

# Poland.

## Business Forward

### GreenTech Sector

Polish companies at WETEX 2024

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European Funds  
for Smart Economy



Republic  
of Poland

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**GreenTech Sector**

**solar energy, energy efficiency,  
water resources management, smart city**



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 units, Electricity, Water and Heat, and Gas, Apator manufactures and distributes its solutions for measuring all utilities to the market (electricity, water, heat, and 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, United Kingdom, the Czech Republic, and Denmark. Apator Group is an employer of over 2,400 employees, of which several hundred are highly qualified engineers, constructors, and programmers.

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**circular economy**  
**environmental protection**

BEST Systemy Grzewcze is an engineering company with a 35-year tradition in the Polish and European markets. Our main areas of activity are: LNG&Cryogenics - including our proprietary system for the recovery of cold from LNG regasification, Engineering - construction of industrial installations, including steam and water boiler plants, and Science&Environment - systems of the Eco-Friendly tomorrow. The plant we would like to present is designed to convert waste plastics into liquid fuels (gasoline and diesel) or polymer wax. Moreover, pure hydrogen is separated from the stream of producer gas created in the process. The remaining gas goes to a cogenerator of own needs. The flue gas from the plant and the cogenerator undergoes further treatment, which captures 90% of the CO<sub>2</sub> contained in the flue gas, purified to food-grade quality.

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**smart city**  
**waste management systems**

*Bin-e*

Bin-e is an AI-based smart waste bin, designed for public places, enabling them to simplify recycling. It sorts and compresses the waste automatically, controls the fill level and processes data for convenient waste management. Bin-e will increase the waste sorting accuracy to above 95% and supports the achievement of the UN's Sustainable Development Goals.



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**smart city**

**waste management systems**



Bioelektra Group S.A. is a technology company with a proprietary, unique and patented municipal waste processing solution that removes the need for virtually all landfill, maximizes the recovery of reusable materials, emits no odors or leakages and halts all gas emissions from the waste that is being processed. All types of municipal waste are accepted and the technology is characterized by an autonomous process managed by proprietary machine-learning algorithms, with no requirement for human intervention. The technology has well proven recovery results. Bioelektra's waste processing facility in Poland has successfully processed over 300k tonnes of municipal solid waste since 2014.



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**wind energy, energy efficiency**  
**AI sensors, biodiversity**



Bioseco S.A. offers bird protection systems for wind farms. Innovative detection technology based on stereovision with dedicated bird deterrent systems allows to reduce the risk of bird collision. Bioseco Bird Protection System can detect birds from even 800 m, estimate the distance and classify their size. That in turn allows to reduce the number of deterrent systems activations and/or turbine stops to necessary minimum. Bioseco BPS operates successfully on wind farms in Poland, Germany, France, Spain, Belgium and Luxemburg on turbines of the leading manufacturers (Vestas, SGRE, Nordex, GE, Enercon etc.). Currently, Bioseco is developing a breaking through AI based, real time collision risk assessment algorithm.



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**energy efficiency,  
water resources management, air quality**

Cantoni Motor is manufacturer of electric motors with all manufacturing facilities located in Poland with the entire staff worldwide of about 2000 people and 4000 products available. The Group has more than 100 years of experience in designing, production, and exploitation of electric machines. Our offer covers high level energy efficient, industrial duty and extended endurance motors in standard and special executions complying to safety norms and international standards. Broad assortment of electric motors (0,04kW – 7000kW) and professional work of engineer and design office fulfill the demands of the most complicated applications. Our Group is the main supplier of drives for companies of fuel, power, chemical, paper, marine, mining and electromechanical industries.



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**wind energy**



DWS Wind Turbine Service is a Polish company specialising in Wind Energy Sector. Services that we currently offer on the Polish market as well as abroad, include operation of wind farms, emergency and long-term services of wind turbines. As one of the very few Polish companies available on the market, we have necessary competence and experience supported by practice and training organised by leading manufacturers of Wind Turbines. Companies such as SIEMENS GAMESA, GE ENERGY, VESTAS, PGE ENERGIA ODNAWIALNA, ENERGA WYTWARZANIE to name just a few, have already benefited from the services that we offer.





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**energy efficiency, circular economy, water  
resources management, air quality, smart city  
waste management systems**



EMKA SA is a leader in the collection, transport, and utilization of hazardous waste, primarily medical waste. We own the most advanced, patented waste thermal treatment installations in Kędzierzyn-Koźle and Redzikowo. Our extensive logistics network and advanced IT technology have helped us reach 20000 customers and 2000 collection points every day. We strive to achieve a fully circular economy, which is why we are developing technology to reuse ashes and sludges. The thermal heat generated in our incinerators can be converted into electricity. We also own an innovative Used Cooking Oil collection system for households. Our UCOllector machine is unique worldwide, and our UCO pretreatment installation is currently under construction. Heat from plant in Kędzierzyn will be reused in UCO.



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## electrotechnical equipment

The tradition of our business dates back to 1980, we are Polish manufacturer of electrical installation equipment. Logo of our company is registered in the Patent Office since 1996. Our manufacturing program includes electrical installation accessories, such as surface and flush distribution boards, meter boards, a wide range of wire and cable grips, flush junction boxes, surface and flush hermetic boxes and cable reels etc. We have a modern and continuously modernized machine park. We have our own design and engineering office with tool room, internal warehouse and means of transport. Our company offers high quality products provided with appropriate attests and certificates. We have implemented the quality management system ISO 9001: 2015 TUV Rheinland. Z.P.H. ELEKTRO-PLAST Sp. z o.o.

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**solar energy, wind energy, smart city  
cybersecurity/GNSSanty-jamming**



Elproma is a Polish deep tech company specialising in the manufacture of modem & routers for Smart City solutions, time servers dedicated for energy sector, GNSS signal jamming/spoofing detection systems and FOSREM/FOMEM system which is dedicated to monitoring the rotational vibration exiting in such objects as wind power plants, high irregular buildings, bridges, and troubled grounds.



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**switchgears and control panels**

**ETP ELEKTRO**

We provide specialized manufacturing and engineering services for low-voltage cabinets, as well as designs and prefabrication of protection, control and automation high-voltage switchgears. On the market since 1992, we have executed projects in every corner in the world, thus gaining invaluable experience and flexibility to achieve best adaptation to local standards and regulations. Over years, we have optimized our standards and procedures to deliver top-notch products together with all related service, covering warranty and post-warranty services and maintenance.



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**circular economy,  
biomaterial technology**



FibriTech develops technology for producing biomaterials from natural resources, mainly plant fibers. The flexible technology can be parametrized and allows creating new biomaterials for various applications. We focus first on oil and petrochemical sorbents called “FibriSorb”. FibriSorb sorbents are made from renewable raw materials, such as natural cellulose fibers. Our unique 3D-molded fibre structure provides exceptional absorption capacity and performance, selectively absorbing oils, fuels, and petroleum-based liquids while repelling water. We obtained a material of low density and high mass efficiency of oil absorption with parameters better/comparable to the most effective sorbents available on the market, which are often made from synthetic polypropylene.



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**solar energy, wind energy, energy efficiency,  
hydrogen technologies,  
water resources management**

Hynfra actively develops green hydrogen infrastructure as an integrator of technologies, collaborating with top manufacturers as co-designers and intermediaries in technology delivery. Our experts design efficient, cost-effective installations for a decarbonized economy based on hydrogen technology chain. We manage general contracting processes, executing turnkey projects, supporting investors in operation, maintenance, and sale of green hydrogen and medical oxygen. We also develop high-efficiency cogeneration technologies. By partnering (as co-designers of installations and intermediaries in the selection and delivery of technologies to investors) with leading suppliers from all the world, Hynfra provides comprehensive hydrogen solutions and consulting services for feasibility studies.



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**energy efficiency, smart city**

innovation  
*energy*



Innovation Energy is the bright side of ESG, providing a cloud-based platform for energy monitoring and optimization. TCM BOX measurement devices play a crucial role in tracking and managing energy usage. The solution is adaptable, allowing companies to manage not just electricity but also other utilities and environmental factors. Currently, the system is deployed in 1,300 commercial buildings across 18 countries. By offering comprehensive monitoring and multidimensional data analysis, clients can identify areas to improve energy efficiency, optimize network parameters, and choose the best tariff plans. This leads to significant cost savings and improved business profitability.

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**energy efficiency, circular economy, air quality**

OMIS is a privately owned Polish company, established 25 years ago, active in the EU & delivering world-wide. Specialized in industrial design, manufacturing and assembly of wide scope steel structures, technological equipment, as well as the integration of complex solutions for the green energy industry and other sectors. OMIS team (470 ) consists of qualified and experienced specialists, including 70 engineers, industrial designers and project-managers and prefabrication& mounting team. OMIS has its own design office, two manufacturing plants (1,000 tonnes/month) and storage halls, also offers mounting services for projects focused on transformation into green energy (such as WtE, flue gas cleaning installations, innovative storage & handling systems or boiler supportive structures).



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**smart city**  
**transportation**

**NEVOMO**



Nevomo is a Polish company with origins in the hyperloop industry, pioneering a globally unique solution that significantly enhances the capability, capacity, and efficiency of existing rail transport systems. MagRail addresses today's challenges in sustainable and intelligent mobility, playing a key role in the development of a highly efficient, CO2-neutral long-distance transport network. The MagRail Booster, the world's first retrofitting solution for existing railcars, empowers global rail systems to significantly improve services, automate operations, and electrify infrastructure with enhanced flexibility, capacity, and operational dynamics. In the future, MagRail technology will enable passenger trains to levitate on conventional rail at speeds of up to 550 km/h.

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**solar energy, energy efficiency, smart city,  
energy storage, electric bikes**



Majestic Boards is an innovative company specializing in the production of electric longboards, combining modern technology with exceptional design and durability. Majestic Boards' products offer a dynamic and smooth ride, perfect for both urban mobility and thrilling sports experiences. The company will soon expand its range to include electric bikes, designed for those who value eco-friendly and convenient transportation. Majestic Boards is synonymous with quality, performance, and a modern lifestyle, catering to enthusiasts of cutting-edge solutions.





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**biomass energy**



Metalerg has been manufacturing metalworking for nearly 30 years. The company's portfolio includes the production of EKOPAL biomass boilers. Our boilers work in countries in Europe, Asia and North America providing heat for heating farms, poultry houses, piggeries, entire rural settlements, as well as schools, sports halls and other public buildings. We offer hot air heaters ideally suited for grain dryers.

Metalerg has developed a rural heating programme based on the Danish experience with straw-fired boilers. The programme makes it possible to supply heat to every house and public building (school, sports hall, etc.) and thus eliminate up to several hundred chimneys from a given village in exchange for 1-2 chimneys from a Metalerg straw-fired boiler plant.



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**solar energy, energy efficiency**



MODMEC TRACKER – two-axis tracking system for PV panels

- most effective electricity production  $>+45\%$  compared to a similar stationary installation, facing south
- allows to obtain much more energy on cloudy and even rainy days ( $>+17\%$  compared to stationary)
- enables increased energy production in the mornings and afternoons when the demand for energy is the highest - increased electricity production at the time of peak demand
- proprietary software enabling remote control, viewing parameters, etc. - full online access to supervision, reporting, servicing and security in one application
- possibility of construction on flat areas, on mountain slopes, roofs of industrial halls and on agricultural fields - Agro PV
- the most favorable NPV despite higher installation costs



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**MPOWER**  
technologie

**energy efficiency, hydrogen technologies,  
water resources management, air quality**

Our mission is to support our customers during the design, construction and integration of electric and hydrogen – based drivetrains. We design and build drive systems that are precisely fitted to the needs of different applications. We offer power electronic solutions based on silicon-carbide semiconductors and our own designs in fields of electric machines and hydrogen – based energy sources. Experienced engineers and designers, highly sophisticated design software and advanced technologies allow fast implementation of various designs and highly complicated projects.



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**smart city**

**PETROVISION®**

GPS tracking systems, eco driving system, GPS tracking system for a containers, smart city system based on AI-controll of a traffic lights.



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**energy efficiency**

***Proton***<sup>®</sup>

Proton Polska is a dynamically growing company that has long specialized in providing reliable power generators, ensuring stable energy supply in the most demanding conditions. With its experience and advanced technology, the company has earned the trust of clients across various industries, delivering uninterrupted operation during critical situations. Now, Proton Polska is entering a new energy era by expanding its business into energy storage systems. By introducing modern solutions for energy storage, the company helps clients optimize energy usage, contributing to sustainable development and energy efficiency. Proton Polska combines tradition with innovation, offering comprehensive and eco-friendly energy solutions.





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**solar energy, smart city**



**SEEDIA**



Seedia Sp. z o.o. specializes in designing and manufacturing innovative urban furniture equipped with photovoltaic panels, capable of storing electricity from renewable energy sources. These solutions enable the charging of mobile devices and provide internet access in public spaces. They are equipped with solar panels, chargers, e-paper screens, audio modules, LED lighting, smog sensors, and controllers. The company has introduced three lines of solar benches, an infokiosk, a smart trash bin, a smart bus stop, and charging stations for small mobility devices to the market. It has also developed a remote monitoring service for the status of its devices and the collection of urban data to optimize and select the most efficient solutions for its clients.

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**energy efficiency, water resources management**  
**organic waste to biogas**

SYMBIONA is a leading provider of advanced water reuse and resource recovery solutions across Europe, EMEA, and Southeast Asia. Specializing in anaerobic wastewater treatment, membrane systems, and evaporation technologies, we enable clients to optimize water resources and overcome process challenges. Our comprehensive suite of knowledge, equipment, and field services empowers customers to achieve sustainability goals and enhance operational efficiency. We cater to diverse industries, including food & beverage, automotive, metals recovery, power, pharmaceuticals, oil & gas, chemicals, paper, and utilities. Our commitment to innovation and customer satisfaction has earned us a reputation as a trusted partner. We work closely with clients to develop bespoke solutions that deliver optimal results.

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## **Circular economy** **Waste management systems**

Since 2017, we have been providing Polish cities with waste management solutions that not only meet legal requirements but also effectively support residents of multi-family housing estates in efficient waste segregation. T-MASTER S.A. is a Polish technology company. We design and manufacture our products in Poland. With over 20 years of experience in the market, we have gained expertise in creating IT and electronic solutions for major clients in the public sector in the country. We introduce innovative solutions that change the way we handle waste. Our smart containers not only make waste disposal easier but also improve the hygiene of the environment in which residents of multi-family housing estates live.

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## wind energy, circular economy

Wind Turbine Recycling is a company specializing in the sustainable disposal and recycling of wind turbine blades. As the global demand for renewable energy grows, so does the need for responsible end-of-life management of wind turbines. Company addresses this crucial aspect of the wind energy lifecycle, ensuring that turbine blades are efficiently recycled, minimizing environmental impact. The company's innovative processes align with global sustainability goals, providing solutions that reduce waste, lower carbon footprints, and support the circular economy. By focusing on these areas, Wind Turbine Recycling is helping to extend the environmental benefits of wind power beyond its operational lifespan.

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## **biomass /eco fuel production**

We are a manufacturer of technological lines for pellet production, an eco-friendly fuel. Our clients include sawmills, farmers, biogas plants, and carpentry shops, who can use sawdust or wood chips to produce pellets, creating an additional source of income. We specialize in solutions for processing straw, hay, sawdust, digestate, and feed. Walw Solutions sets apart:

- Top-quality steel, protected and powder-coated, ensuring long-lasting resistance to corrosion and mechanical damage
- Professional design team
- Low energy consumption - Our pellet production lines feature very low energy consumption, resulting in lower operational costs and a smaller environmental impact
- Comprehensive warranty and post-warranty service

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