

# Polish companies at Middle East Energy 2022, March 7-9, 2022

Supported by the Polish Agency for Enterprise Development



[www.4-eco.pl](http://www.4-eco.pl)

4 ECO company has been operating in the renewable energy market since 2018. According to the contractor, they have installed more than 400 thousand square meters of photovoltaic panels. That gives more than 45 MWp of total capacity - the energy could power about 20,000 households. However, such dynamic development would not be possible without a wide, well-thought offer. The company's executive portfolio includes:

- **photovoltaic installations**, addressed to every customer interested in the production of green energy,
- **heat pumps** to reduce emissions and heating costs
- **EV chargers**, for aware and ecological mobility,
- **heating mats**, perfectly matching photovoltaics and providing an alternative for heating boilers,
- **thermo-modernisation solutions** - such as thermal paint. Project 4 ECO PS coat
- **The new**: energy storage, systems of ventilation and recuperation, air conditioning

Moreover, the company also operates as a developer of photovoltaic farms, providing comprehensive large-scale PV installations.

What is Project 4 ECO PS Coat? - is a new system of thermal insulation of buildings by PS Coat. It is a system of 3 layers: primer, thermal layer, facade paint, which isolate the surface. This system does not require the installation of additional insulation materials such as polystyrene foam. We present it on Middle East Energy Dubai.

**POLISH NATIONAL STAND**





[www.aktywizacja.com.pl](http://www.aktywizacja.com.pl)

**AKTYWIZACJA** produces electrical safety equipment for maintenance medium and high voltages lines, substations, switchgears and other devices.

We produce, sale and service safety equipment such as:

- insulating sticks: universal, telescopic, with U-type junction or bayonet,
- voltage detectors of low, medium and high voltage, phase comparators,
- measuring instruments, multimeters, electrical field detectors,
- portable short-circuiting devices and portable earthing devices for flat bars, round conductors, fuse bases, ball-type terminals, railway/tram traction, insulated lines, snap-type,
- live line working tools,
- dielectric rubber gloves, boots, and other safety equipment (insulating platforms, helmets, etc.).

**POLISH NATIONAL STAND**



<http://elkobis.com.pl/en/>

**ELKO-BIS Lightning Protection LTD** - Polish company specializing in production, distribution, installation and design of high quality external lightning protection systems. Leader of polish market, with over 20 years experience and background.

Company is offering proven and certified products, accordingly to lightning protection regulations and standards:

- Complex lightning protection system with high technical performance and competitive prices
- Complete set of external lightning protection and earthing systems for different types of buildings, industrial and non industrial objects and facilities
- Technical service and advise on a daily bases, provided by skilled lightning protection engineers
- Design service of lightning protection system accordingly to provided documentation. Own designing cad application software available free of charge for end users and designers
- Innovative High Voltage Cable System to protect more demanding objects and facilities
- Wide range of air terminals, spires including high masts constructions to protect highly risked explosive zones.

	<p>Company is looking forward to expand export activities, seeking new partners worldwide.</p> <p><b>POLISH NATIONAL STAND</b></p>
<div data-bbox="181 387 703 566" data-label="Image"> </div> <div data-bbox="123 630 181 683" data-label="Image"> </div> <div data-bbox="190 635 452 671" data-label="Text"> <p><a href="http://www.elraf.eu/gb_gb">www.elraf.eu/gb_gb</a></p> </div>	<p><b>ELRAF</b> was established in 1989 as a producer of general electrical equipment and is currently one of the biggest producers of locking systems, cable clamps, hinges, locks and accessories for electrical cabinets in Poland. Our clients are themselves leading producers of electrical switchboards, not only in Poland, but also in other EU countries.</p> <p>ELRAF also supplies and sells very large quantities of cable clamps all over the world, from Portugal to Hong Kong. We have an extensive range of cable clamps for typical cable installation, We also offer hard to find clamps including:</p> <ul style="list-style-type: none"> <li>• Cable clamps for mounting cables on round poles</li> <li>• Cable clamps for mounting cables to rectangular poles</li> <li>• Cable clamps to mount several cables (3 to 4) on one horizontal level</li> <li>• The ability to stack the clamps if needed</li> </ul> <p>The above clamps are made of special polyamide, with a high glass fibre content of up to 30%. ELRAF's cable clamps meet the very demanding mechanical, electrical and weathering criteria set by the EN- 61944 standard. Tests of our clamps carried out at BBJ, the renowned national institute, have proven that all ELRAF's clamps are:</p> <ul style="list-style-type: none"> <li>• UV resistant</li> <li>• Have mechanical resistance of up to 31.000 N when measured under severe temperature conditions of -60°C / +120°C.</li> </ul> <p>Thanks to their quality and price, ELRAF terminals are specified and used world wide by many leading companies.</p> <p><b>POLISH NATIONAL STAND</b></p>



[www.haberenergia.pl](http://www.haberenergia.pl)

**HABeR energia Hulanicki Bednarek sp. z o. o.** has 40 years of experience in building electrical distribution systems. We have our own solutions for MV: HABeR-MSEBG is ideal for primary distribution systems and critical industrial facilities. With its compartmentalised design and robust LSC2B class construction, the system has a high degree of resistance to internal arcing in all compartments. Secondary distribution HABeR-sm6 up to 36kV systems are ideal for MV power grids, distribution substations, commercial and industrial facilities, power generation and PV systems. The HABeR-LDX/LDXA copper or aluminium busbar system has been developed for the distribution of low-voltage electrical energy for currents up to 6300A. For the low voltage distribution we offer HABeR-XXL  $\leq 10\,000\text{A}$  and HABeR-XL  $\leq 6300\text{A}$  the switchgear system for power distribution and control of MCC drives up to 6300A incl. ATS automation systems. Manufactured to the highest safety and arc fault protection requirements, it is a product tested by independent institutes and guarantees the highest quality.

The brand is built on top quality production and the innovative solutions created by our team of electrical and mechanical engineers. The use of the latest technology with apparatus from the best European manufacturers guarantees many years of trouble-free operation of our equipment. For maximum safety we have HABeR-ARCGuard – arc fault protection system and HABeR-TERMguard – wireless temperature analysis on switchgear busbars which are innovation on a global scale.

Full range of devices can be the part of complete container station which is also a part of our offer. HABeR products has undergone full type testing according to IEC standards, proving its worth even in the harshest environments.

#### **POLISH NATIONAL STAND**

**INVENTIA**, global telemetry and location tracking device vendor based on 2G/3G/LTE, LTE Cat. M1, NB-IoT, and GPS/GNSS technologies has become one of the leaders in professional telemetry and control. The offer's scope also includes open architecture solutions based on proven industrial standards. It delivers easy-to-use configuration and system integration tools providing open connectivity to customer SCADA systems, relational databases, and data management systems. Inventia's solutions



[www.inventia.pl](http://www.inventia.pl)

also include elements and systems of the Industrial Internet of Things (IIoT) and an interactive cloud-based visualization and reporting system with access from mobile devices.

Our references cover **sales to 65 countries in the world**. Our devices are of high quality, innovative functionality, and are freely configurable by the user.

The main application areas are the electricity sector, heat and professional power industry, water and sewage management, environment protection, transport, facilities protection, agriculture, and horticulture.

**Example applications' areas:**

- Smart Metering
- Smart Grid
- Predictive maintenance for the electricity sector
- Wind turbines predictive maintenance
- Non-contact temperature control of elements in the electrical switchboards
- Monitoring and control of pumping stations and substations
- Measurement of water level (in wells, water intakes, rivers, tanks)
- Detection of leaks in pipelines
- Monitoring of gas reduction stations
- Location of vehicles, containers, and wild animals
- Monitoring of lifts operations
- Monitoring parameters and control of the cathodic protection installation of pipelines, tanks, and other metal structures buried in the ground or immersed in water
  - Remote supervision of installations in the field of industrial automation
  - Agriculture and horticulture management

**POLISH NATIONAL STAND**

**LEF POLAND** is a company of LEF Group how was established in 1959 by Aldo Baldini as a manufacturer of low voltage power transformers. The company soon became known for its innovative custom products. In the nineties, Massimo Baldini entered the family company, at a time when the company was starting to manufacture medium voltage power transformers and products for the wholesale



<https://lefpoland.pl/>

electrical equipment market. In 2000, LEF started working in the railway equipment sector. Investments in new production machinery and qualified engineers led to a boom in the business and the consolidation of its know-how.

LEF is today a group of five companies developing and manufacturing innovative solutions for the Railway, Industrial, Smart City and Marine sectors. LEF Holding supports its subsidiaries in their development of smart technology solutions, with plant totalling 21000 sq.m. under cover in Florence, Milan, Foggia, Bari and Gliwice. LEF POLAND has developed innovative products for: RAILWAY > High technology products and systems for the railway sector; SMART CITY & IoT > Multiprotocol Power Line & Wireless technology for intelligent urban services; INDUSTRIAL > Medium and low voltage transformers, industrial applications, traction transformers, renewable energy; LIGHTING > distribution of power supplies, transformers, dimmers, interfaces, wireless and voice control systems; MARINE > ship lighting automation, zero-emissions port systems, shipboard transformers and port logistics systems.

#### POLISH NATIONAL STAND



<https://mtapsmartcity.com/index.php/en/eng/>

**mTap Smart City** equips street lamps management system with unique, smart suggestions powered by Artificial Intelligence. Suggestions generate lighting scenarios allowing for effortless optimization within one Tap on your screen. We estimate that using a suggestion system can reduce energy usage and costs even by 25%. Our solution is different in two areas than our competitors:

1. We equip our control system with Smart Suggestions powered by Artificial Intelligence. Our system is analyzing data from controllers and sensors, basing on analysis it prepares suggestions which show the user how to generate savings.
2. Our solution is end to end from the control cabinet up to the interface with the lamp. We are ready to integrate with other systems in the city.

#### POLISH NATIONAL STAND



<http://www.prosolis.eu>

**Prosolis Solar** is a modern brand that was created from the market needs and support for renewable energy. Innovative and ecological products not only enable the effective use of your photovoltaic installation, but also give you the opportunity to independently, effectively and safely clean the panels, thus gaining time and money once again.

Our preparations, thanks to appropriate packaging, are perfect for both smaller customers and the professional market.

Our Products:

Prosolis Spray:

An innovative product for removing operational and mineral dirt. Creates a hydrophobic coating that slows down re-soiling of photovoltaic panels. The preparation reduces energy losses related to the deposition of dirt on the surface of the panels

Prosolis Point Spray:

An innovative product for removing spot dirt on photovoltaic panels, mainly caused by the presence of birds. Bird droppings are one of the most difficult pollutants to remove, shading even a small part of the panel cell significantly worsens the energy yield of the entire photovoltaic system. The preparation eliminates point contamination, it is extremely important while maintaining the efficient operation of the installation. The preparation reduces energy losses related to the accumulation of point dirt on the surface of the panels.

#### **POLISH NATIONAL STAND**

REGIONAL DEVELOPMENT  
AGENCY Inc. IN KONIN



**Regional Development Agency Inc** in Konin since 1992, it has been working for regional development. The company has established itself as one of the most important institutions supporting economic development in the Konin subregion and the Greater Poland Voivodeship. The company implements several large EU projects, as part of which it provides the following services: information services; financial services (loans to SMEs); development services; grant services; accounting and HR services and services related to the internationalization of companies. The company implements partnership



**GREATER POLAND  
ENERGY VALLEY**  
Power to change



[www.arrkonin.org.pl](http://www.arrkonin.org.pl)



<https://wde.arrkonin.org.pl/aktualnosci/>

projects under which it provides services aimed at foreign cooperation of companies. Services related to the process of just transition of the eastern Greater Poland region play a significant role in the

implementation of the above-mentioned services. As the first of the six coal regions in Poland, it began to systematically implement a fair energy transition - ARR Inc. in Konin is the leader of the aforementioned process. Currently, the region is transforming into a valley of clean energies based on renewable energy sources – Greater Poland Energy Valley.

#### **POLISH NATIONAL STAND**



<https://www.relpol.pl/en/>

**Relpol S.A.** is the largest Polish manufacturer of electromagnetic relays. It is a company with long tradition, rich experience and Polish capital whose shares are quoted at the Warsaw Stock Exchange. Since 1958, we have been continuously developing in order to meet the strict requirements of our customers. We pay special attention to the research and development. Our investment projects not only enhance the quality and production capacity but they also have a positive environmental effect. We constantly work on modernization of the production process. That is why our products are purchased all over the world.

Products of Relpol S.A. are used in the areas of industrial and power-engineering automation, power electronics, industrial and applied electronics, telecommunication, household appliances, etc.

The offer of Relpol S.A. includes the following products:

- Signal relays
- Miniature PCB power relays
- Interface relays
- Industrial plug in Relays
- Modular installation relays
- Bistable - impulse relays
- Time relays
- Monitoring relays



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| <ul style="list-style-type: none"> <li>• Plug-in sockets for relays</li> <li>• High power relays</li> <li>• Relays for railroad industry</li> <li>• Relays for power- engineering</li> </ul> | <ul style="list-style-type: none"> <li>• Programmable relays</li> <li>• Control lamps</li> <li>• Solid state relays</li> <li>• Power supply</li> </ul> |
|--|--|

**STAND: H3.B12**



[www.tfkable.com](http://www.tfkable.com)

**TFK.Group** is one of the global market leaders of wires and cable systems, with numerous trading companies and production plants located in many countries, as well as service units and research and development centers. In August 2017, TFK.Group acquired the British company JDR Cable Systems - a leading manufacturer of submarine cables and provider of offshore and onshore services for the global wind energy industry.

The portfolio of TFK.Group includes many specialized cables: copper and fiber optic, telecommunications, rubber-insulated, including mining and crane, and control cables for data transmission and for security. As well as umbilicals and IWOCS systems, subsea power cables, inter-array, dynamic and export cables, which are used in the construction and operation of offshore and onshore wind farms. The maintenance and control services provided by TFK.Group are dedicated to oil and gas and renewable energy extraction systems subsea and on land. In addition, the extensive infrastructure of research and development centers allows for qualification tests, routine tests, technological tests and fire tests. Our experience is confirmed not only by continuous supplies to electricity distribution network operators or as part of ongoing investment projects for conventional and wind farms, but also by positive results of production process audits carried out by the most renowned certification bodies.

JDR Cable Systems is a global leader in subsea production umbilicals, subsea power cables and Intervention Workover Control Systems for the offshore oil and gas industry. JDR operates in harsh, dynamic, subsea environments and is a pioneer in the development of cutting-edge inter-array power cables for offshore wind, wave and tidal energy projects.

**POLISH NATIONAL STAND**



[www.trafta.pl](http://www.trafta.pl)

**TRAFTA Sp. z o.o.** is a polish company established in 2007. We are specialised in non-standard transformers and reactors. Their characteristics such as: levels of loss, dimensions, enclosure IP20, IP21, IP23, IP31, IP41, IP 54, accessories and other parameters may be adjusted specifically to suit the individual requirements of our Clients. We deliver units to the energy and railway industries, to mining (coal, copper, salt mine), wind farm and photovoltaics.

We have our own technical department, service, laboratory in which we conduct product tests on all our transformers and reactors.

Trafta applies a management system in line with ISO 9001:2015 and 14001:2015.

Our products:

- cast resin transformers
- oil-immersed and dry earthing transformers
- oil-immersed and dry arc-suppression reactors
- current limiting reactors
- shunt reactors
- flame-proof mining transformers
- transformers which supply convertors, inverters 6 and 12-pulse rectifiers

**STAND: H3.C59**

**Warsaw University  
of Technology**



[www.cziitt.pw.edu.pl](http://www.cziitt.pw.edu.pl)

**The Warsaw University of Technology** is a well renowned university, constantly building upon numerous successes – those of its scientists, employees, as well as students and entrepreneurs cooperating with the University. Here, the boldest ideas and theories come to life and become inventions! Research and development carried out at the Warsaw University of Technology respond to the challenges of modern science and economy. Technology transfer is a key part of the University's mission as a hub of innovation and entrepreneurship.

WUT CENTER FOR INNOVATION AND TECHNOLOGY TRANSFER MANAGEMENT is an important center in Mazovia, fostering the development of innovation, business incubation, and education in these areas.

The Center combines the following functions: Research center, Technology Transfer and business support center and Education support center. It implements projects that are important for the

University, financed from both domestic and foreign funds. They concern broadly understood education and competence improvement in the field of entrepreneurship, cooperation between science and business, and building a culture of innovation. Moreover, the Center is a venue for regular meetings, seminars, conferences with the participation of representatives of the world of science, business, and state authorities.

#### **POLISH NATIONAL STAND**



<http://www.apator.com/en>

**Apator** is an international group of manufacturers and distributors of modern measuring devices and systems, as well as suppliers of innovative solutions for the automation of the power network. As part of three business segments – Electricity, Water, and Heat and Gas – Apator manufactures and supplies to the market own solutions for measuring all utilities (electricity meters, water meters, heat meters, gas meters) as well as IT and technical solutions for intelligent power, water, and gas networks.

Apator Group consists of more than a dozen entities, with headquarters in Poland and subsidiaries in Germany, the Great Britain, the Czech Republic, Russia, Slovenia and Denmark. Apator Group is an employer for over 2,600 employees, several hundred of which are highly qualified engineers, constructors, and programmers. The Group operates based on own 9 manufacturing plants and 12 R&D offices specialised in developing product innovations in the field of utilities and measuring systems for utilities, automation as well as power grid control and supervision systems.

**ARS evo - it's evolution!**

Based on our long experience in the field of switchgear, we have developed a structurally well-thought-out solution in the form of a fuse switch disconnecter, the ARS evo. This is an outstanding product with features such as safety, functionality and flexibility.

Find out about the technical details of this product.



[www.bemko.pl](http://www.bemko.pl)

**BEMKO** is a company with an established position on the market, noting a systematic increase in the production of lighting and electro technical equipment. It was founded in 2007. It distributes its products in Europe through an extensive network of wholesalers, supported by regional sales managers. The guarantee of constant cooperation and customer satisfaction is offering the best quality products and services at an affordable price.



**LUXMENA** is a brand dedicated by BEMKO for the group of lighting fittings produced in Poland. It includes linear decorative luminaires, spot luminaires, as well as a wide range of luminaires for industrial applications. All products are made on the basis of components from the world's best manufacturers and are characterized by high flexibility in configuration, so they can be easily adapted to various requirements. The professional staff of our company provides full support in the selection of the best configuration, tailored to the requirements of the facility and the client's needs. We provide commercial and technical advice on the selection of the best solutions and control systems adapted to them. We carry out projects for selected lighting variants, and also support the entire stage from installation to commissioning of the system.



<https://businessinmalopolska.pl/>

**Business in Małopolska Centre** – regional partner of Polish Investment and Trade Agency in Małopolska Region in Poland, operating the integrated system of investor service (one-stop-shop), involving Małopolska Region, Małopolska Regional Development Agency and Kraków Technology Park. The Centre's main task is to assist both foreign and domestic investors interested in making new investments in Małopolska and to support Małopolska entrepreneurs in succeeding on foreign markets. Business in Małopolska Centre promotes business of the region and is a source of up-to-date data on the region's economy.

Comprehensive investors services include offers regarding investment locations suggestions, information on business environment, labour costs, possibilities to acquire employees and use of investment and entrepreneurship support funds.

	<p>Offer:</p> <ul style="list-style-type: none"> <li>• promotion of the region's investment potential through: ongoing information service for entrepreneurs, international investment fairs, publications, trainings for Local Government Units, investment real estate base, etc.</li> <li>• support of export operations of Małopolska enterprises through: foreign fairs, international economic trade missions, workshops and trainings, search for products' and services' recipients, consultations, publications, etc.</li> <li>• building of an international economic brand of the region through presentations, participation in international conferences and events, publications in media, etc.</li> </ul>
<div data-bbox="239 699 663 778">  </div> <div data-bbox="120 871 492 920">  <a href="http://www.cantonigroup.com">www.cantonigroup.com</a> </div>	<p><b>Cantoni Motor (Cantoni Group)</b> is a global leader in manufacturing of electric motors, apparatus and tools with over 100-year-long tradition.</p> <p>100% of all the products are manufactured in Poland using high quality materials and components of Polish and European origin.</p> <p>Cantoni Group offers a full range of induction electric motors, <b>from 0,04 kW up to 6000 kW</b>, in standard and special executions. Cantoni electric motors operate in different applications like e.g.: pumps, fans, compressors, conveyors, in all industry segments e.g. power plants, paper mills, marine, oil and gas, chemical installations, mines and many other fields. We offer motors according to IEC standard in the efficiency classes: IE1, IE2, IE3, IE4 and motors according to Nema standard e.g. Nema Premium motors. Apart from standard motors, we offer motors for special applications designed according to specific customers' requirements.</p> <p><b>Our latest offering is the new series of Premium Efficiency (IE3) Flameproof Motors (E)cSTe(b) for the chemical industry.</b></p> <p>Cantoni Motor S.A. with its office in Cieszyn, Poland, is responsible for the coordination of Cantoni Group activities, such as sales, purchasing, marketing and promotion. As the International Sales Office and HQ of Cantoni Group, Cantoni Motor cooperates with customers and distributors in more than 40 countries all over the world.</p> <p>Cantoni Group products meet the highest quality standards, performance and reliability even in the most difficult applications.</p>



 <https://codibly.com/>

**Codibly** is a technology company specializing in creating dedicated software solutions for renewables and the electromobility industry. Additionally, Codibly also provides software outsourcing & ready-to-use microservices. Codibly has over 11 years of experience, successfully implementing projects in the EU and worldwide.

We actively boost our international footprint across the energy, renewables, and utility industries. We're providing augmented teams for our worldwide customers, focusing on culture and desirable, high development skills fit. Our expertise includes cooperation with corporate clients from the US and UK.

We've grown to be an international brand with extended know-how and highly skilled professionals on board. Our software development teams helped many businesses in the US (45% of Codibly's profit in 2020 came from the US only) and Europe.

We're focused on increasing the share of energy acquired from renewable sources within the international market. Our specialization focuses on the end-to-end design-build software, data-driven solutions supported by engineering expertise, intelligent software, and best-fit technologies. Codibly can help improve performance, enable growth, and ultimately drive profitability.



 [www.accelerator.concordiadesign.pl](http://www.accelerator.concordiadesign.pl)



### **Concordia Design Wrocław**

A center of creativity and business. We run an incubation programme and create a **technological community** addressed to young entrepreneurs from the technology, ICT, and creative sectors.

### **Concordia Design Accelerator – Poland Prize**

Concordia Design Accelerator is designed to help onto the fast track when it comes to growing business and achieving international success. We'll provide everything that a dynamic, scalable company needs; money for development, access to reliable business partners, the support of mentors and assistance with sorting out all the formalities.

We will **help founders to set up a company in Poland** - the country with the largest market in CEE region and the sixth-largest in Europe. Thanks to that young technological companies will gain access to 38 million potential customers. During the programme we will link startups with Industry Partners who will test their solution or with VC funds interested in investing in the project.

	<p>Our aim is to accelerate startups which will support society and companies in the post COVID economy. We are convinced that we will be confronting widespread digitisation, which is why we are looking in particular for projects in the areas of AI, Cybersecurity, Smart City. Startups will receive a grant of up to 65 k euro and substantive support, gain reliable business partners and grow in a new place. Without giving away equity.</p>
<div data-bbox="235 587 651 681">  </div> <div data-bbox="120 746 394 798">  <a href="http://www.elektra.eu">www.elektra.eu</a> </div>	<p><b>ELEKTRA</b> specializes in electric heating systems for residential, commercial and industrial applications. Established in 1985, the company is currently the largest and most reputable producer of underfloor heating and frost, snow and ice protection systems in Central Europe. From the beginning product quality has been the first priority for the company. This is the only way to satisfy all customers and achieve and maintain leadership in the market.</p> <p>New age in snow &amp; ice protection systems</p> <p>The ELEKTRA ControlTec Smart SMC has been designed for the control of heating systems dedicated to snow and ice protection. The SMC can independently control two heating zones, or one zone – employing two sensors. Due to this, control in extended applications becomes possible, such as car parks, pedestrian passages or garage driveways.</p> <p>With appropriate connection of sensors (ETOG-56T, ETOR-55 and ETF-744), independent control of two various zones is possible (e.g. gutters and garage driveway). The controller features the WiFi module and Ethernet port for easy software update and remote operation via a web browser, using an user or installer account.</p> <p>The additional advantage of the device is the feature of modification of the characteristics of the moisture detector output power in the function of the ambient temperature, which enables even better adjustment of the controller's operation to the specific ambient environmental conditions.</p> <p>The controller additionally features an analog option of cooperation with the BMS system via a relay informing of alarm situations, and two pairs of clamps for manual switch-on or stand-by of the heating system run from the BMS level.</p>



[www.eltron-kabel.pl](http://www.eltron-kabel.pl)

**Eltron-Kabel Sp. z o.o.** was established in Jaworzno Poland in 1989. The company is operating in the area of modern and advanced technologies and specializing in production of wires and cables for industrial applications. Over the course of time we have greatly extended our design, production and distribution possibilities and from 2019 we became member of Helukabel Group.

We manufacture flexible connections made from copper (red, tinned, silvered or nicked ) as well as insulated cables for special applications.

- High-flexible strands and braids, round or flat, based on micro-wires with single wire diameter from 0,05 mm which grants outstanding flexibility and very long flex life
- Flexible earth conductors in transparent PVC or silicone insulation
- Heat resistant cables and wires in special PVC, silicone, FEP, PFA or fiber glass insulation
- Thermoelectric and compensating cables type K, J, N, T, E, B, R/SC
- Hybrid cables (thermoelectric and control cables) intended for connecting measuring devices with thermoelectric sensors (thermocouples) and power supply.

In times of ever-shorter innovation cycles and ever faster changing markets, it is important to have a reliable partner at one's side. With over 30 years of experience, Eltron-Kabel Sp. z o.o. ensures that its customers remain successful and competitive market players over decades.





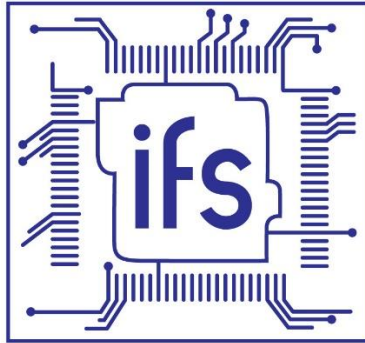
[www.frizo.pl](http://www.frizo.pl)

**FRIZO** is a Polish technology startup that is changing the refrigeration industry. Our organizational vision clearly sets the course of action, which is to become the leader of the refrigeration market in Central and Eastern Europe.

The main area of our specialization are comprehensive refrigeration installations dedicated to food industrial plants, logistic centers or other units from the broadly understood industry. Our expertise also includes ventilation, thermal insulation, heating installations, air conditioning, data center construction, and industrial dehumidification. As the only company in Poland, we manufacture, assemble and transport ammonia refrigeration machines mounted in portable containers. Many years of experience in the implementation of this type of projects enables us to provide effective technical advice in the field of operational optimization, investment, savings and modernization. In turn, the



	<p>largest design office in Poland will take care of implementing the most efficient offer. We also have reliable 24/7 service facilities at our partners' disposal.</p> <p>We are proud to talk about founding our own R&amp;D center and patenting our proprietary technology in the form of ammonia heat pumps in container construction. The last solution has a strong development potential and is the innovation on a global scale having a chance to redefine the market of the refrigeration industry.</p>
  <a href="https://www.globema.com/">https://www.globema.com/</a>	<p>We know everything about maps and networks!</p> <p><b>Globema</b> is a leading provider of specialized geospatial solutions and IT products and services for "network" companies (telecommunication, energy, heating, etc.), as well as many others (including e-commerce, transport and logistics, retail, finance, insurance). We provide IT solutions in the area of:</p> <ul style="list-style-type: none"> <li>• management of network assets and employees in the field,</li> <li>• professional application of maps,</li> <li>• system integration,</li> <li>• analyses using AI/ML methods,</li> <li>• widely understood data digitalization.</li> </ul> <p>The company is an authorized partner of GE Energy, Silver Partner of Safe Software, and has the Google Cloud Premier Partner status (Google's highest partner distinction).</p> <p>In the 25 years of Globema's history, nearly 700 companies and institutions from all over the world have benefited from our solutions and services. Among our customers you will find GE Energy, Innogy, E.ON, PGE, UPC, Netia, Multimedia, T-Mobile, ING and Bolt.</p> <p>Since 2012 Globema has the status of Research and Development Center and conducts innovative projects in the area of energy, renewable energy sources, transport and logistics, with the engagement of artificial intelligence.</p> <p>As an R&amp;D unit, it cooperates with leading universities and scientific institutions in Poland.</p> <p>Currently, Globema has 6 branches and employs more than 160 people. Headquartered in Warsaw, its other offices are located in Łódź (Poland), Romania, Czechia, Serbia, and the USA.</p>



<https://www.ifspolska.pl/en/>

**IFS Polska** is a Polish company specialises in design and deployment of integrated solutions related to energy storage systems and battery technology (intelligent power systems). The brand has been created by electromobility and green business enthusiasts. Our company's personnel consists of qualified expert engineers with long industry experience. We offer the highest quality engineering, design, and counselling services as well as own cutting-edge solutions dedicated to e-mobility, power backup and energy storage systems, and other industry applications.

We offer:

- **Battery Packs** for hybrid inverters (PV) and full scalable **energy storage systems**
- **Battery testers:** enables simultaneous testing of two batteries (two-way battery-to-battery energy transfer mode) at very low energy loss. It enables the testing of 1000VDC voltage with power of 200kW at minimum intake of energy from grid.
- **advanced management systems (BMS):**
  - **IFS-IMB Intelligent Monitoring Boards**
    - parallel Supports 12 (production) / 15 (production) / 18 (production) cells in series per monitoring board (up to 1kVdc)
    - Compatible with almost all lithium-ion cells
    - Supports 2-n battery blocks connected in paralel (ESS applications or similar) with BP hot-swap support
    - No addressing needed, all battery blocks are the same and interchangeable
  - **IFS-IBB Intelligent Battery Boards**
    - Battery system structure control
    - A multicore MCU (Ti Hercules) with functional safety in mind
    - String, module and cell information on SOC, SOH, voltages, temperatures, balancing and many more relevant information
    - Event logging for optimized battery monitoring and troubleshooting. Freeze frame included
    - Automated firmware update via the WiFi/CAN link



<https://emag.lukasiewicz.gov.pl/en/>

**Łukasiewicz Research Network - Institute of Innovative Technologies EMAG** is a network institute specializing in applied computer science, technical information technology and information technologies. The Institute deals with, among others broadly understood cybersecurity, artificial intelligence, data analysis (decision support systems), IoT (Industry 4.0, Smart Cities), digital public services and laboratory research. The unit carries out tasks affecting the computerization and IT security of the country. Participates in creating the National Scheme for Assessing and Certifying the Security and Privacy of IT Products and Systems in accordance with Common Criteria. The Institute is also implementing a project involving the launch of the Cyber Security Center. Strong relationships with the industry, especially mining and energy, allowed to build a strong potential with experience, knowledge, implementation facilities, and a laboratory infrastructure in the field of testing equipment, systems and machines.

Institute of Innovative Technologies EMAG is part of the Łukasiewicz Research Network. The network is an integrated market player providing attractive, comprehensive and competitive business solutions in the fields of automation, chemicals, biomedicine, ICT, materials, and advanced manufacturing. With 8,000 staff and 28 research institutes located in 12 cities across Poland, Łukasiewicz Research Network is the third largest research network in Europe.



<http://www.miflex.com.pl/>

**Zakłady Podzespolow Radiowych MIFLEX SA** in Kutno (Poland, EU) was established in 1957, beginning its manufacturing activity with simple radio capacitors. At present, the factory is the biggest manufacturer of a wide range of passive electronic components in Poland. The applications include audio equipment, home appliances, lighting, power electronics, electrical equipment and machinery (pumps, electrical tools, air conditioning), single-phase motors, compressors, and other uses. MIFLEX SA uses a number of sophisticated methods supporting the production processes in order to manufacture high quality products, in accordance with European and international standards. Our products fulfil the requirements of European standards, including the RoHS Directive and the REACH Regulation.

**QGlass** - transparent glass that produces electricity. Quantum revolution in global construction. Q GLASS is the first and only solution on a global scale which, thanks to the use of a coating of quantum dots on the glass, allows you to generate free electricity from the sun, while reducing harmful UV and IR radiation. Q GLASS has very good light transmission parameters, while maintaining a high coefficient of thermal insulation. Q Glass reduces overheating of rooms, as well as the effect of the so-called urban



[www.mlsystem.pl](http://www.mlsystem.pl)

heat island (UHI). Q Glass is a breakthrough in the energy balance of cities. QGlass is patented technology produced by Polish company – ML SYSTEM.

**The ML System S.A. Group** is a Polish technology company specialising in the development, design and production of systems based on photovoltaic (PV) systems technology, including those integrated with buildings (BIPV), for generating electricity from solar radiation with a wide range of applications in the building and automotive industries.

ML System S.A. is a leader in Poland and one of the five leading manufacturers of building-integrated photovoltaics in the world. Unlike its competitors, the Company has its own specialist equipment for BIPV production, along with fixing systems (ventilated facades and louvres), which meet the parameters of building materials. The company also specialises in advanced glass processing, including toughened, insulated and printed glass.



National Chamber  
of Energy Clusters



[www.kike.org.pl](http://www.kike.org.pl)

**National Chamber of Energy Clusters** was established in 2020. Chamber represents the largest number of entrepreneurs and business organizations in the field of renewable energy, associated in energy clusters. Chamber monitors the legislative activities of the Parliament, we forward a set of entrepreneurs' demands to the Government, Parliament, the Chancellery of the President and EU bodies.

We gather over 100 entrepreneurs from the energy sector, such as developers, producers and distributors.







newmediaVR

**NewmediaVR** is the world's only producer of such extensive, interactive and viewer-engaging virtual reality projects ideally suited for business – from real estate, hotels, museums and show rooms of different business.

The technology works great for Energy market as well, thanks to the guide in the presentation we can introduce your company, your solution and present your main benefits. We also can show production process, present your factory, or explain all of your competitive advantages.

Thanks to the interaction the viewer is engaged and want to explore more and more.

 <a href="http://www.newmediavr.com">www.newmediavr.com</a>	<p>Innovative technological solutions allow their users to gain competitive advantage on the market and stand out. Surprise your clients and present your facility in NewMediaVR technology.</p> <p>The projects are great answers for COVID-19 restrictions and works on the mobile phones, desktop computers and laptops.</p>
  <a href="http://www.klasterlogtrans.pl">www.klasterlogtrans.pl</a>	<p>Based in Gdańsk Science and Technology Park in Northern Poland, "<b>North-South" Logistics and Transport Cluster</b> is a grassroots initiative of Pomeranian business. Founded in 2012, National Key Cluster since 2016, NSLT Cluster is an innovation-oriented partnership with 200 members, including manufacturers, transport operators, consulting firms, universities, research and education centres. Focused on the development of multimodal hubs in Pomeranian Voivodship and their connections with the international transport corridors, Cluster supports development of innovative technologies, products and services in logistics and transport with great emphasis on their environmentally friendly aspects.</p> <p>Provides wide range of support activities from business consulting, specialized training to national and international R&amp;D projects. Currently running a number of internationalization projects allowing firms, small and big, to participate in all types of events, from economic missions to the world's biggest and most important trade shows, at significantly lower cost.</p> <p>To celebrate our 10<sup>th</sup> anniversary in July 2022 and show our constant focus on the future we are opening Industry 4.0 Centre dedicated to digitalization and robotics that will serve both business and education purposes and allow our members to better prepare to move forward.</p> <p>Our motto: The measurement of people's creativity is their readiness for cooperation</p>
	<p><b>NPA Skawina</b> is the branch of Boryszew S.A. It has been operating in the aluminium industry for over 68 years. The company was as an aluminium smelter first, and later transformed into the only Polish, and Central Europe's leading, manufacturer of aluminium wire rod and one of the largest manufacturers of wires and aluminium conductors in Poland.</p> <p>NPA Skawina is a manufacturer of aluminium wire rod and aluminium alloys wire rod 1xxx, 2xxx, 3xxx, 4xxx, 5xxx, 6xxx, 7xxx and 8xxx.</p>



[www.npa-skawina.com](http://www.npa-skawina.com)



[www.npa.pl](http://www.npa.pl)

The offer of NPA Skawina includes aluminium alloys with the addition of zirconium. AlZr (aluminium-zirconium) alloys are used in the construction of specialist HTLS conductors.

NPA Skawina offers: aluminium wires for general applications, aluminium alloy wires, lightning protection wires, lightning protection wires HFFR coated, conductors for insulated cables, and overhead conductors AAC, AAAC, ACSR, HTLS.

The portfolio of products has also increasingly popular flexible aluminium conductors class V and class VI — used in the automotive industry, wind farms, and for other special applications.

The products of NPA Skawina take advantage of a wide range of applications where aluminium can be used. The company builds the future by implementing solutions based on research and cooperation with research institutes. Their motto - constant improvements of efficiency with the care of the environment.



[www.pige.com.pl](http://www.pige.com.pl)

#### **POLISH ECONOMIC CHAMBER OF ELECTROTECHNICS**

is an economic self organization and represents the industry, research institutes, laboratories, suppliers of materials, machinery and technology for the electrical industry.

Represented sectors of the following electrical engineering industry:

- manufacture of cables
- manufacture of equipment installation and tools for electricians
- manufacturers of electric motors and transformers
- manufacture of trays and casing pipes for cables
- manufacture of electrical machinery

#### **WE CREATE A LOCAL ECONOMIC AUTONOMY**

Our Chamber brings together more than 80 member companies and enjoys a great appreciation for the actions taken for the environment of the electrical engineering industry.

Our joint activities cover many areas and matters useful to each business entity which are difficult to deal with them individually



[www.exportcluster.pl](http://www.exportcluster.pl)

**Polish Export Cluster** was developed to provide information about Polish products and services together with direct contacts to the companies offering them . One of our priorities is to facilitate contact with Polish producers and service providers via the Internet as well as our attendance at trade fairs, missions and meetings. We encourage you to regularly follow the catalog of cluster members and the calendar of trade fairs to find out when Polish exhibitors will be present at the fairs in your country.



<https://www.rawicom.pl/>

**Rawicom Consulting Services sp. z o.o.** is a development, consulting and design office for the photovoltaic projects. We provide services to both Polish and foreign investors and offer the purchase of PV projects at any stage of their development. We specialize in investments in the field of renewable energy sources.

We deal with the development of PV projects comprehensively, from searching for locations, to analyzing the feasibility and profitability of projects, through obtaining the necessary documentation, including all administrative decisions and permits, and then support in the process of installation and service of photovoltaic farms. We develop projects both on land, houses and roofs of company plants.

Our main tasks also include concept development with qualified specialists, including engineers and analysts, and preparation of complete projects, including construction projects. We also provide comprehensive legal, consulting and technical services for the implementation of PV projects.

**Roger** company develops and manufactures electronic access control and building automation systems. Products are manufactured in Poland. The product portfolio includes access control solutions with different levels of complexity and functionality as well as time and attendance, asset management, and guard tour solutions.

# roger

Intelligence for Building



<https://www.roger.pl/>

Founded in 1991, currently Roger is a major access control supplier in Poland. The high reliability and functionality of Roger products confirmed in thousands of successful installations enabled to build a wide distribution network covering almost 40 countries in Europe, Africa, the Middle East, and Asia. The products serve hundreds of thousands of people in many prestigious locations worldwide, from Lisbon through Beirut to Singapore.

Since 2016, the company has been offering the RACS 5 access control and building automation system, which is qualified as an Enterprise-class system and in some cases can be successfully used as a Corporate class system. The RACS 5 system is designed for use in medium and large facilities, including distributed ones. The system is integrated with a wide range of security and management systems such as CCTV, Intruder Alarm systems, Fire Alarm systems, PSIM, SMS, BMS, and others. The RACS 5 system is providing comprehensive access control and building automation solutions to office buildings, industrial facilities, stadiums, critical infrastructure, hospitals, universities, logistic centres, and others.



SEEDiA



<https://seedia.city>

**SEEDiA's** mission is to provide city managers and administrators with the tools they need to make good decisions for their citizens. Our cloud technology aggregates data from our own and external sensors placed in public spaces. We produce solar-powered street furniture in public transportation, parks, streets, squares – wherever people are.

All our power supply products are free and widely available solar energy. Thanks to the built-in USB ports and inductive chargers, users can recharge their electronic devices, and the WiFi Hotspot provides free Internet in public space. Additional Equipment for products, such as a smog sensor, e-paper displays, LED lighting or an audio module.

SEEDiA is all about quality. Very-high quality of materials, intriguing, innovative product design, unique functionalities, flexible approach to the client's needs, and the most extensive offer of indoor and outdoor devices are the values we would like to bring to smart cities.

**Semicon Sp. z o.o.** has been operating on the electronics market for three decades. In our manufacturing department, we provide following services of:





<https://www.semicon.com.pl/>

**- SMT and THT electronic boards assembly.**

We take care of quality by testing all products on AOI visual inspection devices. BGA and QFN systems are checked using X-Ray device. We offer lead free assembly, we have Nitrogen wave soldering machines.

At our disposal we have machines for selective PCB coating by a varnish layer as well as for automatic PCB cleaning with ion purity control. We have equipment for selective soldering and laser depaneling (green laser). We provide repair services for boards with BGA systems — the reballing technology.

**- SMT steel stencils laser cut** using **LPKF** equipment constitute a service valued by customers in our portfolio. We are a licensee of ASM-DEK company offering stencils in VectorGuard™ standard. We also make stencils for BGA circuits for reballing technology.

**- Conversion of industrial single-sided and double-sided adhesive tapes.** We manufacture Die-Cut and Kiss-Cut blanks, we also offer cutting tapes to size from a large roll.

We are a licensed converter for 3M, Saint Gobain, IPG, Tesa companies.

Semicon Sp. z o.o. is the largest Polish manufacturer of laser modules. They are used in many industries, including the medical sector.

We are an authorized distributor of electronic components, tapes, wires, cables, protection sleeveings, materials, tools for electronics, test accessories of renowned brands.

We are specialized supplier of chemical materials as for electronic as for aviation MRO/industries (**AS 9120B**).



[www.wesem.com](http://www.wesem.com)

Since 1977 the **WESEM** company has provided lighting for slow-moving machines, cars, agricultural and construction machinery. The high quality of WESEM's LED lamps is guaranteed by a qualified staff of specialists, a modern machinery park, the R&D department and a fully equipped measurement and testing laboratory.

WESEM's products, designed and produced in Poland, successfully combine modern design trends with the latest technical solutions. That is why the products have been present on European, Asian and American markets for years. Moreover, an excellent proportion between quality and price causes that WESEM's lamps are used by numerous OEM manufacturers as well as by wholesalers of spare parts from many corners of the world.

	<p>The company's core products are LED work lamps now. They are solid, durable and shock resistant, dedicated for work in tough environments. The lamps are made in Poland and each production phase is controlled in accordance with ISO 9001:2015.</p>
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