

# The international forum "Renewable energy for regional development"

## Event Program

"Expocentre Fairgrounds"  
14, Krasnopresnenskaya nab., Moscow, Russia

### Tuesday, June 18<sup>th</sup>

<b>Registration</b>  <b>9.30 – 10.30</b>	<b>Registration of participants. The opening ceremony of the exhibition and the forum.</b>
<b>10.30 – 11.00</b>	<b>Grand opening of the exhibition and Forum.</b>
<b>Plenary meeting</b>  <b>11.00 – 13.00</b>  <small>(duration 2 hours)</small>	<p><b>Renewable energy: global trends and new opportunities</b></p> <p><b>Moderator:</b> George Kekelidze, The Chairman of the Board of the Association for Renewable Energy «EUROSOLAR Russia»</p> <p>In recent years, Russia is implementing a consistent policy of development of renewable energy sources (RES). The Russian Federation became a member of the International renewable energy Agency (IRENA). There is a program to support renewable energy under contracts for the provision of capacity, under which projects are implemented in the wholesale electricity market. Due to the prevailing competition on the market of renewable energy in recent years, there was a success with regard to a significantly reduce the average value of the planned capital costs for 1 kW installed capacity projects. At the same time, the retail market of renewable energy in Russia starts to grow rapidly. To the previously implemented projects in isolated energy-regions of the Far East new projects in other regions of the country are being added. A system of support for energy supply projects for consumers on the basis of RES, at the regional level and in terms of the development of microgeneration, is being formed. There is a clear potential for further development of renewable energy projects on the retail markets, including remote and isolated areas. Along with the task solution of increase of reliability of energy supply in isolated areas, the priority of renewable energy development in Russia is the development of advanced technologies and competencies with the further export of high-tech products. What additional measures should be taken to support the implementation of RES projects on retail markets? How can we use the international experience in the development of renewable energy projects? What technological solutions are needed in different regions of the country? What promising technologies based on renewable energy sources can be used for power supply of consumers in the near future? What funding options are available?</p> <p><b>Participants:</b> Sergey Esyakov, 1st Deputy Chairman of the energy Committee of the State Duma Yury Stankevich, Deputy Chairman of the Committee for Energy Policy and Energy Efficiency, RSP (Russian Union of Industrialists and Entrepreneurs) Roland Roesch, Deputy Director, IRENA Innovation and Technology Center (IITC) Ulrich Benterbusch, Head of Department, Federal Ministry For Economic Affairs and Energy of Germany Frank Duggan President, Region Europe Member of the Group Executive Committee of ABB Ltd, Switzerland Kristina Haverkamp, Managing Director, German Energy Agency (dena) Vasilij Zubakin, Head of Department, Coordination of Energy Sales and Operational Activities, PJSC LUKOIL</p>
<b>13.00 – 14.00</b>	<b>Lunch</b>
<b>Panel discussion</b>	<b>The use of renewable energy sources in the regions: best technologies and projects</b>

<p><b>Hall 1</b></p> <p><b>14.00 – 15.30</b></p> <p>(duration 1.30)</p>	<p><b>Moderator:</b> Dmitry Stapran, Head of Project, Strategy and Operations, Energy Sector, PwC Russia</p> <p>The specificity of the region determines the possibility of using renewable energy. At the same time, an increasing number of projects RES are aimed at solving specific regional/local problems. What share do RES occupy in the total amount of electricity, what are the prospects for their use? How can the regional administrations use the opportunities of renewable energy? What technologies are being used in the implementation of projects in the regions? What technologies will help RES to make a new breakthrough? Can energy storage technologies become such technologies? What is remarkable about the sector of renewable energy in Russia for different companies? What could be done in this sector and what are the main difficulties?</p> <p><b>Participants:</b>  Emi Komai, Executive Director, KomaiHalteck Inc  Yuri Mirchevskiy, JSC Peredvizhnaya Energetika  Gunnar Haglund, Counselor, Embassy of Sweden in Russia  Anna Lvova, Director of the Department of International Communications and Information, International Investment Bank  Nikolay Popov, General Director, Hevel Retail  Vladimir Fomichev, Director General, NPF Energy  Vladimir Nikolaev, Director General, Atmograf  Nikolay Driga, Technical Director, OOO Svoya Energia  Maria Nevolina, Executive Director of the Association of Small Power Engineering</p>
<p><b>Panel discussion</b></p> <p><b>Hall 2</b></p> <p><b>14.00 – 15.30</b></p> <p>(duration 1.30)</p>	<p><b>Regulatory control: Localization of production of renewable energy components: experience and prospects for further development</b></p> <p><b>Moderator:</b> Mihail Tykuchinskiy, Director of Development at Energy Efficiency Cluster, Skolkovo Foundation</p> <p>Compared to the development of RES projects in the wholesale zones of electricity market in the Russian Federation, the system of support for the implementation of RES projects on retail markets has begun to form only recently. Legislations being developed to support both - retail projects in wholesale zones and in isolated and remote areas. Microgeneration based on RES is developing. What main trends for the market are to expect in the Russian norm-setting in the near future? Can Russia use the experience of developing the legal framework of European countries, or it is necessary to take into account its own specifics? Russia is implementing a programme to localize the production of renewable energy components. What are its preliminary results? Is there sufficient state support for investors localizing RES equipment? How high is the limit of the degree of localization and are there any trends for its revision?</p> <p><b>Participants:</b>  Oleg Tokarev, Deputy Director, Ministry of Industry and Trade  Sergey Anfimov, NP "Sovjet Rynka"  Mahmud Burikhanov, Managing Director, RUSNANO  Egor Grinkevich, Deputy Director-General, JSC NovaWind  Dmitry Smolin, Director for cooperation with authorities, Vestas  Peter Antonov, Chief engineer, JSC «STC UPS» (Scientific and Technical Center of Unified Power System)  Anatoly Shevchenko, Representantive of ECM Greentech in Kazakhstan  Mikhail Kolesnikov, Vice-President "OPORA RUSSIA"  Alexey Gribanov, Technical Director, OOO Bipron  Sascha Ackermann, Department Wind Turbines, TÜV SÜD Industrie Service GmbH</p>
<p><b>15.30 – 16.00</b></p>	<p>Coffee-break</p>
<p><b>Panel discussion</b></p> <p><b>Hall 1</b></p> <p><b>16.00 – 17.30</b></p>	<p><b>Practical cooperation of German and Russian companies on creation of new RES generation facilities in the regions - implementation of the project «Enabling PV in Russia»</b></p> <p><b>Moderator:</b> Christoph Urbschat, eclareon GmbH (Germany),  Ekaterina Galitsyna, Head of representative office of KfW Banking Group in Russia</p>

<p>(duration 1.30)</p>	<p><b>Salutatory word: Ulrich Benterbusch, Head of Department, Federal Ministry For Economic Affairs and Energy of Germany</b></p> <p>Eclareon and the Association for Renewable Energy «EUROSOLAR Russia», in partnership with member companies of the German Solar Energy Association "BSW-Solar" provide ready-made RE solutions for the creation of small projects for renewable energy generation in the regions. The German Energy Agency (dena) supports German companies entering the Russian market for decentralized renewable energy projects. Growth and development of commercial consumers, project owners and usage of various technologies are creating preconditions for formation of a new market for independent projects. How to create a German-Russian consortium to launch a solar project? What are the possibilities of attracting project holders and investors to initiate regional renewable energy projects in Russian regions? What options for financing such projects do the banks offer? What are the requirements for their lending?</p> <p><b>Participants:</b>  Kirill Semenov, Deputy Chairman of the management Board, Member of the Board, MSP Bank  Dr. Roman Brinzanik, Director New Markets, KRAFTWERK RPS  Olga Ukhanova, Development Corporation of Ulianovsk Region  Tobias Merkel, Managing Director, Solar23 GmbH  Ildar Shakhmaev, Deputy Minister of industry of the Republic of Bashkortostan  Evgeny Golub, Mayor of the City Tikhoretsk, Krasnodar Region</p>
<p><b>Panel discussion</b></p> <p><b>Hall 2</b></p> <p><b>16.00 – 17.30</b></p> <p>(duration 1.30)</p>	<p><b>The digitalization of modern energy: from local solutions to transformation of the whole industry</b></p> <p><b>Moderator:</b> Yury Stankevich, Deputy Chairman of the Committee for Energy Policy and Energy Efficiency, RSPF</p> <p>The development of global energy is increasingly sensitive to new technological trends. The level of implementation of digital solutions in fuel and energy companies is becoming one of the determining factors of their competitiveness on the global stage. Today, all major Russian fuel and energy companies are actively involved in the technology race and are already demonstrating the first results of pilot projects. However, current work is only the first local step in the digital transformation of the Russian energy sector. The transition of the entire industry to digital rails requires a fundamentally new approach to the creation and implementation of intellectual solutions. What challenges and opportunities does the digitalization of energy offer? How to ensure a systemic effect at the level of the entire energy industry from implementation of digital solutions by individual companies? Do we need a common digital space, and if so, who are its key actors? What is the role of the state in the digitalization of energy sector? How to synchronize the vision of digitalization among different representatives of the industry?</p> <p><b>Participants:</b>  Mikhail Andronov, President, OOO "RUSENERGOSBYT"  Anton Vivchar, project Manager PJSC «MosEnergo»  Dmitry Vologzhanin, Director of the Association «Sovet Proizvoditelej Energii»  Alexander Kurdin, Head of Research, Department of Energy and Utilities, Analytical Center under the Government of the Russian Federation  Michail Nasibulin, Director of the Department of Coordination and Implementation of digital economy projects, Ministry of Digital Development, Communications and Mass Communications of the Russian Federation  Evgenyj Olkhovich, Deputy General Director, PJSC "Rosseti"  Dmitry Stapran, Head of Project, Strategy and Operations, Energy Sector, PwC Russia  Vladimir Rebrov, Independent expert in the field of digital converter technology and distributed systems based on it</p>
<p><b>Congress-center, Hall «Glass dome», 3rd floor</b></p>	<p><b>Extended meeting of the Expert Council on scientific research-technological development and intellectual property</b>  <b>Committee on education and science of the State Duma of the Russian Federation</b></p>

16.00 – 18.00

(duration: 2 hours)

Global agenda: Human resources for the field of RES

## Wednesday, June 19<sup>th</sup>

Panel discussion

Hall 1

10.00 – 11.30

(duration 1.30)

**International experience of RES development: what is "good" and what is "bad"**

**Moderator:** Vyacheslav Mishchenko, Executive Director, SKOLKOVO Energy Centre - Moscow School of Management SKOLKOVO

What RES are common in European countries and why, what share do they occupy in the total, what are the prospects? What mechanisms does the state use to support RES, and how strong is the strategic vision of the state and the regulator in this matter? How do consumers of RES in Europe assess their experience? What of the European renewable energy market model can be an example of good practice, and what needs to be changed?

**Participants:**

Roland Roesch, Deputy Director, IRENA Innovation and Technology Center (IITC)

Kaori Nakajima, General Manager, Mitsui & Co., Ltd

Ernesto Ferlenghi, Chairman of the Energy Section, Association of European Businesses President, Confindustria Russia

Christoph Urbschat, Managing Partner, eclareon GmbH

Victor Balyberdin, SKM Market Predictor AS

Svetlana Nikiforova, Trade Promotion Agency of Andalusia

Vladimir Sidorovich, Director, Information and Analytical Center "Novaya Energetika"

Alexander Ginzburg, Institute of Atmospheric Physics RAS, Foundation "Development and Environment"

Panel discussion

Hall 2

10.00 – 11.30

(duration 1.30)

**Biofuels and biomass: efficiency of raw materials processing and modern solutions in waste recycling**

**Moderator:** Alexey Ablaev, President, Russian Biofuels Association

Biofuels have been known to mankind since time immemorial and are still present in the structure of consumption: the raw materials of the first generation are wood and crops with a high content of fats, starch, sugars. 54-60% of biofuels are its traditional forms: firewood, plant residues and dried manure for heating homes and cooking. They are used by 38% of the world's population. The ability of biofuels to serve as a primary source of energy depends on their energy profitability. Often, the profitability of biofuels strongly loses the profitability of hydrocarbon energy. However, for many years, scientists have been trying to commercialize the production of biofuels of the second and third generation, dreaming to solve the problem of ecology, which is acute when using fossil fuels. A real breakthrough for humanity in this area would be the processing of household waste into high-class energy. But how realistic is this? What is the current global market for biofuels and what are the prospects for its development on the Russian market? Can biofuels become an alternative to hydrocarbons and electric transport? Can they really be considered as harmless to the environment? What modern technologies make it possible to obtain biofuels from domestic and industrial waste?

**Participants:**

Sergey Kulikov, Deputy General Director, OOO "Novye technologii"

Sergei Zharenkov, OOO "Zeppelin PS Rus"

Ivan Egorov, partner, commercial Director, LANDCO SA/ OOO AgroBioTech

Grigory Yulkin, Director of Strategic Planning and Partnership Department, ISEDC

Sergey Dayman, Executive Director, Head of Services in the Field of ECO Technologies and Sustainable Development in Russia, EY

Vladimir Novikov, Deputy General Director for Development, OOO Khartiya

Alexander Pankratov, Deputy General Director, of "OOO Greenenergo"

11.30 – 12.00

Coffee-break

<p><b>Panel discussion</b></p> <p><b>Hall 1</b></p> <p><b>12.00 – 13.30</b></p> <p>(duration 1.30)</p>	<p><b>Promising technologies for power supply systems in remote and isolated power systems</b></p> <p><b>Moderator:</b> Alexey Kaplun, Member of the Board of the Association for Renewable Energy «EUROSOLAR Russia»</p> <p>The experience in the implementation of energy supply projects in isolated areas using RES in different climatic conditions shows the need to use appropriate technologies to ensure reliable and safe energy supply to consumers. What are the requirements for such technologies? To what extent are the existing support measures for such technologies and projects sufficient for the systematic implementation of projects?</p> <p><b>Participants:</b>  Vladimir Masolov, CEO, VDM-tekhnika LLC  Mikhail Akim, Vice-President, ABB  Yuri Vasiliev, Executive Director, Institute of Arctic technologies, MFTI  Victor Murzyntsev, Executive Director, JSC Juzhnye elektricheskie seti Kamchatki  Dmitry Capko, Director of business development, Neosun Energy Rus LLC  Sergey Gribkov, Academician of RIA  Victor Yelistratov, Chairman of the scientific Council for RES problems, St. Petersburg Center of the Russian Academy of Sciences  Mikhail Konish`ev, General Director, VTR Engineering  Alexey Skorobatyuk, OOO Novyj Poljus</p>
<p><b>Panel discussion</b></p> <p><b>Hall 2</b></p> <p><b>12.00 – 13.30</b></p> <p>(duration 1.30)</p>	<p><b>Swiss experience: organization of financing of innovative applied R&amp;Ds for development of renewable energy</b></p> <p><b>Moderators:</b> Alexander Sigov, Academician of the Russian Academy of Sciences, President of the Russian Technological University “MIREA”;  George Kekelidze, The Chairman of the Board of the Association for Renewable Energy «EUROSOLAR Russia»</p> <p>Russian-Swiss cooperation in the field of RES is based on two important factors  a) The existence of a mechanism for rapid joint development of R&amp;D, supported by the leading research centers of the two countries and industrial partners of both large and small businesses;  b) The development of bilateral financing mechanisms for R&amp;D. What are the best practices of financing and implementing innovative applied R&amp;D in the field of RES?  What conditions should the projects for regional development of renewable energy match for successful creation of a consortium and obtaining financing?</p> <p><b>Participants:</b>  Evgeniy Terukov, Professor, Deputy Director, R&amp;D Center TFTE (Hevel)  Andreas Dreisiebner - Director of the Swiss Association for Solar Energy – Solarspar, representative of the Zurich University of Applied Sciences (ZHAW)  Robert Buehler, CEO, Peer-Energy AG - PEP  Alexander Temeev General Director, OOO "Companiya Prikladnye Technologii"  Olga Levchenko, the Promotion of Innovations Fund  Dmitriy Skorikov, Leading System-analyst, Digital Design  Tatiana Eferina, Deputy Director of the Department of State Energy Policy, Ministry of Energy of the Russian Federation</p>
<p><b>13.30 – 14.30</b></p>	<p>Lunch</p>
<p><b>Panel discussion</b></p> <p><b>Hall 1</b></p> <p><b>14.30 – 16.00</b></p>	<p><b>Electrochemical technologies in renewable energy: energy storage and the hydrogen cycle</b></p> <p><b>Moderator:</b> Yuri Dobrovolsky, Head of technology competence Center for innovative and mobile energy sources «NPENERGY»</p> <p>The world market of energy storage systems is developing rapidly. The main reason for the growth is the large-scale development of RES (to smooth the uneven production of renewable sources)</p>



(duration 1.30)	<p>and electric transport (batteries for electric vehicles), directly or indirectly using energy storage devices. All this is driven by technological progress in a number of solutions in the field of energy storage, capable in the short and medium terms to reduce the cost of systems to a level acceptable for the market. What technologies should Russia develop in this area, is the Russian industry competitive? What energy storage systems will be in demand on both - the Russian and international markets? What will be the role of modern energy storage technologies, based on rechargeable and redox batteries? What are the prospects for the market of hydrogen fuel cells and hydrogen cycle for energy storage and generation? Will complex projects based on electrochemical processes of energy storage in RES be developed in Russia in the near future? What new materials are the most promising for electrochemistry? When can we expect a large-scale hydrogen generation project in Russia and hydrogen export?</p> <p><b>Participants:</b>  Dmitry Kholkin, Head of the working group of the road map, NPA "Energinet"  Katsiaryna Wendl, Director of development, BAE Batterien  Mikhail Kozlov, Technical Director, InEnergy  David Masgrangeas, CEO, «SAFT Russia»  Nikolay Krasko, technical Director, «Enapter»  Polina Mishustina, Head of Analytical Center LIOTECH</p>
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<b>Panel discussion</b>  <b>Hall 2</b>  <b>14.30 – 16.00</b>  (duration 1.30)	<p><b>Electric vehicles and new energy infrastructure</b></p> <p><b>Moderator:</b> Maksim Nechaev, Director, Consulting in Russia, IHS Markit</p> <p>Recently, widespread adoption of electric vehicles seemed to be something out of science fiction. In Russia very few people took this idea seriously. Traditionally, in our country happenings related to the hydrocarbon market, e.g., when a new equilibrium oil price will be established, or a discussion about how to survive the "shale revolution", have aroused much greater interest. It seems that during the discussion of all these, of course, important issues, we run the risk of not noticing the onset of truly revolutionary changes associated with the "greening" of the world energy in general and the massive abandonment of cars with ICE, which in its scale can only be compared to the transition from coal to oil in the early XX century. What does portend such epochal changes in the global energy sector and how ready is Russia to follow this global trend? How much will the global electric transport market grow in 2020 and in the next 5-10 years? What factors hinder the development of the electric car market in Russia? What incentives do investors need to implement investment programmes to develop an appropriate infrastructure?</p> <p><b>Participants:</b>  Ylia Likhov, General Director Neosun Energy Rus  Anatoly Libet, Head of legal support and procurement, Moscow energy Directorate  Ivan Butenko, CASE implementation manager, Mercedes-Benz Russia AO  Vladimir Khlebnikov, General Director, Parus Electro  Natalia Gotova, Director of the Department for relations with authorities, NP TSO  Andrey Djumaev, General Director, "Электрозарправки.РФ" (Electrozapravki.RF)  Yuri Sergeev, Representative, The Bellona Foundation  Vladimir Matjukhin, Director of the Scientific Innovation Engineering Center of adaptive power photonics and solar aerospace energy, Russian Technological University MIREA  Sergey Kiselev, General Director, enel X  Alexander Sudarev, the representative, SovEIMash  Jörg Schreiber, Chairman of the Committee of automobile manufacturers, European Business Association  Alexey Mikheev, Owner of groups: Romanov motors, Concordia</p>
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**Thursday, June 20<sup>th</sup>**

<b>Panel Discussion</b>  <b>Hall 1</b>  <b>10.30 – 14.30</b>	<p style="text-align: center;"><b>MICROGENERATION DAY</b></p> <p><b>Moderators:</b> Evgenij Gasho, Analytical Center of Russian Government; Andrey Temerov, Chairman of the Association «Green Kilowatt»; George Kekelidze, The Chairman of the Board of the Association for Renewable Energy "EUROSOLAR Russia"</p> <p><b>Salutatory word:</b> Dmitriy Berezutskij, Russian Green Building Council (RuGBC)</p>
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(duration 4.00)

Solar Energy and Energy efficient technologies soon will steadily spread all over the country, thus making happy not only corporations belonging to oligarchs, but also ordinary Households. Small and Medium size Enterprises –installers of solar and energy efficient technologies are being established - getting ready for the time of Microgeneration Law coming into action. Directors of these companies will present there successful cases of installation at the Panel Discussion. Associations “EUROSOLAR Russia”, “Green Kilowatt”, «Ideas into Energy” and German Energy Agency “dena” are preparing the program for preparation the specialists-installers in different regions of Russia.

**Participants:**

Robert Buehler, CEO, PEP Solutions

Tamara Ponomarenko, First Vice-rector of Energy Institute of increasing qualifications of specialists for PJSC “Kubanenergo, MP of Krasnodar

Nikolay Driga, Technical Director, OOO Svoya Energia, Krasnodar

German Gorskyj, Director, OOO Novaya Energia, Goryachij Kljuch

Sergey Titov, Director, OOO ATMOSPHERA, Moscow

Sergey Majorov, Director Department of Innovation, Ministry of Energy of the Russian Federation

Alexey Skorobatyuk, OOO Novyj Poljus, Moscow

Roman Tudvasev, Director, Alternativa, Sochi

Dmitrij Velishev, Director, TeleMir, Kazan

Oleg Tsigel, Director for Development OOO Ekoproekt-Energo, Krasnodar

Felix Borisov, Executive Director, OOO Physika Tepla, Moscow

Andrey Temerov, Director, OOO AltEnergiya, Anapa