for volume of investments in oil-and-gas industry till 2018, assessment of production facilities and transportation infrastructure.

In the process of preparation of **the research** the key trends that define directions for the development of oil and gas production and refining industries of Russia were identified. A positive tendency of the oil industry is formation of new oil producing centres in the Western and Eastern Siberia, Republic of Sakha (Yakutia), at Sakhalin's shelf, in the Caspian Sea. However, commissioning of new capacities in 2013-2018 does not compensate for production decline at depleted fields. Furthermore, commissioning of new oil deposits requires corresponding development of systems for associated petroleum gas reclamation, reclamation of condensate and other hydrocarbon materials, since their extraction volumes exceed the existing production capacities of petrochemistry enterprises, as well as capacities of pipeline transportation systems. The main restraining factors on the world natural gas market for Russian players are excess supply of natural and regasified liquefied gas, stagnation of Europe's economy and active policy of import diversification conducted by the EU countries, as well as insufficient development of gas transportation system in the Eastern export direction. Although Russian leadership on European gas market is affected by "shale revolution" in the USA and potential growth of export volume from alternative places, active economic growth in APR countries creates new opportunities for LNG export. However there is a risk that by 2020 the share of Russia on the international LNG market will be reduced from 4.5 to 2%.

Growing energy consumption necessitates implication of non-conventional types of oil and gas reserves, especially hard-to-recover ones (high viscosity oil, oil in hardly permeable underground reservoirs, reserves of shelf deposits). The act on stimulation of hard-to-recover reserves development provides differentiated tax rates; the approach to taxation of the natural gas industry is to be changed radically – from fixed prices to a formula that depends on the natural gas and condensate prices. Tax incentives for hard-to-recover reserves, among other things, will allow Rosneft JSC to exploit about 1.4 billion tonnes of oil reserves and achieve by 2020 the additional volume of oil production amounting to about 7.3 million tonnes annually with potential growth to 13.5 million tonnes annually by 2030 with a stable oil rate-plateau.

Oil and gas industry of Russia in 2013-2018 research contains an introductory part, which describes the objectives, tasks and structure of the research, main prerequisites and results of the product's development. It is followed by 4 main sections: report contains an introductory part, which describes the objectives, tasks and structure of the Research, main prerequisites and results of the product's development and is followed by 2 main parts divided into 7 main sections:

Section I. Condition of Russian oil and gas industry and world market includes description of the current situation and trends of mineral resources base development in Russia (proved reserves, oil and gas production and refining volumes in the world and in Russia), dynamics of prices on the world and home markets, analysis of the main indicators of production infrastructure development in extraction and refining segments, volumes of liquefied gas production, analysis of industry's demand for investments and special features of the government regulation.

Section II. Benchmarking of activities of the largest companies includes ratings of companies by their main operational and financial indicators, as well as investment activity indicators.

Section III. Analysis of the production infrastructure of the oil and gas industry describes main production and refining facilities of oil and gas industry by indicators of production capacity, amortisation and others.

Section IV. Investment project and forecast for development of oil and gas industries of Russia describes the investment activity and its key focus, forecast for investments volume, including implementation of investment projects and detailed description of the main projects. The section contains a structured description of major investment projects, which determine the key development trends of production, transportation and refining capacities in the oil and gas industry of Russia in 2013-2018. This description includes detailed contact information about all announced project's participants (investors, prime contractors, design engineers, suppliers), planning investment volumes, geographical region of the project's implementation, technical specifications of production capacities under construction, condition of the project at the moment of the update, deadline of reaching the design capacity, deadlines of completion of project's separate stages and completion of the project as a whole. Investment activity in the oil industry has been analysed and presented by segments.

For the purpose of verification and update of the information about the companies included in this Research, in May 2013 the specialists of INFOLine carried on the following activities:

- phone polling of 150 companies operating in the segment of engineering design and construction of facilities for oil-and-gas industry
- survey among more than 100 companies contractors of vertically-integrated oil companies, enterprises of Gazprom Group, SIBUR, NOVATEK and other players of this market (design engineers, contractors and suppliers)
- adjustment of data in reference entries according to the information received from the described companies.

The most important features of **the research** are as follows:

- Detailed and structured description of major investment projects, which involve more than 100 design and construction organisations
- Up-to-date forecast of investments into oil and gas industry during 2013-2018, structured by industry segments and largest companies
- Integral description of the oil production, transportation and refining infrastructure, characteristics of the key development trends of facilities in each segment
- Forecast for growth of capacities for oil production, transportation and processing, taking into account the conditions of currently operating facilities and investment projects being implemented in the industry
- Comparative analysis and ratings of operational, financial and investment indicators of the major market players

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Section I. Condition of Russian oil and gas industry and world market

1.1. Condition of oil and oil refining sector

According to the Statistical Review of World Energy,¹ Russia belongs to the first ten countries with the largest oil reserves, giving way to countries of Middle East and Venezuela only. <...> In Russian Federation the oil reserves of industrial grade (ABC₁+C₂) in the volume of ... billion tonnes of oil can ensure current level of production during next ... years. <...>



In 2012 oil-and-gas condensate production in Russia increased: 518.0 million tonnes of oil was produced, that exceeds the results of 2011 by 1.3%. Growth rates of oil production practically did not change since 2011, and then the oil production grew by 1.23% against 2010. <...>



Russia reached a stage when it needs to maintain the existing production level under conditions of much worse reserves' structure. The primary focus of the government policy with the regard to develop the oil industry is to motivate exploration and development of new large oil deposits in Russia and improvement of hydrocarbons transportation system. <...>

The oil export from Russia to non-CIS countries in 2012 declined by ...%, coming to ... million tonnes. To CIS countries ... million tonnes of Russian oil there were exported (decrease by ... %). Volume of oil deliveries for refinement, on the contrary, increased – up to...million tonnes (+... %).

Demo-version

¹ Annual statistic survey prepared by British Petroleum plc.

Research Oil and gas industry of Russia in 2013-2018 Demo-version



The structure of global oil refining industry in 1995-2011 experienced noticeable technology shifts, the growth rates increased for processes of deeper oil refinement, processes of hydroskimming, as well as for processes of improvement of the quality of motor gasoline; their growth rates considerably outrun the growth rates of oil refinement volumes. <...>

Dynamics and structure of primary oil processing capacities in Russia and world regions in 2000-2012, mln. barr./day



I in 2012 the volumes of primary crude oil distillation in Russia increased by 4.9%, to ... million tonnes (while the governmental measures of oil industry regulations provided for decrease by ... million tonnes – to ... million tonnes). <...>



Dynamics of primary oil processing in Russia in 2000-2012

1.2. Analysis of the governmental regulation of oil industry

The section contains description of the measures taken by the Government in order to stimulate the development of this industry in following directions:

- Regulation of oil production (in regions with declining production volumes; in new regions of Siberia and Far East; on shelf; production development programs)
- Regulation of oil and oil products transportation (tariffs formation, regulation of access to pipeline transportation system – oil and oil products pipelines; programs aimed at development of oil and oil products transportation systems).
- Regulation of oil refining (tax burden; price formation; operation of enterprises – licensing, safety, modernization; refining development programs).
- Regulation of oil and oil products export, sales in the RF

and assessment of their influence on the investment activities in the oil industry.

1.3. Condition of gas and gas processing industry

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The aggregate volume of mineral resources base of free gas in Russia is estimated as ... trillion cubic meters. <...> About 68% of the free gas balance reserves are concentrated in the West Siberian oil-and-gas bearing basin, situated on the territory of Urals federal region, including the western part of Siberian FR and near-Yamal shelf of the Kara Sea. <...>



In 2012 gas production index came up to ... billion cubic meters, declining by ...% in comparison to 2011 (in 2011 gas production in Russia increased by ... %).

In 2012 gross production of oil associated gas in Russia came up to ... billion cubic meters, among them ... billion cubic meters were flare burned, ... billion cubic meters (...%) were used. The structure of oil associated gas consumption in Russia includes about ... billion cubic meters (...% of total production) delivered to gas processing plants; ... billion cubic meters (...%) were used by oil companies for gas injection and electrical energy generation. In 2012 investments into efficient utilisation of oil associated gas in Russia came up to about ... billion rubles, there were commissioned about ... electrical energy industry facilities, ... facilities for treatment of oil associated gas, about ... kilometres of pipelines were built. <...>



Export of pipeline gas to non-CIS countries decreased in 2012 by ...% – to ... billion cubic meters, export to CIS countries decreased by ...% – to ... billion cubic meters. Export of liquefied natural gas (LNG) to countries of Asia-Pacific Region (APR) came up to ... billion cubic meters in 2012 (growth by ... million cubic meters). <...>

1.4. Analysis of governmental regulation of gas industry in Russia

The section contains description of the measures taken by the Government in order to stimulate the development of this sector in following directions:

- Gas production regulation
- Gas transportation regulation
- Gas processing regulation
- Gas consumption regulation
- Gas export regulation
- Regulation of internal price formation

and assessment of their influence on the investment activities in the gas industry.

Section II. Benchmarking of largest companies' performance

2.1. Benchmarking of performance indicators of oil production companies

The section contains comparison of oil and gas producers by production capacity, types and structure of well's stock, volumes and dynamics of production by types of products. Data is presented according to the information obtained from the Central Dispatching Department of Fuel Energy Complex (CDU TEK), the Federal State Statistic Service (FSSS) and annual reports of public companies, accomplished by estimations and critical analysis of INFOLine specialists.



Surgutneftegaz is a leader by the ratio of producing wells to total amount of operating wells (... %), smallest one- TNK-BP Holding (... %). In 2012 the average share of producing wells in operating well stock amounted to \dots % (in 2011 – \dots %). <...>

Dynamics of oil refining by companies, 2009-2012

Common service locat	Primary	crude oil p	processing,	000 tonnes	Production i	in 2011-2012,	000 tonnes
Company/plant	2009	2010	2011	2012	petrolium	diesel fuel	fuel oil
**JSC OC Rosneft	*	*	*	*	*	*	*
Rosneft- Komsomolsk ORP2	*	*	*	*	*	*	*
Rosneft - Tuapse ORP	*	*	*	*	*	*	*
Rosneft - Syzran ORP	*	*	*	*	*	*	*
Rosneft - Novokuibyshevsk ORP	*	*	*	*	*	*	*
Kuibyshev ORP	*	*	*	*	*	*	*
Achinsk ORP	*	*	*	*	*	*	*
Angarskaya PHC3	*	*	*	*	*	*	*
JSC LUKOIL	*	*	*	*	*	*	*
LUKOIL-Volgograd refinery	*	*	*	*	*	*	*
LUKOIL-Perm refinery	*	*	*	*	*	*	*
LUKOIL-Uhta refinery	*	*	*	*	*	*	*
LUKOIL- Nizhny Novgorod Refinery	*	*	*	*	*	*	*
JSC Gazprom neftehim Salavat	*	*	*	*	*	*	*
JSOC Bashneft	*	*	*	*	*	*	*
Novoufimsky ORP (Novoil)	*	*	*	*	*	*	*
Ufaneftekhim	*	*	*	*	*	*	*
Ufimsky ORP	*	*	*	*	*	*	*
JSC Surgutneftegas	*	*	*	*	*	*	*
Kirishinefteorgsintez	*	*	*	*	*	*	*
JSC Gazprom Neft	*	*	*	*	*	*	*
Gazprom Neft -OmskORP	*	*	*	*	*	*	*
Gazprom Neft -Moscow ORP	*	*	*	*	*	*	*
JSC OC Russneft	*	*	*	*	*	*	*

² Oil refinery plant

³ PHC- petrohemical company

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Company/plant -	Primary o	crude oil p	rocessing,	Production in 2011-2012, 000 tonnes			
Company/plant	2009	2010	2011	2012	petrolium	diesel fuel	fuel oil
Krasnodareconeft 4	*	*	*	*	*	*	*
Orsknefteorgsintez 5	*	*	*	*	*	*	*
JSC OC Alliance	*	*	*	*	*	*	*
Khabarovsk ORP	*	*	*	*	*	*	*
JSC NGK Slavneft	*	*	*	*	*	*	*
Slavneft - YANOS	*	*	*	*	*	*	*
JSC TNK-BP Holding	*	*	*	*	*	*	*
Ryazan ORC	*	*	*	*	*	*	*
SaratovORP	*	*	*	*	*	*	*
JSC Taif-NK	*	*	*	*	*	*	*
LLC Afipskiy ORP	*	*	*	*	*	*	*
JSC Novoshakhtinsk ORF6	*	*	*	*	*	*	*
JSC TANECO	*	*	*	*	*	*	*
JSC Gazprom	*	*	*	*	*	*	*
Small-ORP	*	*	*	*	*	*	*
Russia, total	*	*	*	*	*	*	*

The highest ratio of crude oil production per producing well was demonstrated by Gazprom Neft till 2010, but, due to its continuous decrease, starting from 2011 Rosneft had the highest ratio (... thousand tonnes): Gazprom Neft – ... thousand tonnes. In 2011 increase of the ratio of crude oil production per producing well was demonstrated only by Rosneft (by ... %) and Bashneft (by ... %) amid decreasing amount of producing well by ...% and ...% correspondingly. Downward trend is distinctive for the majority of vertically integrated oil companies: in some cases it is caused by the extensive way of production development, in the other it is driven by company's failure to provide sustainable level of production on the termination stage of well development. <...>

2.2. Benchmarking of financial performance indicators for oil production companies

The section contains comparison of oil producers by volume and growth dynamics of revenue, total profit, net profit, asset value, profit margin (by total profit, net profit and assets). <...>

.....



Revenue of oil companies in Russia in 2004-2012 and I half of 2013, billion dollars

⁴ In 2009 withdraw from "Russneft".

⁵ From 1.07.2011 withdraw from "Russneft".

⁶ Oil refinery factory

Research Oil and gas industry of Russia in 2013-2018 Demo-version

In 2012 net profit of JSC Surgutneftegaz increased by ...%, JSC Gazpron by ...%, JSC TNK-BP Holding - by ...%, JSC Tatneft - by ...%, JSC Rosneft, JSC Russneft and JSC Bashneft - by ...%, JSC LUKOIL - ...%. Net profit of JSC Slavneft decreased 16 times. Next diagram presents net profit of oil companies in 2010-2012. <...>

Return on assets for oil and gas companies, 2011-I half 2013, %



In total profit margin of coke and oil products refining in Russia amounted to ...% in 2005, in 2007 - ... %, in 2008 - ... %, in 2009 - ... %, in 2010 - ... %, in 2011 - 19.3%. In 2012 oil processing contribution decreased to ... dollars per barrel from ... dollars per barrel in 2011, due to policy of fuel prices containment on Russian internal market and introduction of "60-66" tax regime.⁷ <...>

2.3. Benchmarking of investment activity indicators

The leaders of the total volumes of investment into oil production capacities development among oil companies are such companies as NK Rosneft JSC, Lukoil JSC and Surgutneftegaz JSC, which collectively account for up to 80% of investment volumes into oil production in Russia <...>



Dynamics of investments structure in oil industry by companies in 2005-2012 and forecast till

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Section III. Analysis of the production infrastructure of the oil and gas industry

3.1. Overview of production facilities and infrastructure for oil and gas recovery

According to the results of 2012 gas operating well stock increased by ...% from 2011. <...>





3.2. Overview of pipelines' condition and transportation facilities

According to the results of 2012 the length of gas transmittal pipelines and its branches, owned by JSC Gazprom and its subsidiaries, amounts to ...km in Russia. Objects of GTN (gas transmission network) include ... compression stations with ... GPU (gas-pumping unit) with total capacity of ... MW. Gas in GTN is delivered to production and refining subsidiaries and Underground Gas Storage Facilities with total length of ... km <...>

Dynamics of gas pipelines length in Russia 2000-2012



3.4. Overview of production facilities and infrastructure for oil and gas refining

In Russian structure of refining Secondary Refining processes in Russia significantly prevalent (hydrotreatment and reforming for motor gasoline production), while Tertiary Refining prevalent worldwide (cracking and destruction of diesel oil and fuel oil to produce light oil). Therefore in production structure of Russian refineries fuel oil accounts 28%.

In Russia capacity of secondary refining is less than 50% of primary refining capacities (127 bn tonnes), while this rate worldwide is about 90%. <...>

Demo-version

The full text of this section contains description of production infrastructure of oil and gas recovery and refining, along with transport infrastructure.

Section IV. Investment project and forecast for development of oil and gas industries of Russia 2013-2018

4.1. General description and forecast of investment activities in oil-and-gas industry

The dynamics analysis of investments into production of crude oil and natural gas demonstrates stage-by-stage increase of basic capital reproduction volumes. Cumulatively, during 12 years the volume of investments increased 16 times (in 1999 this volume was 81.3 billion rubles.). <...>

Dynamics of investment into basic capital of oil- and gas-producing enterprises in Russia in 2000-2012, bln. rub. (current prices)



Dynamics of investment into oil industry development projects in 2008-2012 and forecast



Dynamics of investment into gas industry development projects in 2008-2012 and forecast till 2018, trl. rub.



Data source: Data and calculations of INFOLine IA

Detailed structure of investments into oil-and-gas projects is described in the table:

Table 1. Forecast for investments volume in oil-and-gas industry of Russia by its main segments for the period till 2018, billion rubles

	UIIIOII	lubics							
Branch	Segment of industry	2011	2012	2013	2014	2015	2016	2017	2018
	Oil production								
	Oil refining								
Oil	Petrochemistry								
	Transportation of oil and oil products ⁸								
	Aggregate volume of investments								
Gas	Primary gas treatment								
	Gas processing								
	Liquefaction of natural gas								
	Gas chemistry								
	Transportation of gas ⁹								
	Aggregate volume of investments								
Total	Investments volume	•••	•••	•••	•••	•••	•••	•••	•••
	D	C .1	DEC			• . (

Data source: Data of the RF Government, Ministry of Energy, companies, calculations of INFOLine IA

⁸ The segment includes such facilities as oil trunk and gathering pipelines, oil products trunk pipelines, pumping stations, storage facilities as well as railroad and water transport infrastructure.

The segment includes such facilities as gas trunk and pipelines, oil products trunk pipelines, compressor plants, trunk product pipelines and condensate pipelines, facilities for storage and shipment of liquefied hydrocarbon gases.

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4.2. Largest investment projects and forecast of investment activity by segments of oil industry

Aggregate volume of investment during 2012-2018 into oil industry projects is estimated by the specialists of INFOLine as ... billion rubles (... billion US dollars), including:

- into oil production facilities ... billion rubles (... billion US dollars)
- into oil refining facilities ... billion rubles (... billion US dollars)
- into oil and oil products transportation facilities ... billion rubles (... billion US dollars)
- into facilities of petrochemistry ... billion rubles. (... billion US dollars) <...>

Investments into oil production facilities

The goal of the Government's strategy in this sector is to maintain the existing volumes of oil production, which, in long-term perspective, requires additional investments and creations of governmental economic incentives for oil production in all fields. <...>





Investments into oil refining facilities

Russia has a considerable potential for development of its oil refining industry through decreasing the export share of crude oil and increasing it for oil refining share, with simultaneous introduction of advanced oil refining processes.

Investments into oil and oil products transportation facilities

Milestones of oil transportation system development in Russia are determined, in the first place, by the Program of Strategic Development of AK Transneft JSC for the period till 2020^{10} , which was formulated on the basis of:

- Master plan for development of oil industry till 2020
- Program for retrofitting, overhaul and development of oil trunk pipelines facilities of AK Transneft JSC¹¹
- Program for innovative development of AK Transneft JSC for the period till 2017¹²
- Program for energy saving and improvement of energy efficiency of AK Transneft JSC for the period till 2015¹³ <...>

Investments into petrochemistry facilities

As a part of the Plan for Development of Gas and Petrol Chemistry in Russia for the Period till 2030 (I stage) there were defined 6 key clusters: West Siberian, Volga, Caspian, North-Western, East Siberian and Far Eastern. <...>

....

¹⁰ Approved by the Board of Directors of AK Transneft JSC (minutes No.2 of 31.01.2012)

¹¹ Approved by the management board of AK Transneft JSC

¹²Approved by the Board of Directors of management board AK Transneft JSC, by the Ministry of Energy of the RF, Ministry of Education and Science of the RF, Ministry of Economic Development of the RF, by the working group for development of private-governmental partnership in the field of innovations at the Government Commission on high technology and innovation (minutes No.15-AK of 13.04.2011)
¹³ Approved by the Board of Directors of AK Transneft JSC and Department of Governmental Energy Policy and Energy Efficiency of the Ministry of

¹³ Approved by the Board of Directors of AK Transneft JSC and Department of Governmental Energy Policy and Energy Efficiency of the Ministry of Energy of the RF

4.3. Largest investment projects and forecast of investment activity by segments of gas industry

Aggregate volume of investments during 2012-2018 into gas industry projects is estimated by the specialists of INFOLine as ... billion rubles (... billion US dollars), including:

- into facilities of gas production ... billion rubles. (... billion US dollars)
- into facilities of gas processing ... billion rubles. (... billion US dollars)
- into facilities of gas transportation ... billion rubles. (... billion US dollars)
- into facilities of gas chemistry ... billion rubles. (... billion US dollars)
- into facilities of liquefaction gas ... billion rubles. (... billion US dollars) <...>

Forecast of investments into gas industry projects, in Russian rubles and US dollar (rate of exchange 1 US dollar = 30 rubles), is presented on the following diagrams. <...>







Investments into facilities of gas production

The volume of investments into construction and development of gas production facilities during 2012-2018 will come up to ... billion rubles (... billion US dollars). In the long-term perspective Nadym-Pur-Taz region of Western Siberia will remain the main gas producing region of Russia, the main gas reservoirs, already exploited and those to be developed in the short-term perspective, are concentrated there. The further gas extraction in this region depends on exploitation of deep-level oil- and condensate-containing deposits, defined by complicated mining and geological conditions and multicomponent composition of formation fluid. <...>

Dynamics of investments into gas production development facilities in 2009-2012 and forecast till 2018, bln. rub.



Investments into facilities of gas processing

The volume of investments into construction and development of gas production facilities during 2012-2018 will come up to ... billion rubles (... billion US dollars). The investment forecast is presented at the following diagram. <...>

Investments into gas chemistry facilities

The volume of investments into construction and development of gas chemistry facilities during 2012-2018 will come up to ... billion rubles (... billion US dollars). The development of the world market shows that to make natural gas a global energy resource it is required to introduce an economically-efficient way to convert it into liquid motor fuel or hydrocarbon material for petrochemical industry. In connection with such trends during several past decades the gas chemistry singled out into an independent industry branch, in some countries – even more priority-oriented than petrochemistry. <...>

Investments into facilities of gas liquefaction

The volume of investments into construction and development of gas liquefaction facilities during 2012-2018 will come up to ... billion rubles (... billion US dollars). At the existing gas transportation technology level it is difficult to determine natural gas as a global energy resource: while the global oil market is supported by a powerful tanker fleet, the natural gas market is tied to the existing pipelines, and transportation of liquefied natural gas requires investments that make this energy resource affordable to the most wealthy countries only. <...>

Investments into facilities of gas transportation

The volume of investments into construction and development of gas transportation facilities during 2012-2018 will come up to ... billion rubles (... billion US dollars).). Annual volume of investments of Gazprom JSC into gas transportation in the long-term perspective is planned to reach ... billion rubles (among them about ...billion rubles annually will be required for implementation of retrofitting and modernization program, about ... billion rubles annually will be required for expansion of existing capacities and construction of new gas transportation systems). <...>

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Section IV includes description of investment projects of oil and gas industry, which are being implemented or planned for implementation in the medium term. Research includes forecasts of investment in oil and gas industry of Russia for 2013-2018, structured by segments (downstream, transportation, refining) and structured by major companies. Total capital expenditures in oil and gas industry of Russia will amount over \$ 540 billion in 2013-2018.