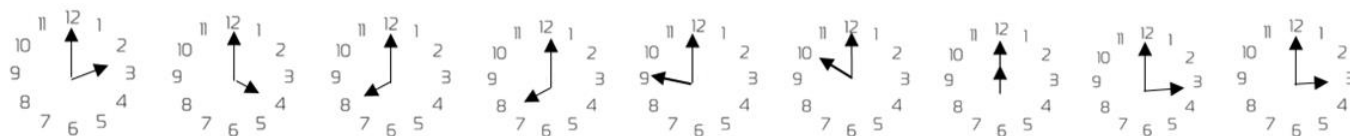


INTERNATIONAL
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DECEMBER 10-11,
2021, ST. PETERSBURG

Young Engineers
for Fuel and Energy Sector

ENERGY AGENDA FOR THE FUTURE



ONTARIO

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BEIJING

Program of the conference "Young engineers of the fuel and energy complex: developing the energy agenda of the future"

Format: mixed

Address of the full-time event: St. Petersburg, Professor Popov Street, 5. Zoom-conferencing connection available

Link to the broadcast: <https://youtu.be/59SddJh8ysE>

December 10, 2021 (Friday)	
DATE/TIME (MSK, UTC+3:00)	EVENT
09.00 – 10.00	Registration, welcome coffee break
09:30 - 10:00	Check-in in the Zoom Lounge
10.00 – 11.30	Official Opening Ceremony
10:00 – 10:05	Teaser Presentation of Conference statistics
10.05 – 10.10	Speech by the Vice-Rector for Science of Saint Petersburg Electrotechnical University "LETI" – Viktor Tupik
10:10 – 10:15	Speech by the Executive Director of the Organizing Committee – Natalia Trifonova : presentation of the conference objectives
10:15 – 10:25	Speech by Director of the Reliable Change Foundation – Artyom Korolev
10:25 – 10:30	Speech by Vice-President of the International Youth Section of SIGRE – Stanislav Eroshenko
10:30 – 10:40	Speech of the Presidium of the Organizing Committee - Zoom-chat Dr. Frede Blaabjerg (Aalborg University, Denmark)
10:40 – 11:00	Dr. Federico Rosei (Institut National de la Recherche Scientifique, Canada) The role of energy in sustainable development

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11.00 - 13.00	Plenary session. Presentations
11:00 – 11:20	Yongheng Yang , professor at Zhejiang University (PRC) <i>Active Power Control of Smart Photovoltaic Systems for Grid Support</i>
11:20 – 11:35	Daria Podmetina , Associate professor IEM LUT University (Finland) <i>Teaching experiences in innovation and technology for sustainability</i>
11:35 – 11:55	Robert Szydło, Sylwia Wiśniewska, Małgorzata Tyrańska, Anna Dolot, Urszula Bukowska, Marek Koczyński (Krakow University of Economics, Poland) <i>Employer Expectations Towards Competencies on the Energy Market in Poland – research report</i>
11:55 – 12:10	Abdulkhakov I.Y., Perevalov Y.Y., Kudryash M.N., Ermakova M.R., Parmenov V.E., Melnikov A.S. (Saint Petersburg Electrotechnical University "LETI") <i>Nonlinear distortion of the input current of the active power factor corrector based on the Vienna rectifier</i>
12:10 – 12:20	Zhdanov A.M., Zubritsky A.B. , "Gazpromneft" PJSC, "Noyabrskneftegaz" LLC. <i>Development of professional competencies of young specialists through project activities based on a cross-functional Scrum approach</i>
12:20 – 12:30	Rossikhin D.A., Mendeleev D.I., Galimzyanov L.A. (FGC UES). <i>Application and development of electricity storage systems</i>
12:30 – 12:40	Bulatov Y.N., Kryukov A.V., Suslov K. V. (Bratsk State University). <i>Cyber-Physical Approach to Managing Railway Power Supply Systems</i>
12:40 – 12:50	Svetkin A.V., Begisheva E.A., Tyurina L.A. (JSC "Zarubezhneft"). <i>Conceptual model of catalytic desulfurization of associated petroleum gas</i>
12:40 – 12:50	Moderators: Lobanova I.A., Head of the Case Laboratory of the Institute of Innovative Design and Technological Entrepreneurship, Saint Petersburg Electrotechnical University "LETI"; Panov N.V., Analyst of the Analytics Center, Saint Petersburg Electrotechnical University "LETI"
13.00 – 14.00	Lunch break
14.00 – 16.00	Section 1 "Energy-efficient solutions and engineering systems" Section 2 "Digital transformation of energy companies"

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1. **E. Trusova, V. Lavrinovsky, A. Fedorkova, V. Simukhin** (Saint Petersburg Electrotechnical University "LETI"). Modelling of an energy-efficient APC based on a modular multilevel structure.
2. **I. Lazareva, I. Paramonov** (Peter the Great Polytechnic University). Justification of heat engineering reliability of VVER-1200 with mixing grids mounted on the fuel assembly.
3. **S. Abolmasov, G. Shelopin, E. Terukov, A. Kochergin** (Saint Petersburg Electrotechnical University "LETI"). Climatic and mechanical testing of solar modules based on heterostructural photovoltaic converters with copper contact grid.
4. **R. Gaintetdinov, V. Bashirov, D. Gilmutdinov, T. Bakiev** ("Gazprom Transgaz Ufa" LLC). A solution for detecting stress-strain state of gas pipelines using digital data collected from an unmanned aerial vehicle.
5. **Prokofiev I.A., Korshikov V.D.** (PJSC "NLMK"). The effect of the degree of purification of argon on its further use.
6. **Marcelo Augusto Leal Alves** (University of Sao Paulo). Energy perspectives for the automotive sector in Brazil
7. **M. Semenov, E. Stepanova** (Kazan State Power Engineering University). The impact of earthed current transformers on the sensitivity of distance protection against short circuits to ground.
8. **R. Migranov, N. Dobroskok** (Saint Petersburg Electrotechnical University "LETI"). A study of unloading damping regulators using the virtual synchronous generator method.
9. **E. Stepanova, M. Semenov, V. Kalashnikov** (Kazan State Power Engineering University). Investigating an impact of a wind power plant commissioned into a Nizhnekamskaya-Chistopol 220kV air line on the parameters of Tatarstan's electric power regime.
10. **M. Sitnikov, S. Galunin, A. Belahsen** (Saint Petersburg Electrotechnical University "LETI"). Optimization of a high-speed synchronous jet engine's rotor topology.
11. **A. Okhlopkov, K. Orlov** (National Research University "Moscow Power Engineering Institute"). Research into the possibility of swapping the mechanohydraulic systems for regulating the steam turbines at a thermal

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	<p>power plant for the electric ones and lowering the hazard category of fire-resistant liquids in such systems.</p> <p>Moderators: Filatov D.M., Associate Professor of the Department of ACS, Head of the Direction "Electrical Engineering and Electrotechnology" of the project office of the Saint Petersburg Electrotechnical University "LETI"; Pukhova V.M., Associate Professor of the Department of Photonics, Saint Petersburg Electrotechnical University "LETI"; Panov N.V., Panov N.V., Analyst of the Analytics Center, Saint Petersburg Electrotechnical University "LETI"</p>
16.10 – 16.30	Coffee break
16.30 – 18.00	<p>Section 1 "Energy-efficient solutions and engineering systems" Section 2 "Digital transformation of energy companies"</p> <ol style="list-style-type: none">1. Ivanova I. I. (Saint Petersburg Electrotechnical University "LETI"). <i>Risk assessment of service processes for the sustainable development of the company</i>2. Chepiga A. A., Ali Yu., Korytchenkova E. E. (National Research University "MPEI"). <i>Stabilization of output power and increase of efficiency of wind turbines by means of the control system</i>3. Kozlova L.P., Kozlova O.A. (Saint Petersburg Electrotechnical University "LETI"). <i>Application of fuzzy logic in solar panels</i>4. Valiev T.T. ("GazpromNeft" PJSC, "Noyabrskenergoneft" LLC). <i>Changing the way generators and stations are unloaded</i>5. Galunin S. A., Sitnikov M. A., Lobovich A. Z., Dmitrochenko A. A. (Saint Petersburg Electrotechnical University "LETI"). <i>Trends and new challenges in the field of energy efficiency of electric machines</i>6. Gilmutdinov D. V., Romanenkov P. G., Zakiryanov M. V., Gainetdinov R. R., Bakiev T. A. ("Gazprom Transgaz" LLC). <i>On methods of predictive analytics of heat transfer capacity of air-cooling devices</i>7. Bulatov Y. N., Kryukov A. V., Suslov K. V. (Bratsk State University). <i>Application of intelligent technologies for the control of generator sets in the power supply systems of non-traction consumers</i>8. Volynets A. A., Novikov A. V. ("GazpromNeft" PJSC, "Noyabrskenergoneft" LLC). <i>Scheme of emergency automation of power complexes on the basis of A. Zhagrin metro district</i>

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9. **Konyushin M. V.** (Peter the Great St. Petersburg Polytechnic University). *Influence of the strategy of population algorithms: harmony search algorithm, PTU with two selections*
10. **Mendelev D.I., Rossikhin D.A., Galimzyanov L.A., Fedotov A.Yu.** (JSC "Tatenergo"). *Analysis of the application of electricity storage systems at thermal power plants*
11. **Goryachev V. Ya., Mikhailov S. A., Golobokov S. V.** (Penza State University). *Optimization of the structure of the solar power plant*
12. **Sharmatov Yu.Y.** ("GazpromNeft" PJSC, "Noyabrskenergoneft" LLC). *Diagnostics of cable lines 6-35 kV by partial discharges*
13. **Balakin A. M., Badamshin A. R., Matveev Y. V., Laptev M. A., Barskov V.V.** (Peter the Great St. Petersburg Polytechnic University). *Features of the gas turbine unit on a mixture of hydrogen and natural gas*
14. **Mylytsky V.V., Zubritsky A.B.** ("GazpromNeft" PJSC, "Noyabrskenergoneft" LLC). *Modernization of 110/35/6kV substation condition monitoring systems*
15. **Lutkov K.N.** ("GazpromNeft" PJSC, "Noyabrskenergoneft" LLC). *Reinforcement and maintenance of soils on the 35.110kV overhead in permafrost conditions*
16. **Ziganshina L.A.** (Saint Petersburg Electrotechnical University "LETI"). *Improving the dynamic characteristics of an elastic electromechanical system*

Moderators: Filatov D.M., Associate Professor of the Department of ACS, Head of the Direction "Electrical Engineering and Electrotechnology" of the project office of the Saint Petersburg Electrotechnical University "LETI"; Pukhova V.M., Associate Professor of the Department of Photonics, Saint Petersburg Electrotechnical University "LETI"; Panov N.V., Panov N.V., Analyst of the Analytics Center, Saint Petersburg Electrotechnical University "LETI"

December 11, 2021 (Saturday)

Link to the broadcast: <https://youtu.be/59SddJh8ysE>

09.00 – 10.00

Registration, welcome coffee break

10.00 – 12.30

Section 3 "Economy and new energy markets in transition. Personnel of the industry»

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1. **Niemb B.S., Novikova O.V.** (Peter the Great St. Petersburg Polytechnic University). *The mechanism of development of the economy of the energy complex of small and medium-sized businesses in Cameroon on the basis of bioenergy resources*
2. **Trifonova N.V., Vlasova M.S., Lobanova I.A., Kovaleva A.S.** (Saint Petersburg Electrotechnical University "LETI"). *Industry Scientific and Technological Forecasting: From Image Building to Studying an Uncertain Future*
3. **Volgapkina A.A., Sharkova A.V.** (Financial University under the Government of the Russian Federation). *Geothermal energy: comparative characteristics of Russia and the USA*
4. **Petrova A.K.** (Saint Petersburg Electrotechnical University "LETI"). *Gas balance monitoring in the regional gas transmission network using a hybrid adaptive neuro-fuzzy output system (ANFIS)*
5. **Romanyuk N.V., Novikova O.V.** (Peter the Great St. Petersburg Polytechnic University). *Expansion of the resource base. Methods of feasibility study of the use of plasma gasification for residential complexes*
6. **Fedash A.A., Makarov K.V., Vasina M.D.** (Gubkin Russian State University of Oil and Gas). *Rapid development of renewable energy sources*
7. **Lisitsa M.I., Khutieva E.S., Konareva A.A., Doroshenko O.A.** (Saint Petersburg Electrotechnical University "LETI"). *Circular economy as an alternative to green economy*
8. **Chizhova K.A.** (Peter the Great St. Petersburg Polytechnic University). *The main tools of ecologization of the generating company*
9. **Tsaregorodtsev R.V.** ("Gazprom Transgaz" LLC). *Comparative analysis of LNG and RES*
10. **Meshcheryakova T.S.** (National Research University "Moscow State University of Civil Engineering"). *Development of "green" building standards in the context of global ESG transformation*
11. **Bobrov V.A.** (St. Petersburg State University of Economics). *On the features of assessing the subjective risks of project activities of oil and gas companies*
12. **Lopatenko G.V., Pshenin V.V., Borisov A.V., Nikitina V.S.** (St. Petersburg Mining University). *Analysis of the provisions of the legislation*

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	<p><i>of the Russian Federation related to the use of pipes that have been in operation</i></p> <ol style="list-style-type: none">13. Kulakova A.O. (Saint Petersburg Electrotechnical University "LETI"). <i>Risk management in the testing laboratory according to the requirements of GOST ISO / IEC 17025-2019</i>14. Leonova T.I., Timshina D.K., Kuzmina S.N. (Saint Petersburg Electrotechnical University "LETI"). <i>Project risk management based on calendar-network modeling</i>15. Al Tam A. T. (St. Petersburg Mining University). <i>Feasibility study of projects to improve the energy efficiency of oil and gas facilities using solar power plants</i> <p>Moderators: Aleksandra Proshkina, Deputy Director Institute of Innovative Design and Technological Entrepreneurship at Saint Petersburg Electrotechnical University "LETI", Dmitry Kaplun, Associate Professor at the Department of Automation and Control Processes, Electrotechnical University "LETI"</p>
<p>10.00 – 12.30</p>	<p>Section 1 "Energy-efficient solutions and engineering systems"</p> <ol style="list-style-type: none">1. Pichugova O.A., Egorov A.O. (Ural Federal University named after the first President of Russia B.N. Yeltsin). <i>Study of the number and installed capacity of the fleet of hydroelectric power plants of Georgia</i>2. Mozokhin A.E., Soldatov V.A. (PJSC "Rosseti"). <i>Development of a method for determining the location of damage in a 6 kV network for a digital platform of intelligent services of a network company</i>3. Pankratyev D.A., Skakun A.D., Pankratyev A.A. (Saint Petersburg Electrotechnical University "LETI"). <i>Creating a portable system for working with documents</i>4. Frolova E.A., Dobroskok N.A. (Saint Petersburg Electrotechnical University "LETI"). <i>Critical Review of Electromagnetic Non-Contact Energy Transmission Methods</i>5. Stepanova A.A., Seydaliyeva A.V., Peisel V.M. (North Caucasus Federal University). <i>Mathematical model for calculating the operating time of synchronous generators in the synchronous compensator mode</i>6. Chegodayeva A.Yu. (National Research University "MPEI"). <i>Overhead Power Line Reliability Assessment System</i>

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7. **Fedorov D.V., Mikhailov Yu.I.** (Saint Petersburg Electrotechnical University "LETI"). *Approaches to assessing the technical condition of equipment*
8. **Kirzhatskikh E.R., Kozlov V.K., Kirzhatskikh M.N.,** (Kazan State Power Engineering University). *Remote determination of the place of single-phase ground fault in the 6-10 kV overhead line*
9. **Gorina O.L., Lebedev V.A.** (St. Petersburg Mining University). *Energy efficiency of hydrogen technologies at thermal power plants*
10. **Blokhina A.A., Sukhanov A.I., Lapshin K.I.** (Peter the Great St. Petersburg Polytechnic University). *Investigation of the influence of the design angle of the blades at the outlet of the impeller of a single-stage centrifugal compressor on its strength characteristics*
11. **Treshchev D.A., Gavrilov V.V., Gunasekara U.D.S.** (Peter the Great St. Petersburg Polytechnic University). *Assessment of the feasibility of replacing the fuel oil farm of the reserve fuel of the TPP with the LNG farm on the example of the Pervomaiskaya CHPP-14 of PJSC "TGC-1"*
12. **Astapov V.Y., Achitaev A.A.** (L.A. Melentyev Institute of Energy Systems of the Siberian Branch of the Russian Academy of Sciences). *Study of the influence of disturbances in the 110 kV electrical network on the mode and dynamic parameters of the wind power plant of the fourth type*
13. **Semenov M.N., Stepanova E.G.** (Kazan State Power Engineering University) *The influence of grounded transformers on the sensitivity of remote protection against short circuits to the ground*
14. **Verbnikova V.A., Golubev V.A.** (Peter the Great St. Petersburg Polytechnic University). *Development of renewable energy sources in regional energy systems*

Moderators: Suslov K.V., Head of the Department of Power Supply and Electrical Engineering of Irkutsk National Research Technical University, Head of the Research Committee C1 "System Development and Economics" of RNA SIGRE; Kazulina T.P., Associate Professor of the Department of Electrical and Conversion Technology, Saint Petersburg Electrotechnical University "LETI"; Kovaleva A.S., Associate Professor of the Department of International Business, St. Petersburg State University of Economics

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12.30 – 13.30	Lunch break
13.30 – 15.30	Section 3 "Economy and new energy markets in transition. Personnel of the industry" <ol style="list-style-type: none">1. Paren A.A., Trifonova N.V., Korolev A.S., Proshkina A.S., Bezrukov A.A. ("Crystal Service Integration" LLC). <i>Continuity and resiliency of energy sector production systems in the face of increasing uncertainty and risk: who determines?</i>2. Artamonova O.S., Kuzmina S.N., Erochkina O.A. (Saint Petersburg Electrotechnical University "LETI"). <i>Keeping the 5S system up and running in your organization</i>3. Kartashova E.E., Paskar I.N., Zaslavsky I.S. (Kuzbass State Technical University named after T.F. Gorbachev). <i>Methods for assessing the energy security of energy system facilities</i>4. Stolbov D. P. (PJSC «T Plus»). <i>Smart City Concept</i>5. Fedorova S.V., Sokolova T.B., Startseva I.M. (Technical University of UMMC). <i>Knowledge management in the system of corporate training based on international standards on the example of educational programs in the direction of electric power engineering and electrical engineering</i>6. Svetkovskaya A. (JSC "Zarubezhneft"). <i>Application of gas methods of enhanced oil recovery as a step towards decarbonization</i>7. Krieger A. ("GazpromNeft" PJSC, "Noyabrskenergoneft" LLC). <i>Reengineering of the heat supply system of the industrial zone</i>8. Medvedeva E.V., Shalneva M.S. (Financial University under the Government of the Russian Federation). <i>Hydrogen as the basis of a new energy transition</i>9. Vosiyan A.I., Grishacheva A.V., Degtyarev I.A., Semakov S.A. (Peter the Great St. Petersburg Polytechnic University). <i>Strategy for achieving carbon neutrality of the automotive industry of St. Petersburg</i>10. Novozhilov A.A. (Saint Petersburg Electrotechnical University "LETI"). <i>Consumer preferences and loyalty as an opportunity or threat to the electric power industry</i>

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	<p>11. Aristov A.A., Tien Ts. (Peter the Great St. Petersburg Polytechnic University). <i>Comparative characteristics of the prospects for the development of bioenergy in Russia and China</i></p> <p>12. Ishutina T.A. (Saint Petersburg Electrotechnical University "LETI"). <i>Risk management in energy companies of the Russian Federation</i></p> <p>13. Ilyin A.P. (St. Petersburg State University of Economics). <i>On the need to take into account the importance of consumers in managing the reliability of power supply</i></p> <p>Moderators: Proshkina A.S., Deputy Director of INPROTECH, Saint Petersburg Electrotechnical University "LETI"; Kaplun D.I., Deputy Head of the Department of APU, Saint Petersburg Electrotechnical University "LETI"</p>
13.30 – 15.30	<p>Section 1 "Energy-efficient solutions and engineering systems"</p> <p>16. Zinurov V.E., Galimova A.R., Kharkov V.V. (Kazan State Power Engineering University). <i>Economic feasibility of introducing a classifier with coaxine-arranged pipes at the catalyst plant</i></p> <p>17. Kireev R.S., Shmeleva A.I., Novikova O.V. (Peter the Great St. Petersburg Polytechnic University). <i>Evaluation of the effectiveness of the cluster solution to combat carbon dioxide emissions on the example of the merger of metallurgical enterprises and mining companies</i></p> <p>18. Kim A.A., Lukichev A.N., Mikhailov D.P., Grinishena S.A. (Saint Petersburg Electrotechnical University "LETI"). <i>Electric power system of a hybrid quad bike</i></p> <p>19. Fedorovich D.A., Ignatieva E.V., Paramonova I.L. (Peter the Great St. Petersburg Polytechnic University). <i>Advanced fuel rod with alloyed lead in the contact layer for the BREST-OD-300 reactor</i></p> <p>20. Kostik N.R., Bobyl A.V. (Saint Petersburg Electrotechnical University "LETI"). <i>Assessment of the climatological impact on renewable energy sources in the Gulf of Finland region</i></p> <p>21. Bikmulin A.V., Proskurin M.V., Pavlov A.V., Bobylev P.G., Kitot N.E., Andreev Yu.V. (Peter the Great St. Petersburg Polytechnic University). <i>Measurement of local heat flux density by gradient heatmetry in the furnace of the boiler DKVr 10/13</i></p>

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	<p>22. Fedorkova A.O., Skakun A.D., Trusova E.S. (Saint Petersburg Electrotechnical University "LETI"). <i>Development of a system for automating the process of growing plants</i></p> <p>23. Sizova E.S., Belsky G.V. (Saint Petersburg Electrotechnical University "LETI"). <i>Dual-axle plotter control system</i></p> <p>24. Lebedeva T.S. (Peter the Great St. Petersburg Polytechnic University). <i>Potential for improving the quality of rails. Improvement and technology of mechanical-thermal treatment</i></p> <p>25. Kozlova L.P., Kozlova O.A. (Saint Petersburg Electrotechnical University "LETI"). <i>Intellectualization of technological processes through the creation of smart industries</i></p> <p>26. Savosina A.A., Egorov A.O., Bulygina A.A. (Ural Federal University named after the first President of Russia B.N. Yeltsin). <i>Study of the structure of the balance of power and electricity of the regional energy system of the Sverdlovsk region</i></p> <p>27. Saryarslan M. (Peter the Great St. Petersburg Polytechnic University). <i>Calculation of fuel burnout for VVER reactor with tolerant fuel</i></p> <p>Moderators: Suslov K.V., Head of the Department of Power Supply and Electrical Engineering of Irkutsk National Research Technical University, Head of the Research Committee C1 "System Development and Economics" of RNC SIGRE; Blinov K.Y., Associate Professor of the Department of Electrical and Conversion Technology, Saint Petersburg Electrotechnical University "LETI"; Kovaleva A.S., Associate Professor of the Department of International Business, St. Petersburg State University of Economics</p>
15.30 – 16.00	Coffee-break
16.00 – 17.00	<p>Seminar "New challenges in the development of the energy company. Rosatom's experience"</p> <ol style="list-style-type: none">1. Soumojit Mukherjee (RosAtom Corporate Academy). <i>Alternative energy sources for cryptocurrency mining</i>2. Mehmet Sariarslan (RosAtom Corporate Academy). <i>Accident Tolerant Fuel</i>3. Thato Mashalaba (RosAtom Corporate Academy). <i>Proton beam therapy</i>

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4. **Shereen Gath** (RosAtom Corporate Academy).
AP-1000 reactor and its 3D model in Serpent
5. **Lema Lekontseva Daniel** (RosAtom Corporate Academy).
Integration of nuclear energy in developing countries
6. **Myagmargarav Baldorje** (RosAtom Corporate Academy).
Analysis of the effectiveness of measures to reduce the loss of active power on the example of the 110 kV electric network of the Ulaanbaatar region of Mongolia
7. **Kazazabrang Dauda** (RosAtom Corporate Academy).
The role of nuclear energy in the modern world
8. **Lita Ndaba** (RosAtom Corporate Academy).
Predicting the Crisis of Heat Transfer in a NPPs via acoustic methods.
9. **Eugenia Yeboah** (RosAtom Corporate Academy).
Effect of Radioactive sources on calibration of NaI scintillation detectors
10. **Baltabaev Iskander** (RosAtom Corporate Academy).
Nuclear energy and ecology

Moderator: Kovaleva A.S., Associate Professor of the Department of International Business of St. Petersburg State University of Economics