

XI INTERNATIONAL **EXHIBITION & CONGRESS** NUCLEAR FOR BETTER LIFE



15 - 16 APRIL 2019 RUSSIA, SOCHI













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WELLCOME ADDRESS









Dear friends,

Sergey Kiriyenko

First Deputy Chief of Staff of

Welcome Address by

First Deputy Chief of Staff of the Presidential Administration of the Russian Federation Head of the Supervisory Board at Rosatom State Corporation

More and more countries are coming to the realization that developing nuclear technologies is an absolute must. After all, such technologies are irreplaceable to the achievement of humankind's sustainable development goals.

There is a growing interest in nuclear energy as a reliable, clean, safe and affordable power source needed for economic growth and infrastructural development. However, not just the energy application is developing but the non-energy use of radiation technologies is also flourishing. These technologies are playing an increasingly important role in medicine, agriculture, mechanical engineering, transport and natural resources development, among others.

A wide range of nuclear technologies applications will be demonstrated at the 11th ATOMEXPO Forum. The attendance of highly skilled and experienced professionals from many countries have helped transforming the event from a conference organized by Rosatom into one of the world's leading platforms for setting the global nuclear agenda. The most valuable element of the Forum is the fact that is gives all the nuclear industry players heads of government agencies, companies and international organizations, as well as experts - an opportunity to engage in a constructive dialogue. I am confident that the Forum will play an important role in the development of the necessary strategies. models and mechanisms for the evolvement of nuclear energy and application of the advanced nuclear technologies that are aimed at achieving a better quality of life.

I hope that your work at the Forum will be productive, and that your business meetings and cooperation initiatives bear fruit!





Welcome Address by Alexey Likhachev

Director General State Atomic Energy Corporation «Rosatom»

Dear Friends.

I am happy to welcome all of you to the 11th ATOMEXPO Forum; this is our second meeting at a new site – in Sochi. The forum is getting bigger with each passing year: it has transformed from a Russian nuclear industry event attended by foreign partners into an international industry discussion event for which Rosatom provides a platform.

The motto for the ATOMEXPO 2019 is "Nuclear for better life". The global agenda for the use of atomic technology is expanding rapidly. In addition to being an eco-friendly and reliable source of energy that significantly contributes to combating climate change, the peaceful atom also facilitates the development of science, education, medicine, and agriculture. Thus, the widespread use of nuclear technologies has become an important factor in achieving the UN Sustainable Development Goals. It has become an integral part of

the entire world community's work towards improving the quality of life, reaching prosperity, and building a responsible attitude to the environment.

This year's business programme will focus on how advanced nuclear technologies contribute to the Sustainable Development as well as other key issues for the global nuclear industry. I would like to note that the International Programme Committee put the forum's business programme together for the first time.

Various partnership events by the international organizations have been planned as part of the ATOMEXPO for the first time. The exhibition will feature a wide range of ways to use atomic technologies, including those unrelated to energy. In addition, the ATOMEXPO AWARDS will be presented at the forum for the second time.

I hope you all have productive work and interesting professional interaction.





Welcome Address by William D. Magwood, IV

NEA Director-General

Dear colleagues,

Some three years after the Paris agreement, the path towards a low-carbon energy future remains unclear. Meeting the goals that many countries have set for themselves will mean substantially reducing the carbon intensity of the electric power sector by as much as a factor of ten. At the same time, the increasing electrification of industry, transport and buildings will only further reinforce the central role of electricity generation. It will be crucial that the increasing amounts of electricity being used come from clean-energy sources.

We have at our disposal technically mature, low-carbon alternatives – including solar and wind technology, hydroelectricity and nuclear power – to help countries reach their environmental and energy security goals. Reaching these goals will require us to use all of these low carbon resources in an economically sound manner. We shouldn't close the door to any technology. And as an established technology, nuclear power has been demonstrated to be a reliable source of baseload electricity. Nuclear power is complementary to renewable technologies, mitigating risks related to their intermittence and contributing to a decarbonised and

more secure electricity system. At the same time, creating the necessary drivers for innovation in nuclear technology is one of the most important conditions for nuclear energy to adapt to today's challenging market conditions and play this role in the sustainable energy mix of the future.

Nuclear power's future will require innovation if it is to be part of the clean and secure energy mixes the world needs. This will require significant infrastructure, including experimental capacities and high-level skills. We will need scientists, engineers and technologists to support the safe, secure and sustainable use of nuclear energy. We therefore need to nurture the next generation of nuclear experts. The NEA, as a knowledge-based organisation, is helping its member states to address these challenges.

The NEA has recognised the importance of the annual ATOMEXPO forum. Our regular participation is in keeping with the longstanding NEA mission to foster international co-operation; the topic of this year's forum, "Nuclear for better life", is at the heart of what we do. We look forward to seeing you there.





Welcome Address by Agneta Rising

Director General of World Nuclear Association (WNA)

Dear colleagues!

In 2018 more nuclear capacity was added to the grid than has been seen for almost 30 years and 2019 looks set to beat that record again. But it is vital that the rate of nuclear new build accelerates if we are going to be able to meet our future energy needs sustainably.

Global carbon emissions jumped to an all-time high in 2018. At a time when the latest IPCC report says that emissions must be cut almost immediately, investment in alternatives to fossil fuels, particularly nuclear, needs to be increased substantially.

We must find alternatives, because the global hunger for energy is set to continue to rise, driven by the growth of emerging economies and the increase of the global population, and the many more uses to which electricity will be applied, such as desalination and recharging electric vehicles.

Access to electricity and clean air are vital needs. Currently one in six people in the world has no access to electricity. As electricity demand continues to rise, greenhouse gas emissions must fall if we are to mitigate climate change and we must switch to cleaner sources to reduce air pollution. This will require large increases of all low-carbon energy sources, of which nuclear is an important part.

Today, with the experience and knowledge it has gained, the nuclear energy industry is in a strong position to deliver on the Harmony goal of generating 25% of electricity by 2050. And we must be ready to do substantially more, particularly in those countries already with well-established nuclear generation.

We must create the conditions to make this possible and focus on removing the real barriers to growth.

The International Energy Agency has called for nuclear energy to receive "clear and consistent policy support for existing and new capacity, including clean energy incentive schemes for development of nuclear alongside other clean forms of energy."

The whole nuclear community needs to work with a broad range of stakeholders and decisions-makers to create fair markets with a level playing field, create an effective safety paradigm and create harmonized regulatory processes.

World Nuclear Association, as the international organization that represents the global nuclear industry, is determined to play its part in creating the conditions to deliver the Harmony goal.

I am delighted to be here again at ATOMEXPO. I look forward to meeting friends and colleagues already part of our Harmony programme, I invite more of you to join us, and I wish all those attending ATOMEXPO every success.





Welcome Address by Peter Prozesky

Chief Executive Officer, World Association of Nuclear Operators (WANO)

Dear colleagues.

Almost 30 years have passed since the world's nuclear power operators met in Moscow to form the World Association of Nuclear Operators (WANO). It was a great achievement and heralded a bold new era of collaboration between operators and nations – regardless of geography or political affiliation – all with the shared objective of maximising global nuclear safety and reliability.

Since then, the services that we deliver to our members have gone from strength to strength - and the overall margin of safety in the industry has undoubtedly improved. However we must never be complacent - the journey to nuclear safety is continuous - nuclear power plants should continue to measure themselves against the best globally to achieve excellence.

So as we look to the next 30 years - what more can be done to maximise safe and reliable operation of the world's nuclear power plants? In a changing context around the world, nuclear energy has to face new challenges. In Asia and the Middle East the nuclear fleet is growing rapidly, here around two-thirds of the world's new reactors are under construction.

It is important the industry supports these new units to ensure that they make a safe and reliable transition from construction to operation. From WANO's perspective, these new entrants should engage with us early, and become members as soon as the contract for main works is signed.

In addition, with more competition between different methods to generate energy and economic pressure, the nuclear industry is being challenged everywhere to demonstrate its efficiency. Encouraging best practice is a key way for each company to improve.

But whatever the challenges are, we all have to keep in mind that in the face of this changing context, nuclear safety remains our overriding priority. Raising safety standards needs strong international cooperation and global partnership across the nuclear operating community. Our progress should be supported by collective efforts and an open attitude worldwide. These are the conditions for shared success.

I am delighted to support ATOMEXPO, a major global event for the world's nuclear industry. I wish you all an enjoyable and successful event.





Welcome Address by V.V. Lukyanenko,

Deputy President and Chairman of VTB Bank (PJSC) Management Board

Dear participants,

On behalf of VTB Bank, I am very pleased to welcome the participants and guests of the traditional, already 11th International ATOMEXPO Forum. This year again, the Forum is being held at the Main Media Center in Sochi – convenient and hospitable place for discussions and meetings between nuclear industry professionals.

The key point for the Forum this year is "Nuclear for Better Life," as we know the fundamental importance of nuclear research for medicine, energy and security. Sometimes the rapid development of technologies has negative impact on our everyday lives. Nuclear technologies can serve as an effective counterbalance to these factors, ensuring economic development without harming the environment and the quality of life of future generations.

For sure the nuclear industry is strengthening Russia's research and production base and make important contribution on wide range of projects that are being implemented right now. The industry spins the development of related sectors of the economy, bringing innovations to mechanical engineering and promoting fundamental research. I am not exaggerating saying that the nuclear industry provides the foundation for entire regions across Russia, employing hundreds of thousands of people.

Being one of the core banks for nuclear industry VTB Bank always supports Rosatom for ensuring the efficient operation of nuclear enterprises.

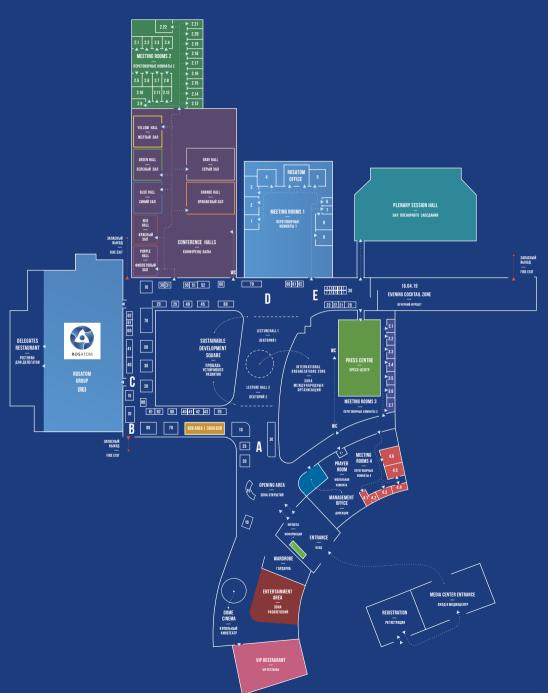
And VTB Bank provides support for the key events of the industry such as the ATOMEXPO Forum

Our experience, intimate knowledge of the needs of the nuclear industry and wide geographical presence allow us to face the future of the cooperation between VTB Bank and Rosatom with confidence and optimism.

On behalf of VTB Bank, I would like to welcome nuclear industry experts from across the globe to the Forum and wish for all successful work and moving forward together! Nuclear for Better Life! Good luck to everyone!



THE FORUM'S PLAN

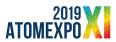




EXHIBITORS







EXHIBITORS

AEM-technology	DITO
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Ansaldo Nucleare	ELEMASH
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ATOMTEX	Gazprombank
VSMPO-AVISMA	GIDROPRESS OKB
Belarusian NPP	GIFEN
Belleli	GIT
BOLTING TECHNOLOGY	Greenatom
BUREAU VERITAS	Hydrospetzgeologiya
CABLE ALLIANCE HOLDING 185	IBRAE RAS
Caterpillar	IUEC
CEA	Interenergo
Center for development of nuclear	Izhorskiye Zavody
innovation cluster of Dimitrovgrad 188	JST transformateurs
Ceramic technologies	Korea Atomic Industrial Forum
Chepetsky Mechanical Plant 190	KEPCO E&C
Clextral	KEPCO KPS
CNNC	KEPCO NF
C-PLUS	KHNP
Czech Power Industry Alliance 194	Lesedi Nuclear Services
DEF ENERGY	Mayak
DEKRA	MCCI



EXHIBITORS

MODERAM	Rusatom Smart Utilities
NANOSOFT	RUSPOLYMET
National Operator for Radioactive Waste	Schneider Electric
Management	Science & Innovations
NIKIET	SEC NRS
NIKIRET	Sibgazstroydetal Zavod
Novosibirsk Chemical Concentrates	Siemens
Plant	Skolkovo Foundation
NovaWind	Spectekhkomplekt
NUVIA	Sverdniikhimmash
OKBM Afrikantov	TECHNETICS GROUP
OCKS	TECHNO-SHIELD
ONS MAKINA	TOSHIBA
PPA CONTROLL	TENEX
Power Machines	TMK
Proryv project	TVEL
RADON	UMATEX Group
RASU	Urals Electrochemicals
REIN	Valcom
Rusatom Service	Velan
ROBATEL Industries	VNIIAES
Rolls-Royce	VNIIEF
Ronik	VNIINM
ROSATOM	VNIITF
Rosatom Corporate Academy	VTB Bank
Rosenergoatom	Walter Tosto
RosRAO	WIKA MERA
Rusatom International Network	Yamaguchi
Rusatom Healthcare	ZAES
Rusatom Overseas	ZiO-Podolsk





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Established in 2007 part of
Atomenergomash JSC, the mechanical
engineering division of ROSATOM state
corporation, AEM-technology Joint-Stock
Company is at present a leader in the field
of power engineering. The company's
structure comprises an engineering centre
staffed with experienced design and
manufacturing engineers as well as two
production sites: Petrozavodskmash Branch
of AEM-technology JSC in Petrozavodsk
and Atommash Branch of AEM-technology
JSC in Volgodonsk.





ALFA ims



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STAND E10

ALFA ims (Industrial Manufacturing System) is a manufacturing management information system. The idea of the product is to build a digital model of the production chain and supporting processes and increase the managerial efficiency by:

- synchronising the processes from planning to provisions
- coordinating the operations on all levels
- quickly computing the critical parameters of the operational activities.

ALFA ims is part of the product line offered under the ALFA system trademark. ALFA system is a unified digital ecosystem: manufacturing, personnel, logistics, ecological safety. It is geared towards large-scale enterprises and organizations, in which the business-processes complexity and operational scope require integrated and powerful IT systems.

We have been present on the market for more than 25 years. Implementation projects are led in cooperation with partners with direct involvement of the developers. Among our partners are the largest system integrators of Russia.





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STAND **E10**

Ansaldo Nucleare is the premier Italian company in the civil nuclear sector, with over fifty years international experience in delivering technological and innovation excellence.

The company provides EPC services, as well as, component design and supply for the following business lines:

- Nuclear New Build;
- Plant Operation Assistance:
- · Decommissioning and Waste Management.

Ansaldo Nucleare S.p.A (Italy) and the fully owned company Ansaldo Nuclear Ltd (UK) provide, acting as a single enterprise, in-house, fully integrated capability which includes design, engineering, manufacturing, assembly, testing, commissioning, site installation and integrated logistics through-life support of bespoke solutions. These core competencies and capabilities allow Ansaldo Nuclear to offer a broad range of products and services from new build and operational services of Nuclear power plant to decommissioning and waste management.

Building on over the fifty years of experience on different types of reactors, from the first Magnox plants in UK and the Italian projects in the seventies, we have developed the Engineering expertise and project management skills to provide full EPC services to meet the needs and requirements set out by our Clients, providing a one-stop-shop solution to minimize the risks associated to complex projects.

Ansaldo Nuclear supply systems, components and

services for the NSSS (Nuclear Steam Supply System) as well as BOP (Balance of Plant), for various Nuclear Power Plants including PWR, BWR, CANDU and VVER.

We have provided a significant contribution to Generation III+, cooperating with Westinghouse since the early 1980s in the development of Passive Plant Technology. Whilst we have been a key contributor to the Design Certification of AP600 and AP1000 NPPs, we look at the future.

We are actively involved in Generation IV international programmes. In this context, we are acting as leader for the Lead-Cooled Fast Reactors development programmes, for the successful completion of the «Advanced Lead-cooled Fast Reactor European Demonstrator» (ALFRED).

Furthermore, we are present in the nuclear fusion sector through the realization of the fusion reactor ITER (International Thermonuclear Experimental Reactor) for which it contributes to the supply of fundamental components of the plan.

With a total workforce of almost 600 employees, 250 of which in the Design & Engineering departments, we have the expertise to deliver complex project, for the three business lines, with the quality and safety our clients expect.

As a part of the Ansaldo Energia Group, Ansaldo Nuclear benefits from the financial strength and support provided by the group. Ansaldo Energia currently employs over 4,500 people and has an international presence through local companies and branch offices.





Armenian NPP



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The Armenian NPP is situated in Ararat Valley of the RA, 28 km to the West from Yerevan. The construction of the plant started in the 1970's. The ANPP consists of 2 units constructed on the basis of two WWER-440 (V-270) type reactors with seismic design.

ANPP Unit 1 was commissioned on 22 December, 1976 and Unit 2 was commissioned on 5 January, 1980. The electrical power of each unit was 407,5 MW.

After the destructive earthquake which took place on December 7, 1988 in Spitak town situated 83 km far from the ANPP the Council of Ministers of the USSR made a decision to shut down the ANPP for reasons of safety. Unit 1 was shut down on 25 February, 1989 and Unit 2 was shut down on 18 March. 1989. However following the USSR collapse under conditions of energy crisis in the republic in 1993 the Government of Armenia made a decision to restart the ANPP Unit 2. Two years after the decision making upon completion of a huge scope of activities aimed at safety level enhancement and modernization activities the ANPP Unit 2 was restarted on 5 November, 1995 and it was connected to the power system. Currently Unit 2 provides 40% of the electricity consumed in the republic.

The plant safety upgrading activities are still under implementation, the technology of electricity generation is being improved.

The radiation monitoring of the environment is one of the major tasks of the NPP management.

The qualification of the plant personnel, specifically of the operating personnel is continuously upgraded. Emergency drills are conducted on the simulators of the Training Centre and as a result the operating personnel consolidate their knowledge in practice, gain experience and skills to take adequate preventive actions during emergencies.

According to the RA Government decision the plant life extension work was started in 2015.

The detailed inspections of reactor metal and major equipment, as well as the international experience have shown that Unit 2 life time extension is realistic. A number of countries including the Russian Federation have experience in NPP lifetime extension.

The financial allocations are made by the Russian Federation through crediting.



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STAND **RG**

ARMZ Uranium Holding Co. is the successor of the world's largest uranium mining conglomerate build in the Soviet Union, celebrates its first 10th anniversary in 2017

- The company manages Russian uranium mining assets, represented in the Trans-Baikal Territory (Priargunsky), the Republic of Buryatia (Khiagda), Kurgan region (Dalur).
- It possesses unique competencies and carries out the entire spectrum of works ranging from geological prospecting, trials and design works to reclamation and decommissioning of production facilities;

 It is implementing a number of nonuranium projects: the construction of an integrated lead and zinc concentrates plant in the Novaya Zemlya archipelago, pre-production scandium mining, pyrite cinders processing etc. ARMZ also comprises companies currently being designed - The First Ore Mining Company, Elkon MMP. A significant contribution to the ARMZ's business is made by subsidiary companies- ARMZ Service, RUSBURMASH, VNIPIPT.





ASE Group



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ASE (Rosatom State Corporation
Engineering Division) was established by
integration of the leading companies of the
industry: ASE EC JSC (Nizhny Novgorod),
Atomstroyexport JSC (Moscow),
Atomenergoproekt JSC (Moscow) and
ATOMPROEKT JSC (Saint-Petersburg).
ASE is one of the global leaders in nuclear
power engineering holding about 30% of
the global NPP construction market. The
Engineering Division operates in Europe,
Middle East, North Africa and the Pacific
region. Foreign projects account for about
80% of the portfolio.

ASE implements design and construction projects for high-power NPPs, it renders a full range of EPC, EPC(M) services and develops Multi-D technologies for management of complex engineering facilities. We construct reliable and safe NPPs with 3+Gen VVER reactors that are in line with all international requirements and recommendations.





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STAND **RG**

JSC Atomenergomash is the Power Engineering Division of the State Atomic Energy Corporation "Rosatom". It is the largest energy and machine engineering holding in Russia which offers a full range of solutions for design, production and supply of equipment for nuclear and thermal power, gas and petrochemical industry, shipbuilding, special steels market and small-scale hydrogeneration. The Company has full control over the production chain of key equipment for the nuclear island and the turbine island, from Research & Development, issue of technical documentation and process engineering to the manufacture of equipment.

The Division combines the largest power engineering enterprises, including production, research and engineering organizations in Russia, European countries and the CIS. Unique production and process competences of enterprises included in the Division allow us offering our customers such equipment that complies with the highest requirements.





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JSC Atomenergoprom (full name — Joint Stock Company Atomic Energy Power Corporation, short name — AEP) is a Russian state vertical integrated company, which unite many enterprises of the nuclear industry. Atomenergoprom provides full production cycle of nuclear power engineering — from uranium production to nuclear power plant construction and energy generation. AEP already includes such large companies as Rosenergoatom, TVEL. TENEX etc. AEP was established in order to consolidate the assets of the civilian part of the Russian nuclear industry which has a history of over 70 years. It has absorbed the unique experience accumulated across the whole range of technologies of nuclear fuel cycle and nuclear power plant construction. This huge experience is the basis of Atomenergoprom leadership in the world market of nuclear technologies.

100% of JSC Atomenergoprom is controlled by Rosatom State Atomic Energy Corporation (ROSATOM).





Atomenergoremont, JSC



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STAND **RG**

Atomenergoremont JSC is an enterprise for maintenance and repair of nuclear power plants, a subsidiary of Concern Rosenergoatom JSC. It's a specialized repair organization of the nuclear power industry of the Russian Federation. Today Atomenergoremont JSC is the only in the industry and the largest in Russia specialized repair organization for maintenance & repair of NPPs. Atomenergoremont represents

- more than 9 000 professionals
- 35 years of high-quality maintenance of NPPs
- 9 branches in Russia
- the branch in the Republic of Armenia
- the representative office in the Republic of Belarus
- maintenance and repair of more than 40 Russian NPPs annually Areas of activities

- NPP maintenance and upgrading
- Eddy current test of heat exchanging tubes of steam generators
- Design and manufacturing of automated metal inspection devices
- Manufacturing of tools for turbine maintenance
- Steam generators replacement
- · Installation of ship mechanisms.





AtomInvest



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"AtomInvest" is an investment online platform that combines the growing business and potential investors on mutually beneficial conditions. AtomInvest is responsible for the formation of the favorite investment landscape and digitization infrastructure relations between investors and entrepreneurs, both for internal corporate needs and for external partners. The investment experts of "AtomInvest" also carry out a preliminary selection of innovative projects and startups for further integration into circuit of "Rosatom" State Corporation. AtomInvest is a joint venture of Research Institute "Graphite" of "Rosatom" State Corporation and private enterprise.

The project is imlemented in order to realize the assistance for small and medium - sized enterprises in accordance under the Decree "On national objectives and strategic tasks of Russian Federation's development in the period up to 2024" and "On small and medium business development in the Russian Federation" by the Federal law.





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STAND **RG**

Engineering company for comisioning of NPP, thermal generation, transmissioning and distribution facilities





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STAND **B42**

ATOMTEX Scientific and Production Unitary Enterprise is a sustainably developing business, a leading developer and manufacturer of instruments and equipment for nuclear measurements and radiation control. Product deliveries to 85 countries of the world; export share is 90 %. ATOMTEX product range of over 100 positions includes personal dosimeters, portable dosimeters, radiation monitors, stationary monitors, portable spectrometers, spectral radiation scanners, stationary spectrometers, whole body counters, radiation monitoring systems, portal monitors, gamma and neutron calibration facilities, dosimetric calibration benches and a wide range of smart detection units for various purposes, etc.

ATOMTEX has been regularly supplying companies of ROSATOM, IAEA, CTBTO, and companies of nuclear industry in a number of countries.





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STAND **B20**

VSMPO-AVISMA Corporation is the world's only totally integrated titanium producer (sponge, ingots and all kinds of semi-finished products of titanium alloys). The Corporation is involved in the most knowledge-intensive industries of the world economy, namely: aerospace, power engineering (including nuclear-power engineering), chemical engineering, ship-building, medicine and etc. The Corporation's partners are more than 300 companies in 49 countries.



Belarusian NPP



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STAND C15

RUE "Belarusian Nuclear Power Plant" (SE "Belarusian NPP") It was established as state enterprise "Directorate for the Nuclear Power Plant construction" in accordance with the President Decree No565 from November 12, 2007 "About some measures for nuclear power plant construction". State enterprise "Directorate for Nuclear Power Plant construction" was reorganised into republican unitary enterprise "Belarusian Nuclear Power Plant" (state enterprise "Belarusian NPP")in accordance with the President Decree №583 from December 30. 2013 year. Republican Unitary Enterprise "Belarusian Nuclear Power Plant" is a customer for construction and operator (operating organization) by commissioning, operating, restriction of operating characteristics, extension of life-time and decommissioning of Belarusian NPP.





BELLELI



STAND **D10**

Founded in 1947, Belleli Energy CPE is a worldwide recognized brand to define solutions for critical process equipment in the Oil, Refining, Gas Monetization, Nuclear & Power sectors.

The in-house design, engineering and manufacturing allow the company to ensure integrity of materials, processes and products from raw materials through fabrication, to completed products.

Belleli Energy CPE wide portfolio covers the following equipment:

- 1. Oil Monetization and Oil&Gas Downstream:
- Hydrocracking/Hydrotreating reactors
- Breech lock type heat exchangers
- Tubular reactors
- High pressure separators
- High pressure heat exchanger
- Urea equipment
- · Ammonia converters
- Synthetic gas equipment
- Heavy wall vessels

- Methanol reactors
- Radiant Syngas Cooler
- EB/SM equipment
- · GTL reactors
- 2. Nuclear & power sector
- Steam Generators
- Heat Exchangers
- Pressure Vessels & Pumps Casing
- Main containment & Air Locks
- Primary Piping
- Vacuum vessel fabrication for Iter Project
- 3. Main Special project followed:
- ITER project
- R&D with Prototypes
- Offshore Jackets&Platforms
- Steel Structures
- CIRA Wind Tunnel
- VIRGO Interferometer













walter tosto 📵



Heat Exchangers Pressure Vessels Vacuum Vessels Safety Tanks Blend Tanks Air Lock Channels and Penetrations Containment Vessels or Liners HP LP Feed Water Heaters MSR Condensers Spent Fuel Cask

Reactor Heads



Steam Generators High pressure Heat Exchangers Pressure Vessels & Pumps Casing Main containment & Air Locks Primary Piping Vacuum vessel





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STAND **B43**

BOLTING Technology LLC specializes in direct supplies of equipment for calibrated inhaling of bolted connections from the leading European producer ITH (Germany). Company is the official representative of ITH in Russia. Belarus and Kazakhstan. All products of the above-stated companies are certified and conformed to requirements of "Technical regulations of the Customs union of TR CU 010/2011 "About safety of machinery and the equipment". The ITH company develops and creates decisions for nuclear power market since 1980. The high innovative potential is confirmed by over 200 national and international patents. Many decisions developed by the ITH company have already become standard in the field of threaded connections. Worldwide more than 120 projects were realized successfully.

Our bolting tools and solutions are improved continuously due to the leading demands of the market:

- Safety
- Fast and reliable bolting procedures
- Quality and precise results.





BUREAU VERITAS



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STAND B82

Bureau Veritas is a world leader in testing, inspection and certification. We help clients across all industries address challenges in quality, health & safety, environmental protection (QHSE) and social responsibility. For over 180 years, our clients have looked to us to provide technical support, verify compliance or obtain certification. We support them in increasing performance throughout the life of their assets and products and via continuous improvement in their processes and management systems. Our teams worldwide are driven by a strong purpose: to preserve people, assets and the environment by identifying, preventing, managing and reducing risks.





CABLE ALLIANCE HOLDING



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STAND **E22**

The leading company in the cable industry. Well-developed logistic network consisting of 9 storage facilities. 3 production locations - JSC "EKZ", JSC "Sibcable", JSC "Uralcable". Quality management system is certified. Commitment to cooperation and joint efforts in developing wires and cables intended for operation in harsh environments. Wide selection of wires and cables - 160000 label sizes. including MV and HV power cables rated for voltages of up 110 kV, for nuclear industry, telecom wires and cables, excavator cables as well as thermocouple cables, winding wires, vehicle-borne cables, ship cables including a new generation of ship cables featuring the following unbeatable benefits: higher fire resistance; higher throughput, improved electrical properties of the insulation, improved mechanical properties of the jacket, improved weight and size characteristics. The ship cables are approved by Marine and River Registers of Shipping.





Caterpillar Inc.



www.cat.com/nuclear



STAND E10

Caterpillar is a leader in the power generation marketplace with systems engineered to deliver unmatched durability, reliability and value for nuclear power installations around the world. Caterpillar and the Cat® dealer network have more than 40 years' experience in designing and installing new safety power backup equipment, replacing aging generator sets, and maintaining existing systems to meet the exacting standards and specifications of regulators and nuclear power plant operators.

Caterpillar offers standby and emergency power solutions including Emergency Diesel Generators (EDGs), Station Black Out units (SBOs), and mobile diesel generator sets. Cat equipment undergoes rigorous type testing and seismic qualification while engineers deliver material traceability documentation and quality management for certification according to KTA, IEEE, and GHOST, among other applicable standards. All Cat nuclear power systems support Severe Accident Mitigation and FLEX strategies, including cooling capabilities and backup electrical power capabilities.

Caterpillar also offers worldwide product support with parts and service available globally through the Cat authorized service and dealer network.

Caterpillar's power solutions for nuclear applications have also been honoured by leading industry organizations. Caterpillar and Cat dealer, Zeppelin Power Systems CZ, were recognized at the World Nuclear Exhibition (WNE) 2018. The award acknowledged their first-of-its-kind modular, containerized emergency power solution implemented at a recent project in the Czech Republic. To find out more about this project and how Caterpillar and the Cat dealer network have delivered the durability and reliability demanded by our customers over the long term, visit www.cat.com/nuclear.





CEA



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STAND C50

The CEA: a key player in technological research The French Alternative Energies and Atomic Energy Commission (CEA) is a key player in research, development and innovation in four main areas: defence and security, low carbon energies (nuclear and renewable energies), technological research for industry, fundamental research in the physical sciences and life sciences.





Center for development of nuclear innovation cluster of Dimitrovgrad



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STAND **E10**

Independent non-profit organization "Center for development of nuclear innovation cluster of Dimitrovgrad, Ulyanovsk region" was created on December 17, 2012 by the Government Ulyanovsk region and the Administration of Dimitrovgrad Ulyanovsk region. Main purpose the center's work is to create conditions for effective interaction between organizations participants, institutions of education and science. non-profit and public organizations, bodies government and local governments, investors for development nuclear innovation cluster of the city of Dimitrovgrad of the Ulyanovsk region, ensuring implementation of cluster development projects.

The main activities of the center: development and promotion of projects for the development of the nuclear innovation cluster; organization of training, retraining, advanced training and internships of personnel, participation in the implementation of educational programs; information support for the development of the cluster.





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Ceramic technologies LLC - an innovative company that implements high-tech projects of silicon carbide products development. One of the most significant projects of our company is dedicated to the creation of canisters for the disposal of HLW and SNF, which have no analogues in the world and provide isolation of the environment from radionuclides for a period of not less than 10 000 years.





Chepetsky Mechanical Plant (CMP), JSC



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A SC «ROSATOM» COMPANY

STAND **RG**

Chepetsky Mechanical Plant is a joint stock company, the part of TVEL Corporation belonging to Nuclear Power Federal Agency. The Plant is located in Glazov. the town which is situated in the north part of Udmurt Republic. SC Chepetsky Mechanical Plant is one of the world leaders in production of zirconium and zirconium alloy products, titanium, hafnium, superconductor material, niobium and calcium metal and is one of the dominant Plants in production chain of manufacturing of fuel, structural materials and products for nuclear power engineering. From raw material to final product - that is the Plant production cycle.





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C30

Through its Pumps activity, CLEXTRAL has delivered more than 17 000 dosing and high pressure volumetric alternative pumps worldwide for nuclear, oil, gas and chemical applications. Since the beginning of the nuclear industry, the major operators have selected the CLEXTRAL technology for the design and the supply of hydrostatic test pumps intended for safety injection circuits of the French nuclear program for pressurized water reactors (PWR). In 1977, CLEXTRAL integrates an exclusive hydraulic drive system to these pumps to meet a specific need of those customers.

It enabled the deployment of those pumps on almost all French nuclear power stations (900/1300MW and N4) and other countries such as Belgium, Switzerland, South Africa, South Korea and China (CPR1000). Thanks to its emergency and boron injection pumps, CLEXTRAL becomes also a EPR supplier (Finland, China, United Kingdom recently).





China National Nuclear Corporation (CNNC)





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STAND **B10**

China National Nuclear Corporation(CNNC) is a large state-owned enterprise founded in 1955.CNNC is the pioneer of China's nuclear industry, and incorporates more than 700 subsidiaries. CNNC's main businesses covers nuclear fundamental research, nuclear and radiation safety. nuclear power, nuclear fuels cycle, nuclear technology application, nuclear environment engineering, renewable energy, capital operation and international cooperation. CNNC has established a comprehensive nuclear industry system and complete nuclear fuel cycle system, which includes uranium exploration, uranium mining, fuel fabrication, reactor, reprocessing and waste disposal.

CNNC carries out extensive international cooperation in nuclear power, nuclear fuels and nuclear technology applications and has close ties with over 40 countries and regions on science & technology exchanges and projects implementation. Meanwhile, CNNC has sound relationship with international organizations, such as IAEA, WANO, ITER, etc.





C-PLUS



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STAND **RG**

"C-PLUS" is part of the Rosenergoatom power concern and the leading integrator of energy-efficient and energy-saving technologies. Using actively the experience and competence of staff specialists, "C-PLUS" implements strategic goals for creating new products for the Russian and International energy markets. The key task in the implementation of digital projects and the concept of "Smart City" is increasing the economic potential through the use of modern digital technologies and systems for the automation. As the largest integrator, the "C-PLUS" company develops across several areas to serve the needs of Rosatom State Corporation:

- Integration of digital solutions under the program The Digital Economy of the Russian Federation.
- Production of polymers and fullerenes
- Fire Testing Laboratories.

We invite visitors to the demonstration stand "C-PLUS" for an interactive demonstration of the cloud service possibilities using an example of the urban power system.





Czech Power Industry Alliance (CPIA)



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STAND C41

CPIA was established in September 2015 as a non-exclusive partnership of companies, who are active in design, manufacturing, deliveries and installations in nuclear power plant projects. Czech industry has a long record of activities in nuclear sector, in history 90% of NPP equipment were produced domestically. The know-how and craftsmanship remained, so the companies are capable of deliveries of various commodities for NPP worldwide.

CPIA is lead by ŠKODA PRAHA, a leader with unique experience of being the EPC contractor of all domestic nuclear units. CPIA is also supported by Czech government as it meets the official requirements from National Action Plan for development of nuclear power.





DEF ENERGY



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STAND C30

DEF is a French independent Group that operates in 12 countries, specialising in the design, manufacture, installation and maintenance of fire safety systems. With increasing references in the nuclear market, the DEF Energy and Environment subsidiary has been set up to manage the requirements of the nuclear projects and develop products and services that answer the high specifics of the field.

Today, as a leading supplier of the nuclear fire safety, DEF Energy and Environment is working on projects all over the world, proposing solutions for different types of projects (civil, research, decommissioning, fuel cycle), and is willing to develop and collaborate on the new, challenging opportunities that shape the nuclear market of tomorrow.





DEKRA



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STAND **D52**

DEKRA is an independent inspection company, offering conformity assessment, technical inspection, certification and testing. DEKRA is a notified Body in accordance with PED, TPED and Construction Product Regulation. DEKRA has approval by the French and Nordic authorities ASN, STUK and SSM for inspection of mechanical equipment and structures. References Work experience in nuclear power plants in the following countries; Finland, Sweden, Germany, Russia, Switzerland, France, Lithuania and USA. Certificates: EN17020 and others





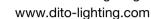
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STAND D31

DITO is Slovenian, privately held company, established in 1992. We are developing and producing Rad-Hard LED Luminaires, designed for most demanding nuclear applications. Our Luminaires have world's highest tested and certified radiation tolerance. Beside this, our Luminaires have world's first and only LOCA certificate.





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STAND **D50**

Doosan HF Controls Corporation (HFC) is a supplier of Instrumentation and Controls (I&C) for the power industry.

HFC is a subsidiary of Doosan Heavy Industries, providing nuclear safety I&C solutions for nuclear power plants, as well as Safety Instrumented System (SIS) solutions for critical process controls worldwide, including North America, Europe, Korea, India, and China.

HFC has three main product lines (platforms): AFS-1000 (Boiler & Nuclear I&C), ECS-1200 (Fossil Power Plant & Nuclear Conventional Island Control), and HFC-6000 (Nuclear Power Plant & Industrial Process Safety & Mission Critical Control).

HFC's platforms adapt the microprocessor to digital signal processing (DSP), continuously evolving using state-of-the art technologies. The HFC-6000 platform meets the highest reliability and safety standards of the industry. It has been extensively reviewed and evaluated by the US NRC and received the NRC SER in 2011.

HFC is certified for TÜV SIL3 and ISO 9001:2015.



Mechanical Engineering Plant (ELEMASH), PJSC



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PJSC «Mashinostroitelny zavod» (MSZ), incorporated into the structure of the TVEL Fuel Company, a division of Rosatom State Corporation, is the major Russian manufacturer of nuclear fuel. The plant produces nuclear fuel for power reactors of Russian and western design, for research reactors and marine fleet transport reactors. The production of rod cluster control assemblies (RCCA) for nuclear reactors is implemented. Disposing of nuclear fuel production cycle from conversion of UF6 into UO2 powder up to the fuel assembly production, MSZ supplies fuel to its customers in the form of fuel assemblies for exploitation in active zones of nuclear reactors, and in form of components powder and pellets.

Fuel and its components manufactured by MSZ are delivered through the TVEL Fuel Company orders to Russia, Ukraine, Armenia, Czech Republic, Slovakia, Hungary, Finland, China and India; within the cooperation with Framatome – to the Western European countries.





EMIS, Company Group of Industrial Companies





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EMIS Group is Russian manufacturer and developer of modern control and measuring instruments and complex solutions for process control.





FNGIF





www.



STAND C30

As a global energy and services group driven by our ambition to contribute to harmonious progress, we address major global challenges such as the fight against global warming, access to energy for all, and we offer businesses and communities energy production solutions and services that reconcile individual and collective interests.

Being an actor for over 55 years in nuclear energy ENGIE covers the entire nuclear energy value chain. In addition to its expertise as a nuclear operator, the Group is strategically placed and active in the delivery of services, with competences in engineering and design, construction, installation, fuel management, maintenance, spent fuel and radioactive waste management, and decommissioning & dismantling services.

Through its affiliated companies - ENGIE Ineo, ENGIE Axima, ENDEL ENGIE and Tractebel ENGIE amongst others - ENGIE aims to pursue its leading role in the field of services for the nuclear industry.





ENSECO, a.s.



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STAND **D70**

ENSECO, a. s., was established in 1997 as a highly specialized organization that brings together the best professionals with operational nuclear facilities experience and who are able to perform non-active testing of nuclear equipment. Gradually, we broadened our scope of interest by other services, and today we are able to provide a complex delivery of investment projects from the design up to the execution phase. The company has built its own assembly unit, which enables us to provide a wide range of servicing, manufacturing and processing activities.





EREC, JSC



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STAND **RG**

The Company's mission is to develop, test and implement an innovative scientific technical solutions and technologies providing enhancement of safety, reliability and effectiveness of operation of existing and newly-designed NPPs with water-cooled reactors





Fennovoima





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With the aim of building a nuclear power plant, Hanhikivi 1, Fennovoima was founded in 2007 by a group of Finnish electricity consumers: industrial companies and energy utilities in need of safe, stablepriced and reliable low carbon electricity generation. Fennovoima is a non-profit cooperative: the owners will receive the electricity at cost price in proportion to their ownership share. The company currently employs over 390 experts from almost 25 different countries around the world. Fennovoima is actively recruiting. The project is based on local and regional support. Hanhikivi 1 will be located in Pyhajoki, Northern Finland. It will operate a Russian VVER-1200 power plant. The project is now in the licensing phase.





FINNUCLEAR





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STAND **D52**

FinNuclear Association represents the Finnish Nuclear Industry. Finnuclear - members' expertise cover the complete nuclear lifecycle. Nuclear energy is the largest single source of energy for electricity production in Finland. FinNuclear Ltd provides support services focused on the supply chain development, such as training and business events.





Fortum



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STAND **D52**

Fortum is a power company with long roots in the nuclear field as an owner, operator and a service provider. Fortum Nuclear Services offers innovative solutions for the nuclear power industry that help to ensure high levels of safety and the best economic performance. Our wide range of expert services cover the complete lifecycle of nuclear power plants.





FRAMATOME



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STAND C40

Framatome is a major international actor in the nuclear energy market recognized for its innovative solutions and value-added technologies for designing, building, maintaining, and advancing the global nuclear fleet. The company designs, manufactures, and installs components, fuel and instrumentation and control systems for nuclear power plants and offers a full range of reactor services. With 14,000 employees worldwide, every day Framatome's expertise helps its customers improve the safety and performance of their nuclear plants and achieve their economic and societal goals.

Framatome has deep knowledge of all types of VVER reactors, services and equipment supplies to Russian design NPPs in Russia and Europe since 1990.





Gazprombank, JSC



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We provide a broad array of commercial banking services to a variety of our corporate customers, including lending in various currencies, trade finance, settlement and cash management services. One other very important sphere of our relationship with our corporate customers is funding we receive in the form of customer current accounts and term deposits.



Our investment banking activities include capital markets, brokerage, corporate finance and project finance services, asset management and private equity investments. In the course of our investment banking activities we conduct private equity investments in companies from different industries not connected with banking.





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- VVER reactor plants for NPPs
- Nuclear steam supply systems with leadbismuth liquid metal coolant for NPPs
- Equipment and pipelines for NPP reactor plants and pilot experimental plants.
- Steam generators for VVER reactor plants and fast neutron reactor plants with sodium coolant
- Experimental facilities for refining the engineering solutions, checking the designed components and equipment of power plants for operability and reliability, for testing the materials of reactor plant equipment and pipelines
- Scientific-and-technical support and designer's supervision of forehead and commercial reactor plant designs

- Software sets for calculation justification of VVER RP designs and safety.
- Software sets for mathematical support of automated process control system (APCS)
- Informational and information-analytical systems for acquisition, storage and analysis of huge information collections of NPP equipment and pipelines technical characteristic
- Cooperation with foreign countries in the area of nuclear science and engineering.





GIFEN



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STAND C30

At a constituent meeting on June 2018, national nuclear industry associations, 24 major suppliers, and prime instructing parties – EDF, ORANO, Framatome, CEA (French Atomic Energy and Alternative Energies Commission), ANDRA(National Radioactive Waste Management Agency) – established the French Nuclear Energy Industry Group (GIFEN).

The Group will act as the mouthpiece for the French nuclear industry, which is composed of 2,600 companies and counts 220,000 jobs, and will represent the common interests of its members, both in France and abroad. Its mission will be to represent all the sector's manufacturers in their dealings with government authorities and administrations, and in their dealings with organisations addressing issues relating to the nuclear industry in France, in Europe and beyond (including decommissioning activities).

Within GIFEN, the French Group of Operator Suppliers (GIFE) will allow these companies to pursue long-established relations with other foreign prime instructing parties.





GIT (Group of Industrial Technologies)



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STAND E10

GIT (Group of Industrial Technologies) is a solution provider developing and implementing industrial intercom and security systems. The company is engaged in the implementation of reliable solutions in Europe and Asia based on its own developments and the equipment of leading global manufacturers.





Greenatom, JSC



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Multifunctional Shared Service Center Greenatom represents a business model when transactional standard processes are delegated from organizations to the Shared Service Center. This step contributed to end-to-end business processes, manageability and transparency of delegated in multifunctional SSC functions. Today Greenatom is an ambitious platform for digitalization and robotization of internal industry's processes. Accounting: accounting and tax financial statements, payroll, function of Chief Accountant, keeping records of internal regulations. HR management: organizational structure and staffing table, personnel administration, annual personnel evaluation, social programs and staff awards.

IT support: research and development, digitalization and robotization of internal business processes, introduction and development of centralized corporate systems, project office, development of network infrastructure, support and learning of IT systems' users.



Hydrospetzgeologiya, FSBI



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STAND D25

FSBI "Hudrospetzgeologiya" is a diversified geological enterprise with more than 80 years of history, participating in ensuring environmental safety of the state and solving problems aimed at developing the mineral and raw materials base of Russia. Currently, the main activities of the enterprise are:

- Special military-geological work. Design of digital sets of special geological maps;
- State monitoring of the subsoil (groundwater, dangerous exogenous and endogenous geological processes);
- Hydrogeological, engineering-geological and geoecological surveys;

- Object monitoring of the subsoil state.
 Developing of data-analytical platform for radio-ecological monitoring and control systems of information resources of the subsoil state:
- Forecast of the spread of chemical and radioactive contamination in groundwater by mathematical modeling;
- Designing and drilling of prospecting, exploratory, geotechnical, operating (on water) and engineering-geological wells.





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IBRAF



IBRAE RAS is a leading global research center, specializing in fundamental and applied research in the fields of Safety of Nuclear Facilities. We have highly qualified personnel (including 170 specialists with PhD and upper academic degrees), developed methodology and modern software systems, databases and knowledgebase systems that allow us to work on tasks to ensure the safety of nuclear facilities and systems safety problems, including the assessment of the impact of radioactive and chemically hazardous substances on humans and biota.



International Uranium Enrichment Centre (IUEC), JSC



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The International Uranium Enrichment Centre (IUEC) was founded in the Russian Federation on May 10, 2007 jointly with the Republic of Kazakhstan pursuant to the initiative of the President of the Russian Federation Vladimir Putin. The IUEC is the only global project providing equal access to uranium enrichment services for all emerging nuclear energy countries. The IUEC aims to strengthen the nuclear non-proliferation regime as an alternative to the establishment of enrichment facilities and sensitive technologies proliferation.

Areas of activities: Guaranteed Supplies of IUEC Products Primarily to its Shareholders. Guaranteed LEU Stock and IAEA Safeguards Activities.





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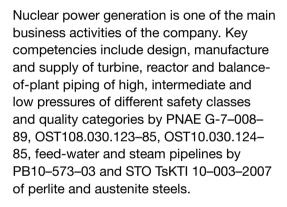
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STAND C20

One of the strategic businesses of Izhorskive Zavody is design and manufacture of nuclear power equipment. More than 60 sets of vessel type equipment of VVER-440 and VVER-1000 operate at power stations in Russia, Ukraine, Bulgaria, Slovakia, Finland, China, India and other countries. Proven track record of pressurized water reactors produced by Izhorskiye Zavody for NPP in various countries testifies to their reliability and safety At the present time Izhorskiye Zavode produce vessel type equipment for power plants with VVER-1200 Reactors with electric power of 1200 MW. Operating life of the new Reactor has been extended to reach 60 years.





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STAND C30

JST Transformateurs has been building transformers for the nuclear activity for more than 40 years for the partners such as EDF(France), Krsko (Slovenia) and KKG (Switzerland). Its experience in very high power transformation enables it to offer proven and reliable solutions matching technical constraints required by its customers.





Korea Atomic Industrial Forum (KAIF)



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STAND A30

KAIF has executed many major businesses including nuclear manpower development, nuclear international cooperation, international seminar, publication of various materials, and public relations business to the nation along with a central roles for the nuclear industry so far since it was founded as the first non-profit organization in October 12, 1972.

KAIF established the Three Business Visions including promotion between related organizations, building network among domestic and overseas countries, strengthening of educational programs and activities for them in order to play a leading role in the Korean nuclear industry.



KEPCO E&C



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STAND A30

Since the establishment in 1975, KEPCO E&C is a world-class company having the A/E(Architect Engineering) and NSSS(Nuclear Steam Supply System) Design technology, and developed OPR1000 and APR1400, etc. In 2009, KEPCO E&C participated in a nuclear power plant project in Barakah, UAE for the first exportation of Korean-model nuclear power plant, and are performing A/E and NSSS Design. In addition, from 2016, we are participating in the engineering of a SMART nuclear power plant, which is a small to mid-sized nuclear power plant, to export to Saudi Arabia.

The power plants designed by the engineers of KEPCO E&C has been the foundation of energy independence and economic development of Korea, and we will now contribute to creating energy that will bring happiness to all mankind.





KEPCO KPS



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KEPCO KPS is a public enterprise providing total solutions for the diagnosis and improvement of power plant facilities, O&M for power generation facilities in Korea and overseas, and EPC for new renewable energy, industrial facilities, and transmission and substation facilities. Established 30 years ago with the aim of providing efficient maintenance and management solutions for power facilities, which have been the key factor for the development of the Korean national economy, our company has since grown into a leading player in the sector of power facilities maintenance and management based on our devoted efforts for the development of technology and human resources and increased new customers in the global markets.

Today, our company is fast growing into a sustainable enterprise by making innovative efforts to secure technological advantages in the commercial nuclear reactor decommissioning industry and expanding its role in the renewable energy market.

KEPCO KPS



KEPCO Nuclear Fuel Co., Ltd. (**KEPCO NF**)



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STAND A30

KEPCO NF, Global Leading Nuclear Energy Partner.

KEPCO NF(KEPCO Nuclear Fuel) is the one and only professional nuclear fuel company in South Korea, which performs high-level reactor core design, nuclear fuel design & fabrication, safety analysis and related services. Based on the experience of localization and accumulated technology, KEPCO NF has been supplying the nuclear fuels to all the domestic nuclear power plants and Barakah nuclear power plants in the United Arab Emirates(UAE). Furthermore, KEPCO NF is a leading manufacturer and exporter of major fuel components such as cladding tubes, top and bottom nozzles and grids as well as service equipments.

With the overseas business experience and its own technology, KEPCO NF is working together with KEPCO and KHNP as a part of Team Korea to win contracts for new overseas nuclear power plant. With safe and clean nuclear energy, KEPCO NF will create an abundant future of humanity.



Korea Hydro & Nuclaer Power Co., Ltd (KHNP)





South Korea, Gyeongju-si 1655 Bulguk-ro yangbuk-myeon



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www.khnp.co.kr



Korea Hydro & Nuclear Power Co., Ltd. is Korea's largest power generation company, and supplies 27% of Korea's power consumption with its 24 nuclear power plants, 35 hydroelectric power plants, 16 pumped storage power plants and renewable energy resources. Our mission and pride, represented by the motto 'We supply a stable power source not only to enrich quality of life, but also to provide a foundation for the growth of the national economy,' drives the company's development and growth.

Nuclear power generation is the major power source in Korea, and has been serving as the support for the growth of the national economy. KHNP has also been operating hydroelectric and pumped storage power plants in parallel to ensure a stable supply of power. We are also dedicated to the promotion of renewable energy projects. We are currently working on the construction of photovoltaic power generation, wind power and fuel cell power plants. Overseas projects are also currently a major concern.





Lesedi Nuclear Services



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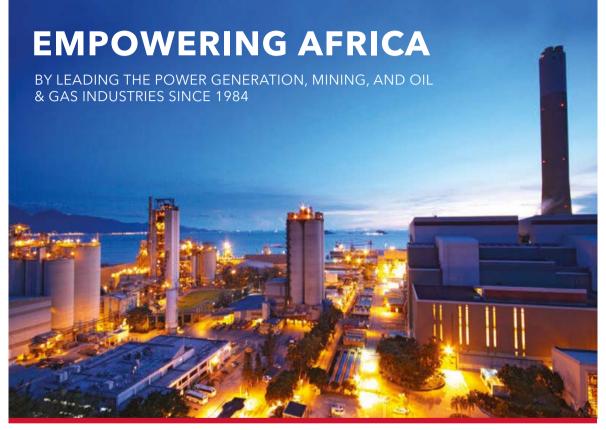




As an EPC and EPCM contractor with a diversified service offering, Lesedi offers strong engineering project management services including coordination, design, procurement, and construction management and execution, ensuring compliance with the client's briefs and requirements. The very nature of our business demands an acute sense of professionalism, meaning superior expertise and constant vigilance in matters of safety, security, environmental protection and quality assurance.

Lesedi's international nuclear services business unit focuses on exporting core skills. Since 2006 Lesedi has completed more than 150 modifications at Koeberg and more than 75 interventions globally, mainly in the USA.







Oil & Gas

- EP&C of the Balance of Plant for Eskom's four Gas Turbine Power Stations constructed in Atlantis and Mossel Bay in the Western Cape, South Africa.
- Mechanical erection of 14x150MW gas turbines for Siemens and associated turbine halls.
- Since 1990, Lesedi has successfully completed projects across Africa, illustrating our expertise.



Technology Products

 Lesedi has successfully concluded agency agreements for several state of the art products and services such as CONCO System Inc. and Arkema (DMDS).



Lesedi NS - https://twitter.com/Lesedi__NS



Mining

- Execution of turnkey engineering projects in the minerals processing and mining industries.
- Through its network of world-class technology partners, Lesedi offers gas-cleaning and emissions control plants for its clients.



Biomass, Waste to Energy & Solar

- Lesedi achieved preferential bidding status for two biomass projects for the South African RIEPPP (16.5MW - sugar cane & 5MW - wood chip.)
- Lesedi is the local partner for Exosun (singleaxis tracking).
- More than 20 projects under development in Africa.
- Our global partner has built over 100 bio-energy power plants, totalling more than 2,650 MW.



Nuclear

- 30 years of upgrade and maintenance projects at Eskom's Koeberg Nuclear Power Station in Cape Town, South Africa, including over 150 modifications on the plant.
- International maintenance services contracts in England, Brazil, China, France and the USA, including over 75 interventions since 2006.



Thermal

 Balance of Plant for Eskom's Medupi and Kusile Power Station, the biggest dry-cooled power stations in the world.

What can we do for you?

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Mayak Production Association, FSUE



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Federal State Unitary Enterprise Mayak Production Association is one of the key industrial facilities of the Russian atomic sector, and the leader of nuclear weapons complex of the Russian Federation.

The main directions of the current activities of the Mayak PA include:

- executing the state defense order on production of nuclear weapon components;
- · ensuring backend of the nuclear fuel cycle, transporting and reprocessing irradiated nuclear fuel;
- providing complete package of services on isotope product management ranging from manufacturing to disposal;
- tool building;
- performing scientific and production activities, and handling problems of nuclear legacy.





MCCI



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MODERAM, Production and Technology Company, JSC





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JSC "Production and Technology Company "MODERAM" is a company, which includes production, R&D and service units. The main activity of our company is the development and production of safety shoes for Russian industrial enterprises and corporations, as well as state-owned companies and law enforcement agencies. Our priorities are product quality and innovations. We strive for excellence constantly and support our customers throughout the whole period of shoes wearing, listen to all the comments and suggestions, analyzing and perfecting our models and production technology.

Company was founded in 1993. Four own shoe factories are operating in Russia and Belarus, all the company includes over than 1,000 employees. The volume of footwear production is more than a million pairs a year. Every year more than 20 new models of shoes are introducing into the production.





NANOSOFT



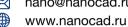
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STAND E10

Since 2008 Nanosoft has offered innovative development methods and software distribution. We are focused on the creation of cost-effective CAD solutions. An important goal for us is to provide our customers with an ideal vehicle to upgrade from the use of unlicensed CAD software to the use of legitimate software. To accomplish this, we must do our best to minimize any transfer effects experienced by our customers. That is why one of our key strategies is the development of free software products. nanoCAD is a professional grade CAD tool. It has a familiar interface, powerful drafting and design tools, native DWG compatibility, and an open API. And it's totally free to use and share.

No catches, no gotchas, and no compromises. nanoCAD Plus is everything nanoCAD is, and more. It includes even more productivity features, and is available through a low-cost annual subscription, including updates and priority online support.





National Operator for Radioactive Waste Management, FSUE



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STAND **RG**

FSUE "National operator for radioactive waste management" was established by the Russian Federation Government and determined as the only organization for the final disposal of RW, as well as for creating a unified system and implementation of state policy in the field of RW management. The mission of the company is to solve the issue of safe final isolation of radioactive waste and prevent its contact with the biosphere throughout radiation activity. The enterprise includes branches: Zheleznogorsky, Seversky, Dimitrovgradsky, Ozersky and unit Novouralskoye of Severskiy branch (with the first in Russia final disposal facility for RW of 3 and 4 classes).

Now, the design of the final disposal repositories in Seversk, Tomsk region, and Ozersk, Chelyabinsk region, is to be finished. In 2018, preparation work began on creating an underground research laboratory in Zheleznogorsk, the Krasnoyarsk Territory, for studying the possibility of final disposal for high level long-lived waste.



NIKIET, JSC



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STAND **RG**

The Institute operates in the market of services throughout the lifecycle of nuclear facilities, including their design, R&D for the design validation, tests, operational support, upgrading, and decommissioning.

The Institute's outputs are:

- power propulsion plants;
- nuclear power facilities for nuclear plants of various types and purposes;
- nuclear research and isotope reactors;
- neutronic systems of the ITER thermonuclear reactor;
- automated control systems for nuclear power reactor facilities;
- metal monitoring and diagnostic equipment for nuclear plant components and pipelines;
- R&D in the field of structural materials, nuclear safety, decommissioning of nuclear power plants and radioactive waste handling.





NIKIRET



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STAND **RG**

R&D Research and Design Institute of Radio-Electronic Engineering (NIKIRET Institute), which is a part of JSC "FSPC "PC "Start" named after M.V. Protsenko" as its branch, is a specialized enterprise. Over 40 years it has been working in the field of design, mass production and introduction of technical security means of physical protection. More than 14,000 km of the State Border of the former USSR. hundreds of VIP State and government facilities, Rosatom facilities, facilities of Federal Security Service of the Russian Federation (FSB), the Ministry of Defense, the Ministry of Foreign Affairs, the Ministry of Justice, the military-industrial and oil and gas complexes and many other sites are equipped with devices developed by NIKIRET.

NIKIRET leading position in the market of technical security equipment is provided by a team of highly qualified engineers, workers, designers and testers, a state-of-the-art laboratory and production base, as well as the unique accredited test center.



Novosibirsk Chemical Concentrates Plant, PJSC



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www.nccp.ru





Novosibirsk Chemical Concentrates Plant (NCCP) is one of the world's leading manufacturers of the nuclear fuel for NPPs and for research reactors in Russia and abroad. The enterprise is the only Russian manufacturer of lithium metal and lithium salts. NCCP is part of Fuel Company TVEL which is affiliated with State Corporation ROSATOM.

The enterprise was founded on September 25, 1948. Today, the fuel fabricated by NCCP accounts for about 6% of the total installed capacity of power reactors worldwide.



NovaWind, JSC



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NovaWind JSC is a division of Rosatom. Founded in 2017 with a charter capital of RUB 1.101 billion, the company consolidates all of the Rosatom's wind energy assets. NovaWind implements the corporation's strategy in the wind energy business. The strategy success requires forming of new competencies in Russia, such as wind farms' construction and management, localization and ramp-up production of wind turbines, marketing and sales of new products along with their top quality after-sales support. NovaWind JSC is an equal shareholder in a joint venture with a Dutch technology partner Lagerwey.

The JV - Red Wind B.V. - is responsible for turnkey delivery of wind turbines and production of their components in Volgodonsk. By 2022 NovaWind's will install 1 GW of wind farms.





NUVIA



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STAND **D20**

NUVIA is an international company that operates world-wide on highly regulated and sensitive industrial sites, and has done for decades. We have been involved in all the major nuclear projects in the world thanks to our solid and historical expertise. Today. NUVIA is a key-partner for highly demanding industries that place regulatory requirements and safety at the top of their priorities. Our clients can also count on NUVIA for cutting-edge support services and solutions. With three ranges of NUVIATech products, NUVIA is a leading designer and supplier of sophisticated radiation protection and detection instruments, as valuable in Healthcare, protection, as in radioactivity geolocation.



Afrikantov Mechanical Engineering Experimental Design Bureau, JSC







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www.okbm.nnov.ru



Integrated development of various purpose nuclear power and propulsion plants (light water, gas-cooled, fast reactors). Designing, manufacturing, mounting, operation support.

Development and manufacturing of the equipment for nuclear power, petroleum chemical and oil processing plants, ship building, chemical, food and other industries:

- Circulation pumps with shaft seal and leak-tight electric pumps:
- Gate valves, control valves, safety valves;
- Heat exchange equipment (tubular heat exchangers and plate heat exchangers. oil coolers, air-conditioning system coolers and the others):
- · Electromechanical drives of control and protection system;
- Compressors, gas blowers, fans, fan units;
- · Fuel handling equipment.



OCKS



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STAND **RG**

The Branch Centre of the capital construction (OCKS) of ROSATOM create, document and implement industry solutions, which will increase management and implementation efficiency of capital investment projects for ROSATOM State Corporation in Russia and abroad. The goal of the OCKS is guaranteeing the execution of the capital investments programs in industry and elaborating the uniform norms and standards for capital investments facilities management.

Company's strategy

- development of the management and implementation of control functions of the Investment and Construction Projects (ICP);
- development of industry price control system of the ICP;
- development of ICP participants' competence and qualifications;
- Implementation of industry tools and innovative solutions in the process of managing ICP in Russia and abroad.





ONS MAKINA LTD.





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www.onsmakina.com



STAND E10

ONS MAKINA LTD. STI. has been existing since 1993 and has been dedicating to produce industrial investment equipment for more then 25 years. Our businesses mainly involve in providing robotic and automatic solutions, welding fixtures, control fixtures, assembly fixtures, jigs for industrial production and assembly lines for automotive, aviation, defense industries and the implementation of special projects for the railway and nuclear industry as well.

The services of ONS MAKINA LTD. STI. includes mechanical and electrical design, manufacturing, assembly, automation, installation, commissioning, after-sale service and managing all these processes. We provide our customers complete turnkey project packages.

We have successful experience in implementing projects for such global companies as: Mercedes-Benz, Renault, Toyota, Ford, Magna, FIAT, Airbus, Durmazlar, Orano (AREVA) and many others.

If issue is geometry we are the solution.





PPA CONTROLL, a. s.





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PPA CONTROLL offers its clients studies, designs, deliveries, installation, commissioning and services in the areas of: Instrumentation and Control Systems, Automated Control Systems, Electrical Systems, Switchboard Production, Information and Telecommunication Systems, Servicing and Maintenance. As an engineering and supply company we can look back at over 65 years of success, while currently being in a stable financial position.





Power Machines



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STAND **A20**

Power Machines is a global power engineering company - one of the world's top-ten industry leaders in terms of installed-equipment volume. We have developed a wealth of experience and expertise in the engineering-design, manufacturing and supply of equipment sets for thermal, nuclear and hydro power plants.

The company is an integrated supplier of turbine-generator units for Nuclear Power Plants. "Power machines" is the leader among the world manufacturers of fullspeed turbines for Nuclear Power units. The company also developed with capacity of 1255 MW half-speed turbine unit for the innovative VVER TOI project.





Proryv project



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STAND **RG**

The Proryv project implemented by the State Atomic Energy Corporation ROSATOM is aimed at achieving a new quality of nuclear energy, development, creation and industrial implementation of a closed nuclear fuel cycle (CNFC) based on fast neutron reactors that develop a large-scale nuclear power industry. The project involves more than 30 companies.

Basic requirements:

- Exclusion of severe NPP accidents that require evacuation much less resettlement of the general public.
- Ensuring the competitiveness of nuclear power in comparison with alternative generation, primarily with steam and gas installations, but also solar and wind plants, taking into account all fuel cycle costs.

- Closure of the nuclear fuel cycle for full use of energy potential of the uranium raw materials.
- Step-by-step approach to radiationequivalent disposal of the radwaste.
- Technological strengthening of nonproliferation of nuclear weapons.



United Ecological, Scientific And Research Centre Of Decontamination Of Radioactive Waste (Raw) And Environmental Protection, RADON FSUE



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RADON activity is focused on management of intermediate and low level radioactive waste (RW) generated in national economy (in science, industry, medicine, agriculture etc.).

The enterprise performs all kinds of works with RW — collecting, transportation, treatment and safe storage, as well as radiation emergency service, radioecological and mercury monitoring. The main direction of the enterprise activity is radiation safety of the Moscow residents. There has been developed a complex automated system of ecological monitoring. RADON specialists also carry out radiation control of building sites, radiation dangerous objects and environment, fulfill educational work among the population.

Moreover, RADON deals with collecting and treatment of radioactive waste from 11 regions of Central Russia. The enterprise takes part in development of general principles and practical models for radiation and ecological safety of the cities. The enterprise specialists are involved as experts in preparation of recommendations within the framework of the IAEA coordination technical programs.

The enterprise deals with improvement and elaboration of up-to-date methods of RW management, as well as environment control and protection systems.





RASU, JSC



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JSC Rusatom Automated Control Systems (JSC RASU) is part of Rosatom State Corporation. The company is the single integrator of I&C and Electrical Engineering businesses. It accumulates the long-term experience of Rosatom's enterprises in development of automated control systems and comprehensive electrical engineering solutions. Due to the application of in-house information systems and computer-aided design (CAD) systems, the company continuously improves its performance in I&C operation and maintenance, and automated processes make it possible to reduce the duration of works and improve their quality.

RASU performs the full scope of activities, from engineering and design to delivery and commissioning of I&C systems and electrical equipment, both in Russia and abroad





Rusatom Energy International (REIN JSC)



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Organization description: Rusatom Energy International (REIN JSC), a subsidiary of the State Atomic Energy Corporation ROSATOM, was established in 2011 to promote Russian nuclear technologies at the world market. Since 2015 REIN JSC specializes in overseas BOO – Build-Own-Operate – projects management for NPPs construction and operation. At present, REIN JSC manages the development of two major projects: 4-unit Akkuyu NPP in Turkey and 1-unit Hanhikivi-1 NPP in Finland.





Rusatom Service, JSC



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STAND **RG**

Rusatom Service JSC as a specialized legal entity provides a unique complex solution for the foreign NPPs that operate VVER-type reactors, including assistance in creating a nuclear infrastructure, operation personnel training, commissioning of NPPs and pre-commissioning activities, supplies of equipment and spare parts, modernization and NPP life extension, technical maintenance and repair, as well as technical support throughout the entire life cycle of NPP.





ROBATEL Industries



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C30

ROBATEL Industries, a French company set up in 1830, has been working for the nuclear industry for more than 60 years.

ROBATEL Industries has over 130 employees and a turnover of €20 millions.

The company is currently working for AREVA, EDF, CEA and is extending to Europe and Asia.

ROBATEL Industries designs and manufactures various equipment for the nuclear industry:

- spent fuel or radioactive waste type B transportation casks (more than 80 designs)
- hot cells for analysis or radio element production
- remote handling and process equipment for fuel manufacture
- shielded doors, reactor vessel shielding
- tooling for maintenance of nuclear reactor for submarines, and also special materials used as gamma and/or neutron shielding.

Its people are trained to work under various standards such as CODAP, RCCM, ASME. ROBATEL Industries is certified ISO 9001 – CAEAR – CEFRI – EDF cas 1.





Rolls-Royce



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STAND C62

Rolls-Royce pioneers cutting-edge technologies that deliver the cleanest, safest and most competitive solutions to meet our planet's vital power needs. As part of its civil nuclear business, Rolls-Royce designs, manufactures, installs and maintains cutting-edge nuclear Instrumentation and controls (I&C) solutions that ensure the safety and performance of 200 nuclear reactors worldwide.





Ronik — Nuclear and Medical Technologies



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STAND **B41**

"Ronik — Nuclear and Medical Technologies" offers equipment and instruments for production of radiopharmaceuticals and radio nuclides, protective equipment, facilities with use of particle accelerators and sources of ionizing radiation produced by leading manufacturers:

- Nuclear medical laboratories and PET centers:
- Manipulator systems for working with radioactive materials;
- Radiation installations for sterilization of medical disposals;
- Biological shielding windows and X-ray shielding glasses.





The State Atomic Energy Corporation ROSATOM



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The State Atomic Energy Corporation ROSATOM is one of the global technological leaders. It is one of the largest companies of the Russian Federation. It brings together nuclear power and power engineering assets, as well as NPP design and construction. ROSATOM is the largest electricity generating company in Russia, producing 204.275 bn kWh of electricity in 2018 or 18.7% of the country's total generation of electricity. ROSATOM holds first place for the largest portfolio of foreign construction projects (36 NPPs in 12 countries).

ROSATOM also manufactures equipment and produces isotopes for nuclear medicine, carries out research, material studies. It also produces supercomputers and software as well as different nuclear and non-nuclear innovative products. ROSATOM's strategy is to develop clean energy projects, including wind energy. ROSATOM brings together over 350 enterprises and organizations, including the world's only nuclear icebreaker fleet.





Rosatom Corporate Academy



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STAND **D75**

Rosatom Corporate Academy was founded in 2012 as a classical corporate university. Since then the Academy has become the platform of high-performance HR solutions for the industry. Rosatom Academy plays a major role in strengthening the corporate culture within the industry. We have created and realized a comprehensive system of personnel training and support to managers in implementing values in work life. We develop leaders at all levels of management, enable quick development of necessary competencies and professional skills in the constantly changing environment. Rosatom Academy has been actively involved in the international movement WorldSkills, promoting professional education and offering the best world practices for skills assessment and training.





Rosenergoatom, JSC



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STAND **RG**

Energy production division of Rosatom produces electric and thermal energy at nuclear power plants and performs the functions of operating organization for all 10 Russian NPPs (35 units). Rosenergoatom, the head company of the division, is the largest electricity producer in Russia and takes the second place over the world among the nuclear operators in terms of the installed capacity of nuclear facilities. The mission of the division is to provide the consumers with electric energy along with guaranteed safety assurance as the highest priority in all activities. The safety of Russian NPPs meets the best international practices.

Rosenergoatom is an active participant of the integrated Rosatom offer at international markets of NPP construction. The companies incorporated within the division offer services at all stage of the NPP life cycle: from development of nuclear infrastructure and construction to operation and decommissioning.





RosRAO Radioactive Waste Management Enterprise, FSUE

0

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The main task of RosRAO – to ensure nuclear and radiation safety within the complex system for radwaste management.

The main activities:

- an integrative radwaste management including works on the closure of the life cycle of nuclear facilities;
- disposal of nuclear submarines and nuclear service ships and rehabilitation of former facilities of the Navy.

Strategic Principles of RosRAO:

- ensuring unconditional nuclear and radiation safety in Russia;
- creation of a modern infrastructure on comlex radwaste management to meet the challenges posed by a Unified State Radwaste Management System;
- reducing costs for radwaste management and «nuclear legacy' problem-solving as a whole;
- expansion in growing markets in the field of nuclear and radiation safety, radioactive and nuclear materials.

The Enterprise operates within the SC Rosatom.





Rusatom International Network



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Rusatom International Network, the company of Rosatom, operates Rosatom's Regional Centers abroad which constitute the overseas regional network intended for international sales and promotion of the products of Rosatom.

The main tasks of the Company and Rosatom's Regional Centers include:

- the identification of new opportunities for business expansion,
- promotion of products and services of the Russian nuclear energy companies on the international market.
- general industry marketing,
- ensuring public acceptance of the nuclear energy,
- coordination of international business activities of Rosatom companies.

Rusatom International Network is represented in: Brazil (Rio de Janeiro), China (Beijing), Czech Republic (Prague), France (Paris), Hungary (Budapest), India (Mumbai), Japan (Tokyo), Republic of Kazakhstan (Astana), Singapore, South Africa (Johannesburg), Ukraine (Kiev), United Arab Emirates (Dubai). Head office of Rusatom International Network is located in Moscow.





Rusatom Healthcare, JSC



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JSC Rusatom Healthcare was established by the subsidiary of the State Corporation "ROSATOM" – the company JSC "ATOMENERGOPROM" for purposes of development and production of equipment and radionuclide products for nuclear medicine and medical radiology, as well as industrial equipment and sterilization solutions for processing different types of products with ionizing radiation on the basis of electron-beam and gamma-ray installations.





Rusatom Overseas



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As a front-rank player of the Russian nuclear industry, Rusatom Overseas promotes Rosatom's exclusive Integrated Offer on construction of NPPs (Nuclear Power Plants), SMRs (Small Modular Reactors), and CNSTs (Centers for Nuclear Science and Technologies) across the globe. Rosatom's Integrated Offer provides partners with a unique opportunity to receive access to the entire range of the products and services supplied by the sole vendor throughout the life cycle of an NPP, SMR, or CNST. The elements of the Integrated Offer are flexible enough to provide customized project solutions best fitted to the local environment.

While offering state-of-the-art and highly demanded solutions to the global market, Rusatom Overseas sets up an effective feedback system, serving as a crucial link between partner countries and the Rosatom State Corporation.





Rusatom Smart Utilities



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STAND **RG**

Rusatom Smart Utilities is an integrator of industry solutions of ROSATOM State Atomic Energy Corporation in the "Smart City" and "Clear Water" areas. The Company develops, builds, modernizes, maintains water supply, water purification and water treatment facilities for enterprises of power, petrochemical, food and other industries. For regions with an arid climate, seawater desalination units for industrial and municipal needs are developed; they are integrated with such power sources as high- or low-power nuclear power plants, floating nuclear power plants and traditional thermal power plants.

The "Smart City" project is aimed at modernizing the infrastructure of the cities' livelihoods – heat, electric power, water supply based on modern engineering and digital solutions.





RUSPOLYMET, JSC



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www.ruspolymet.ru



STAND **D60**

The Basic Product Mix:

- Seamless rolled and welded rings from sheet material and rolled profiles for aerospace, auto, oil and gas application, for agriculture, chemical and power machine building, for shipbuilding, etc. Diameter: from 200 up to 6000 mm.
- Flat and weld neck flanges for pipe lines and pipe fittings.
- Bars and strips from high speed steels and titanium alloys.
- High percentage ferro-titanium and ferroalloys.
- Material hardening services by HIP method.
- Forgings and ingots from carbon, alloyed, Ti-based and heat resistant steel and alloys.





Schneider Electric



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www.schneider-electric.ru



STAND C60

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STAND D30

Enterprise was established aiming to collect and apply new scientific knowledge for scientific and engineering support of nuclear and radiation safety regulation. SEC NRS is the founder of "Nuclear and Radiation Safety" considered as the official journal of Rostechnadzor. SEC NRS is official disseminator of

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The Skolkovo Foundation is a non-profit organization founded by the Russian government with the objective of accelerating Russia's transformation from a resource-intensive to an innovation-based economy. To achieve this objective, the Foundation is overseeing the creation of the Skolkovo Innovation Center, composed of more than 1,000 high-tech startups, Skolkovo Technopark, the Skolkovo Institute of Technology (Skoltech).





Spectekhkomplekt, LLC



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Areas of activity of the company

- «Spetstekhkomplekt»:
- Design and manufacture of non-standard equipment for the management of radioactive waste and spent nuclear fuel.





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The company specializes in the development and manufacture of science-intensive, non-standard and highly mechanized process equipment for nuclear fuel cycle companies and NPP's, industrial and domestic waste treatment, desalination of salt water, demineralization of whatever water, water pretreatment for heat supply systems and water conditioning, chemical and metallurgical industries.





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STAND E10

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TENEX is the main organization of ROSATOM in global promotion of nuclear fuel cycle products and services. TENEX supplies of uranium products (enriched uranium product, services for uranium conversion and/or enrichment) produced by Russian NFC enterprises to all key regional segments of the global market. Uranium export/import operations are carried out via sea ports in the Northwestern, Southern and Far East regions of Russia by the leading licensed freight-forwarding companies and sea carriers holding all necessary authorization documents.

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TENEX provides global promotion of reference products, works and services in the field of spent nuclear fuel (SNF) and radioactive wastes (RAW) management.





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Rosatom Fuel Company TVEL is a part of vertically integrated structure of Russian nuclear industry. FC TVEL comprises conversion and enrichment facilities, fuel fabrication plants, gas centrifuges and ancilliary equipment manufacturing plants, R&D and design organizations providing the development of the state-of-the-art technologies and materials. FC TVEL supplies nuclear fuel and its components to 76 Russian and foreign reactors, which makes 17% of the world market, fuel to research reactors of Russian and foreign design and is the world's largest producer of enriched uranium.

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UMATEX is a Promising Materials and Technologies division of ROSATOM State Corporation. It set up to create a market of composite materials in Russia. Comprises an R&D centre and enterprises manufacturing high-strength and high-modulus carbon fiber, carbon fiber fabrics and prepregs.





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STAND **RG**

Joint Stock Company "All-Russian Research Institute for Nuclear Power Plants Operation" (JSC VNIIAES) is an affiliate of Rosenergoatom Concern JSC functioning as a research supervisor on all issues concerning nuclear power plants operation in the Russian Federation. VNIIAES has been a research supervisor and main developer of guidelines and regulatory documents for operating companies on nuclear power plant safety for many years. Regulatory and operational documentation by VNIIAES is standardized, unified and consistent for that purpose.

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FGUP Russia Federal Nuclear Center – VNIIEF is one of the largest scientific and research centers throughout Russia capable of solving diverse problems in science, defense and national economy. The activities involving the number of science-effective technologies, randing from numerical simulation of complicated phisical processes and development of small-size super-computers to production of sensors, devices and systems for automated control at fuel-energy complex are underway at the Institute.





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STAND RG

Major areas of activities: Power reactor, nuclear fuel and fuel rods. Spent nuclear fuel reprocessing and radioactive waste management. Dispersion fuel elements for nuclear reactors. Materials science and metal physics of fissionable and structural materials. Metallurgy and metal alloy working. Nanomaterials. Superconducting materials. Standardization, metrology, analytical monitoring.



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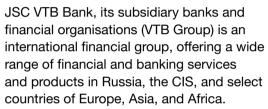
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WIKA MERA



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STAND **E21**

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- · Quality assurance audits of QMS;
- Carrying out of mechanical, technological, chemical and corrosion tests, metallographic studies of metal products.

JSC «ZAES» has 24 representative offices, 16 separate subdivisions and renders the services both in Russia and aboard, concerning products delivered to the Russian and foreign nuclear facilities, including the NPPs of Bulgaria, Finland, Czech Republic, Hungary, China, India, Belarus, Armenia, Bangladesh etc.





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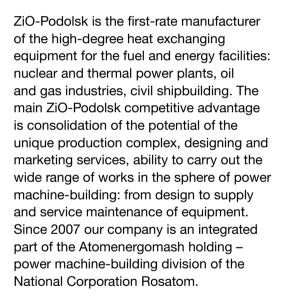
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"Nuclear 2.0" is the largest Russian website with over 100 000 publications, devoted to the development of national and global nuclear industry and run in cooperation with many professional organizations since 2008. Complete coverage of daily news, interesting articles, interviews and videos combined with a unique system of content classification create a popular and convenient Internet encyclopedia about "everything nuclear".







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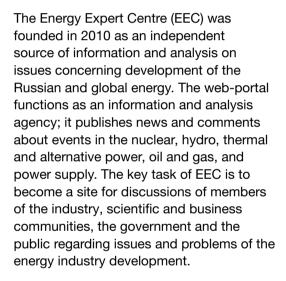
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The Energy of the Unified Grid, scientific and technical journal



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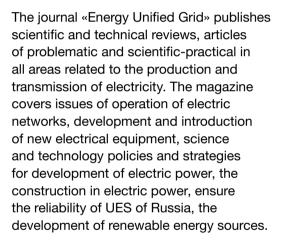
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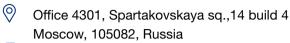


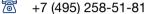






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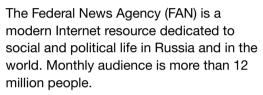
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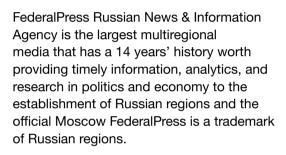
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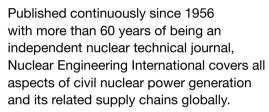
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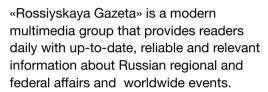
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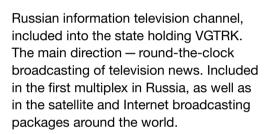
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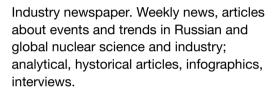
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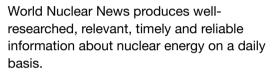
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