



EQUIPMENT MANUFACTURIN





# THE VOICE OF THE ROMANIAN NUCLEAR INDUSTRY



# **ROMATOM COMPANIES**

# MEET THE ROMANIAN **NUCLEAR INDUSTRY**





ALPACCESS





Laurentis Energy Partners



















ENERGOTECH GRUP





COMPCONTROLING



RA TEN





REINVENTENERGY





**ROM WELD** 

framatome



NUSCCERBASI



ansaldo nuclear











MS/AT





ELCOMEX







certSIGN.

KINECTRICS Marsh





BUREAU























MATE-FIN S.C. ROSEAL®













**KAIF** 























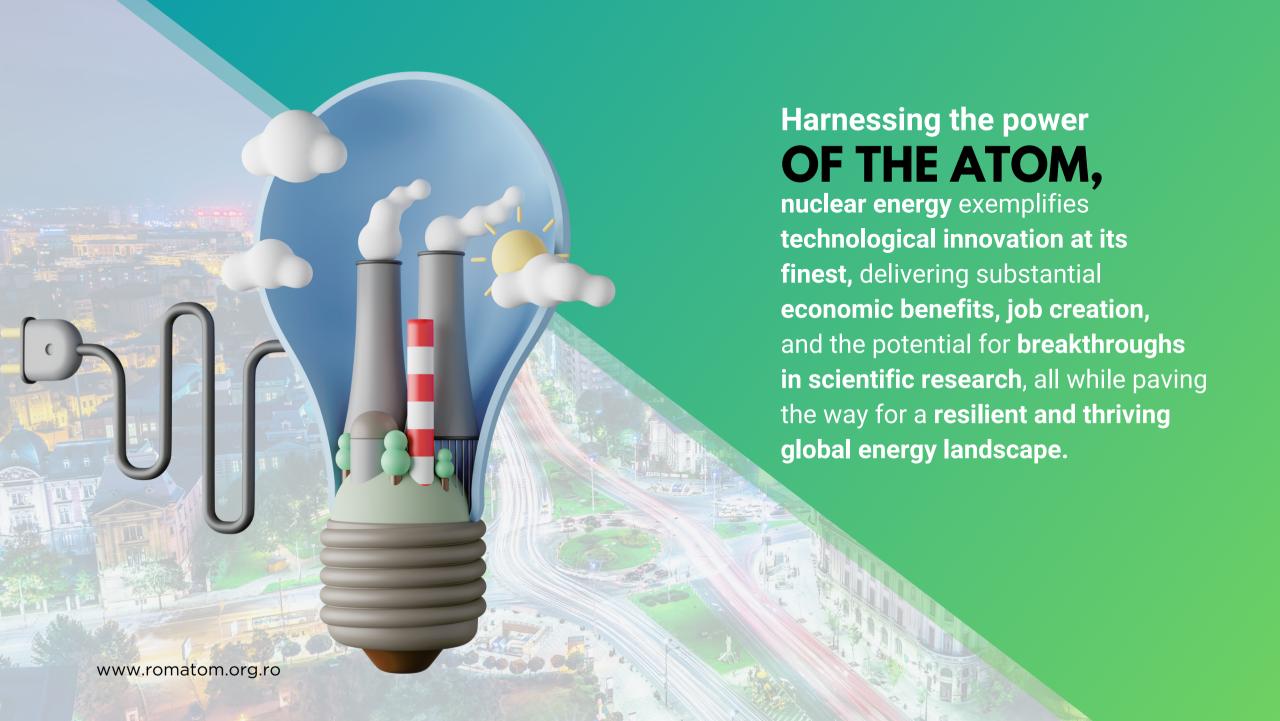


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# **NUCLEAR ENERGY IN ROMANIA**

**215** 

Reduction of CO2 emissions in Romania since the commissioning of Units 1 and 2

10

Annual reduction of CO2 emissions due to the operation of Cernavoda NPP

20%

Nuclear energy in Romania today

33%

Nuclear contribution to clean electricity

**19.000** 

Approx. 11,000 jobs (Deloitte Report) and an opportunity to create another 8,000 new jobs

5.7 BLN

Contribution to GDP (2019) as per Deloitte Report

**12 BLN** 

Investments projected until 2030

# FUTURE PROJECTS AND PRIORITIES

REFURBISHMENT OF CERNAVODA UNIT 1

ENHANCING THE NATIONAL SUPPLY CHAIN

COMPLETION OF CERNAVODA NPP UNITS 3 AND 4

CERNAVODA
TRITIUM
REMOVAL
FACILITY (CTRF)

PRODUCTION OF MEDICAL ISOTOPES

SMALL MODULAR REACTORS PRODUCTION OF CLEAN HYDROGEN

ADVANCED
LEAD-COOLED
FAST REACTOR
EUROPEAN
DEMONSTRATOR
(ALFRED)

# ABOUT ROMATOM

www.romatom.org.ro

President (Interim): Daniel PREDESCU | presedinte@romatom.org.ro
Executive Director: Ana ZIDARESCU | ana.zidarescu@romatom.org.ro

As an independent association of national-level representation, we bring together a dynamic community of Romanian and foreign legal entities who share a common commitment to the advancement of nuclear technologies.

Our mission is clear: to promote the peaceful use of nuclear energy in Romania and propel the national nuclear program to new heights. At ROMATOM, we take pride in our non-profit, non-governmental, and apolitical role, dedicated to fostering a thriving environment for our esteemed members.

The journey of ROMATOM began on January 10, 2001, with 16 founding members - legal entities and two non-profit associations, namely the Nuclear Union of Romanian Industry (UNIR) and the Romanian Nuclear Energy Association (AREN).

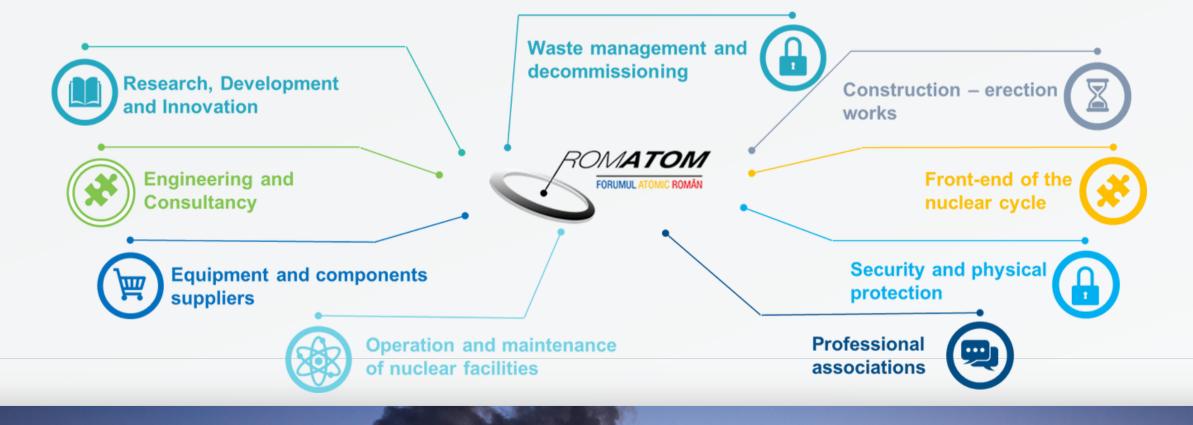
Keen to join the European Nuclear Group, the Initiative Committee representatives applied for Nucleareurope (formerly FORATOM) membership during ROMATOM's establishment phase. Nucleareurope responded favorably, and ROMATOM officially became a member of this prestigious European Forum on December 13, 2000.

Since its creation, ROMATOM has maintained its initial profile, working constantly towards a peaceful use of nuclear energy in Romania and supporting the national nuclear program, as well as coordinating the actions and promoting the interests of its members, at the same time ensuring the coordination of all activities required by its participation

# ROMANIAN NUCLEAR SUPPLY CHAIN CAPABILITY

- · Pressure Vessels:
- · Raw Material Forgings, Filler Material, Consumables;
- · Piping, Pipe Supports and Valves and floor;
- Pressurizer Heaters;
- · Packaged modular and skid-mounted systems;
- · Mechanical Equipment;
- · Electrical Penetrations, Cabling, Connectors;
- · Control System Procurement, Manufacturing, Testing, Inspection;
- · Electrical equipment, components, printed circuit boards;
- Sensors/Instrumentation;
- Transportation, Installation, Assembly Services;
- Testing & Inspection Services;
- Engineering, Quality Assurance, Licensing, Manufacturing Consultants;
- Nuclear Fuel Cycle Capabilities.





Today, ROMATOM's membership has grown, and it currently has more than **60 active members**, covering a wide range of specializations.

# ROMATOM'S OBJECTIVES

**Unified Strategy:** Develop a cohesive strategy for the nuclear industry in Romania, ensuring it aligns both domestically and on the international stage

**Advocacy and Legislation:** We actively engages in advocacy efforts, promoting legislative initiatives that support our national energy program and the broader nuclear industry.

**Cooperation and collaboration** are at the heart of our objectives. We work hand in hand with stakeholders to accomplish shared goals, fostering an environment of mutual support.

**Information Exchange:** The rapid exchange of information and ideas in the nuclear field is crucial. This is not only for our members' benefit but also essential for the progress of the nuclear industry.

**Active Participation:** We are dedicated to participating in round tables, conferences, and technical - scientific events, both nationally and internationally, which are aligned with the fields of nuclear and general energy.

**Public Education:** Educating national and local decision-makers, population, and the media on the peaceful use of nuclear energy is one of our primary goals. It is crucial to dispel myths and provide accurate information.

**Workforce Development:** Strengthening educational initiatives and workforce development programs to ensure a continuous stream of skilled professionals entering the nuclear industry.



# ROMATOM MEMBERS





The **ADKRON Group** is a consulting company focused on information management and integrating digital assets into the plant and facility lifecycle, starting with licensing and permitting and ending with the decommissioning of the asset.

ADKRON, initially formed in Canada in 2011 by a couple of industry innovators, provides consulting and solutions to help owners, engineers, and constructors develop, maintain, and re-use asset information throughout the plant lifecycle.

Their mission is to provide information management solutions through innovation and expertise to better enable clients and partners to manage their projects and assets in today's challenging times.

# Contact

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# ADS Solutions

With 15 years of experience, doubled by the previous experience of the company's founder, Adina Stefanescu, **ADS Solutions** is a Romanian company that offers general business advice and business development consulting in various fields: nuclear, medical and other high technology and accelerated development fields in Romania and Central / Eastern Europe. ADS Solutions is very knowledgeable in Romanian and Central / Eastern European business practices and regulations.

ADS Solutions is proud of more than 50 successful business development & and consulting projects completed over the last 15 years that involved, among other key deliverables:

- Overall project management;
- Regular updates on the Romanian political developments;
- Analysis of the main institutions involved in the project recommendations on approaches and key strategies to pursue projects;
- Organizing meetings and interactions with customers;
- Analysis of customer requirements;



# Contact

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Alpaccess was founded in 2003 by a team of rope access technicians, initially made up of climbers and mountaineers. AlpAccess started the activity in the oil and gas refineries around Ploiesti (where the first oil refinery in the world is located).



Transportation, Installation, **Assembly Services** 



ISO 19 443:2018 | ISO 9001:2018 ISO 14001:2015



# Contact

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**Altimate** is a Romanian high-tech company that integrates, develops, and implements state-of-the-art solutions and products for physical, information, and communication security, as well as intelligent traffic management solutions.

Altimate is a market leader in urban and interurban mobility solutions with over 20 years of expertise offering software products and solutions for urban traffic control, automated fare collection, tolling solutions, and traffic violations solutions. Its diversified portfolio serves a broad customer base in various areas such as airports, maritime ports, public transport, and tolling. Altimate currently operates in Romania with a footprint in Poland and Bulgaria.



### Contact

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In more than 50 years of experience, **Ansaldo Nucleare** has developed technical knowledge and expertise that makes the company a reliable industry partner in the nuclear markets.

The experience derived from the design and construction of different nuclear power plants including BWR (e.g. Caorso NPP), PWR (e.g., PUN Plant), CANDU (e.g., Cernavoda Units 1 and 2), FBR (e.g., Superphenix), Passive Safety NPPs (e.g., AP1000) and Fusion Reactors (e.g., ITER) has built up in our company unique competencies, problem-solving capabilities and flexibility.

Disciplines covered by our engineers include licensing and safety analyses, shielding and radiation, process systems design, EI&C, nuclear component design, civil structural analysis, and integrated layout. This makes Ansaldo Nucleare a "One Stop Company" that can provide fully integrated solutions to Customer needs.



The company pursues growth opportunities in the three strategic segments of New Build, Decommissioning of Nuclear Installations, and Radioactive Waste Treatment and Services to Operational Nuclear Plants.

### Contact

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**AUTOMATICA SA** is established in 1960, as a a brand that has participated in major Romanian and international projects. Company development is based on innovation, reliability of its products, focus on quality and safety.



# **Capabilities**

Electrical equipment, printed circuit boards, components



# Relevant projects -Cernavoda NPP

- CNE PROD Cernavoda / CNE INVEST Cernavoda
- Main control room panels;
- F/M & F/H control panels;
- Junction, derivation and pull boxes;
- Dry relay logic modules for shutdown systems;
- CDF system;
- Connection cabinets and MID & SMC equipment;



ISO 19 443:2018 | ISO 9001:2018 ISO 14001:2015



- Refurbishment of reactivity control panels for Unit 1 and 2;
- Solid state annunciation equipment;
- Secondary distribution panels;
- Electrical equipment for controlling and checking the retrieving D2O vapors system;

### Contact:

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# **AtkinsRéalis**

**AtkinsRéalis** (ex-SNC-Lavalin) is a world-leading professional services and project management company dedicated to engineering a better future for our planet and its people. They create sustainable solutions that connect people, data and technology to transform the world's infrastructure and energy systems.

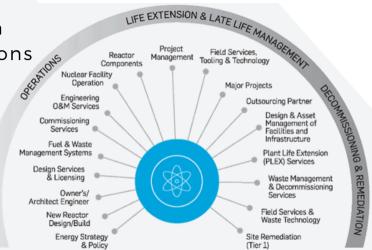
AtkinsRéalis deploys global capabilities locally to our clients and delivers unique end-to-end services across the whole life cycle of an asset, including consulting, advisory & and environmental services, intelligent networks & and cybersecurity, design & and engineering, procurement, project & and construction management, operations & and maintenance, decommissioning and capital.

The breadth and depth of our capabilities are delivered to clients in key strategic sectors such as Engineering Services, Nuclear, Operations & Maintenance and Capital.

### Contact

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The **Bureau Veritas Group**, headquartered in Paris, is a world leader in inspection, verification and certification services for Quality, Environment, Health, Safety and Social Responsibility QHSE-SA.

The company supports clients in achieving performance through innovative services and solutions aimed at certifying that their products, structures and processes comply with QHSE-SA Quality, Health & Safety and Environment.



Testing & Inspection Services



14001:2015





### Contact

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**Boccard Romania** SRL has become a major player in the design and construction of increasingly productive and innovative industrial plants. With over 3500 employees present in 35 countries, Boccard offers fully integrated digital epertise in engineering, manufacturing, construction and maintenance.

# **Capabilities**

Piping, Pipe Supports and Valves

Transportation, Installation, Assembly Services

# Standards

ISO 19 443:2018 | ISO 9001:2018 ISO 14001:2015 | ISO 45001

# Contact:

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# certSIGN®

### ABOUT

certSIGN provides products and services meant to secure an organization's data and information:

- · Development and implementation of PKI-based information security software solutions
- · Trusted Service Provider digital certificates and electronic signature services in compliance with the eIDAS regulation
- · Physical and electronic archiving
- · Digital identity services and solutions - identity in blockchain and smart card personalization
- · Cybersecurity services
- · Unified Endpoint Management Services to securely manage the lifecycle of the mobile devices within an organization

For the nuclear field, certSIGN provides both consultancy services, as well as information and data security solutions and products:

· Design of information security systems: identity and access management, Public Key Infrastructures (PKI). encryption, electronic signatures

- · Proprietary solutions based on Public Key Infrastructures (PKI) - to manage the users' digital identity to provide secure authentication and authorization and to guarantee data protection
- · Mobile communications securing solutions (calls, text messages and files) - Trust4Mobile
- · Cybersecurity services:
- · Development and implementation of cybersecurity services for safe and resilient IT systems necessary for daily activities, as well as for the protection of critical systems
- certSIGN SOC (Service Operating) Center) - information security consultancy services (vulnerability testing, audit, security policies design etc.) or information security services management.

certSIGN has a stable and proficient team of experts that hold certifications and solid technical competencies, acknowledged by the implementation of complex information security solutions, in R&D projects, consulting and audit. Innovation is a key word within the team, most of the company's solutions being based on internally developed proprietary products.

### CERTIFICATIONS

certSIGN is certified by CNCAN: Quality Management System to produce and to implement software solutions and to provide pertaining services.

are accredited nationally to protect classified information, NATO-confidential equivalent, by ORNISS and are included in NATO Information Insurance House, The Ministry of Health in Assurance Product Catalogue

certSIGN's cybersecurity services are certified as being compliant with the SOC2 standard and are internationally certified by Trusted Introducer.

certSIGN has successfully passed the WebTrust audit for CA and its root certificate is trusted by the main web browsers (IE. Mozilla, Chrome, Safari) and by the main operating systems (Windows, Mac OS, iOS,

certSIGN holds an invention patent for a data homomorphic encryption method that allows data processing without decrypting it, granted by the United States Patent and Trademark

The company holds the ISO 37001:2016 (Anti-Bribery Management System) certification which confirms the application of the highest integrity standards.

### PORTFOLIO

Among the company's clients, mention must be made of: The Nuclear and Radioactive Waste Agency, The Romanian Ministry of the Interior, The Romanian certSIGN's products certSAFE and shellSAFE Ministry of Defense. The Romanian Ministry of Communications and Information Society, The National Health Albania. The Ministry of Communications and Ministry of External Affairs in Azerbaijan, CERT-RO, ENISA.



# certSIGN

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Contact person:

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COMES appeared in 1977 as the "Mechanical Workshop" of the Chemical Plant in Savinesti, its primary aim is to supply equipment and spare parts for the plant. Nowadays, the company is the Romanian top supplier of heat-transfer & pressure equipment and spare parts for chemical, petrochemical, oil & gas, and power industries, with over 40 years of production experience and deliveries in over 30 countries.



Piping, Pipe Supports and Valves, Mechanical Equipment, Transportation, Installation Standards

ISO 14 001:2015 ISO 9001:2015 ISO 45001:2018

# COMES®



## Contact:

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**COMPCONTROL ING.** is a private company, established in 1997. Since then, COMPCONTROL ING. has become one of the leading NDT companies in Ro-mania, providing high quality consulting engineering, testing, and inspection services. Starting in 1998, COMPCONTROL ING. has performed non-destructive examinations at Cernavoda NPP Unit 1 and after 2007 at Unit 2, on a regular basis and during outages. A team of over 50 specialists performs non-destructive services.



**Testing & Inspection Services** 



ISO 19 443:2018 ISO 9001:2018

# Contact

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Big projects carry big risks. We are there for you every step of the way. **Concelex** is the turnkey solution for construction works. The company provides fully integrated design & build services across most areas of expertise - buildings, civil engineering, infrastructure and energy.



Engineering, Quality Assurance, Licensing, Supply Chain, Manufacturing Consultants



ISO 19 443:2018 | ISO 9001:2018 ISO 14 001:2015 | ISO 17 025:2018



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**Dosi Tracker** is a Romanian startup set up by two passionate entrepreneurs that is providing local and international customers with integrated solutions for the dosimetry of ionizing radiation present in working environments from health and industry.



Sensors and Instrumentation
Engineering, Quality Assurance,
Licensing, Supply Chain,
Manufacturing Consultants



ISO 19 443:2018 | ISO 9001:2018 ISO 14001:2015 | ISO 45001:2018



# Contact

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Established in 1996, **Egis Romania** is a leading engineering and consultancy firm providing comprehensive services for large and diverse projects across the country. With a long-term commitment to the Romanian market, Egis Romania has developed a high level of expertise and unique knowledge to support clients in a variety of sectors.



Engineering, Quality Assurance, Licensing, Supply Chain, Manufacturing Consultants



ISO 19 443:2018 | ISO 9001:2018; ISO 14001:2015 | ISO 17 025: 2018 ISO 19443 Nuclear safety



## Contact

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**Elcomex IEA SA** was founded in 1990 and is based in Cernavoda, Romania. It offers design, execution, repair, and maintenance consulting services for power stations, low/medium/high voltage electrical lines, stations and substations, low current systems, processing and machine industry, communication network systems, electrical panels and supports, and electric power supply.

- Design, execution, repairs, maintenance, consultancy, servicing and expertise for electric networks of 0,4÷400kV;
- Transformer points and substations;
- Electric distribution installations and users for power and industrial objectives;
- Public lighting installations;
- Automations, telecommunications and low current; Electric, sanitary, ventilation and heating;
- installations related to construction;
- Boilers and pipe systems;
- Equipment and metallic constructions, pre-manufacturing of pipes and supports, hoisting installations;
- Design and production of electrical switchboards and accessories for electrical installations and automation;

  Contact





**Electroalfa International**'s journey began with the first forms of democracy in Romania in the early 1990s. Through trust, hard work, dedication, respect and permanent adaptation to the requirements of its partners, Electroalfa has become today a Romanian brand recognized on the national market and appreciated on foreign markets for its products and services in the fields of energy, industry, infrastructure and buildings.



Electrical Penetrations, Cabling, Connectors;

Electrical equipment, components, printed circuit boards



ISO 19 443:2018 ISO 9001:2018 ISO 14001:2015 27001, 45001, 3834-2;



# Contact:

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**EnergoNuclear** has the CNCAN authorization number 18-025/2018 in Quality Management System for supplying nuclear services. Is a Stack Company established in March 2009 and registered per Romanian legislation based on Government Decision 1565 / 2008.

EnergoNuclear is the Project Company in charge of the Construction, Commissioning and Operation of the two Units x 720 MW CANDU 6 (Unit 3 & 4) on existing Cernavoda Site using CANDU (Canadian Deuterium and Uranium) technology and had SN Nuclearelectrica SA as main shareholder and GDF SUEZ, CEZ, RWE, Iberdrola, ENEL, ArcelorMittal as private shareholders. Since January 2014, SN Nuclearelectrica SA has been the sole shareholder

Since was created, EnergoNuclear's activities have been focused on managing the technical and nuclear safety objectives and tasks for being implemented in the Pre-Project phase to obtain the Construction License.

### Contact:

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**EnergoTech** is a privately owned Romanian company, established in 2002, which has built a well-reputed name in the Romanian energy sector over the years. The companys's headquarter is in Bucharest and they also have a branch in Cernavodă (providing services, especially for CernavodaNuclear Power Plant), a branch in Deva and subsidiaries in Băbeni (Vâlcea County), Craiova, Ruse (Bulgaria) and Chișinău.

- Consultancy/technical assistance;
- Design (engineering);
- Installation works, testing and commissioning;
- Supply of equipment and systems (turnkey projects);
- Maintenance and operation services.



Electrical Penetrations, Cabling, Connectors

Control System Procurement, Manufacturing



ISO 19443:2018 ISO 9001:2018

ISO 14001:2015 | VCA -P | ISO 450001

# Contact

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**Erbasu Constructions** is a general contractor in construction, whose constant positive evolution in the more than 32 years since its establishment, has made the company capable of tackling a wide range of construction works, regardless of their size and complexity, operating both in the private and state sector. The company was established in Bucharest as a family business in 1990, initially employing 20 people.



Transportation, Installation, Assembly Services



ISO 19 443:2018 ISO 9001:2018 ISO 14 001:2015

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### ABOUT

Electroproject SA is a highly experienced company, with over 50 years of expertise in installation design and technical consultancy for all installations necessary for any civil, critical or industrial infrastructure.

The company's services cover all stages of installation design, from prefeasibility studies to establishing all execution details and providing technical assistance.



27C Cernauti St, Bucharest, Romania Phone. +40 31 41 38 001 Nicolae Ivan - CEO Email: nicolae.ivan@uti.eu.com

### COMPETENCIES

- · Prefeasibility and feasibility studies
- · Technical documentation
- · Technical projects
- · Design services for:
- · Sanitary installations
- · Electrical installations
- . HVAC installations
- · SCADA and building management systems
- · Lighting installations
- · Low currents installations
- · Fire protection and extinguishing installations
- · Water supply installations
- · Water sewage installations
- Design services for the modernization and rehabilitation of all installations

The company's team has solid competencies in AUTOCAD, 2D design, 3D design and prototyping, Geo-Exchange design, collaborative design through BIM (Building Information Modeling) and is always up to date regarding the latest innovations in the installation field.

### **AUTORIZATII**

Electroproiect SA holds authorizations that confirm the observance of specific European and national norms and the implementation of a quality management, as well as authorizations issued by national authorities such as IGSU, ANRE etc. Also, Electroproiect SA is undergoing a comprehensive process to be authorized by CNCAN for projects in the field of construction and installations.





Founded in 2012 by a young, innovative and passionate team in the field of energy efficiency, **EXE Green Holding** has rapidly evolved in the industry, nationally and internationally, becoming a member of the Romanian National Lighting Committee and one of the leading companies in the industry of energy efficiency and lighting solutions based on LED technology.



Mechanical Equipment;

Engineering, Quality Assurance, Licensing, Supply Chain, Manufacturing



ISO 14001:2015 | ISO 19443:2018 ISO 9001:2018 | ISO 27001 | ISO 37001 ISO 45001 | ISO 50001 | ISO 56002



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**Framatome** is an international leader in nuclear energy recognized for its innovative solutions and value added technologies for the global nuclear fleet. With worldwide expertise and a proven track record for reliability and performance, the company designs, services and installs components, fuel, and instrumentation and control systems for nuclear power plants. It's more than 14 000 employees work every day to help Framatome's customers supply ever cleaner, safer and more economical low-carbon energy.

- + 380 reactors served worldwide;
- + 60 years of international experience;
- Engineering & Design Authority:
- Projects and Components Manufacturing
- Instrumentation & Control (I&C);
- Fuel;
- Installed Base.



## Contact:

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**ForjaRotec** provides various order-made design forgings for heavy-weight industry sectors like chemical and petrochemical plants. The main activities include the manufacturing of metallic products by plastic deformation (i.e, forging, pressing and stamping of metals) heat treatment of metals and machining operations.







**General Turbo** is a leading Romanian company specializing in the fabrication, repair, construction, and installation of rotodynamic equipment such as steam turbines, electric motors and generators, compressors, and pumps. With a strong focus on technological and design innovation, General Turbo has established itself as a trusted partner for clients in the energy and industrial sectors.





Mechanical Equipment



# **Standards**

ISO 19 443:2018 | ISO 9001:2018 ISO 14001:2015 | ISO 17025: 2018 ISO 19443 Nuclear safety;



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**Gonzales Mecanica de Precizie** produces single or small series machines, ex-clusively on order. They are used in various fields of activity, from the rubber in-dustry to nuclear power plants. The activity is known throughout the world for quality, precision and flexibility.



Mechanical Equipment;

Engineering, Quality Assurance, Licensing, Supply Chain, Manufacturing



ISO 14001:2015 | ISO 19443:2018 ISO 9001:2018 | ISO 27001 | ISO 37001 ISO 45001 | ISO 50001 | ISO 56002



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The Horia Hulubei National Institute of R&D in Physics and Nuclear Engineering (IFIN-HH) represents the most important research entity at the national level - in terms of personnel, assets, and scientific output - performing R&D in basic and applied physics. The institute addresses a comprehensive spectrum of research and development activities in fundamental and applied Nuclear Physics and in related areas, including:

- fundamental and applied research in nuclear and particle physics, astrophysics, life and environmental physics;
- radioisotopes research and applications in life sciences;
- technological irradiation;
- decommissioning of nuclear facilities;
- nuclear waste treatment;
- radioprotection;
- advanced communication systems a.o

Featuring a variety of nation-wide-scoped facilities, comprising Tandem Van de Graff accelerators (of 9, 3 and 1 MV), a Cyclotron, a Multipurpose Irradiation Facility Center, a Radioactive Waste Processing Plant (including the national LL and IL radioactive waste repository), the institute is an important part of the Romanian R&D infrastructure.



#### Contact:

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**IMSAT Groupe SNEF** has been providing design, integration and maintenance services since 1962, and is a well-known player in the fields of energy, industry, infrastructure for buildings infrastructure and transport infrastructure. IMSAT's reference in nuclear:

- NuclearelectricaUnit 1 Cernavoda (Romania) Nuclear Power Plant;
- NuclearelectricaUnit 2 Cernavoda(Romania) Nuclear Power Plant;
- EDF -EPR Flamanville 3 reactor Flamanville, France;
- ORANO (ex AREVA) Nuclear Plant Fuel Pierrelatte, France;
- EDF -CNPE Blayais-Braud-et-Saint-Louis, France.



#### **Capabilities**

Electrical Penetrations, Cabling, Connectors;

Control System Procurement, Manufacturing, Testing, Inspection;

Electrical equipment



#### **Standards**

ISO 19 443:2018

ISO 9001:2018 ISO 14001:2015

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With over 30 years of experience and expertise, **Industrial Montaj** is one of the most important companies in Romania in the field of construction, assembly, and maintenance of industrial installations. The company is specialized in:

- General Contracting and EPC;
- Preparation and execution of industrial maintenance activities;
- Piping prefabrication and erection-\*Online platform managed by QR code for fabrication and site progress tracking;
- Lifting and erection of heavy equipment;
- Prefabrication and erection of steel structure and modular installations (skids).



#### Contact

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### Capabilities

Piping, Pipe Supports and Valves
Mechanical Equipment,
Transportation, Installation,
Assembly Services

## Standards

ISO 19 443:2018 ISO 9001:2018

On our way to 30 years of activity, we have consolidated our know-how and professionalism, the success of our clients becoming our success!

I am # We are IM # We are a team dedicated to your success



The National Research and Development Institute for Cryogenic and Isotopic Technologies – ICSI Rm. Valcea is a scientific research and technological development unit under the coordination of the Ministry of Education and Research. The mission of the National Research and Developmen Institute for Cryogenic and Isotopic Technologies – ICSI is to grow as an international research unit by providing new scientific knowledge in its specific field of activity, having the following priorities: excellence in scientific research, excellence in the transfer of technology and products to economy and orientation of activities towards the demands of today's society.



Among the main components of ICSI's mission, the following can be mentioned:

- supporting the nuclear energy through Research-Development and Innovation activities;
- development and implementation of hydrogen-based technologies and sources of renewable energies;
- study of topics related to environmental protection and food security

The vision of ICSI is to become an international R&D center and a regional leader known for the development and promotion of clean and efficient technologies in the use of isotopes for (i) achieving the objectives of the country's new energy strategy and (ii) improving the quality of environment, life and food security.

#### Contact:

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**Kinectrics Inc.** is an established life cycle management service provider for the electricity industry using experienced groups of experts with more than 110 years activity in the nuclear sector. The company can provide expertise in engineering, testing, inspection, and certification, backed by our independent laboratory Vrayl canid testing facilities and a diverse fleet of field inspection equipment.

Through a program of growth initially based in Canada and acquisitions, Kinectrics now has over 1,100 engineers and technical experts operating in 20 facilities in 7 countries, including the United States, South Korea, India, Germany, the United Kingdom, and Romania.

Among the main components of ICSI's mission, the following can be mentioned:

- supporting the nuclear energy through Research-Development and Innovation activities;
- development and implementation of hydrogen-based technologies and sources of renewable energies;
  - study of topics related to environmental protection and food security.

#### **Contact**

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### **KONECRANES**°

**Konecranes** is a world-leading group of Lifting BusinessesTM, serving a broad range of customers, including manufacturing and process industries, shipyards, ports, and terminals. Konecranes provides productivity-enhancing lifting solutions as well as services for lifting equipment of all makes.



Mechanical Equipment;

Transportation, Installation, Assembly Services

# Standards

ISO 19 443:2018 ISO 14001:2015

ISO 9001:2018

ISO 17025: 2018



#### **Contact**

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The **Korea Atomic Industrial Forum (KAIF)** was established as a public organization in 1972 to represent the Korean nuclear industry. KAIF is a professional organization of the members from government, industry, academic, and research institutes devoted to beneficial and industrial applications of nuclear science and technology. KAIF has also dedicated to continuous development of nuclear industry and national economy by promoting various projects: developing human resources, building cooperation network, and expanding public acceptance.





**Ludan Engineering** is a member company of Ludan Group. Acting under the slogan "Global experience, local approach, Ludan Engineering has the privilege to bring regionally, in a natural way, innovative solutions and international collaborations, adapted to the specific market.



Transportation, Installation, Assembly Services



ISO 19 443:2018 | ISO 9001:2018 ISO 14001:2015 | ISO 45001:2018





#### Contact

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**Last Energy** brings global expertise from across the energy landscape to accelerate the development of clean, baseload power. The company uses a customer-driven approach, focusing on first principles to bring nuclear energy to scale. Their innovation is simple: leverage only proven nuclear technology, create a replicable, manufacturable power plant, and size for private capital.

50 m



Navigating Nuclear: Microreactors, SMRs, and Traditional Plants



**Marsh** is the world's leading insurance broker and risk adviser. With over 35,000 colleagues operating in more than 130 countries, Marsh serves commercial and individual clients with data-driven risk solutions and advisory services. Marsh is a business of Marsh & McLennan Companies (NYSE: MMC), the leading global professional services firm in the areas of risk, strategy and people.

With annual revenue approaching US\$17 billion and 76,000 colleagues worldwide, MMC helps clients navigate an increasingly dynamic and complex environment through four market-leading businesses: Marsh, Guy Carpenter, Mercer, and Oliver Wyman.



#### Contact:

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# MATEFIN

For over 30 years, **MATE-FIN** has been developing complex projects for the nuclear industry in Romania, supplying equipment for the detection of ionizing radiation and providing all the associated services and technical support.



Sensors and instrumentation



ISO 19 443:2018 | ISO 9001:2018 | ISO 14001:2015



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**S.C. NIMB CONSMETAL S.R.L**. is the former TIMB (Trust of Installation and Mount- ing Bucharest). This means that NIMB Consmetal has an unrivaled expertise of more than 40 years as a major player on the Romanian civil and industrial construction market. In 1999, NIMB S.A. Cernavoda was taken over by the German company Rheinhold & Mahla. In 2006 Bilfinger Berger bought R&M so, our company name changed to S.C. BIS NIMB S.A. cernavoda.



Piping, Pipe Supports and Valves; Mechanical Equipment; Transportation, Installation, Assembly Services

**Capabilities** 

ISO 19 443:2018 | ISO 9001:2018

#### Contact

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Societatea Nationala Nuclearelectrica S.A. ("SNN") is the sole producer of nuclear power and nuclear fuel using CANDU 6 type technology in Romania. established in 1998

The company has its headquarters in Bucharest and it owns two subsidiaries:

- Cernavoda Nuclear Power Plant operates Units 1 and 2 and produces electricity and thermal power. The two units have an installed capacity of 700 MWe each and use natural uranium as fuel and heavy water as moderator and cooling agent, which are both produced in Romania.
- Pitesti Nuclear Fuel Plant is the qualified producer of CANDU 6 type nuclear fuel which covers entirely the supply of Cernavoda NPP Units 1 and 2.

The company is focusing its efforts on maintaining its high operational and nuclear safety indicators as part of the progressive strategy for growth and investment portfolio diversification, attracting and maintaining a highly skilled labour force, ensuring the safety of its nuclear installations, and achieving its complex investment projects: the refurbishment of Cernavoda NPP Unit 1. nuclear new build.







**OCA Global** is an international group - with corporate headquarters in Spain - a reference in inspection, certification, testing, consulting and training with more than 12 years of experience. They have 9 business divisions operating globally:

- Certification:
- Consulting and Technical Advisory;
- Quality Control and Technical Assistance;
- Testing;
- Training;
- Regulatory Inspection;
- Vehicle Technical Inspection;
- Maritime and Raw Material Inspections;
- Prevention.

In OCA Global Group there are several companies accredited as ISO 17020, 17025, 17029 and 17021 laboratories and inspection and certification bodies for multiple standards and is internationally recognized by ILAC. The company offers a wide range of services for all types of industries, sectors and companies.







**Print House Advertising SRL** is a leading supplier of laser-marked labels, specializing in aluminum, stainless steel and plastic marking. The goal is to provide the highest quality labeling solutions in the shortest possible time.



Industrial signage and labeling. Warning labeling, labeling of OEM and non-OEM equipment, metallic and plastic



ISO 19 443:2018 ISO 9001:2018 ISO 14001:2015 ISO 45 0001



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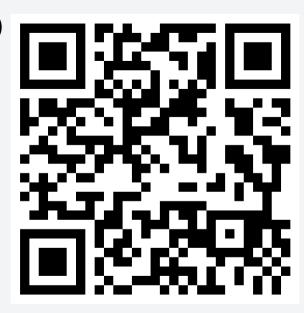


The Autonomous Organisation for Nuclear Energy Technologies (RATEN) coordinates the research activity in the field of nuclear energy, ensures the maintenance and development of scientific and technological support for the National Nuclear Energy Program.





ISO 19 443:2018 | ISO 9001:2018 ISO 14 001:2015



#### Contact

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**Reinvent Energy** is a dynamic, privately owned company that offers electrical, sanitary and HVAC systems.

### **Capabilities**

Electrical Penetrations, Cabling, Connectors; Transportation, Installation, Assembly Services

#### Standards

ISO 19 443:2018 | ISO 9001:2018 | ISO 14001:2015 | ISO 45001





# ROM WELD

# One-Stop Shop



Pumping perfumes skid area: cleaning products industry Pumping perfumes skid area: cleaning products industry

Spool pipe area: pharma industry Spool pipe area: HAVAC equipments



## Spool work

Pumping skid 316L / stainless steel area: geothermal water Spool pipe Kerosene e staineless steel, dn 80 - dn 500 area: military base area: pharma industry

Kerosene equipment Kerosene equipment

military base area: military base





romweld.ro laurentiu.dogeanu@romweld.ro +40726843541



**ROSEAL** was the first manufacturer of spare parts in the field of seals in Roma- nia to register its quality system in accordance with the ISO 9001 standard. In recent years ROSEAL has grown enormously, expanding its manufacturing and operating facilities worldwide, and now has seven technical and commercial of- fices opened abroad, particularly responsive to the requests of our customers.



Capabilities

Mechanical Equipment

Standards

ISO 19 443:2018 | ISO 9001:2018;

#### Contact

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The **Seimaf Groupe** supports its industrial clients (Naval, Nuclear, Energy, Thermal Power, Automotive, Aerospace, Agri-food, Steel, etc.) with their productivity improvement processes and has been an essential figure throughout their projects, from processes to details and from preliminary outlines to installation, since 1994.



Transportation, Installation, Assembly Services



ISO 19443:2018 | ISO 9001:2018 | ISO 14001:2015 | SR EN 45001:2018



#### Contact

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**Tejas Devlopment Services** started from an extensive experience in electronics, defense and security, and IT&C industries with a vision to create a technology hub offering products and solutions for innovative technology-driven projects based on carefully selected and well-balanced partnerships. They provide various business and technology development, program, and project management services.

Their approach revolves around fostering creativity, innovation, and development while putting their faith in the capabilities of diverse teams and ecosystems.



#### Contact

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**TIAB** are Integrators of systems and technical solutions in electrical, HVAC, plumbing and automation for industry, infrastructure and tertiary. For over 70 years, we have been reliable partners for our customers and we implement projects using the most advanced standards and technologies.



Piping, Pipe Supports and Valves: Mechanical Equipment: Transportation, Installation, Assembly Services; Testing & Inspection Services.



ISO 19 443:2018 | ISO 9001:2018 ISO 14001:2015



#### Contact

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**Titan Echipamente Nucleare** was established in 1982, after the Romanian Government, through National Nuclear Energy Program decided to build in Cernavoda the Nuclear Power Plant type CANDU.

It was established by and received Canadian technology to manufacture some complex equipment for the nuclear energy field under the license of Atomic Energy Canada Ltd.



Pressure Vessels; Mechanical Equipment; Nuclear Fuel Cycle Capabilities



ISO 9001:2015 ISO 19443:2018 pending



#### Contact

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The main activity of the **TOTALMONTAJ** consists of the execution of construction and assembly works for pipelines, execution works, installation and repair of mechanical installations under pressure, metal structures, equipment for refineries in the field of petrochemicals, oil and gas, as well as part of "new" construction projects of some factories.



Mechanical Equipment Transportation, Installation, Assembly Services



ISO 19443:2018 | ISO 9001:2018 ISO 14001:2015 | ISO 45001



#### Contact:

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Trident Servicii și Mentenanță is a company with Romanian capital, founded in 2004, which develops and integrates state-of-the-art solutions for critical infrastructures (road transport, airports, Border Police), while providing maintenance and service for complex security systems, as well as their associated security and intervention services, IT and communications services, all at the highest quality standards.

The company has the expertise, certifications and security clearances needed to carry out complex projects, including BOT, which generate very important benefits for the clients.

#### COMPETENCIES

#### General competencies

- · Integrated physical security solutions
- IT&C solutions
- Fire detection and extinguishing solutions Competencies for the nuclear field
- Risk analysis, design, and installation of physical security systems
- · Integration of physical security systems
- · Security dispatch
- Maintenance and service for complex security systems and their associated security and intervention services
- Design and installation of IT&C infrastructures
- · IT solutions development
- · IT consulting and maintenance
- · Web hosting
- · Helpdesk services
- Design and installation of fire alarm and extinguishing systems

#### AUTHORIZATIONS AND CERTIFICATIONS

CNCAN - Authorization for Design activities (pending), Authorization for Nuclear Services activities (pending), Authorization for Construction-Assembly activities. IGPR -Operating license, Certificate, PECB - ISO 37001: 2016 Certificate (implementation of the International Anti-Bribery Management System), Ministry of National Defense -National Coding Bureau - NCAGE Certificate (NATO Code), ANCOM - Frequency Assignment Authorization, Certificate of provider of electronic communications networks or services. License to use radio frequencies, ANPM - Registration in the EEE (II) Marketing Register, ANRE - Certificate type A2 and type B, IGSU - Authorization for installation & maintenance of fire alarms. Fire alarming design authorization, General Inspectorate of the Romanian Border Police -Coast Guard - Work permit







**UNIFY Co. Ltd.** was established in 1992, developing year after year and executing special applications and protections both for the Cernavodă Nuclear Power Plant and for various customers at home and abroad.

UNIFY Co. Ltd. has certified and implemented the Integrated Management System: ISO 9001; ISO 14001; ISO OHSAS 18001, certified by SRAC / IQNetand holds the following authorizations and certifications

- Integrated Management System: ISO 9001, ISO 14001, ISO OHSAS 18001 certified by SRAC / IQNet;
- UNIFY Co. Ltd was the first Romanian company certified ISO 9001 for special works in constructions and the first certified for fire protections of metal structures.



- Quality Management System for Nuclear Activities certified by the National Commission for the Control of Nuclear Activities;
- Acceptance Certificate for Performing Activities in ControledArea of Nuclear Power Plant for all authorized activities:
- License certificate -Grade II for Laboratory, certified by the State Inspectorate for Constructions;
- Approvals for fire protection certified by the Fire Department, Studies, Experiments and Specialization Section;

#### Contact:

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#### ABOUT

Active on the installation and construction market since 1994, UTI Grup SA has made a name for itself in this extremely competitive field a one of the most important providers of specialized solutions for civil and critical infrastructures, applied to the following domains:

- Critical infrastructures (nuclear, oil&gas, governmental institutions, power grid)
- Transportation (airports, ports, subway networks)
- Industry (water treatment plants, manufacturing facilities, logistics facilities, public utilities)
- Public infrastructure (hospitals, sports arenas, polyvalent halls, patrimony sites)
- · Retail and business offices

UTI Grup's extensive experience in integrated solutions for civil and critical infrastructures has been recognized by ranking 5th in top 500 - Construction Companies in Romania by Agenda Constructiilor in 2018, respectively 7th in 2019.







#### COMPETENCIES

#### General competencies

- · General contracting
- · Design
- · Low currents and data infrastructures
- · Electrical installations
- · SCADA and building management
- Fire prevention, detection, and extinguishing
- · Energetic efficiency

#### Competencies pertaining to the nuclear field

- · Risk analysis and threat assessment
- · Security audit and system design
- · Integrated physical security systems
- · Integrated monitoring centers
- · Low currents
- · Electrical installations
- · Consulting and training

UTI Grup's solutions are implemented by a strong team that has design, project management, execution competencies and holds solid know-how in the nuclear field.

- Training with the client and the technological partners
- Training provided by CNCAN and IAEA
- Authorizations to work in radiation environments
- Authorizations to manage classified information

#### CERTIFICATIONS

UTI Grup holds CNCAN Quality Management System certifications for design activities, development and use of software products, commissioning, construction-installations, procurement services, design services for physical security systems, performing activities within the controlled area, provision, and handling of baggage scanning installations.

Also, UTI Grup holds authorizations that confirm the observance of specific European and national norms and the implementation of an integrated quality management system, environmental protection and occupational safety that is constantly updated and improved to ensure that the company delivers the best services and solutions, as well as authorizations issued by IGSU, IGPR, ANRE, AFER etc.

Since 2018, UTI Grup has held the ISO 37001:2016 (Anti-Bribery Management System) certification which confirms the application of the highest integrity standards within the company.

#### CLIENT PORTFOLIO

#### Main projects in the nuclear field

#### Cernavoda Nuclear Powerplant

(1994-present) – physical security systems implementation, modernization and maintenance for the two Units of the powerplant, the Spent Fuel Dry Storage Facility and other critical areas Nuclear Fuel Plant, Pitesti – integrated physical security system and fuel transportation monitoring

Uranium Pre-Processing Plant, Feldioara – physical security systems

Other important clients: Henri Coanda
International Airport of Bucharest, Aurel
Vlaicu International Airport of Bucharest,
Oradea International Airport, BraşovGhimbav International Airport, Metrorex,
The Administration of Navigable Canals, The
Municipality of Bucharest (National Arena,
Emergency Situations Management Center),
The Municipality of Craiova, Ramnicu Valcea
Municipal Hospital, Sinaia Municipal Hospital,
Somes Water Company.





Website: www.uti.eu.com

Contact person: Nicolae Ivan - CEO, Email: nicolae.ivan@uti.eu.com









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Phone: 031.1011.884, Web: www.utifm.ro

Contact person: Lucian Miu - Sales Director, Email: lucian.miu@uti.eu.com

#### **ABOUT**

UTI FACILITY MANAGEMENT is a company with Romanian capital, which provides a complex range of services and state-of-the-art technologies: facility management, integrated physical security systems, computerized process management, call center, operational dispatch, client web monitoring, fleet security and monitoring, disinfection equipment and services.

The company provides fast and professional services in all the regions of Romania, by means of its mobile teams. The company's portfolio includes projects developed for various industries: critical infrastructures, financial institutions, industrial and commercial spaces, government institutions, public institutions, sports arenas, hospitals, educational institutions, gas stations, etc.

#### COMPETENCIES

#### General competencies

- Facility Management
- · Solutions and services for airports
- Automation

#### Competencies pertaining to the nuclear field

- · Facility Management
- Design and installation of physical security systems
- · Integration of physical security systems
- Supply and commissioning of X-ray detection systems
- Design and installation of fire detection and extinguishing systems
- Design and installation of sound and addressing systems
- Operational dispatch

#### AUTHORIZATIONS AND CERTIFICATIONS

CNCAN - Authorization for carrying out activities in the nuclear field - supply of X-ray installations and detection systems: X HI-SCAN 6046si, HI-SCAN 100100V-2is, HI-SCAN 6040CTiX, HI-SCAN 10080XCT, Authorization for carrying out activities in nuclear field supply of luggage control installations type CTX5800. Authorization for carrying out activities in the nuclear field - import of X-ray installation type CTX5800, AACR - Certificate of authorization, IGSU - Authorization for carrying out the activities of fire alarming systems and installations. Authorization for carrying out the design of ventilation systems and installations for smoke and hot gases evacuation, ANRE - Execution of transformer stations, power stations and works with power plants at any standardized rated voltages, INSEMEX-GANEX - Performing specific activities in potentially explosive environments



#### CLIENT PORTFOLIO

Airports: Henri Coanda International Airport, Bucharest, Aurel Vlaicu International Airport, Bucharest, Cluj-Napoca International Airport, Oradea International Airport, Iasi International Airport, Brasov-Ghimbav International Airport, Satu-Mare International Airport, Bacau International Airport, Timisoara International Airport, Varna Airport (Bulgaria)

Government institutions and public administrations: Embassy of Canada, Romanian Civil Aviation Authority, European Commission, Chamber of Commerce and Industry, Romanian Olympic and Sports Committee, Ministry of Finance, Brasov Municipality, Sibiu Local Police Financial institutions and network

organizations: Enel, Engle, Apa Nova, BRD, Intesa SanPaolo Bank, Generali, Raiffeisen Bank, Unicredit, Baum, Imo Property Investments Bucharest

Commercial spaces: Armonia Center Arad, Artima, Auchan, Aurora Shopping Mall, Brico Store, Carrefour, Felicia Shopping Center, Mega Image, Metro, Kaufland, Nepi Ten Development Solutions, Penny

Industrial sites: ArcelorMittal, Dacia Renault, Draxlmaier, RoPharma, Vanderlande, Zentiva





**UZINSIDER Group** is a private company with 100% Romanian capital, whose activity is the industrial area. The group is specialized in manufacturing of heavy complex equipment for various industrial domains. We can provide installation and commissioning services on site for the manufactured equipment. In our production facilities, we can manufacture unique equipment based on the technical documentation made available by our partners.

The following companies are part of the Uzinsider group:

- <u>UZINSIDER S.A.</u>, a holding company that ensures the management and group policies;
- <u>UZINSIDER TECHNO S.A.</u>, a trading company specialized in international
- <u>UZP</u>SIDER GENERAL CONTRACTOR, a company operating as general contractor for turn- key projects;
- COMELF S.A., workshop in Bistrita
- PROMEX S.A., workshop in Braila
- 24 IANUARIE S.A., workshop in 24 January

These companies **are strategically located** and have direct access to the existing and future highways. The production units are connected to the railways, Danube River and the Black Sea.



Headquartered in Bucharest and recognised worldwide as an experienced manufacturer with consolidated know-how, Walter Tosto WTB is a leading supplier of critical and long lead process equipment. Together with the Italian companies Walter Tosto S.p.A. and Belleli Energy CPE Srl, Walter Tosto WTB is part of the Tosto Group, the largest manufacturing network of pressure equipment in Europe.

With unique manufacturing facilities and capabilities, the company's extensive track-record ranges from the supply of items such as reactor vessels, steam generators and heat exchangers for nuclear power plants to the construction of highly innovative components for research facilities around the world. The state-of-the-art workshops located within the IMGB industrial complex in Bucharest and on the Danube river in Olteniţa enable Walter Tosto WTB to manufacture complex equipment without limits of weight and size. The existing skill set has recently been further broadened by the acquisition of the historical brand GRIRO SA, a company with over 120 years of experience in process equipment manufacturing and expertise in nuclear applications.

Walter Tosto WTB, formerly Fecne Nuclear Components SA, is a specialised supplier to the worldwide nuclear industry. The fully-refurbished workshop in Bucharest historically represented an important part of the Romanian Civil Nuclear Program. In addition to contributing to the nuclear programs in Canada and Russia, this very workshop manufactured the majority of the critical items for the nuclear island of the Cernavodă 1 and 2 nuclear power plant units in Romania and, today, the same workshop participates in the world's largest fusion experiment by manufacturing components for the vacuum vessel sectors of the international ITER project.

Driven by a commitment to produce safe, reliable, high-quality equipment on a global scale, Walter Tosto WTB is ready to meet the new nuclear demand of the 21st century as manufacturer of Steam Generators, Reactor Pressure Vessels (RPV), Pressurizers, Heat Exchangers, Taylor Made Penetrations, Taylor Made Safety Devices, Containment Vessels, HP & LP Feed Water Heaters, Moisture Separator Reheaters, Condensers, Service Tanks & Vessels, Fuel Transportation Casks and Decommissioning Equipment.





#### Contact

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### **ROMATOM COMPANIES**

# MEET THE ROMANIAN **NUCLEAR INDUSTRY**





ALPACCESS





Laurentis Energy Partners



MS/AT



ELCOMEX











ENERGOTECH GRUP







BUREAU



COMPCONTROLING



RA TEN



REINVENTENERGY







NUSCCERBASI



ansaldo nuclear



















certSIGN.













**ROM WELD** 















































**KAIF** 

