

**SCHEDULE**  
**V International Conference**  
**“Environmental safety in the gas industry”**  
**(ESGI-2017)**

Razvilka

Gazprom VNIIGAZ LLC

**December 05, 2017, Tuesday**

<b>8.40–9.00</b>	Meeting the conference participants	Domodedovskaya metro station
<b>9.00–10.00</b>	Registration of the conference participants and guests. Presentations Upload. Morning coffee	1 <sup>st</sup> floor, block E Gazprom VNIIGAZ LLC
<b>10.00–11.30</b>	<b>Plenary session</b>	Hall 302, 3 <sup>rd</sup> floor, block E
<b>11.30–11.45</b>	Coffee break	2 <sup>nd</sup> and 3 <sup>rd</sup> floors, block E
<b>11.45–13.30</b>	<b>Plenary session</b>	Hall 302, 3 <sup>rd</sup> floor, block E
<b>13.30–14.30</b>	Lunch break	Restaurant of the hotel of Gazprom VNIIGAZ LLC
<b>14.30–17.00</b>	<b>Plenary session</b>	Hall 302, 3 <sup>rd</sup> floor, block E
<b>16.00–16.15</b>	Coffee break	2 <sup>nd</sup> and 3 <sup>rd</sup> floors, block E
<b>16.15–17.00</b>	<b>Plenary session</b>	Hall 302, 3 <sup>rd</sup> floor, block E
<b>9.30–17.00</b>	Exhibition of advanced technologies and equipment for occupational safety, accounting of energy resource consumption and automated systems for environmental impact monitoring	2 <sup>nd</sup> floor, block E
<b>17.00–20.00</b>	<b>Gala Dinner and Entertainment Program</b>	1 <sup>st</sup> floor, block E
<b>20.15</b>	Departure to Domodedovskaya metro station	Restaurant of the hotel of Gazprom VNIIGAZ LLC

**December 06, 2017, Wednesday**

<b>8.20–8.40</b>	Meeting the conference participants	Domodedovskaya metro station
<b>8.20–9.00</b>	Presentations Upload. Morning coffee	1 <sup>st</sup> floor, block E Gazprom VNIIGAZ LLC
<b>9.00–16.00</b>	<b>Panel discussions</b>	Block E, Gazprom VNIIGAZ LLC

<b>9.00–11.00</b>	<b>Panel discussion A</b> Climate change: anthropogenic pressing or a natural process	Hall 203, 2 <sup>nd</sup> floor, block E
<b>11.20–13.30</b>	<b>Panel discussion B</b> Innovation-driven development of the industry – vector towards energy efficiency and environmental friendliness	Hall 203, 2 <sup>nd</sup> floor, block E
<b>14.30–16.00</b>	<b>Panel discussion C</b> Transition to the best available technologies: the first results and prospects	Hall 203, 2 <sup>nd</sup> floor, block E
<b>9.00–16.00</b>	<b>Panel discussion D</b> Increasing the energy efficiency of production plants – advantages and disadvantages for oil and gas companies	Hall 204, 2 <sup>nd</sup> floor, block E
<b>10.00–13.30</b>	<b>Panel discussion E</b> Occupational risk management as a part of the occupational safety management system	Hall 202, 2 <sup>nd</sup> floor, block E
<b>9.00–11.00</b>	<b>Panel meetings</b>	2 <sup>nd</sup> floor, block E
<b>11.00–11.20</b>	<b>Coffee break</b>	1 <sup>st</sup> floor, block E
<b>11.00–11.20</b>	<b>Poster sessions</b>	1 <sup>st</sup> floor, Block E
<b>11.20–13.30</b>	<b>Panel meetings</b>	2 <sup>nd</sup> floor, block E
<b>13.30–14.30</b>	Lunch break	Restaurant of the hotel of Gazprom VNIIGAZ LLC
<b>14.30–16.00</b>	<b>Panel meetings</b>	2 <sup>nd</sup> floor, block E
<b>16.00–16.20</b>	<b>Coffee break</b>	1 <sup>st</sup> floor, block E
<b>16.20–17.00</b>	<b>Closing Plenary Session</b>	Hall 203, 2 <sup>nd</sup> floor, block E
<b>9.00–17.00</b>	Exhibition of advanced technologies and equipment for occupational safety, accounting of energy resource consumption and automated systems for environmental impact monitoring	2 <sup>nd</sup> floor, block E
<b>17.30</b>	Departure of the conference participants to the Domodedovskaya metro station	Block E, Gazprom VNIIGAZ LLC

## PROGRAM

### V International Conference “Environmental safety in the gas industry” (ESGI-2017)

Razvilka

Gazprom VNIIGAZ LLC

*December 5, 2017, Tuesday*

#### PLENARY SESSION

(Hall 302, block E)

<b>9.00–10.00</b>	<b>Registration of the conference participants and guests. Presentations Upload.</b>	1 <sup>st</sup> floor, block E, Gazprom VNIIGAZ LLC
<b>10.00–11.20</b>	<b>Reports</b>	Hall 302, 3 <sup>rd</sup> floor, block E
<b>10.00–10.05</b>	<b>Opening of the conference <i>Dmitry Vladimirovich Lyugay</i> (General Director of Gazprom VNIIGAZ LLC)</b>	Hall 302, 3 <sup>rd</sup> floor, block E
<b>10.05–10.15</b>	<b>Official greetings:</b>  <b><i>Oleg Yevgenyevich Aksyutin</i></b> (Management Committee Member, Department Head, Gazprom PJSC)  <b><i>Pavel Nikolaevich Zavalny</i></b> (Deputy Chairman of State Duma Federal Assembly of the Russian Federation on energy, President of the Russian Gas Society)	Hall 302, 3 <sup>rd</sup> floor, block E
<b>10.15–11.20</b>	<b>Reports</b>	Hall 302, 3 <sup>rd</sup> floor, block E
<b>10.15</b>	<b>P1</b> <b><i>Alexander Gavrilovich Ishkov</i></b> (Deputy Head of the Department of Gazprom PJSC, head of the Department of energy saving and ecology) The results of the environmental protection activities of PJSC "Gazprom" and the new requirements of environmental legislation	

<b>10.35</b>	<b>P2</b>	<b><i>Dmitry Vladimirovich Lyugay</i></b> (General Director of Gazprom VNIIGAZ LLC) Role of Gazprom VNIIGAZ LLC in efficient response to modern ecological and climatic challenges
<b>10.55</b>	<b>P3</b>	<b><i>Vladimir Aleksandrovich Grachev</i></b> (President of the non-government environmental fund named after V.I. Vernadsky) Environmental projects Fund named after V.I. Vernadsky in the Year of environment in Russia and PJSC "Gazprom" at the international and regional level. Environmental collaboration with Participants and partners of the Fund.  Awarding the affiliate organizations of Gazprom JSC by the non-government environmental fund named after V.I. Vernadsky for the most valuable measures taken within the frame of the Year of Ecology
<b>11.15</b>	<b>P4</b>	<b><i>Yury Nikolaevich Fedorov</i></b> (The Ministry of Economic Development and Trade) Economic mechanisms of the state regulation of greenhouse gases
<b>11.30–11.45</b>	Coffee break	
		2 <sup>nd</sup> and 3 <sup>rd</sup> floors, block E
<b>11.45–13.30</b>	<b>Reports</b>	
		Hall 302, 3 <sup>rd</sup> floor, block E
<b>11.45</b>	<b>P5</b>	<b><i>Alexey Ivanovich Kulapin</i></b> (Department of national energy policy of Ministry of Energy of the Russian Federation) National policy of Environmental Safety and climate change for Oil and Gas companies
<b>12.05</b>	<b>P6</b>	<b><i>Mikhail Leonidovich Ginarskiy</i></b> (Institute of Global Climate and Ecology of Rosgidromet and RAS) National parameters for calculation of greenhouse gas emission in the Russian oil and gas sector
<b>12.25</b>	<b>P7</b>	<b><i>Brigitte Bichler, Christoph Puls</i></b> (OMV Aktiengesellschaft) Scientific and technical cooperation and partnership PJSC "Gazprom" and "OMV Aktiengesellschaft". Working group VI "Energy Saving and Environmental Protection"

<b>12.45</b>	<b>P8</b>	<b><i>Nikolay Sergeevich Burenin</i></b> (Head of the laboratory of the methodology for atmospheric emission standardization, deputy head of the department of methodological bases of standardization and establishing of technical standards of emissions, SRI Atmosphere) Methodical aspects of emission standardization emission with account of implementation of the best available technologies
<b>13.00</b>	<b>P9</b>	<b><i>Natalya Borisovna Pystina</i></b> (Director of Center, Gazprom VNIIGAZ LLC) Corporate system of energy efficiency and greenhouse gas emission management at Gazprom PJSC
<b>13.15</b>	<b>P10</b>	<b><i>Johan Ruut</i></b> (Russian-German Project “Climatically neutral economic activity: implementing BAT in RF”) Environmental regulation on the principles of Best Available Technology (BAT): the experience of EU member states transition and the process of BAT implementation in the Russian Federation
<b>13.30–14.30</b>	Lunch break Restaurant of the hotel of Gazprom VNIIGAZ LLC	
<b>14.30–17.00</b>	<b>Reports</b> Hall 302, 3 <sup>rd</sup> floor, block E	
<b>14.30</b>	<b>P11</b>	<b><i>Mikhail Alekseyevich Bolsunovsky</i></b> (Sovzond LLC) Aerospace monitoring for solving of environmental tasks
<b>14.50</b>	<b>P12</b>	<b><i>Vasily Igorevich Bogoyavlensky</i></b> (Head of Geoecology Chair, Gubkin Russian State University of Oil and Gas) Geoecological challenges of hydrocarbon development in the Arctic and World ocean
<b>15.10</b>	<b>P13</b>	<b><i>Elena Vasilyevna Agbalyan</i></b> (State Public Institution of Yamal-Nenets Autonomous District “Scientific Center for Arctic Study”) Priority areas for scientific research in the field of ecology in Yamal-Nenets Autonomous District

<b>15.30</b>	<b>P14</b>	<b>Sergey Anatolyevich Roginko</b> <i>(Head of Ecology and Development Center, Institute of Europe of RAS)</i> The Paris agreement: new challenges for the gas industry
<b>15.50</b>	<b>P15</b>	<b>Elmurod Abdurakhimovich Rasulmukhamedov</b> <i>(Central Council of All-Russian Society of Nature Conservation)</i> Russia – Eurasian climate initiative of All-Russian Society of Nature Conservation
<b>17.30–20.00</b>	<b>Entertainment program. Gala dinner</b>	1 <sup>st</sup> floor, block E Gazprom VNIIGAZ LLC
<b>20.15</b>	Departure of the conference participants to the Domodedovskaya metro station	Central entrance to the hotel of Gazprom VNIIGAZ LLC

December 6, 2017, Wednesday

## PANEL DISCUSSION A

### CLIMATE CHANGE: ANTHROPOGENIC PRESSING OR A NATURAL PROCESS

(Moderator: Sergey Anatolyevich Roginko)

(Hall 203, block E)

9.00–11.00	Reports	
9.00	A1	<p><b>Leonid Ivanovich Tverdokhlebov</b> (Member of Expert Board of the RF State Duma Committee for power engineering, Member of Oil and Gas Sub-Committee of International Ecological Organization “Global Methane Initiative” Associate Member of RANS)</p> <p>Ecological risks in extraction of gas and condensate. Reducing hydrocarbon emission to the environment</p>
9.15	A2	<p><b>Dmitry Vladimirovich Podgorny</b> (Head of the Environmental Protection Department at LLC Gazprom dobycha Nadym)</p> <p>Ecological risks in extraction of gas and condensate. Reducing hydrocarbon emission to the environment</p>
9.30	A3	<p><b>Konstantin Levonovich Unanyan</b> (Acting head of Gazprom VNIIGAZ LLC laboratory)</p> <p>Issues of reclamation of disturbed lands in Far North and prevention of hazardous geocryological processes</p>
9.45	A4	<p><b>Anatoly Kuzmich Arabsky</b> (Gazprom dobycha Yamburg LLC)</p> <p>Adaptive biogeochemical technology of recultivation of disturbed tundra soils</p>
10.00	A5	<p><b>Valery Vitalyevich Demidov</b> (Professor, Lomonosov Moscow State University)</p> <p>Influence of climatic changes on development of soil-erosion processes</p>
10.15	A6	<p><b>Gretta Semyonovna Akopova</b> (Head of laboratory, Gazprom VNIIGAZ LLC)</p> <p>Ecological efficiency of natural gas production and use based on overall lifecycle impact assessment</p>
11.00–11.20	Coffee break	

December 6, 2017, Wednesday

## PANEL DISCUSSION B

### INNOVATION-DRIVEN DEVELOPMENT OF THE INDUSTRY – VECTOR TOWARDS ENERGY EFFICIENCY AND ENVIRONMENTAL FRIENDLINESS (Moderator: Konstantin Vladimirovich Romanov)

(Hall 203, block E)

<b>11.20–13.30</b>	<b>Reports</b>	
<b>11.20</b>	<b>B1</b>	<b><i>Dmitry Georgiyevich Leshan</i></b> (Head of the Environmental Protection Department, Gazprom dobycha Urengoy LLC) Innovative technical solutions for reduction of greenhouse gas emissions at the Urengoy oil and gas condensate field
<b>11.35</b>	<b>B2</b>	<b><i>Konstantin Vladimirovich Ladygin</i></b> (General Director, CJSC “Safe Technologies”) Energy efficiency in the service of ecology: import-substituting technologies. Technological solutions of IG “Safe Technologies”
<b>11.50</b>	<b>B3</b>	<b><i>Olga Aleksandrovna Nechayeva</i></b> (Engineer for sales of “Production process control equipment” Intertech Trading Corporation) Intertech integrated solutions in production process control and environmental monitoring at gas industry plants
<b>12.05</b>	<b>B4</b>	<b><i>Varazdat Amayamovich Kazaryan</i></b> (Gazprom Geotechnologies LLC) Results of developing of methane-hydrogen mixture block prototype model for gas turbine units
<b>12.20</b>	<b>B5</b>	<b><i>Nikolay Sergeevich Khohlachev</i></b> (Gazprom VNIIGAZ LLC) Biotechnologies for has industry
<b>12.35</b>	<b>B6</b>	<b><i>V.M. Mukhin</i></b> (JSC Elektrostal SPA Neorganika) Role of active charcoals in the ecology of gas and oil extraction, transportation and processing
<b>13.30–14.30</b>	<b>Lunch</b>	

December 6, 2017, Wednesday

## PANEL DISCUSSION C

### TRANSITION TO THE BEST AVAILABLE TECHNOLOGIES: THE FIRST RESULTS AND PROSPECTS

(Moderator: Natalya Borisovna Pystina)

(Hall 203, block E)

<b>14.30–16.30</b>	<b>Reports</b>	
<b>14.30</b>	<b>C1</b>	<b>Sergey Vladimirovich Konyaev</b> ( <i>Gazprom PJSC</i> ) Compliance assessment of Gazprom PJSC facilities to the best available technologies (BAT). Challenges and solutions
<b>14.45</b>	<b>C2</b>	<b>Mikhail Vladimirovich Begak</b> ( <i>Expert of the Russian-German Project “Climatically neutral economic activity: implementing BAT in RF,” Leading Research Associate of RAS NICEB</i> ) Preparing the procedure for issue of integrated ecological permits, participation of oil and gas plants
<b>15.00</b>	<b>C3</b>	<b>Viktor Petrovich Kovalenko</b> ( <i>Senior engineering, head of secretariats of TRG, Bureau of BAT, FSUE ARR&amp;DI SMT</i> ) Elaborating reference books on the best available technologies and establishing technological standards in the European Union and the Russian Federation
<b>15.15</b>	<b>C4</b>	<b>Natalya Vladimirovna Popadko</b> ( <i>Associate professor of the FEC Strategic Management Chair, Gubkin Russian State Oil and Gas University</i> ) Best available technologies in the oil and gas complex: results of the first stage
<b>15.30</b>	<b>C5</b>	<b>Tatiana Valerianovna Guseva</b> ( <i>Expert of the Russian-German Project “Climatically neutral economic activity: implementing BAT in RF”</i> ) Common standards or standard rules: prospects of application in the oil and gas field
<b>15.45</b>	<b>C6</b>	<b>Andrey Damirovich Samatov</b> ( <i>Sakhalin Energy Investment Company Ltd</i> ) Drill cutting waste utilization and "polluter pays" charges
<b>16.30–16.45</b>	Coffee break	
<b>16.45–17.00</b>	<b>Concluding Plenary Session</b> Hall 203, 2 <sup>nd</sup> floor, block E	

December 6, 2017, Wednesday

## PANEL DISCUSSION D

### INCREASING THE ENERGY EFFICIENCY OF PRODUCTION PLANTS – ADVANTAGES AND DISADVANTAGES FOR OIL AND GAS COMPANIES

(Moderators: Alexander Zaynetdinovich Shaikhutdinov,  
Georgy Anatolyevich Khvorov)

(Hall 204, block E)

9.00–11.00	Reports	
9.00	D1	<b>Georgy Anatolyevich Khvorov</b> (Head of Laboratory, Gazprom VNIIGAZ LLC) Main issues in normative and methodological support of standardization and accounting of natural gas process losses in mainline gas transport
9.20	D2	<b>Fyodor Eduardovitch Vovk</b> (Deputy head of Environment Protection and Energy Saving Department, Gazprom Transgaz Ukhta LLC) Analyzing the methodological approach to estimation of natural gas process losses in the gas transportation system
9.40	D3	<b>Yevgeny Mikhailovich Kirichenko</b> (Chief engineer, Gazprom transgaz Stavropol LLC) Placing the system of collection, processing and analysis of gas consumption data at OPN of a gas transportation enterprise
10.00	D4	<b>Mikhail Yuryevich Komarov</b> (Deputy head of Environment Protection and Energy Saving Department, Gazprom transgaz Yugorsk LLC) Elaborating new approaches to estimation of operating costs in natural gas transportation
10.20	D5	<b>Sergey Nikolayevich Devyatilov</b> (Deputy head of Administration, department head, Gazprom transgaz Saint Petersburg LLC) Energy efficiency and gas accounting at OPN. Arranging work for monitoring and accounting of natural gas leaks, problematic issues.

<b>10.40</b>	<b>D6</b>	<p><b>Anton Sergeevich Trigub</b>  <i>(Chief specialist of the Balance and Contract Department of Dispatching Office, Gazprom transgaz Moscow LLC)</i></p> <p>On possibilities of planning natural gas consumption for own process needs depending on goods transportation work. Alternative planning variants</p>
<b>11.00–11.20</b>	Coffee break	
<b>11.20–11.40</b>	<b>D7</b>	<p><b>Dmitry Aleksandrovich Yakhontov</b>  <i>(Lead Engineer of the technical department, Gazprom dobycha Yamburg LLC)</i></p> <p>Implementing modern energy-efficient technologies for reduction of gas losses at facilities of Gazprom dobycha Yamburg LLC</p>
<b>13.30–14.30</b>	Lunch break	

December 6, 2017, Wednesday

## PANEL DISCUSSION E

### Occupational risk management as a part of the occupational safety management system

(Moderator: Alexander Vladimirovich Terebnev)

(Hall 202, block E)

<b>10.00–13.30</b>	<b>Reports</b>	
<b>10.00</b>	<b>E1</b>	<b><i>Irina Nikolayevna Pimenova</i></b> (Sector head, Gazprom VNIIGAZ LLC) Problematic issues in normative management of occupational risks
<b>10.20</b>	<b>E2</b>	<b><i>Egor Nikolayevich Ivanov</i></b> (Head of Office for State Supervision in the Field of Labor, Federal Service for Labor and Employment (Rostrud)) Results of Russia Rostrud supervisory activity in observance of occupational safety requirements
<b>10.40</b>	<b>E3</b>	<b><i>Alexander Viktorovich Korchagin</i></b> (Chairman of the Trade Union, Neftegazstroyprofsoyuz of Russia) Occupational risk management as a part of the occupational safety management system
<b>11.00</b>	<b>E4</b>	<b><i>Andrey Mikhailovich Kolin</i></b> (General Director of All-Russian Social Organization “All-Russian Association of Labor Safety Specialists”) Employers’ participation in Public Control in the field of occupational safety
<b>11.20</b>	<b>E5</b>	<b><i>Aleksandr Grigoryevich Fedorets</i></b> (General Director of ANO Labor Safety Institute) Using the modern risk management methodology in occupational safety and health protection management systems
<b>13.30–14.30</b>	Lunch break	

December 6, 2017, Wednesday

## POSTER SESSION

(1<sup>st</sup> floor, block E)

Reports	
<b>PS1</b>	<b><i>M.A. Mokhov, V.V. Voronova</i></b> <i>(Gubkin Russian State Oil and Gas University)</i> Peculiarities of solving environmental issues in the use of double-chamber pump/compressor units
<b>PS2</b>	<b><i>O.P. Trubitsyna</i></b> <i>(FSAEI HPE “Northern (Arctic) Federal University named after M.V. Lomonosov”),</i> <b><i>V.N. Bashkin</i></b> <i>(Gazprom VNIIGAZ LLC/Institute of Physical-Chemical and Biological Problems in Soil Science of RAS)</i> Analyzing geocological risks in oil and gas extraction in the Arctic
<b>PS3</b>	<b><i>Yu.V. Gamera, Yu.Yu. Petrova</i></b> <i>(Laboratory for Technical Risks and Industrial Safety, Gazprom VNIIGAZ LLC)</i> Peculiarities of protection of humans and environment components from thermal radiation of the flare of flat supersonic compressed gas jet
<b>PS4</b>	<b><i>Yu.Yu. Petrova, Yu.V. Gamera, L.V. Yagupova</i></b> <i>(Laboratory for Technical Risks and Industrial Safety, Gazprom VNIIGAZ LLC)</i> Modeling the fields of individual and potential risks for sections of high-pressure gas pipelines depending on various technical activities
<b>PS5</b>	<b><i>M.Yu. Kataev, A.A. Bekerov</i></b> <i>(Tomsk State University)</i> Satellite measurements of greenhouse gases (CO <sub>2</sub> and CH <sub>4</sub> ) content

