

# SMART ENERGY SUMMIT

smartenergysummit.ru

March 27-28, 2018  
Москва

**INTERNET OF ENERGY**  
on the way to global compatibility

## DIGITAL ENERGY SUMMIT

Strategic Stream «INTERNET OF ENERGY: on the way to global compatibility»  
Stream «SHOWCASES OF SMART ENERGY PROJECTS: Industry. Cities. Buildings»

## TECHNOLOGICAL SUMMIT

Open Stream «TECH HUB: Smart Energy Solutions»

Organizer

**Redenex**

Supported by:



АССОЦИАЦИЯ  
НЕКОММЕРЧЕСКОЕ ПАРТНЕРСТВО  
СООБЩЕСТВО  
ПОТРЕБИТЕЛЕЙ ЭНЕРГИИ

Энерджинет

Национальная  
технологическая  
инициатива



## DAY 1 | 27 MARCH 2018

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8:30–10:00

Registration. Welcome coffee.

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10:00–11:15

**Plenary session. Digital transformation of energy in the global market: the future of the electric power industry.**

- Transition to a digital model of the economy: new challenges of the energy market.
- World trends of digital energy transformation: the transition to the horizontal structure of the industry.
- The world energy market: how will the alignment of forces change? How to build a leadership strategy in the new environment?
- Internet of things and M2M technologies in energy: how is the market changing?
- Competitiveness of renewable energy generation: the search for a new balance.
- Energy storage technologies.
- Distributed generation. Prospects for the use of decentralized energy sources.
- Transformation of the network role and smart grid: technological connection and general compatibility. Results and prospects.
- Reliability of the regional energy system. Experience of the Ministry of Energy of the Moscow Region.
- Predictive maintenance and technologies for increasing energy efficiency.

**MODERATOR:**

**TATIANA MITROVA**, Director of the Energy Center of the Moscow School of Management SKOLKOVO

**SPEAKERS:**

**ALEXANDER NOVAK** \*, Minister of Energy of the Russian Federation

**LEONID NEGANOV**, Minister of Energy of the Moscow Region

**EVGENIY OLHOVICH**, Deputy Director General for Strategic Development, PJSC «Rosseti»

**ALEXANDER STARCHENKO**, Chairman of the Supervisory Board of the Association «Energy Consumers Community»  
Managing Partner First Imagine! Ventures

**MIKHAIL ANDRONOV**, member of the Board of Directors of JSC «ATS», President of LLC «RUSENERGOSBYT»

**VLADISLAV VOROTNITSKY**, Deputy General Director for Marketing and Sales, Tavrida Electric

**SERGEI YESYAKOV**, First Deputy Chairman of the State Duma Committee on Energy

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11:15–12:00

Coffee-break

## DIGITAL ENERGY SUMMIT

## TECHNOLOGY SUMMIT

### CONFERENCE-HALL 1 STRATEGIC STREAM «INTERNET OF ENERGY»

12:00–12:30

**Presentation Analysis of the scenario of the development of the Russian electric power industry under the condition of using the potential of distributed energy**

**SPEAKER**

**ALEXEY KHOKHLOV**, the head of the «Electric Power» area of the Energy Center of the Moscow School of Management SKOLKOVO

12:30-13:30

**Discussion of the research Analysis of the scenario of the development of the Russian electric power industry under the condition of using the potential of distributed energy**

**MODERATOR**

**DMITRY KHOLKIN**, Head of the Innovation Development Center, Center for Strategic Research

**SPEAKERS**

**YURI UDALTSOV**, Deputy Chairman of the Board of Rosnano

**OLEG BARKIN**, Member of the Management Board - Deputy Chairman of the Management Board, NP Market Council

**FEDOR OPADCHIY**, Deputy Chairman of the Management Board of JSC SO UES

**EVGENIY OLHOVICH**, Deputy Director General for Strategic Development, PJSC «Rosseti»

**EGOR GRINKEVICH**, Director for Development of Technical and Regulatory Regulation of the WEC of NovaVind JSC

**ANDREY ABRAMOV**, Strategy and Development Director, Forsyth Foundation

### CONFERENCE-HALL 2 PRACTICE SMART ENERGY: ENERGY OF INDUSTRIAL ENTERPRISES

**Technologies of energy efficiency of industrial enterprises**

**SPEAKER**

**SERGEY YEMELYANOV**, General Director of OOO Transneftenergo

**Aurelia A400 gas turbine for flexible and efficient distributed power generation**

**SPEAKER**

**MATTI MALKAMÄKI**, CEO Aurelia Turbines, Finland

**Predictive maintenance of equipment. PRANA system for increasing the economic efficiency of the power industry**

**SPEAKER**

**MAKSIM LIPATOV**, Technical Director of PRANA status prediction system at JSC ROTEK

**Experience installing the world's first DC Microgrid battery pack in an industrial building - the Microgrid Burlington DC project**

**SPEAKER**

**ALEKSEY TOPORKOV** President ARDA Power, USA

### OPEN STREAM TECH HUB: SMART ENERGY SOLUTIONS

**The big benefits of going small - or why utilities should apply a Lean Start-up Mindset to drive their digital transformation**

**SPEAKER**

**THORSTEN HELLER**, CEO Greenbird Integration Technology AS, Norway

**Bluetooth mesh - putting the smart in smart buildings.**

**SPEAKER**

**MARTIN WOOLLEY**, Technical Program Manager at Bluetooth SIG, UK

**An economical solution for connecting existing and new electricity, water and heat meters of the city scale from 30 thousand to 15 million inhabitants based on NB-IoT technology. The line of NB-IoT standard terminals for "smart city"**

**SPEAKER**

**ANDREI FILATOV**, CEO of Power Synthesis

**Digital transformation of automated information-measuring systems of commercial electricity accounting**

**SPEAKER**

**OLEG LISYENKO**, General Director of ICBCOM

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13:30-14:15

Lunch

CONFERENCE-HALL 1  
STRATEGIC STREAM «INTERNET OF ENERGY»

CONFERENCE-HALL 2  
PRACTICE SMART ENERGY: ENERGY OF INDUSTRIAL  
ENTERPRISES

OPEN STREAM  
TECH HUB: SMART ENERGY SOLUTIONS

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14:15-15:00

Round Table “Index of digitalization of Russian  
energy companies”

**MODERATORS**

**TATIANA MITROVA**, Director of the Energy  
Center of the Moscow School of Management  
SKOLKOVO

**ANNA BELOVA**, Head of Research of Center of  
System’s Transformation, MSU

**SPEAKERS**

**PAVEL SOROKIN** \*, Deputy Minister of Energy  
of the Russian Federation

**IRINA GAYDA** \*, managing partner of BCG

**YURI EROSHIN**, Vice President, Portfolio  
Management, Production and Trading, OJSC  
Fortum

**JULIA ZVORYKINA**, Director of the Institute  
for Research and Expertise of Vnesheconombank

Own generation in production

**SPEAKER**

**IGOR GOLUBEV**, Director for Energy Supply of SIBUR

Own generation in metallurgical production

**SPEAKER**

**ALEXEY MOSKALYOV**, Head of the Office of the Vice-  
President for Energy, NLMK Group

Energy-efficient technologies

**SPEAKER**

**MIKHAIL LVOV**, Head of the Department of Technical  
Policy and Standardization of Production Processes of JSC  
«OEK»

Problems and ways to reduce energy intensity in  
industrial enterprises and regions of Russia

**SPEAKER**

**DANIR ZAKIROV**, Chief Scientific Officer of the GI  
UrB RAS, Director General of the Association of Power  
Engineers of the Western Urals

Solutions for automation of industrial power  
systems

**SPEAKER**

**SEMEN BERESNEV**, Business Development  
Manager, Management Systems Russia,  
Ukraine, Belarus, Baltic States GE

Information security systems for industrial  
enterprises of the energy industry

**SPEAKER**

**KIRILL KERTSENBAUM**, Business  
Development Director IB Group

Energy Service Market in Russia

**SPEAKER**

**VYACHESLAV LYASHUK**, Head of the  
Scientific Expert Council of the Working  
Group of the Federation Council of the  
Russian Federation on Monitoring the  
Implementation of Legislation in the Field of  
Energy, Energy Saving and Energy Efficiency  
Improvement

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15:00-15:30

Coffee-break

**CONFERENCE-HALL 1 STRATEGIC STREAM  
«INTERNET OF ENERGY»**


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**15:30-17:00**


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**Technological directions in the new electric power industry: energy storage systems, microgrids, the use of distributed generation.**

**SPEAKER**

**IGOR RYAPIN**, Head of Department, NP Community of Energy Consumers

**POLINA MISHUSTINA**, Chief Analyst of LLC «Lyotekh-Innovations»

**ALEXEY TOPORKOV**, President of ARDA Power

**SERGEY KURILOV**, General Director of the company «TEEMP»

**KIRILL TSARKOV**, Deputy Director of the Center of Industry Expertise «Energy» SAP

**SERGEY BRIILYA**, Head of M2M and IoT Solutions, MTS

**CISCO \***

**CONFERENCE-HALL 2 PRACTICE SMART ENERGY:  
SMART GRIDS**


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**Microgrid- The Israeli experience.**

**SPEAKER**

**AMOS LASKER**, Chairman and Founder MicroGrid Israel Ltd., Israel

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**Digital area of electric networks - «Yantarengo»**

**SPEAKER**

**IGOR MAKOVSKY**, General Director of Yantarengo

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**Complex reconstruction of distribution networks in Ufa with elements of Smart Grid elements**

**SPEAKERS**

**RAMIL ISHMAEV**, technical director of OAO BESK

**DMITRY SHARONOV**, Vice-President of the Chamber of Commerce and Industry of the Republic of Bashkortostan

**ANDREY MAK AROV**, General Director, Center for Energy Technologies LLC

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**Implementation of the Smart Grid in the North Caucasus**

**SPEAKER**

**IZMAIL KHUZMIEV**, Adviser to Director General of PJSC IDGC of the North Caucasus

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**Program complex ADMS for the management of distribution networks. Management of distribution networks in the era of intelligent power systems.**

**SPEAKER**

**SCHNEIDER ELECTRIC\***

**OPEN STREAM  
STARTUP INCUBATOR**


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**Experience in implementing data transmission technologies in Lorawan networks from water and heat metering devices to the server of resource supply and service organizations in Germany**

**SPEAKER**

**DAMIR IVICHEVICH**, Head of Technical Support of Service Partners, ZENNER

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**Satellite solutions of the company STEK.COM for digital energy**

**SPEAKER**

**VYACHESLAV RYSIN**, Head of Marketing Department Stek.com

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**Hybrid energy in isolated areas. Fully automatized systems that could save up to 90% of opex.**

**SPEAKER**

**HERVÉ MICHEL**, owner of EcoLife NC, co-owner of Ecolife System Russia, France

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**Solar energy and blocking technology in the energy sector. How to obtain crypto currency by installing solar panels.**

**SPEAKER**

**FRANCOIS SONNET**, Solar Consultant, Advisor to SolarChange & SolcryptoJV and CoFounder, ElectricChain, Belgium

## DAY 2 | 28 MARCH 2018

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8:30-10:00

Registration. Welcome coffee.

### ROUND TABLE

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10:00-11:45

**New markets in conditions of distributed energy. The roles of traditional and new participants in the energy market. New business models.**

**MODERATOR**

**ALEXANDER STARCHENKO**, Chairman of the Supervisory Board of the Association of Energy Consumers Association, Managing Partner of First Imagine! Ventures

**INVITED SPEAKERS:**

**EVGENIY OLKHOVICH**, Deputy General Director for Strategic Development, PJSC «Rosseti»

**ALEXANDER KHAITIN**, independent expert

**ANTON PORYADIN** \*, Partner, Head of Strategic Consulting Practice in the CIS, EY

**DMITRY BULYCHKOV**, an expert in the field of Blockchain

**GRIGORIY MELEKHOV**, Head of New Product Development, Qiwi Group

**MIKHAIL ANDRONOV**, member of the Board of Directors of JSC «ATS», President of LLC «RUSENERGOSBYT»

**SERGEY BRIILYA**, Head of M2M and IoT Solutions, MTS

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11:45-12:30

Coffee-break

## DIGITAL ENERGY SUMMIT

## TECHNOLOGY SUMMIT

### CONFERENCE-HALL 1 STRATEGIC STREAM «INTERNET OF ENERGY»

12:30-13:00

**Presentation of the research Energy Center of the Moscow School of Management SKOLKOVO INTERNET OF ENERGY**

**SPEAKERS**

**YURY MELNIKOV**, Senior Analyst, Energy Center, Skolkovo Business School

13:00-13:15

**Digital grids as an infrastructure for players of the new energy market.**

**SPEAKERS**

**VLADISLAV VOROTNITSKY**, Deputy General Director for Marketing and Sales, Tavrida Electric

13:15-13:30

**Digitalization of RES by using new technologies**

**SPEAKERS**

**ANDREY KUCHERYAVENKOV**, TRINITI-ENGINEERING LLC

13:30-13:45

**Aggregation of demand for electricity. The new role of the energy retail company in the energy future**

**SPEAKER**

**NATALIA NERMERZHITSKAYA**, Chairman of the Board Association of Guaranteed Suppliers of Power Sales Companies

13:45-14:00

**New technologies form new behavior**

**SPEAKER**

**GRIGORIY MELEKHOV**, Head of New Product Development, Qiwi Group

14:00-15:00

**Lunch**

### CONFERENCE-HALL 2 PRACTICE SMART ENERGY: ENERGY OF CITIES AND BUILDINGS

**Planning a Brown Field with Smart and Sustainable Energy Solutions**

**SPEAKER**

**KARI KANKAALA**, Director, City Development Tampereen kaupunki, Finland

**Digital Moscow 2030**

**SPEAKER**

**ALEXEY CHUKARIN**, Deputy Head of the Department of Information Technologies of Moscow

**Models smart urban development and energy buildings**

**SPEAKER**

**IRINA ILINA**, Director of the Institute for Regional Studies and Urban Planning at the Higher School of Economics

**“Green” technologies for sustainable housing construction**

**SPEAKER**

**DMITRY BERESUTSKY**, Chairman of the Board of the Association «GreenStroy», Member of the Board of the «Council for Environmental Construction»

**Chelyabinsk City Energy Efficiency and Innovation Technologies Fund. Experience in the implementation of energy service contracts.**

**SPEAKER**

**ANTON BALASHOV**, Deputy Director of MBU «Chelyabinsk City Energy Efficiency and Innovation Technologies Fund»

### OPEN STREAM DISTRIBUTED AND OWN GENERATION

**Distributed energy: a threat or reserve for the development of the industry?**

**SPEAKER**

**OLGA NOVOSELOVA**, General Director of NP «Distributed Energy», member of SD «Distributed Energy», Coordinator of TP «Small Distributed Energy»

**Ideal project for the investor: distributed cogeneration in the heat supply system**

**MODERATOR**

**IGOR SKORODUMOV**, expert on risk management in small energy projects

**SPEAKERS**

**ILYA BRODSKY**, Director of the Spring Foundation

**PAVEL BRATUKHIN**, Deputy Head of the Directorate for Work with Municipal Projects - Head of the Department for Financing Municipal Projects RUSSIAN CAPITAL

**KONSTANTIN KRAVCHENKO**, General Director of JSC RGC-1

**Distributed generation in “energy-rich” conditions. Ways of development**

**SPEAKER**

**ALEXEY SHATROV**, Laboratory of New Technologies

CONFERENCE-HALL 1 STRATEGIC STREAM  
«INTERNET OF ENERGY»

15:00-16:00

**Traditional and new models for organizing power supply to industrial consumers in a distributed energy system****MODERATOR****KSENIA DATSKO**, Director for Distributed Energy of JSC «NTC UES (Moscow Branch)»**Earn or save money? Economic efficiency of own generation projects****SPEAKER****ALEXEY SINELNIKOV**, Deputy Director for Distributed Energy of JSC «NTC UES (Moscow Branch)»**Model of an active power complex in the retail electricity market****SPEAKER****OLEG KALINKO**, Advisor to JSC «SO UES»**Economic management of the demand for electricity. Demand Response.****SPEAKERS****MAXIM KULESHOV**, Head of the System Services Market, JSC SO UESCONFERENCE-HALL 2  
PRACTICE SMART ENERGY: RENEWABLE ENERGY**Energy City Frederikshavn. Denmark's leading energy technology.****SPEAKER****MIKAEL JENTSCH**, CEO Municipality Frederikshavn**Mysotzenko's thermodynamic cycle is an alternative energy of the future****SPEAKER****ALEXEI POLYAKOV**, Co-founder and Member of Executive Board, Russian Green Building Council, RuGBC**Experience in implementing innovative solutions and strategies in the horizon until 2022.****SPEAKER****ANNA KOROTCHENKOVA**, Head of the Department of Scientific and Technical Activities En +**Smart Energy Trends: Moving to Renewable Energy****MODERATOR****ALEXEY ZHIKHAREV**, Director for Electricity, VYGON Consulting**SPEAKERS****VLADIMIR SIDOROVICH**, Founder RenEn.ru, Director, ANO «Institute of Energy Efficient Technologies in Construction»**OLEG SHUTKIN**, Head of the business unit «Engineering and Generation» of the State Corporation «Hewel»**YURY VASILYEV**, Director of the Institute of Arctic Technologies, MIPT**ANNA KOROTCHENKOVA**, Head of the Department of Scientific and Technical Activities En +OPEN STREAM  
START UP INCUBATOR**MODERATOR****OLEG PERTSOVSKY**, Director for Operations of the Energy Efficient Technologies Cluster of the Skolkovo Foundation**EXPERTS****ANTON SKIBIN**, Head of the Electricity Sector of the EnergoTech cluster of the Skolkovo Foundation**VICTOR CHERVYAKOV**, investment director of Skolkovo-Venture Investments**EGOR NIKOLAEV**, Project Manager, Acceleration Programs Directorate Generation S, RVC**NATALIA LYSENKO**, Investment Analyst VentureClub**ALEXANDER PATUTIN**, IoT Belarus Communit**START-UPS****ROZUM ROBOTICS****ARDA POWER****VIBROBOX****SOLGATE****BETA TECHNOLOGIES****INNOWAT****«ROBOTIC COMPLEX** for**MAINTENANCE OF THE OVERHEAD LINE «KANATOHOD» »****THERMOSENSOR****BAMOMAS****MOBIN**



MARCH 27

## 12:00-15:30 INDUSTRIAL ENERGY MANAGEMENT

- Intro 5'
  - Barriers in industry and how to overcome them. 30'
    - drivers & barriers to energy productivity improvement
  - Business potential of energy management systems 60'
    - EnMS why and what?
      - energy productivity improvement potential & energy demand
      - energy productivity improvement & climate change
    - EnMS general requirements (brief) and tools e.g.:
      - How to identify significant deviations without knowing what significant means?
      - How to monitor your energy performance?
    - data mining & metering
    - Industry best practices and way forward
  - Relevance and potential of energy efficiency for business performance, climate change and energy policy (20')
    - Management responsibilities and energy policy
    - Energy policy in a broader context (EU)
    - Energy saving opportunities
      - How to keep track of them?
      - Structural
      - Behavioral
      - Case study
  - Engagement of management and employees (40')
    - energy culture
    - management of change
    - variability analysis
- Demand response & storage

**SPEAKER**

**KATRIEN ROMAGNOLI**, Consultant - Sustainable Energy Use Europe  
DNV GL - Energy

MARCH 28

## 13:00-14:00 MASTER-CLASS DIGITAL TRANSFORMATION IN POWER SYSTEM OPERATION

**The master class is focused on the increasing complexity of operating modern power grids and the steps that need to be taken to harvest the opportunities that digital technologies like big data analytics, blockchain, mobile and cloud can bring to power system operation.**

Increased economic constraints as well as fluctuations due to infeed of renewable energy have resulted in an increased complexity in the operation of modern power grids. System operators and operation engineers will need better tools to deal with this complexity. Fortunately, emerging technologies such as big data analytics, blockchain, mobile and cloud are driving a digital transformation in the electricity industry, which has a tremendous potential to add value in system operation and grid optimization. With the emergence of the Internet of Things, the available volume of data increases exponentially. Data will emerge from within the grid, such as from SCADA/EMS/DMS systems, RTU's, Intelligent Electronics Devices (IED's), PMU's, Smart meters and other sensors in the grid, but also from external sources such as weather forecasts and geospatial information systems.

Big data tools and platforms will provide the capability to analyse large quantities of structured and unstructured data in real-time. Emerging technologies like blockchain, mobile- and cloud will enable new business scenarios. While grid operators move toward digitalization of their operations and work practices, cybersecurity will play a vital role to ensure the safeguarding of energy producing assets and customers.

**SPEAKER**

**THEO BORST** MSc, MBA, Business Director Digital Grid DNV GL – Energy, the Netherlands