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Business Forward

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# The Green Technology Sector in Poland

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for Smart Economy

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The catalogue of companies and organizations is by no means a complete list of entities in the Polish Green Technology Sector. Instead, it contains entries of those that volunteered to submit. The data was provided by the entities themselves and was not revised by the authors of the publication.

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**Krzysztof Gulda**
President of the Polish Agency for Enterprise Development

The green technology sector has emerged as a cornerstone for sustainable economic growth and environmental protection across Europe. Defined by innovations that reduce environmental impact, enhance energy efficiency, and promote resource conservation, green technologies are reshaping industries from energy and transportation to agriculture and manufacturing. Within the European context, this transformation is driven by an ambitious policy framework that aims to reconcile economic competitiveness with climate neutrality and circular economy principles.

In Poland, the green technology sector is gaining momentum against the backdrop of both EU obligations and national strategic priorities. As a country historically reliant on coal, Poland faces unique challenges in transitioning to a low-carbon future. Nevertheless, national policies such as the Polish Energy Policy until 2040 and the National Development Strategy underscore a growing commitment to decarbonisation, renewable energy expansion, and energy efficiency improvements.

Polish Agency for Enterprise Development offers strong support for Polish green companies through initiatives such Polish GreenTech Promotion Programme, part of the SME Internationalisation – “Brand HUB” Project” under the European Funds for a Modern Economy 2021–2027 framework, “Investments in the implementation of environmental technologies, including those related to the circular economy (CE)”, carried out under the National Recovery and Resilience Plan and The Circular Economy in SMEs implemented under the European Funds for Eastern Poland 2021–2027 program . The first one supports the internationalisation of Polish entities by showcasing their products and services abroad, organising national stands at major international trade fairs, and preparing strategic promotional materials, while the second one supports micro, small and mediumsized enterprises (SMEs) in Poland that want to invest in environmental technologies and circular economy solutions. The Circular Economy in SMEs on the other hand is an essential tool for supporting the development of modern, efficient, and environmentally friendly businesses in Eastern Poland.

Additionally, a flagship initiative is the GreenEvo – Green Technology Accelerator run by the Ministry of Climate and Environment, which selects and promotes high-quality Polish environmental technologies and supports their domestic and international deployment.

This report explores the current landscape of the green technologies in Poland, highlighting the key aspects of renewable energy, circular economy and water and wastewater management, as well as presents challenges that will shape the country's sustainable transition in the years ahead. It is our hope that this publication provides you with a clearer understanding of Poland's green technology sector and assists you in identifying reliable and innovative business partners.

Together, we can build strong partnerships that contribute to a more sustainable and environmentally responsible future!

# Poland in figures

Population
**37,3 mln**

Unemployment
**6%**
2nd lowest in

Import
**352,5 bln EUR**

Export
**353,0 bln EUR**

2025

GDP total
**917,11 bln USD**

GDP per capita
**25 103,6**

2024

GDP growth in the fourth quarter of 2025 according to the flash estimate:
**4,0%**

2025

Sources: Statistics Poland, World Bank

# The Evolving Landscape of Green Technologies

Green technologies encompass a broad spectrum of solutions designed to minimise environmental degradation and promote the sustainable use of natural resources. They include renewable energy technologies such as wind, solar, hydropower, geothermal, and biomass energy systems, as well as energy storage and smart grid infrastructure that enhance efficiency and system resilience. Equally important are circular economy solutions, which focus on waste reduction, recycling, reuse, eco-design, and resource efficiency across production and consumption cycles. The sector also covers water and wastewater management technologies, including modern sewage treatment systems, water purification, desalination, water reuse, and infrastructure aimed at reducing water losses and improving resilience to climate change. In addition, green technologies extend to sustainable mobility, low-emission industrial processes, energy-efficient buildings, and digital solutions that optimise resource management. Together, these components form an integrated ecosystem supporting the transition towards climate neutrality and long-term environmental sustainability.

An increasingly important aspect of the green technology sector is the integration of environmental, social, and governance (ESG) principles into corporate strategy, investment decisions, and public policy. ESG frameworks assess not only environmental performance – such as carbon emissions reduction, energy efficiency, and resource management – but also social factors, including labour standards, community impact, and social inclusion, as well as governance practices such as transparency, accountability, and risk management. In Poland, ESG considerations are progressively shaping capital markets, corporate governance standards, and investment strategies, encouraging businesses to align innovation and operational models with long-term environmental and societal objectives.[1]

Recent developments highlight the accelerating pace of transformation within the green technology sector. These trends reflect both market dynamics and policy-driven incentives for green innovation.

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[1] European Parliament and Council of the European Union (2022) *Directive (EU) 2022/2464 as regards corporate sustainability reporting (CSRD)*. Official Journal of the European Union, L 322

# Wind Energy

**After hydropower, wind energy was the first renewable source to noticeably reduce the share of coal in Poland's electricity mix.**

## Sector Overview

The sector developed in three stages: rapid expansion until mid-2016 (5.7 GW), stagnation in 2017–2019 with only 110 MW added, and renewed growth from 2020 following the introduction of the auction system. In 2022–2023, annual increases amounted to just over 1 GW, while in 2024 only 0.7 GW of new capacity was added1. Investments in renewable energy sources over the last 10 years, despite location restrictions such as the 10H rule (currently the 700 m rule) and delays in issuing environmental decisions and permits, have significantly changed the Polish electricity sector. Depending on the source, installed capacity in wind farms ranged from 10.4 GW2 to 11.2 GW3 at the end of 2024. Wind is the dominant renewable energy source, accounting for 13.6% (23.4 TWh) of total electricity generation in the National Power System. A further 395.9 GWh could have been produced were it not for curtailment due to balancing constraints4.

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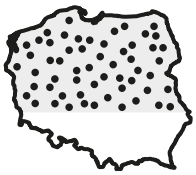

The installations are relatively new **(7.6 years on average)** and are concentrated primarily in northern and central Poland

The installations are relatively new (7.6 years on average) and are concentrated primarily in northern and central Poland. Access to connection capacity and distance constraints remain the main barriers to further onshore development. However, the development of the offshore segment may represent a breakthrough. The first large-scale offshore project is the Baltic Power development, a joint venture between ORLEN and Northland Power that is already under construction. The target capacity of the project is 1.2 GW, and annual generation of around 4 TWh is expected to cover up to 3% of national electricity demand.

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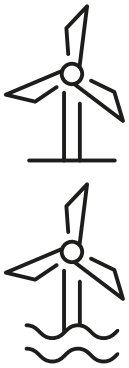
1 Raport Energetyka wiatrowa w Polsce, TPA, 2025
2 https://www.are.waw.pl/, dostęp 5.03.2026
3 https://www.forum-energii.eu/2025_wrapped, dostęp 5.03.2026
4 Own calculations based on PSE reports

## Potential and Prospects for Sector Development

The development of offshore wind energy is absolutely crucial for Polish energy policy. Strategic documents stipulate that by 2030, 15.8 GW of onshore wind and 5.9 GW of offshore wind are expected to be operational, and by 2040, 20 GW of onshore wind and 18 GW of offshore wind. Grid planning scenarios prepared by PSE, the Polish transmission system operator, are more ambitious in the medium term. The estimated potential is as much as 33 GW in the Polish Baltic Sea region.



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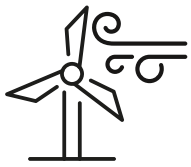
By 2036, PSE (the Polish transmission system operator) anticipates that onshore wind farms with a capacity of 28 GW and offshore wind farms with a capacity of 13.9 GW will be operating in the power system[5]. Wind energy is intended to fill the capacity gap left by the phase-out of old conventional power plants and to complement PV on a seasonal basis.

For onshore wind energy, a potential legislative change reducing the buffer zone from 700 m to 500 m could double the available area for wind farms – from 2% to 4% of the country's land area. Changes are also planned to facilitate connections and unlock connection capacity for new projects. In terms of energy sales, more and more facilities are expected to operate with flexible volume management between auctions, PPAs, and the spot market. The role of corporate PPAs (physical and virtual) is also expected to grow.

## Polish Export Potential

The scale of planned investments related to the development of onshore wind energy is estimated at up to PLN 214 billion by 2040[6], while offshore wind may require even larger investment effort, with sector estimates exceeding PLN 500 billion by 2040[7]. Building installed capacity of over 30 GW requires a strong industrial base, with Polish companies



investments related to the development of onshore wind energy is estimated at up to

**214 bln PLN**

by 2040

[5] Plan rozwoju w zakresie zaspokojenia obecnego i przyszłego zapotrzebowania na energię elektryczną na lata 2027-2036, PSE, 2026

[6] *https://pap-mediaroom.pl/polityka-i-spoleczenstwo/wiatr-na-ladzie-napedza-polski-przemyslbuduje-krajowy-lancuch-dostaw-i,* dostęp 6.03.2026

[7] *https://fundacja.orlen.pl/pl/o-fundacji/aktualnosci/2025/Moc-z-Baltyku--ruszyla-ogolnopolska-kampania-na-rzecz-offshore*

expected to account for more than half of this value. According to analyses, wind projects could generate a domestic supply chain worth over PLN 80 billion[8]. In onshore wind, Poland already has a broad industrial base covering steel structures, towers, foundations, cabling, transformer stations, construction and servicing. In offshore wind, local content is still developing. Polish participation in Phase I projects were assumed at 20-30% of total investment value, rising to 45–50% in Phase II. BGK estimates that around 300 Polish companies could be interested in the offshore supply chain, especially in shipbuilding, steel and metal industries, port services, logistics and maintenance[9].

Polish companies involved in the construction of wind farms, the installation of individual components, and their servicing are also highly regarded and competitively priced. Polish universities are launching specialised programmes dedicated to offshore wind energy, focusing not only on core engineering fundamentals but also on 3D digital modelling and large-scale data analysis using AI. This contributes not only to increased expertise and know-how in existing companies but also to the creation of innovative startups.

These companies cover a wide range of modern energy solutions – from automation and machine-learning-based algorithms to advanced predictive tools and reliable technical and economic analyses. Polish manufacturers also offer solutions for smaller-scale installations, including industrial and even residential applications, such as small turbines with both vertical and horizontal axes.

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8 *https://energetyka24.com/oze/wiadomosci/potencjal-energetyki-wiatrowej-na-ladzie-to-ok-80-mld-zl-zamowien-do-2030-r*, dostęp 6.03.2026

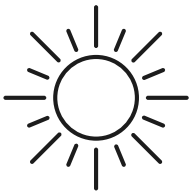
9 https://www.bgk.pl/files/public/Pliki/Analizy_ekonomiczne/Local_content_w_offshore_gotowosc_polskich_przedsiebiorcow_do_rozwoju_morskiej_energetyki_wiatrowej.pdf i https://globenergia.pl/ile-polski-w-polskiej-energetyce-local-content-ma-byc-odpowiedzia/

# Solar energy

**Photovoltaics has almost become synonymous with the energy transition in Poland. Never before has an energy source transformed the power generation structure so quickly and to such an extent.**

## Sector Overview

Cumulative installed capacity has increased from 0.1 GW[8] to 26.1 GW[9] over the last 10 years, exceeding the capacity of any other generation source in Poland, including coal-fired power plants. These figures are even more notable considering that, until recently, growth was driven mainly by prosumers, who numbered over 1.6 million by the end of 2025[10]. As a result of changes in prosumer settlement rules from net metering to net billing, newly added capacity has stabilised, and larger installations, such as industrial plants and PV farms, account for an increasing share of new capacity. In 2025, installations above 50 kWp were responsible for approximately 75% of newly added PV capacity. In June 2025, the share of renewable sources in generation reached a record 45.6% of national production, mainly driven by wind farms (17.3%) and photovoltaics (21.8%). Throughout 2025, photovoltaics generated 20.4 TWh, covering 11.8% of annual electricity demand. Production could have been



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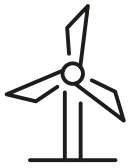

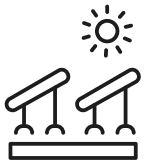

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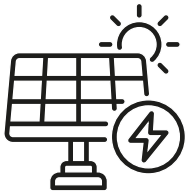

Throughout 2025, photovoltaics generated **20.4 TWh**, covering **11.8%** of annual electricity demand

[8] Rynek fotowoltaiki w Polsce, IEO, Polska, 2016

[9] https://www.forum-energii.eu/2025_wrapped, dostęp 5.03.2026

[10] https://ptpiree.pl/mikroinstalacje-w-polsce/, dostęp 5.03.2026

about 1 TWh higher were it not for curtailment[11]. Grid connection constraints have also limited further growth; in 2024 alone, 7,817 refusals were recorded, corresponding to around 32 GW of potential capacity[12].

With changes in the energy market and the introduction of hourly settlement and dynamic tariffs, managing PV installations offers increasing flexibility. It is no longer only how much energy is produced that matters, but also when it is consumed, withdrawn from, or injected into the grid. As a result, the role of EMS systems and energy storage is growing rapidly.

## Potential and Prospects for Sector Development

The slowdown in PV market growth in 2024–2025 was largely due to the growing problems of generation redispatch and the deteriorating price profile of solar energy. Although rapidly expanding EMS and BESS systems are helping to shift energy over time and are gaining an increasing share in new projects, they do not address seasonality. DSR mechanisms and dynamic tariffs can only play a supporting role. The response may lie in the green electrification of heating and industry through the Power-to-Heat formula (electrode boilers, heat pumps), supported by PTES heat storage. According to analyses by the Polish Renewable Energy Institute (IEO), the potential surplus of renewable energy generation in 2030 (April–September, 10:00 a.m.–2:00 p.m.) could reach 23 TWh[13].

The photovoltaic supply chain, currently largely dominated by China, is to be diversified in line with the plans of the European Union. Under the Net-Zero Industry Act, strategic projects, non-price criteria in public tenders, and the CBAM carbon mechanism, together with the EPBD, EED, and RED III directives, are intended to create both stable demand and a local supply of components necessary for the construction of photovoltaic installations and farms. Implementation of this regulation is intended to ensure that European manufacturers meet 40% of EU demand for equipment and components for net-zero technologies by 2030, and that European companies have a 15% share in global production of such technologies by 2040. In addition to supporting domestic manufacturers, the regulation also aims to prevent situations in which non-EU countries could exert pressure on Member States in crisis situations, similar to what occurred with gas supplies following Russia's aggression against Ukraine. In Poland, non-price criteria and additional pre-qualification requirements

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11 *https://raporty.pse.pl/*, dostęp 5.03.2026

12 *https://www.ure.gov.pl/pl/urzad/informacje-ogolne/aktualnosci/12748,Funkcjonowanie-elektroenergetyki-i-sektora-gazownictwa-w-Polsce-w-latach-2023-20.html*, dostęp 5.03.2026

13 Rynek fotowoltaiki w Polsce, IEO, Polska, 2025

will be applied for the first time in renewable energy auctions in 2026 and will cover at least 30% of annual auction volumes (or 6 GW) for photovoltaic and wind farms, and where applicable, solar-wind hybrids and energy storage facilities. These auctions will have higher reference prices.

## Polish Export Potential

Due to its strong steel industry and high-quality steel products, Poland is home to numerous suppliers of mounting structures adapted to a wide range of applications, from different soil conditions to various roof types. Numerous suppliers of cabling, telemetry and telecontrol systems, protection and control automation, and transformer substations also deliver high-quality products. The difficulty in securing new grid connection capacity means that many designers, consulting firms, and EPC contractors active in the sector are increasingly expanding into other European markets.

Although, in recent years, competing with large-scale Chinese suppliers of photovoltaic modules and inverters has been challenging, there is still room for niche solutions, particularly for smaller-scale applications or more demanding customers. For example, ML System reported that around 30% of its PLN 221 million order backlog in Q1 2025 related to export markets, while in the building-integrated photovoltaics (BIPV) segment exports accounted for over 90% of orders[14]. Poland is home to many innovative companies specialising in solar façades and photovoltaic roof systems, enabling both high aesthetic standards and the effective use of building surfaces. One company supplies deployable solar awnings, while another produces flexible solar panels using quantum dot technology. Several domestic producers of inverters and battery energy storage systems are designing and manufacturing their own product lines.

Polish companies are also strong in software development and automation. Moreover, specialised services such as drone-based inspections, digital asset monitoring, and control and optimisation software further strengthen the sector's technological profile.

Poland's competitive advantage lies in the combination of engineering expertise, project development experience, and a skilled workforce. As European demand for solar solutions grows, Poland is well positioned to act as a technology and services partner in the broader European energy transition.

[14] *https://wysokienapiecie.pl/krotkie-spiecie/ml-system-mia-30-51-mln-z-straty-netto-w-i-p-roczu-g-wnie-przez-brak-kapita-u-obrot/*, dostęp 5.03.2026

# Geothermal Energy

**While Poland's potential may differ from that of Iceland or the Philippines, aquifers exist across significant areas of the country, particularly in the Polish Lowlands and Podhale, as documented in geothermal water atlases compiled by the AGH University of Science and Technology[15] in Kraków.**

## Sector Overview

Geothermal energy remains one of the least utilised renewable energy sources in the Polish heating sector, despite favourable geological conditions. In some locations, groundwater temperatures exceed 100 °C[16]. Although the first heating plant tapping this resource was built over 30 years ago, the rate of construction of new facilities is very low – less than one facility per year on average.

In practice, geothermal heat accounts for a relatively small share of renewable heat production. In 2023, renewable energy accounted for just over 20% of final heat consumption in district heating and cooling, but geothermal energy constituted only a small fraction of the renewable heat mix[17].

While deep geothermal projects are capital-intensive and site-specific, much shallower geothermal installations operate at the building level and form part of the broader heat pump market.

Recent years have seen rapid growth in the number of heat pumps in Poland, driven by fluctuating fuel prices and building modernisation programmes. Ground-source heat pumps, although less numerous than the cheaper but less efficient air-source heat pumps, still have a significant technological impact, especially in larger households and other buildings. In 2023, with sales of around 8,100[18] units, Poland ranked fifth in Europe in terms of ground-source heat pump sales. By that time, ground-source heat pumps had reached a total installed capacity of 1.3 GW, more than six times the capacity of deep geothermal installations.

With sales of **8.1 thousand units**,
Poland ranked fifth in Europe in terms of ground-source heat pump sales

[15] https://kse.agh.edu.pl/atlasy-geotermalne/ dostęp 6.03.2026
[16] https://storymaps.arcgis.com/stories/5b14190f5c9c4e1a98981064f699e7b6, dostęp 6.03.2026
[17] Transformacja ciepłownictwa w Polsce, Forum Energii, 2025
[18] https://portpc.pl/gruntowe-pompy-ciepla-czas-docenic-ich-potencjal/ (dostęp 27.02.2026)

In the absence of risk-sharing mechanisms and a stable regulatory environment, geothermal development remains slower than its technical potential would suggest. This is due to factors such as high drilling costs, geological risks, and capital intensity, resulting in a reliance on public co-financing.

## Potential and Prospects for Sector Development

One of the key trends in the energy sector is undoubtedly the electrification of the heating sector. Historically coal-based heating systems are expected to undergo a fundamental transformation to meet EU climate targets. Geothermal energy is frequently mentioned in this context, due to its ability to provide heat independently of weather conditions with very low emissions. While ground-source heat pumps are likely to remain the leading solution (PEP2040 assumes that by 2030 their installed capacity may increase to between 1.75 and 4.88 GW)[19], there are also some expectations regarding the development of underground heat storage.

The construction of next-generation low-temperature heating networks will enable the wider use of high-capacity heat pumps, waste heat recovery, and heat storage. Medium-sized cities with favourable hydrogeological conditions are considered prime candidates for such projects.

Even after geological surveys, uncertainty concerning temperature and flow parameters can affect investment decisions. Exploration risk poses a real limitation and makes public support instruments necessary for mobilising private capital.

Shallow geothermal energy sources are expected to expand alongside the electrification of buildings. New directives and energy-efficiency standards for buildings support the continued installation of heat pumps, which will replace solid fuel boilers and furnaces. Larger geothermal systems may gain importance in commercial buildings and industrial facilities.

## Polish Export Potential

Poland has trained numerous specialists and developed expertise in hydrogeological assessment and drilling services. At the same time, Polish engineering firms and drilling contractors offer competitive services in neighbouring markets with similar geological conditions. Some companies combine geothermal systems with building design – for example, integrating geothermal heating and cooling with energy-efficient architecture. Advanced monitoring and control systems are also being implemented for geothermal

[19] *https://www.gov.pl/web/klimat/polityka-energetyczna-polski-do-2040-r*, dostęp 6.03.2026

installations. These include research-based computational tools developed within the Polish Academy of Sciences and the Iceland GeoSurvey GeoModel project for monitoring and managing geothermal resources, hydrogeological analysis and project support provided by firms such as Geokrak, and modernised control systems used by large operators such as Geotermia Podhalańska, which continuously optimise performance by monitoring temperature, flow, and pressure.

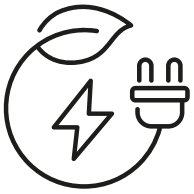
In the shallow geothermal segment, Polish manufacturers and installers of heat pump systems participate in the rapidly growing European market. Export opportunities extend beyond equipment supply to include design, system integration, and service. Reconstruction and modernisation activities in Ukraine and other regional markets could create further export opportunities in this sector.

# Biomass Energy

**Biomass is a renewable fuel and a controllable, dispatchable energy source that helps balance the National Power System (KSE). As such a controllable and dispatchable source, it reduces the risk of instability associated with power generation from weather-dependent sources.**

## Sector Overview

The share of biomass in the energy mix affects generation adequacy, costs, and system requirements. Unlike natural gas, it is a locally available fuel that reduces the system's exposure to threats such as supply chain disruptions. In 2025, biomass generation reached approximately 8.4 TWh (0.5 TWh more than in the previous year), which accounts for 4.9% of national output[20].



In 2025, biomass generation reached approximately **8.4 TWh** **(0.5 TWh more than year before)**, which makes of **4.9%** of national output

The greatest strength of biomass, however, lies in heating. Its consumption for heating purposes has increased by as much as 85% over the past decade[21]. Furthermore, biomass heat has been among the lowest-cost heat sources in recent years, mostly due to the absence of $CO_2$ allowance costs.

Polish strategic documents such as the National Energy and Climate Plan (NECP; Polish: KPEiK) and Poland's Energy Policy to 2040 (PEP2040) present biomass as a key source for energy security in heating installations. The Renewable Energy Sources Act allows a cogeneration unit generating energy from biomass to be classified as a renewable energy installation. Support mechanisms provided for in the legislation promote the use of biomass in industrial applications rather than in large-scale energy generation, in line with the principle of maximising value added. Biomass-fuelled generating units operate across Poland, supporting the development of distributed energy and local energy security.

In 2023, heating relied primarily on coal (approximately 18.7 million tonnes), gas (5.2 billion $m^3$), and biomass (15.28 million tonnes). The total primary energy

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[20] https://www.forum-energii.eu/2025_wrapped, dostęp 5.03.2026

[21] Transformacja ciepłownictwa w Polsce, Forum Energii, 2025

from renewable sources in Poland amounted to 589 PJ, of which approximately half (267 PJ) was used for heat[22]. Biomass was the main renewable energy source in heating and accounted for about 89% of the renewable heat supply. In individual heating systems, the share of renewable energy reached 39% (208 PJ), largely due to biomass combustion. In district heating systems, the share of renewable energy sources was only 14.4% (54 PJ). In recent years, the use of biomass for household heating has also increased. In 2023, 75,000 solid fuel boilers (primarily biomass) were sold in Poland, and in 2024–2025 pellet boilers became the most frequently chosen heat source under the Clean Air Programme (Polish: Czyste Powietrze), even surpassing heat pumps[23].

In individual heating, the share of renewable energy reached

**39% (208 PJ)**, largely due to biomass combustion

## Potential and Prospects for Sector Development

Over the coming decade, biomass could play a greater role in the development of the energy sector. Despite Poland's relatively low forest cover, pressure on biomass resources is expected to increase, particularly from agriculture and competing material uses. Further innovation is expected in the production of biogas and its upgraded form, biomethane, not only as a fuel for heat generation but also as a grid-compatible energy carrier and fuel for transport. Economies of scale will depend largely on infrastructure investment and the integration of production, upgrading, and distribution systems. Numerous associations and industry groups in Poland focus on biomass, biogas, and biofuels. An example is the Polish Chamber of Biofuels (Krajowa Izba Biopaliw), a nationwide organisation representing the domestic biocomponent production sector and promoting the development of biofuels as a nexus between industry, agriculture, and climate goals. The sector is attracting increasing attention from universities and technical institutions, where both researchers and students are engaging more closely with industry.

## Polish Export Potential

Poland's competitive advantage in the biomass sector lies not in raw biomass supply, but in technology, engineering, and operational expertise. Equipment manufacturing, reactor design, and locally developed fuel processing solutions offer high quality at competitive costs compared with

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[22] *https://ec.europa.eu/eurostat/databrowser/view/nrg_bal_c__custom_16663877/default/table?lang=en*, dostęp 5.03.2026

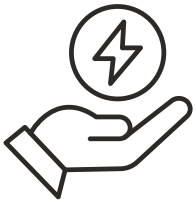
[23] *https://spiug.pl/app/uploads/2025/06/Raport_Rynek_urzadzen_grzewczych_w_Polsce_2024.pdf*, dostęp 6.03.2026

Western European suppliers. Polish companies have developed advanced capabilities in anaerobic digestion, biogas upgrading, and integrated energy systems compliant with EU regulatory frameworks. These competencies support export models based on EPC delivery, licensing, and joint ventures rather than trade in commodities. Companies like Dagas provide solutions that improve fuel efficiency and reduce emissions in combustion systems, while also supporting energy recovery from industrial processes. Symbiona offers advanced anaerobic digestion systems (AnMBR) and zero-liquid-discharge technologies enabling biogas production and water recovery in closed-loop systems. Companies such as Asket, Photo Survey, and Biocontrol focus on non-woody biomass briquetting, feedstock sourcing and standardisation, and monitoring solutions that strengthen biomass fuel supply chains.

# Electricity grids

**The Polish power sector is currently undergoing a profound transformation. Although it was originally designed and built around centrally dispatched large conventional power plants generating electricity and delivering it through transmission and distribution networks to millions of consumers, today it has to operate based on transactions concluded on a constantly evolving energy market while also accommodating electricity fed into the system by millions of independent producers.**

**Sector Overview**At the end of 2024, total installed capacity in the National Power System (KSE) amounted to 72.2 GW, of which as much as 31.8 GW came from renewable energy sources[24]. Dispatchable capacity now accounts for only 47.5%.



At the end of 2024, total installed capacity in the National Power System (KSE) amounted to

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of which as much as

**31.8 GW**

came from renewable energy sources

Poland operates more than 34,400 km of 110 kV lines and over 311,000 km of medium-voltage networks, supported by 1,662 high-voltage substations. Transformer capacity in high-voltage substations exceeds 67 GW.

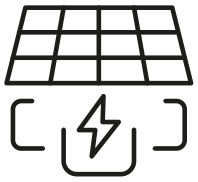
The distribution system includes approximately 258,000 medium-voltage stations, the majority operating at 15 kV[25]. Nearly 10 million consumers already have AMI smart meters installed, and by the end of 2030 coverage is expected to reach 100%, which will significantly improve the observability of low-voltage networks.

The rapid growth of photovoltaic capacity, exceeding 20 GW in early 2025, has increased operational complexity. Although annual reserve margins remain adequate in numerical terms, congestion and redispatch requirements have become more frequent. The nature of the problem is twofold: as dispatchable capacity declines and weather-dependent generation increases, maintaining real-time system balancing across the network becomes more difficult; at the same time, low-voltage networks are experiencing local voltage

[24] Raport 2024 KSE, Polskie Sieci Elektroenergetyczne, 2025

[25] Energetyka, dystrybucja, przesył. Raport PTPiREE, 2025

issues and transformer overloads due to reverse power flows during peak solar generation hours.



The rapid growth of photovoltaic capacity, exceeding

**20 GW**

in early 2025

The priority is not only to improve the integration of renewable energy sources but above all to ensure the quality and reliability of electricity supply by minimising the risk of undetected short circuits, power oscillations, and voltage disturbances that could, in extreme cases, lead to a blackout.

## Potential and Prospects for Sector Development

Electricity grids are modernised not for today's conditions but for future needs, in order to avoid incurring the costs twice. Renewable capacity is projected to reach as much as 57 GW by 2030 and 93 GW by 2040. The investment plans of the Polish TSO envisage more than PLN 129.5 billion in grid investments by 2030[26], with long-term estimates reaching up to PLN 500 billion by 2040. These investments include the expansion of substations, reinforcement and cabling of medium-voltage lines, automation upgrades, and digital monitoring systems.

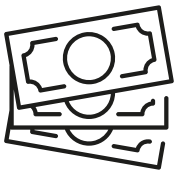
Renewable capacity is projected to reach as much as

**57 GW**

by 2030 and

**93 GW**

by 2040



The investment plans of the Polish TSO provide for more than

**129.5 bln PLN**

in grid investments by 2030, with long-term estimates reaching up to

**500 bln PLN**

by 2040

Further cabling of medium-voltage lines increases resilience against weather-related disruptions, while secondary substation automation improves fault detection and restoration times. The integration of distribution grids with the electrification of heating and transport will further increase the importance of active network management.

Digitalisation is also expected to play a key role in the transformation of the electricity grid, including the full introduction of smart metering and the implementation of the Central Energy Market Information System (CSIRE), which standardises data exchange between market participants and

[26] Karta Efektywnej Transformacji Sieci Dystrybucyjnych Polskiej Elektroenergetyki, URE, 2022

improves transparency in settlement and balancing processes. Regulatory mechanisms, such as cable pooling, may unlock up to 25 GW of additional connection capacity by enabling multiple renewable installations to share existing grid infrastructure.

## Polish Export Potential

Polish companies in the power engineering sector offer a highly developed and diverse range of products and services. Local manufacturers supply nearly all components required in modern power networks – from transformer substations and electrical machines to protection and control systems, cabling, and switchgear. Company portfolios also include UPS systems, metering devices, various types of controllers, and energy management systems. Poland's exports of electrical and electronic equipment reached approximately USD 44 billion[27] in 2024 alone, accounting for 12.4% of total national exports. A significant share consists of motors, electrical equipment, and installation components used by consumers, grid operators, and sector professionals involved in network operation, planning, maintenance, and the expansion of electricity grids.

Poland is also home to numerous engineering firms, consultancies, and experts in the field of power systems. Advanced predictive models, digital twins, and pilot Smart Grid projects are being developed here. Competitive advantage stems both from strong technical competence and, in many cases, from cost-competitive products and services.

Energa is developing a digital twin of the Elbląg CHP plant and a digital replica of the Energa-Operator distribution network, covering around 200,000 km of lines, 60,000 substations, and 3 million smart meters, to improve renewable forecasting and investment planning. The DIEGO project, coordinated by the Warsaw University of Technology, is developing digital tools for sustainable energy infrastructure management to optimise the integration of renewables, storage, and demand.

[27] *https://www.trade.gov.pl/en/news/polands-export-of-electrical-and-electronic-equipment/*

# Hydrogen Technologies

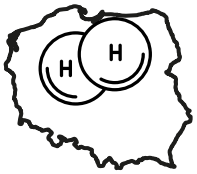
**Hydrogen fits very well into an economy based on renewable energy sources. Surplus cheap electricity can be used to produce hydrogen, which in turn has many potential applications – from transport to use in power plants as a blend with natural gas, and in the future as a standalone fuel.**

Above all, it can serve as a seasonal storage medium for chemical energy. This could enable not only better use of surplus generation from weather-dependent renewables, but also help ensure security of supply during periods of low solar irradiation and weak wind.

There are many methods of hydrogen production, each identified by a specific colour. The most desirable method, which results in green hydrogen, is water electrolysis. This enables the production of hydrogen with very high chemical purity and can be entirely emission-free when powered by renewable electricity.

## Sector Overview

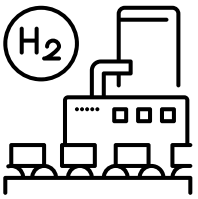
Poland is the third largest hydrogen producer in the EU. Three of the five producers with the highest hydrogen production capacities in the EU are located in Poland (Gdańsk, Płock, and Puławy). In 2024, approximately 665,000 tonnes of hydrogen were produced in Poland, representing 8.7% of total EU production[28]. Only 0.1% was green hydrogen, while 2.6% was generated as a by-product. The vast majority was hydrogen produced from fossil fuels, specifically from natural gas (grey hydrogen).




Poland is

**3rd largest**

hydrogen producer in the EU




**3 out of 5**

producers with the highest hydrogen production capacities in the EU are **located in Poland**


According to S&P Global as early as 2030, total Polish RFNBO production is expected to reach **344 thousand tonnes**

[28] *https://observatory.clean-hydrogen.europa.eu/hydrogen-landscape/production-trade-and-cost/hydrogen-production*, dostęp 6.03.2026

In industry, hydrogen is used in refining processes but primarily in ammonia production for nitrogen fertilisers. The use of hydrogen fuel cells in transport is currently limited, but growing. The EU as a whole consumes approximately 8 million tonnes of hydrogen annually (around 8% of global demand), produced mainly from fossil fuels[29].

The EU intends for green hydrogen to replace hydrogen produced from fossil fuels. In December 2024, the Ministry of Climate and Environment in Poland announced the allocation of EUR 636 million from the National Recovery Plan in the form of grants for the development of green hydrogen production capacity. Six projects with a total capacity of 343 MW will be financed[30].

## Potential and Prospects for Sector Development

The REPowerEU plan foresees the production of 10 million tonnes of renewable hydrogen in the EU by 2030. The RED III directive also sets minimum targets for the use of renewable hydrogen in transport and industry for 2030 and 2035. As early as 2030, 24% of hydrogen used in these sectors is expected to consist of RFNBOs – renewable fuels of non-biological origin. The Polish government plans to allocate approximately PLN 11 billion between 2021 and 2030 to implement the objectives set out in the Polish Hydrogen Strategy. Priority is to be given to investments in electrolysers and the purchase of hydrogen buses.

According to S&P Global report prepared for Orlen, total RFNBO (Renewable Fuels of Non-Biological Origin including green hydrogen) demand in Poland and Baltic States is expected to reach 344, 000 tonnes as early as 2030 and rise to around 660,100 tonnes by 203531. BloombergNEF (BNEF) estimates that the cost of green hydrogen will decline rapidly. Currently, it can reach around USD 12 per kilogram, while its grey counterpart costs only about USD 3. According to BNEF, production costs could converge in the 2030s, mainly due to falling electrolyser prices, which are expected to follow a trajectory similar to that observed in photovoltaics.

The amendment to the Energy Law regulates the hydrogen sector comprehensively for the first time. The President of the Energy Regulatory Office will be responsible for designating operators of hydrogen transmission, distribution, and storage systems. It is also likely that dedicated support

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29 2024 State of the European Hydrogen Market Report, The Oxford Institute for Energy Studies, 2024

30 *https://www.gov.pl/web/klimat/2-mld-zl-z-kpo-na-wsparcie-produkcji-zielonego-wodoru*, dostęp 6.03.2026

31 *https://www.orlen.pl/content/dam/internet/orlen/pl/pl/zrownowazony-rozwoj/projekty-transformacyjne/wodor/Rynek-wodoru-w-Polsce-i-krajach-ba%C5%82tyckich-prognoza-do-2040.pdf*, dostęp 6.03.2026

mechanisms for renewable and low-emission hydrogen production will be introduced in the future, including contracts for difference (CfD).

## Polish Export Potential

Although the hydrogen sector is still at an early stage of development, the stable position of Polish companies among the largest hydrogen producers in Europe, combined with extensive experience in safe transport and storage, places Poland among the potential leaders of this segment on the continent. Numerous pilot projects in green hydrogen production and hydrogen transport, implemented simultaneously in many parts of the country, create significant future export potential. While Polish scientists and engineers have long been recognised in this field, experience gained from developing projects on the domestic market will enable them to design and manufacture high-quality tanks, electrolysers, and fuel cells, and to transfer this know-how to other markets. The Institute of Power Engineering has already developed a modular solid oxide cell technology capable of operating as a fuel cell, an electrolyser, or a reversible energy storage system. Pulstar, offered by another Polish company, is a modular hydrogen-based electricity generation and storage system based on fuel cells and power electronics converters. The Hy2Tech Synthos partnership with US-based Ultra Safe Nuclear aims to deploy blue hydrogen production based on micromodular nuclear reactors. This industrial base and engineering capability position Poland as a credible partner in Europe's evolving hydrogen economy.

# Circular economy sector

**Poland has developed particular strengths across certain CE areas, including municipal waste management, construction, industrial activities, and textiles.**

## Sector Overview

In 2024, Poland generated approximately 14.2 million tonnes of municipal waste (about 377 kg per capita), of which over half was recovered, including through energy recovery and composting[32]
The sector's infrastructure consists of Regional Municipal Waste Treatment Facilities, modern Mechanical-Biological Treatment (MBT) plants, and recycling facilities for secondary raw materials, many of which have been upgraded with EU funding. In addition, a nationwide Deposit Return System for PET bottles and metal cans has been in operation since 1 October 2025, aiming to further increase separate collection rates for packaging waste[33].

Poland generated approximately

**14.2 mln tonnes**

of municipal waste **(about 377 kg per capita)**, of which over half was recovered, including through energy recovery and composting

The construction sector consumes approximately 228.6 million tonnes of materials annually – the largest material flow in the Polish economy – and the implementation of circular strategies is expected to reduce primary resource use by around 26% by 2030. Poland already operates several certified recycling plants for concrete rubble and secondary aggregates, which are increasingly used in expressway construction projects[34].

In the industrial and automotive sectors, Poland meets the EU requirements of the End-of-Life Vehicles (ELV) Directive, achieving reuse and recycling rates exceeding 85% and total recovery of around 95% of vehicle mass[35]. CMC Poland in Zawiercie operates a steel mill producing steel exclusively from scrap, making it one of the largest electric arc furnace plants in Europe[36].

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32 GUS, Environmental Protection in 2024, stat.gov.pl
33 Ministry of Climate and Environment, Deposit Return System in Poland, gov.pl
34 Circularity Gap Report Poland, circularity-gap.world
35 European Commission, ELV Directive Implementation Report, eur-lex.europa.eu
36 CMC Poland, Company profile, cmcpoland.com

The textile sector has sorting capacities for used textiles of approximately 300,000 tonnes per year, placing Poland among the leading EU countries[37]. The mandatory separate collection of textiles introduced in 2025 provides a strong incentive for further infrastructure development[38].
Key regulatory frameworks supporting CE investments include the Ecodesign Regulation (EU) 2024/1781, the "Fit for 55 package", and EU waste directives[39].

## Potential and Prospects for Sector Development

Many CE installations in Poland have moved from pilot-scale projects to full industrial implementation in recent years. The Polish company Alpla in Radomsko operates one of the largest PET recycling facilities in Europe[40].
In the metallurgical sector, CMC Poland conducts large-scale steel production based entirely on scrap steel[41]. In the textile sector, companies such as Wtórpol, VIVE Textile Recycling, and Texaid Poland apply mechanical separation technologies and develop "fiber-to-fiber" recycling solutions, processing waste streams from across Europe[42]. The construction sector is increasingly adopting digital product passports, life-cycle monitoring systems, prefabrication using secondary raw materials, and large-scale concrete recycling, thereby replacing primary resources in road infrastructure projects. Municipal waste recycling rates in Poland continue to rise steadily, supported by the expansion of selective collection points (PSZOK) and the rollout of the deposit return system (DRS), creating conditions for exceeding the EU target of 55% before 2030[43].

Among the key innovations supporting the CE are the Digital Waste Shipment System (DIWASS), which will replace paper-based procedures for cross-border waste shipments from 21 May 2026, AI-based sorting and robotics that significantly improve material identification and recovery, advanced chemical recycling technologies that enable the recovery of high-quality raw materials from complex or contaminated waste, blockchain-based tracking of secondary materials, and Product-Service Systems (PSS) that shift value creation from ownership to service provision[44].

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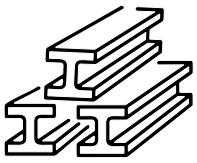
37 EEA, Used and waste textiles in Europe's circular economy, Briefing 03/2024
38 Directive (EU) 2018/851 on waste (textile collection from 2025), eur-lex.europa.eu
39 European Commission, Fit for 55 Package: Regulation (EU) 2024/1781, eur-lex.europa.eu
40 S-GE, Poland plastics industry – export outlook, 2025
41 CMC Poland, Company profile, cmcpoland.com
42 EEA, Used and waste textiles in Europe's circular economy, Briefing 03/2024
43 EEA, Poland Municipal Waste Factsheet 2025, eea.europa.eu
44 EEA, Management of used and waste textiles in Europe's CE, eea.europa.eu.circularonline.co.uk, 10 technological innovations in waste management 2025. Linklaters, EC steps to advance the CE, sustainablefutures.linklaters.com. M. Pichlak, Towards the CE Implementation in Poland, European Research Studies Journal, XXVII(2), 425-453 (2024).

## Polish Export Potential

Poland is one of Europe's leading exporters of CE-related materials and technologies, driven by high processing capacities and relatively low operating costs.

***Steel scrap*:** In 2024, Poland exported a record 2.81 million tonnes (+5.9% year on year), becoming a major supplier to European markets, as well as to Turkey and India[45].



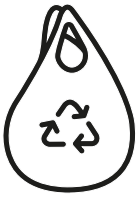
Steel scrap: In 2024, Poland exported a record

**2.81 mln tonnes**

**(+5.9% year-on-year)**, becoming a major supplier to European markets

***Textiles:*** Poland is among the three largest exporters of second-hand clothing in the EU, alongside Germany and Lithuania. Its established sorting infrastructure and efficient logistics network position the country as a regional hub for textile redistribution across Europe[46].

***Plastics*:** Poland ranks second to third in the EU in terms of plastic packaging export value, processing more than 500,000 tonnes of post-consumer plastics annually into polymer regranulates, mainly PET, PP, and HDPE[47].



Processing more than

**500,000 tonnes**

of post-consumer plastics annually into polymer regranulates

***Technologies and services*:** Poland exports advanced recycling and waste-to-energy technologies (including solutions developed by Rafako, SEEN Technologie, Mostostal Warszawa, and Envirotech) and provides extended producer responsibility (EPR) services through specialised companies such as Interzero Polska, Rekopol, and Eko-Partner Recykling.

Poland's key competitive advantages include not only relatively low labour costs (EUR 17.3 per hour compared to the EU average of EUR 33.5 in 2024), but also a highly skilled engineering workforce, strong academic and research infrastructure (with 18 technical universities educating approximately 300,000 students annually), as well as a central logistics location and substantial EU funding support for CE innovation[48].

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[45] GMK Center, Poland scrap exports 2024, gmk.center
[46] EEA, Used and waste textiles in Europe's circular economy, Briefing 03/2024
[47] S-GE, Poland plastics industry – export outlook, 2025
[48] Eurostat, Labour cost levels, 2024GUS, Higher Education 2024/2025; KRPUT, krput.pl

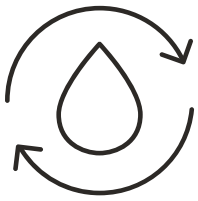
# Water services sector

**Water is a key resource for life, the economy, and the environment. Both the quantity and quality of water influence climate-related risks, resulting mainly in floods or water scarcities.**

The term water resources refers to the freshwater available for use, including surface water and groundwater. Poland's water resources are very scarce compared to those of other European countries, which is why the country is sometimes referred to as "the dry man of Europe". Renewable freshwater resources in Poland amount to around 1,600 $m^3$ per inhabitant[49]. According to EC data, only 59% of surface water bodies in Poland meet EU standards, and 14.5% of Poland's water sources are under water stress. Moreover, 22% of surface water bodies are affected by pollutants[50]. In order to improve water quality, Poland should reduce pollution, eliminate illegal dumping, minimise the release of hazardous chemicals and materials, halve the proportion of untreated wastewater, and increase the amount of appropriately treated greywater recovered for reuse[51].

## Sector Overview

The water services sector includes water and wastewater services, primarily water supply and wastewater disposal. Over the past decade, Poland's water sector has undergone significant expansion, driven largely by EU-funded infrastructure projects. The water and sewage systems market in Poland in 2024 reached a value of PLN 6.75 billion[52]. The length of the water supply network and the sewer network in Poland in 2024 increased by



Water and sewage systems market in Poland in 2024 has reached

**6.75 bln PLN**

0.8% and 2.4% respectively compared to 2023[53]. Water abstraction for the needs of the national economy and population in 2024 in Poland amounted to 8,500 $km^3$. The main source of water supply in Poland is surface water. In 2024, surface water abstraction amounted to 6.6 $km^3$, representing approximately 78% of total demand. This water was used primarily for industrial production purposes. Groundwater abstraction in 2024

[49] Eurostat, Water statistics, ec.europa.eu/eurostat.
[50] European Commission, Water-Wise EU: Poland, environment.ec.europa.eu.
[51] EUROSAI WGEA, Joint report on SDG 6 implementation, eurosaiwgea.org (2024).
[52] Spectis, Water construction and wastewater infrastructure in Poland – market analysis, spectis.pl.
[53] Statistics Poland, Municipal Infrastructure – Water Supply and Sewage System in 2024, stat.gov.pl.

amounted to 1.8 km$^3$, which was 55 hm$^3$ higher than in 2023. It was primarily used to supply the population with drinking water[54]. Household water consumption from the public water supply system in 2024 reached 1,334.6 hm$^3$, while the volume of wastewater discharged from households through the sewage network reached 1,427.5 hm$^3$,[55]. In Poland, 1,908 companies operate in the water supply and sewage sector[56]. The largest wastewater treatment plants in Poland are the Czajka Wastewater Treatment Plant, the Group Wastewater Treatment Plant of the Łódź Agglomeration, Płaszów Wastewater Treatment Plant, and the Central Wastewater Treatment Plant in Koziegłowy.

## Potential and Prospects for Sector Development

Drivers behind the development potential of the water protection and water services sector in Poland include increasing environmental pressures and water scarcity, the need to modernise infrastructure, as well as the availability of national and EU funding. Growth in the construction of water service infrastructure in Poland will be driven by several factors, notably the impacts of climate change, rising environmental awareness among society and businesses, EU directives requiring infrastructure upgrades and expansion, and continued growth in the construction sector, which is increasing demand for the expansion of water and wastewater networks[57]. One of the sector's key drivers of change is technological innovation, including smart water management systems, automation, and real-time monitoring. Artificial intelligence (AI), machine learning, and data analytics can optimise water treatment processes, while innovations in unit processes such as membrane filtration, ultraviolet disinfection, and electrochemical treatment are expected to improve water quality and treatment efficiency[58].

## Polish Export Potential

Polish water sector companies engage with international partners through industry associations. For example, the Polish Waterworks Chamber of Commerce (IGWP), representing around 490 water and wastewater utilities, is Poland's sole member of EurEau (European Federation of National Associations of Water Services). Poland also maintains an active national chapter of the International Water Association (IWA), linking domestic companies with a professional network spanning more than 140 countries. In economic terms,

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54 Statistics Poland, Environment 2025, stat.gov.pl.

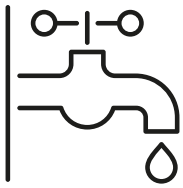
55 Statistics Poland, Statistical Yearbook of the Republic of Poland 2025, stat.gov.pl.

56 BNF – database of Polish water and sewage companies, bnf.pl.

57 Spectis, Water construction and wastewater infrastructure in Poland – market analysis, spectis.pl.

58 Valians International, The Water Treatment Sector in Poland: A Look Ahead to 2025, valians-international.com.

the sector remains substantial. In 2023, the combined revenues of the 120 largest Polish manufacturers of water and wastewater infrastructure components reached PLN 19.3 billion, with water and wastewater equipment accounting for more than PLN 6.7 billion in sales[59]. Preliminary data for 2024 indicates that this group achieved a similarly stable level of sales, despite the overall slowdown in the construction sector.



The combined revenues of the **120** largest Polish manufacturers of water and wastewater infrastructure components reached

**19.3 bln PLN**

Polish companies are also developing innovative solutions in areas such as water quality monitoring, retention management, and intelligent automation and control systems. Their main competitive advantages include the development of IoT technologies, advanced analytical software, experience in collaborating with international consortia, strong programming and analytical capabilities, the ability to compete on quality and price with global producers, and solutions compliant with EU standards. These strengths allow Polish companies both to collaborate and to compete in the global market for smart environmental systems, particularly in the fields of water protection and water services.


The main competitive advantages:

- the development of advanced IoT technologies
- advanced analytical software
- the ability to compete on quality
- and price solutions compliant with EU standards

[59] Statistics Poland, Environment 2025, stat.gov.pl.

# GreenEvo – Proven Green Solutions for Environmental Protection and Climate Resilience

**Over the past 30 years, Poland – tackling multiple environmental challenges along the way – has undergone a tremendous economic and environmental transformation. We have succeeded in addressing them, largely thanks to innovative Polish green tech. The best of these solutions have been identified and designated as GreenEvo technologies.**

The GreenEvo label represents a mark of excellence: the effectiveness of all GreenEvo technologies has been rigorously assessed, confirmed, and officially endorsed by the Polish Government. Today, GreenEvo technologies can contribute to your green transition.

In the early 1990s, Poland faced a serious environmental crisis: polluted rivers, smog-filled air, and damage caused by heavy industry. At the same time, the country had to rebuild its economy from the ground up. Yet we chose the harder path: to grow and to clean up.

Today, our GDP has tripled. $CO_2$ emissions have dropped by over 30%, and we are aiming for a 53% reduction by 2030. We have built more than 1,600 wastewater treatment plants. And we have invested over EUR 70 billion in environmental protection.

During this time, we have gained extensive experience and expertise in environmental protection and ecology. This inspired us to create GreenEvo. **GreenEvo is not just a programme – it is a strategic initiative of the Ministry of Climate and Environment designed to promote the best Polish environmental technologies worldwide.**

GreenEvo functions as an accelerator: we identify the most effective and scalable innovations, provide expert support, mentoring, and international visibility, and match these solutions with real-world needs across the globe.

The green technologies recognised under the GreenEvo programme are applicable across all areas of environmental protection – water, soil, and air. Each technology has been tested, proven, and implemented. Not in laboratories – but in cities, factories, and water systems.

GreenEvo technologies are already operating around the world — from

Latin America, through Central Asia, to Australia. They purify air in congested urban areas, recover water in drought-affected regions, and reduce waste and emissions across sectors.

A key element of the programme is the organisation of foreign trade missions. By participating in high-impact international fairs and bilateral economic forums, we listen closely to the needs of our partners abroad and share Poland's experience and green technological know-how. We do this guided by the belief that most challenges can be met while caring for the natural environment through the implementation of proven green solutions, such as GreenEvo technologies.

Therefore, if you are an investor seeking high-impact eco-innovations that drive sustainable growth, or if you are looking for an effective solution to a demanding environmental challenge, take a closer look at the technologies bearing the GreenEvo label. By choosing a GreenEvo company, you gain a reliable business partner offering excellent, innovative, and proven green solutions whose efficiency has been confirmed by independent experts. GreenEvo solutions are recommended by the Polish Government, so you can be sure their effectiveness is guaranteed.

More about GreenEvo technologies: *greenevo.gov.pl/en/green-technologies*

GREENEVO
TECHNOLOGY ACCELERATOR

Ministry of Climate and Environment
Republic of Poland

# Success stories of Polish companies

# Invisible Bird Protectors

*The Success Story of Bioseco*

**Wind turbines are a crucial part of the global transition to renewable energy. Despite all their advantages, they do have one environmental downside: birds may collide with them, get injured, or even die. The Polish company Bioseco has developed a solution to this problem. Working closely with ornithologists, environmentalists and wind farm operators, Bioseco has created an innovative and cost-effective system that protects birds from colliding with wind turbines. As of today, the company led by Adam Jaworski has delivered more than 400 systems across Europe, Chile, and South Africa. Soon, the system will also be capable of identifying bird species.**

Although more than 99.8% of migratory birds successfully avoid turbines, bird collisions with these structures remain a significant environmental concern. While this percentage may seem very small, some estimates suggest that in the UK alone between 10,000 and 100,000 birds are killed by wind turbines every year.

The risk of collision can rise for territorial birds during the breeding season, when individuals frequently move between nests and nearby feeding grounds. Birds of prey nesting near wind farms can pass the same turbines many times a day while hunting over habitats such as meadows or wetlands, which increases the likelihood of entering the rotor zone. Although the global average collision rate for birds of prey is estimated at about 0.073 individuals per turbine annually, the rapid growth of wind energy means that the cumulative impact may result in thousands of fatalities across Europe. With the number of onshore turbines projected to reach around 300,000 by 2025, the overall effect could continue to increase. Yet these incidents are not only a matter of environmental impact; they can also lead to administrative restrictions, mandatory turbine shutdowns, or even delays in the development of new projects.

A solution to this problem comes from the Polish company Bioseco, which in just a few years has evolved from a small startup into a mature technology organisation operating on international markets, with deployments across several continents and its own operational teams in France and Spain.

“We believe that the energy transition is essential but should not come at the cost of biodiversity. That is why we develop technologies that effectively and measurably reduce the risk of bird collisions with infrastructure while

allowing operators to run their assets efficiently and in compliance with environmental regulations," says Adam Jaworski, founder and CEO of Bioseco.

**Protecting Birds While Minimising Production Losses**

The Gdańsk-based company provides advanced solutions not only for global wind energy operators but also for airports. Its flagship product is the Bird Protection System (BPS), based on stereoscopic camera modules installed around a turbine. These cameras continuously monitor the surrounding airspace and enable the three-dimensional tracking of objects.

"The footage is analysed in real time by artificial intelligence algorithms that detect birds and determine their size, altitude, and distance. When a bird enters the risk zone, the system automatically activates deterrence measures – both visual and acoustic – and, if necessary, can also temporarily stop the turbine," the CEO explains.

The BPS operates autonomously and only intervenes when a response is required, effectively reducing the risk of collisions while minimising production losses. One of the key performance parameters of the system is its very low false-positive rate, not exceeding 5% across Bioseco's portfolio. This means that the system rarely triggers unnecessary reactions, limiting avoidable turbine shutdowns and reducing potential production losses.

**From Europe to South Africa**

By 2025, the company's portfolio included more than 400 systems, not only in Europe but also in Chile and South Africa. Bioseco's main clients are wind farm operators as well as owners and developers of renewable energy projects. The company works with both large international energy corporations and independent power producers seeking solutions that help them meet environmental requirements while reducing operational risk.

"Our systems are currently operating in Germany, France, Spain, Belgium, and Luxembourg – markets known for strict environmental standards and mature renewable energy regulations," says Adam Jaworski. "Strategically, we plan further international expansion, the development of an offshore version for sea-based wind farms, and intend to scale our technology as a standard solution supporting responsible wind energy development worldwide."

The company is continuing to invest in intensive research and development of the system's subsequent generations, focusing on improving its precision and reducing the number of curtailments by adding species recognition and advanced multicriterial risk assessment. In addition, Bioseco has started an R&D project focused on adapting the technology for offshore applications. The first PTZ (pan-tilt-zoom) cameras are currently being tested. They will enable the system to identify bird species, taking the technology to an entirely new level.

# Used Cooking Oil Problem Resolved

*The Success Story of EMKA Oil*

**Used cooking oil is a valuable resource when recycled, but a serious environmental hazard if poured down the kitchen sink. EMKA Oil has developed a solution that has already proven effective and could dramatically increase the amount of used cooking oil collected from households. Their innovative system, combining smart UCO collection machines with a mobile app, is fully operational in Poland and ready for global expansion.**

In Europe, only about a quarter of the cooking oil used in food is currently recovered as UCO (used cooking oil), and the real challenge lies in collecting it from households rather than restaurants. According to the European Biomass Industry Association, Europe consumes roughly eight times more used cooking oil than it currently collects for biodiesel production.

Despite being a common household waste, used cooking oil remains one of the most problematic kinds. It is frequently poured down drains or mixed with general waste, causing real damage to the environment and infrastructure.

EMKA Oil – a part of the EMKA Group – has developed a practical solution to this problem and is now rolling out its UCO collection system nationwide. The system consists of innovative, automated, and maintenance-free devices – nicknamed UCOLLECTORs – installed in public spaces, allowing people to dispose of used cooking oil quickly, safely, and conveniently.

**As Easy as Sorting Glass or Paper**

"Our mission is to develop simple, accessible, and scalable solutions that make the separate collection of used cooking oil feel natural and routine – just like sorting glass or paper," says Małgorzata Rdest, founder and CEO of EMKA Oil, and the mastermind behind the concept.

Joining the programme is straightforward: users register in the free app, available on the App Store and Google Play. They can then visit a self-service oil machine, scan a QR code to receive a special empty bottle, fill it with used cooking oil, and return it by scanning the code again. During this process, users can pick up a new bottle to continue collecting, making sustainable habits easy to integrate into everyday life.

Verified collections earn loyalty points in the app, which can be exchanged for rewards – such as saplings to plant in the home garden, trees planted in Polish forests, store vouchers, or donations to educational institutions – turning each action into a tangible benefit for both people and the planet.

As Małgorzata Rdest recalls, the concept for oil collection machines was born from a simple question: How can we expect people to act sustainably if we don't give them the right tools? The goal was to bring UCO collection into the daily routines of residents – near homes, schools, supermarkets, and public offices.

**Scalable and Logistically Solid**

Today, 115 oil collection machines operate across Polish cities and towns of all sizes and varying social structures, giving EMKA Oil the chance to test the system in a real-world, scalable scenario.
From an operational perspective, the model is both scalable and logistically robust – covering the collection, maintenance, and quality assurance of the oil for further processing. Pilot projects have confirmed that it is a ready-to-roll solution, primed for nationwide expansion and capable of becoming a permanent feature of Poland's selective waste collection network.

"Strategically, we see the oil collection machines as a platform, not just standalone devices – a system that can be replicated, localised, and enhanced with additional features and waste streams," says Małgorzata Rdest. "This opens exciting possibilities for international expansion, particularly in countries embracing the circular economy and engaging citizens in sustainable practices."

International experience gained within the EMKA Group, combined with partnerships abroad, has equipped the company with practical insight for implementing waste solutions beyond Poland. The oil collection machines can be integrated into municipal systems or operated in partnership with retail networks and public infrastructure providers.

"Plans for taking the project overseas are already in motion. Interest is coming from multiple countries, attracted to the project's innovation – not only locally but on a global scale," she adds, hinting at the system's future expansion beyond Poland.

# Analysis Every 5 Minutes – A Revolutionary Approach to Environmental Water Monitoring

*The Success Story of Waterly*

**Water quality is one of the most crucial – and at the same time least monitored – aspects of our environment. Traditional testing methods still rely largely on manual sampling and occasional measurements, generally taken once every few weeks or even months. The startup Waterly decided to change that – and it's well on its way to revolutionising environmental water monitoring.**

Contrary to popular belief, clean water in highly developed countries is far from guaranteed. According to reports by the European Environment Agency (EEA), around 67 per cent of surface waters in the European Union are in poor condition. Lakes and rivers are polluted, as are subsurface and groundwater sources that serve as drinking water supplies. For example, some of the most contaminated groundwater in Europe can be found in Germany, the Netherlands, and Belgium – among the EU's most industrialised nations. Solutions for monitoring environmental water quality lag far behind air quality monitoring technologies. But that may soon change. Waterly has developed an autonomous, real-time water quality monitoring system powered by artificial intelligence, IoT technology, and solar energy. Their smart buoy collects data every five minutes, delivering a continuous picture of water conditions – without the need for constant human intervention. It's a massive leap forward compared to traditional spot-check measurements.

**Fishing Gone Wrong**

"We offer clients an autonomous monitoring system for surface waters – rivers, lakes, ponds, retention reservoirs, coastal and marine zones – supported by artificial intelligence algorithms to continuously detect potential environmental changes," says Patryk Kamiński, founder and CEO of Waterly. "In short, we drop an automatic guardian into the water – you could call it a robot – that constantly measures key parameters and immediately alerts the relevant authorities if there is anything unusual."

The idea for real-time water monitoring surfaced during a rather unsuccessful fishing trip. That day, he didn't catch a single fish. "I thought to myself: it's peak fishing season. I'm not a bad angler. So what went wrong? Maybe it's the water?" He began searching for real-time water quality data – after all, there are countless

apps tracking air quality. It turned out there were none for water.

**Draw and Go**

"So we created a plug-and-play solution, although we prefer to call it draw and go. You drop it in and let it do the work," says Patryk Kamiński. "Fully automatic and autonomous, it looks like a buoy, uses photovoltaic panels to recharge its internal battery, and requires no human intervention. Inside, there's a great deal of electronics, smart algorithms, and sensor systems that monitor water parameters, conduct initial data analysis, and transmit everything to our central cloud-based platform."

Waterly has come a long way – from an engineering concept to a scalable startup successfully commercialising its technology. Since completing pilot projects in Poland, the company has expanded abroad and is now preparing to launch international sales.

Currently, Waterly is testing its solution in the Great Lakes region on the US–Canada border – specifically at Lake Erie. The company's innovative approach to water monitoring has been recognised around the world, including by the United Nations. Waterly is a laureate of the World Summit Awards.

"We are constantly refining both the electronics and hardware, as well as the algorithms. Our devices must operate in extreme conditions – from minus 30 to plus 50 degrees Celsius – in aquatic environments, fast-flowing rivers, and even when frozen under ice during winter."

Why could this be revolutionary? Because access to reliable, real-time water quality data matters – for the public sector, industry, food producers, and ultimately for society as a whole. As Patryk Kamiński emphasises, Waterly's long-term ambition is to provide open, public access to environmental data that can genuinely improve ecological awareness and safety.

"We can detect both long-term trends and rapid, frequent changes in water quality. And when such a change occurs, we immediately alert the relevant authority so it can conduct detailed testing. That way, we can act before it's too late."

# Polish companies and business support organizations

## CATALOG

# Adaptive Motors Poland

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**Subsector**
Electric commercial mobility

Adaptive Motors Poland is a Polish technology and manufacturing company developing advanced electric mobility solutions based on its proprietary modular EAGLE platform. The company designs and engineers innovative electric commercial vehicles and prepares them for serial production. This includes the eVanPL light electric van and customisable specialist variants, with production planned from 2028 in a modern facility. Adaptive Motors integrates flexible, digitalised manufacturing with sustainable practices and aims to accelerate the transition to low-emission transport while fostering R&D cooperation and industrial innovation in Poland and abroad.

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# AiD Solar

https://sklep.aidsolar.eu/
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**Subsector**
Solar energy

AiD Solar is a family-owned company operating in the renewable energy sector, specialising primarily in photovoltaics. It was founded in 2019 and has been promoting renewable energy sources ever since. From the outset, it has focused on the trade and distribution of components for photovoltaic installations, targeting both installation companies and individual customers. Among other things, AiD Solar offers photovoltaic modules, inverters, mounting systems, energy storage solutions, and complete PV kits, while also providing technical support and assistance in selecting the right solutions. The company is also involved in energy aid initiatives in Africa.

# Alnor Ventilation Systems

www.alnor.com.pl
marketing@alnor.com.pl

**Subsector**
Air quality

Alnor is a Polish manufacturer of modern ventilation systems, operating continuously since 1994. The company offers a comprehensive range of high-quality products, including heat recovery ventilation units, ventilation fittings, air diffusers, and silencers for residential, commercial, and industrial applications. Backed by advanced production facilities, in-house laboratories, and a strong R&D department, Alnor continuously develops innovative and energy-efficient solutions. Thanks to its long-standing experience and focus on quality, the company is one of Europe's leading ventilation manufacturers..

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# Amargo

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**Subsector**
Energy efficiency, Circular economy

Amargo is a leading Polish manufacturer of advanced plastic tanks, supporting the development of green technologies across industry and infrastructure. For over 20 years, the company has delivered chemical-resistant, water and fire-protection tanks designed for safety, durability and operational efficiency. Amargo provides dedicated solutions for water and wastewater treatment, the chemical industry, energy and power plants, food and beverage, logistics infrastructure, and fire protection systems. Its technologies support $CO_2$ reduction, long service life, and circular economy goals, offering comprehensive support from engineering and production to installation and maintenance.

# Amiston

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**Subsector**
Solar energy

Amiston is a leading manufacturer of photovoltaic carports and steel structures for the renewable energy sector in Europe. With its advanced technological facilities and a team of over 70 experts, including specialists in structural engineering, Amiston offers innovative and durable solutions tailored to the diverse needs of companies in the photovoltaic industry.

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# Anmet

anmet.com.pl
anmet@anmet.com.pl

**Subsector**
Wind energy, Circular economy, Recycling

Anmet is a Polish company specialising in comprehensive waste and scrap management services. For years, it has been providing proven, safe, and effective solutions for companies throughout Europe, emphasising service quality, process sustainability, and timely delivery. Anmet has pioneered the field of composite recycling, in particular in wind turbine blades, responding to the challenges of the energy transition. The company offers the emission-free cutting of blades in the field and their further processing, including in a newly built modern recycling plant, enabling effective fibre recovery.

# Apator

https://www.apator.com/
apator@apator.com

**Subsector**
Solar energy, Wind energy, Energy efficiency, Water resources management, Smart city

The Apator Group is a leading provider of modern solutions for the energy and utilities sector, actively supporting the green transition. The company offers advanced smart metering systems for energy, water, heat, and gas, enabling effective resource management and reduced consumption. Its core element of the offer encompasses technologies related to renewable energy sources. These include control and monitoring systems for photovoltaic and wind farms, modern switchgear, and energy storage facilities that stabilise grid operation. Apator's automation and balancing systems provide the technical framework for energy clusters and the integration of distributed renewables.

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# AP Klima

www.apklima.pl
salon@apklima.pl

**Subsector**
Energy efficiency, Air quality, Sanitary installations, HVAC

AP Klima is a specialised provider of heat pump technology solutions that serve as the foundation of modern, zero-emission heating systems. Its core business involves the supply and implementation of systems that draw renewable energy from the environment (air/ground) for both heating and cooling.

- Direct decarbonisation of buildings: AP Klima's services enable the complete elimination of technologies based on fossil fuel combustion (coal, gas, heating oil) in favour of clean electrical energy powering heat pumps.
- Implementation of high-efficiency technologies: The company offers high energy-efficient solutions that significantly reduce primary energy consumption.
- Expert technical and design consultancy: AP Klima provides professional selection and optimisation of heat pump systems, ensuring maximum efficiency and durability.

# ARINEA

https://arinea.pl/
biuro@arinea.pl

**Subsector**
Solar energy, Energy efficiency, Smart city, Electromobility

The Arinea Group is a Polish leader in comprehensive electromobility solutions – from charging station production to design, installation, and energy management. Arinea provides technology that combines charging, photovoltaics, and energy storage into a smart system for businesses and local governments. Its strategy is based on expertise, reliability, and the Polish origin of its technology. By combining its products (chargers, storage) with a management platform (Arteva), the company is building long-term relationships and a leading position in smart charging systems. The Arinea Group is a technology partner supporting companies in the energy transition.

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# Asket

www.asket.pl
office@asket.pl

**Subsector**
Bioenergy, Circular economy

Asket has been producing Tomasser® shredders and Biomasser® briquetting machines since 2005 for non-wood biomass such as straw, hay, and miscanthus. The material is briquetted in a simple two-step process, without additives, at up to 30% moisture. The briquettes deliver a calorific value of ~16 MJ/kg and are used as a renewable fuel and for animal welfare. Made from straw, an annually renewable raw material, they support local energy security and the circular bioeconomy. Compact and safe to store, they are less prone to self-ignition than straw bales and require only one fifth to one tenth of the space. Biomasser® is available in stationary and mobile versions and is a proven solution used in 30+ countries.

# B2B-Europe

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**Subsector**
Industry, internal transport

B2B-Europe's gravity conveyor rails and conveyor rollers are solutions designed for gravity-driven material handling, utilising a renewable source of energy – the force of gravity – without the need for electric power. These systems enable smooth, quiet, and maintenance-free movement of goods within logistics, production, and warehousing processes. The use of gravity conveying significantly reduces energy consumption, lowers operating costs, and minimises the carbon footprint of industrial infrastructure. The components are engineered for durability, modularity, and easy integration with modern intralogistics systems, fully aligning with the principles of sustainable development.

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# BEIJER REF Polska

www.toshiba-hvac.pl
kontakt@t-hvac.pl

**Subsector**
Energy efficiency, Air quality, Heat Pump, Air Conditioning, VRF HP & HR Systems

Beijer Ref Polska is the exclusive distributor of Toshiba HVAC systems, a part of Carrier Global Corporation. The product range includes residential split and multi-split units, commercial systems, and advanced VRF central air conditioning. The portfolio also features air-to-water heat pumps, thermodynamic pumps for domestic hot water, and sophisticated control systems with BMS modules. Toshiba's extensive lineup meets the needs of even the most demanding users, combining Japanese reliability with energy efficiency.

# Beretta

www.beretta.pl
info.beretta.pl@carrier.com

**Subsector**
HVAC, Heat pump, Condensing boilers, Air Conditoning

The Beretta brand offers heat pumps, gas boilers, and air conditioning, and has been active in the European market for over 50 years, and in Poland for over 30. It is part of the Riello Group, a European leader in the production of heating and air conditioning equipment. With its focus on the continuous improvement of energy efficiency and the reduction of greenhouse gas emissions to protect the natural environment, the company is expanding its product portfolio with green solutions – and is already seeing positive results. Through a training system, Beretta contributes to the development of its business partners and to keeping their technical knowledge up to date, which is ultimately reflected in user satisfaction.

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# Bine

https://bine.world/theapp
contact@bine.world

**Subsector**
Circular economy, Smart city, Waste management

Bin-e is a pioneer in smart waste management, the company behind the world's first AI-based smart bin that automatically recognises, sorts, and compresses waste. Combining AI, robotics, and IoT, Bin-e solves the challenge of inefficient recycling in offices and public facilities. The device ensures superior sorting accuracy and volume reduction, while its cloud platform offers real-time data to optimise waste logistics and costs.
Featuring SmartB for e-waste and interactive displays for CSR communication, Bin-e transforms waste disposal into a seamless, data-driven process. The company empowers businesses to achieve sustainability goals and minimise their environmental impact.

# Bio Energy Group

www.beg.pl
info.beg.pl

**Subsector**
Bioenergy

Bio Energy Group, founded in 2015, produces renewable fuels, focusing on wood pellets and wood briquettes. Its pellets are certified ENplus® A1 (PL 048) and offer high energy efficiency, low ash content, and consistent quality. The briquettes are a high-density solid fuel, made from clean sawdust and wood chips, with low moisture content and excellent calorific value. These products are used in home heating, industrial systems, and renewable energy plants. The company operates modern production facilities and has its own transport fleet, serving customers across Europe. Its focus on innovative technologies contributes to enhanced efficiency and competitiveness.

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# BIOCENT

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biuro@biocent.pl

**Subsector**
Water resources management

BIOCENT is one of Poland's leading producers of equipment used for the retention, purification, and pumping of industrial wastewater and rainwater.
The company's range includes such products as:
- Grease separators
- Hydrocarbon separators
- Retention tanks
- Sewage pumping stations
- Flow regulators
- Inspection hatches
- Return flaps
- Wall and duct penstocks
- Storm gate valves

All of Biocent's products fully comply with European Union standards (EN 858-1:2005; EN 858-1:2005/A1:2007) and CE regulations. The company's quality management system is certified according to the ISO 9001:2015 standard.

# Bioelektra Infrastruktura

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bioelektra@bioelektra.pl

**Subsector**
Bioenergy, Circular economy

Bioelektra Group is a technology company with a proprietary, unique, and patented municipal waste processing solution that almost entirely eliminates the need for landfill, maximises the recovery of reusable materials, is odour- and leakage-free, and halts all gas emissions from the waste being processed. The company handles all types of municipal waste, and its technology is characterised by an autonomous process managed by proprietary machine-learning algorithms. Bioelektra's waste processing facility in Poland has processed over 300,000 tonnes of municipal solid waste since 2014. In Q2 2026, the company plans to launch a new plant with a capacity of 150,000 tonnes of MSW per year in Wierzbica, near Radom.

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# Biogas Technology Consult

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**Subsector**
Bioenergy, Hydrogen technologies, Circular economy, Biogas, Biomethane

Biogas Technology provides comprehensive consulting services in technology, engineering, and environmental protection. It supports investors at every stage of biogas, biomethane, and composting projects – from the development of technical and financial concepts, through site selection, to obtaining all required permits and decisions. The company delivers environmental services for installations, landfills, and mechanical-biological treatment plants, assisting with approvals for waste generation and processing. It also handles authorisations for fertilisers and soil improvers, CE fertiliser certification, and permits for waste recovery under R10.

# Bioseco

www.bioseco.com
offers@bioseco.com

**Subsector**
Wind energy

Bioseco is a technology company that develops and deploys advanced Bird Protection Systems (BPS) for wind farms, enabling renewable energy generation with minimal impact on avian wildlife. Its systems use stereovision detection, machine learning, and real-time risk assessment to detect and classify birds at long range. They trigger targeted deterrents or automated turbine curtailments only when necessary, reducing collision risk while limiting energy losses. Bioseco's solutions are installed on hundreds of turbines across Europe and beyond, helping operators comply with environmental standards and protect vulnerable species.

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# BIOVALLEY RESEARCH VENTURE BUILDER

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**Subsector**
Bioenergy, Circular economy, Water resources management, Smart city

Biovalley Research Venture Builder is an ecosystem designed to accelerate the development of biotech innovations – from early research to full commercialisation. It brings together scientists, startups, and investors, offering access to laboratories, expert knowledge, mentorship, and funding. The platform enables rapid idea validation, business model creation, and project scaling, among others in the field of green technologies. Its mission is to drive breakthrough technologies that improve health and quality of life.

# Blade Brothers

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Kosinski@bladebrothers.eu

**Subsector**
Solar energy, Wind energy, Circular economy, Recycling

Blade Brothers is an innovative Polish company that combines engineering precision with creativity, transforming difficult-to-process waste, such as used wind turbine blades, into valuable utility and design products. The team of engineers and designers recycles composites, upcycles materials, and creates urban furniture, playgrounds, art installations, and high-end audio speakers from turbine components. The company also provides services in the estimation of site restoration costs for wind and photovoltaic farms.

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# BOKA projekt

www.bokaprojekt.pl
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**Subsector**
Circular economy

BOKA projekt is a design studio founded by Bogumiła Kapica, an experienced architect with construction licenses to design without restrictions, and a member of the Polish Chamber of Architects. The studio focuses on redevelopment using reclaimed and natural materials. Its design solutions significantly reduce the carbon footprint of investments through the use of recycled and natural materials. BOKA projekt specialises in reconstructions, restoring sites and reusing building materials. To complement new building elements, it uses natural, low-impact construction technologies, including modular buildings filled with straw, hempcrete, and rammed earth blocks.

# Botres Polska

www.botres.com
polska@botres.com

**Subsector**
Bioenergy, Circular economy, Water resources management, Biogas, Biomethane

Botres specialises in the construction of cutting-edge industrial biogas plants that convert a wide range of organic waste and agricultural residues into renewable energy, clean water, and high-quality fertiliser. In addition to providing comprehensive turnkey biogas solutions (EPC), the company also builds and operates its own biogas facilities under the BOO (Build, Own, Operate) model, ensuring consistent quality, efficiency, and long-term sustainability in every project it undertakes.

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# BRAMY-SERWIS

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**Subsector**
Energy efficiency, Circular economy

BRAMY – SERWIS is a Polish small enterprise operating since 2007, specialising in high-speed industrial doors and services based on circular economy principles. The company designs, manufactures, installs, and services EkoMaster high-speed doors, in which regenerated drives and control systems are used as a standard solution. BRAMY – SERWIS also provides advanced regeneration and repair services for industrial door automation, supporting customers and service partners across Europe. The company focuses on durability, repairability, and reducing environmental impact throughout the product life cycle.

# BTI Gumkowski

https://kipi.pl/
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**Subsector**
Bioenergy, Energy efficiency, Air quality, Eco-friendly construction, Climate change adaptation

The KIPI brand was established in 2013 and is part of BTI Gumkowski, a company specialising since 1994 in industrial solutions and the design and development of production lines. As one of Poland's leading manufacturers of heating equipment, the company's portfolio includes heat pumps, pellet burners with a rotating combustion chamber, air heaters, and complementary devices. Major boiler manufacturers have chosen KIPI solutions, and the brand's distribution network comprises nearly 150 authorised installers. KIPI products are used in residential and industrial facilities in Poland and abroad.

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# byMYCO

www.bymyco.com
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**Subsector**
Circular economy, Biocomposite for packaging

byMYCO is a biomaterials company creating 100% biodegradable mycelium-based composites ("grown, not manufactured") as a functional alternative to plastics and foams. The company grows the material in moulds using plant and agricultural waste, then stabilises it through thermal processing to deliver lightweight, durable, naturally insulating, and fire-resistant products that can safely return to the biological cycle at the end of their life.

# CALEFFI POLAND

https://www.caleffi.com/pl-pl
biuro@caleffi.com

**Subsector**
Solar energy, Geothermal energy, Bioenergy, Energy efficiency, Water resources management

Caleffi is a leading manufacturer of top-quality components for control and measuring valves used in residential and industrial applications, in heating, air conditioning, plumbing systems, and renewable energy. Since the beginning of its operations, the company has consistently focused on reliability and continuous technological improvement. A mainstay of Caleffi's strategy is the full integration of the production process – up to 13 manufacturing plants located in Italy ensure the highest quality standards and shorter delivery lead times. As a result, customers have fast access to modern and proven technical solutions.

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# CFE

www.cfefoundation.net
office@cfefoundation.net

**Subsector**
Energy efficiency, Smart city, Other

CFE is an EU-based operator focused on Battery Energy Storage Systems (BESS) and energy security infrastructure, bridging the gap between stable nuclear power generation in Ukraine and the damaged distribution grid. It provides a secure supply chain of industrial BESS (100+ kW) for critical infrastructure and commercial enterprises.
Acting as a PL–UA hub, CFE unites technology providers with UA-certified engineers to deliver turnkey energy resilience projects. CFE manages procurement, logistics, and financial settlements within EU jurisdiction, eliminating cross-border risks for its partners.

# Defro Energy

www.defroenergy.pl
biuro@defroenergy.pl

**Subsector**
Solar energy, Bioenergy, Energy efficiency, Air quality, Replacement of heating sources

Defro Energy is a trusted partner in comprehensive energy solutions, combining years of experience with cutting-edge technology. The company specialises in photovoltaic systems and advanced energy storage solutions that maximise energy independence and reduce electricity costs. Its expertise extends to complete thermal modernization of buildings, ensuring optimal performance and comfort. Defro Energy provides professional energy consulting and detailed energy audits, helping customers identify the best options tailored to their specific needs. Its team of experienced specialists guides customers through every step – from initial assessment and system design to installation and ongoing support.

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# Defro R. Dziubeła

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biuro@defro.pl

**Subsector**
Energy efficiency, Air quality, Heat pumps, Eco-friendly pellet and wood boilers

For over 50 years, Defro has been a leading manufacturer of eco-friendly heating solutions, delivering innovative products to more than 60 countries worldwide. Its commitment to environmental protection drives everything it does. The company specialises in heat pumps, ecological pellet and wood boilers, heat recovery ventilation systems, and modern fireplaces that combine efficiency with sustainability. All products use renewable energy sources and advanced technologies to minimise environmental impact while maximising performance. Defro's extensive experience and dedication to quality have made the company a trusted partner for those seeking green heating solutions.

# DTJ

www.DTJ.pl
dtj@dtj.pl

**Subsector**
Circular economy

DTJ, a recycler of LDPE plastics and producer of LDPE regranulate, has been operating since 2002. The company specialises in the processing of plastic waste, which makes it a key player in the circular economy, contributing to the protection of our planet's environment. It sources raw materials (waste) primarily from Poland and Europe, while the recipients of its products and services include companies from across the country and other Member States of the European Union. DTJ's ongoing operations – and its unwavering commitment to product quality – have earned the company a strong position in the industry and a base of loyal, satisfied customers.

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# DUE Consulting

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**Subsector**
Grant acquisition

DUE Consulting provides advisory services in obtaining external financing for businesses, with a focus on industrial companies and modern service providers including companies within the green tech sector. The company supports clients in accessing national and EU grants, loans, and tax incentives targeted at companies offering green solutions. Services are delivered by experienced professionals, including former EU project evaluators, ensuring high-quality documentation and effective application processes. DUE Consulting offers comprehensive support covering application preparation, submission coordination, and advisory services related to project implementation and settlement.

# Domanski Zakrzewski Palinka (DZP)

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dzp@dzp.pl

**Subsector**
Legal and tax services

DZP is a leading independent law firm in Poland, and has been advising clients since 1993. With a team of 180 lawyers and tax advisers across 11 practice areas, DZP provides comprehensive legal support to Polish and international companies operating in the green technologies sector. The firm has longstanding experience in infrastructure, energy, and environmental projects, including renewable energy, energy transition, public procurement, and EUfunded investments. DZP supports investors, developers, and public entities throughout the project lifecycle, combining regulatory, transactional, and dispute resolution expertise with a strong understanding of business and sustainability objectives.

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# eBigData

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**Subsector**
Energy efficiency

eBigData uses Physical AI to create intelligent brains for industrial automation. Traditional reactive systems are transformed into proactive, thinking controls that prioritise safety and energy efficiency.
The company's flagship solution, AI4MFC, is designed for industrial pump and compressor systems, delivering up to 30% more energy savings than standard automation. By fully unlocking the potential of VSD (Variable Speed Drive) technology, it helps industries maximise their performance.
At eBigData, the core principle is that the cheapest energy is saved energy.

# Ecopolplast

www.ecoplastomer.eu
info@ecopolplast.pl

**Subsector**
Circular economy

Ecopolplast presents Ecoplastomer® – a fully circular thermoplastic material with an integrated Digital Product Passport (DPP) framework, made from 100% post-consumer recycled plastics and recycled rubber crumb. LCA confirms that its production generates up to 69% less $CO_2$ compared to conventional plastomers. Ecoplastomer® eliminates the reliance on virgin fossil-based polymers, ensuring independence from crude oil. It also maintains physical properties comparable to those of traditional thermoplastics. As a result, manufacturers can replace standard plastic or rubber components with this high-performance recycled alternative, effectively reducing both their carbon footprint and waste.

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# ECOSERV

https://ecoserv.com.pl/en/
biuro@ecoserv.com.pl

**Subsector**
Bioenergy, Energy efficiency, Circular economy, Air quality

Ecoserv is a modern and innovative company providing solutions in the fields of environmental protection, renewable energy sources, and industrial energy efficiency. It is one of the few companies in the market with its own technologies developed by leading Polish engineers. Among other things, this enables a reduction in emissions of harmful compounds produced during combustion processes in industry, heat engineering, and power generation. Ecoserv is also a proven and reliable technological partner for domestic and international companies implementing turnkey investments. It provides a wide range of solutions featuring the highest quality of workmanship.

# Ecovive

www.ecovive.eu
info@ecovive.eu

**Subsector**
Circular economy

Ecovive is a Polish manufacturer of premium food packaging made from 100% pure Scandinavian cellulose. Unlike recycled or bagasse-based alternatives, its products guarantee absolute purity – zero heavy metals, microplastics, or chemical contaminants – making them ideal for organic food, premium meal prep, and the HoReCa sector across Europe. Produced in Poland with BRC Food and FSC certifications, the company's packaging offers natural grease and moisture resistance without any coatings, is microwave- and freezer-safe (-20°C to 120°C), and is fully biodegradable. Ecovive seeks strategic partners to scale circular economy solutions that meet EU SUP Directive requirements and the growing demand for plastic-free packaging.

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# EGM

www.egm.pl
biuro@egm.pl

**Subsector**
Energy efficiency, Circular economy, Water resources management, Air quality

EGM manufactures a wide range of granulated products for industrial, agricultural, construction, and road engineering applications. The company operates three mining sites: the Wierzbica Limestone Mine, the Chwałków Granite Mine, and the Gębczyce Granite Mine.
At the end of 2013, a modern limestone processing complex was launched near the Wierzbica Mine, expanding the product range to include high-quality, fine-grained limestone products. This complex is continuously being developed.
The company is a manufacturer of eco-friendly, mineral-based functional fillers used, among other things, in plastics, water and air filtration systems, and construction chemicals.

# Ekoinwentyka

www.ekoinwentyka.pl
sekretariat@ekoinwentyka.pl

**Subsector**
Air quality, Biotechnology

Ekoinwentyka is a dynamic Polish innovator in environmental technology, delivering advanced biological air purification solutions for industry. It specialises in biotechnological VOCs (volatile organic compounds) and odours removal using its proprietary CTBB Biorector systems – cost-effective, scalable, and emission-free alternatives to conventional methods. Tailored to client needs, the company's turnkey solutions combine sustainability with high performance, reducing harmful pollutants without generating secondary waste. With a strong track record of international recognition and partnerships, Ekoinwentyka drives measurable improvements in air quality and supports a greener, healthier future.

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# Ekotop Roman Sobczyk

www.ekotop.eu
ekotop@ekotop.eu

**Subsector**
Circular economy

Ekotop has, from the outset, been involved in environmental protection in the broadest sense, successively expanding its scope of activities. The company engages in problem-solving in the management of municipal sewage sludge and other types of waste, as well as in investments, aimed at improving environment
We advise, design, implement, carry out and act as a project manager. We place particular emphasis on technologies based on the use of unconventional energy sources.

# Electro.Technology

https://amperi.eu/kategoria-produktu/skutery/
g.radek@amperi.eu

**Subsector**
Air quality

Electro.Technology is an innovative leader in the Polish electromobility market, specialising in the distribution and implementation of cutting-edge technological solutions in the electric two-wheeler segment. Its portfolio includes advanced electric scooters and motorcycles that combine zero emissions with distinctive design and dynamic performance. Driven by a passion for innovation, the company delivers smart transport systems that reduce the carbon footprint in cities. As a key player in the green revolution, Electro.Technology focuses on quality, performance, and future-oriented technologies, shaping a sustainable landscape for Poland's Smart City and eco-transport sectors.

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# Elektrorecykling

https://elektrorecykling.pl/kontakt/
info@elektrorecykling.pl

**Subsector**
Circular economy

Elektrorecykling is the largest waste electrical and electronic equipment (WEEE) processing facility in western Poland. The company's operations cover Greater Poland, Lubusz, Pomeranian, Kuyavian-Pomeranian, West Pomeranian, Lower Silesian, Opole, and Silesian voivodeships.
Elektrorecykling provides comprehensive services in WEEE management, including physical dismantling and processing, separation of metal fractions, plastics, and electronic components, as well as the sale of recovered materials. The company operates modern recycling lines supported by advanced IT systems, ensuring efficient and high-quality recycling processes.

# Elektrorecykling Polska

https://elektrorecykling-polska.pl/
info@elektrorecykling-polska.pl

**Subsector**
Circular economy

Elektrorecykling Polska processes plastics derived from waste electrical and electronic equipment (WEEE). The company specialises in advanced technological processes such as polymer separation, sink-float separation, and regranulation, which enable the recovery of high-purity secondary raw materials suitable for further industrial use.
In addition to its processing activities, the company is highly active in both domestic and international markets. Elektrorecykling Polska is a manufacturer of high-quality post-consumer regranulates that meet stringent quality and performance requirements of modern industry.

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# ELKO-BIS

https://elkobis.com.pl/en/
info@elektrorecykling.pl

**Subsector**
Solar energy, Wind energy, Energy efficiency, Smart city

ELKO-BIS is a Polish manufacturer of lightning protection, earthing, and surge protection systems. The company supplies certified systems for photovoltaic installations, wind farms, industrial facilities, and public infrastructure. The product portfolio includes systems designed to protect electrical installations against lightning strikes and overvoltage events. ELKO-BIS adheres to European standards and offers durable solutions tailored to demanding environmental and operational conditions. The company supplies its products to numerous international markets worldwide.

# EmbeddedSystems.do

https://embeddedsystems.do
contact@embeddedsystems.do

**Subsector**
Green technology

EmbeddedSystems.do is a Polish engineering company designing and developing advanced electronic and embedded systems for industry, IoT, medtech, and foodtech. It combines hardware, firmware, and software into reliable and production-ready systems. In the green technology sector, the company supports the development of energy-efficient devices, environmental monitoring systems, smart sensors, and solutions that reduce resource consumption and waste. It follows a partnership model from concept and prototyping to industrialisation and production scaling, focusing on durability, cost efficiency, and real technological impact.

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# EMKA Oil

https://emkaoil.pl
kontakt@emkaoil.pl

**Subsector**
Energy efficiency, Circular economy, Smart city

EMKA Oil is the company behind Ucollectors, a revolutionary system allowing municipalities, cities, and other public bodies to build convenient networks of collection points where residents can deposit used cooking oil (UCO) via dedicated oil collection machines. This will contribute to a significant increase in local and national recycling and waste recovery rates. Apart from the specialised machines, the system involves innovative reusable bottles, an interactive mobile application, logistics processes, recycling and reporting processes, as well as extensive educational and promotional activities.

# Energy5

https://energy5.pl/en/
biuro@energy5.pl

**Subsector**
Solar energy

Energy5 is a Polish manufacturer of photovoltaic structures with 11 years of experience and 7 GW of installed capacity across 15 countries. It specialises in PV structures, which are its core business. With annual revenues of 80 million euros and a production capacity of 1.5 GW, the company possesses the resources and expertise required to execute the most demanding PV projects.
Energy5 operates as a ONE-STOP SHOP, offering a comprehensive range of products and services – from design, through production, to installation. Thanks to its high credit rating and financial transparency, the company is a reliable partner in delivering large-scale projects on international markets.

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# Enetek Power Poland

https://www.pixii.com
sales.europe@enetek-power.com

**Subsector**
Energy efficiency, Energy Storage, Telecom & Industrial power supply

Enetek Power Poland delivers advanced power solutions with a strong focus on modern Battery Energy Storage Systems (BESS). A key part of its portfolio is the Pixii product line – modular, scalable energy storage built around smart power conversion and flexible, safe low-voltage battery blocks. Pixii-based systems help customers optimise self-consumption from renewables, reduce peak power costs, improve power quality, and provide reliable backup for commercial, industrial, and EV-charging applications.

# Enson

www.enson.pl
info@enson.pl

**Subsector**
Solar energy

Enson is a European manufacturer of PV mounting systems, combining engineering precision with a modern and deliberate approach to design. Its Mindful Design philosophy is based on data, research, and real project needs, enabling the delivery of structures that are safe, durable, and optimised for performance.
The company provides mounting systems for large-scale and commercial PV projects, tailored to specific investment requirements. Its modern production facility ensures full control over quality and manufacturing processes. As a proactive partner, Enson supports investors and installers from concept to installation, enabling confident and well-informed decisions at every stage of the project.

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# Enzeit Technik

https://enzeit.com/
office@enzeit.com

**Subsector**
Solar energy

Enzeit Technik is a European manufacturer of well-designed PV systems. By focusing on proprietary patented solutions and adapting them to specific customer needs, the company delivers high-quality mounting systems for photovoltaics.
The brand is part of the GTV Group, which has been successfully operating for over 25 years in many industries, both in Poland and on international markets. Long-term cooperation with installers in the field of professional tools and specialist workwear has led to a fresh and practical approach to PV technologies.

# Ergo Design

https://www.ergo.design
biuro@ergo.design

**Subsector**
Circular economy, Eco-design consulting

Ergo Design is a leading design and consulting studio delivering end-to-end product innovation – from R&D strategy and concept development to production and sustainable implementation. For over 30 years, it has supported SMEs, large organisations, and institutions as an external design and R&D partner, developing solutions that balance business objectives, user needs, and environmental responsibility. The company advises organisations on transforming their business models and products towards a circular economy, specialising in eco-design and embedding sustainability principles at every stage of the product lifecycle.

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# ESGO

www.esgo.com.pl
anna.gross@esgo.com.pl

**Subsector**
Marketing & PR

Esgo is a strategic PR and marketing consultancy focusing on construction and real estate. It supports developers, general contractors, and technology providers in building transparent communication and corporate reputation. The agency excels at translating complex technical and engineering concepts into impactful narratives that build market trust. Esgo specialises in strategic positioning within the media and industry circles, particularly in areas related to sustainability, energy efficiency, and innovation, ensuring that its clients' expertise reaches the right stakeholders effectively.

# Espro

www.espro.technology
biuro@espro.technology

**Subsector**
Solar energy, Wind energy, Geothermal energy, Energy efficiency, Smart city

Espro is a Polish engineering company supporting industry and public infrastructure in the green energy transition through innovative, low-emission electrical solutions. It designs, supervises, and delivers modern electrical installations, including low- and medium-voltage power networks, transformer stations, lighting systems, and photovoltaic installations – from micro-systems to large-scale PV farms. The company's comprehensive projects enable effective integration of renewable energy sources, improved energy efficiency, and a reduced carbon footprint. Espro provides turnkey solutions, investor supervision, and infrastructure optimisation in line with EU standards and sustainable development goals.

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# EXPROM

www.expom-eco-energy.com
eco-energy@expom.pl

**Subsector**
Solar energy, Wind energy

Expom Eco-Energy tests and implements modern, environmentally friendly solutions, building long-term relationships with its partners. Its guiding principle is a comprehensive approach, striving to ensure that every client is fully and professionally served. Expom remains available to its clients at all times, even after the completion, and takes care to maintain long-lasting relationships.
The company installs PV systems and wind turbines heat recovery ventilation (HRV) systems, air conditioning, and heating films. In addition, it supports clients in obtaining funding or subsidies for equipment to be installed. Expom assists in putting together the required documentation and in preparing applications for submission.

# Filters International

www.filters-international.com
office@filters-international.com

**Subsector**
Air quality

Filters International strives for perfection in many areas and on many levels. Since its founding, the company has continuously invested in the technological development of its production lines. As a result, Filters International can offer an ever-wider range of innovative air filters that meet the growing demands of its customers. It also specialises in custom-made projects tailored to the individual needs of each customer, from large corporations to smaller businesses looking for specific solutions.

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# Garden Spot Int.

www.gardenspot.pl
office@gardenspot.eu

**Subsector**
Vertical gardens

Garden Spot is the manufacturer of Pixel Garden, a modular and innovative system for creating living vertical gardens. In business for over a decade, the company's products have been well received on the international market. Pixel Garden sets new standards in space design, introducing freshness and vibrant green tones. The brand includes both ready-made products for commercial spaces, such as mobile or freestanding vertical gardens, and custom-made green walls tailored to customer expectations. The company also manufactures the Garden Grid lawn system, which is used in car parks, access roads and driveways while maintaining a biologically active surface.

# go&biogas

www.goandbiogas.com
office@goandbiogas.com

**Subsector**
Bioenergy, Biogas and Biomethane

go&biogas delivers turnkey biogas and biomethane projects, guiding investors from the initial idea through to the successful start-up of the plant. The company supports its clients at every stage of development – from site assessment and technology selection to the preparation of documentation and the securing of all required permits and approvals. Its technology partner, EnviTec Biogas, provides proven and innovative solutions for the biogas and biomethane sector. By combining strong project expertise with advanced technology, go&biogas implements reliable renewable energy projects tailored to local conditions and the specific goals of each investor.

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# Global Airline Services

https://gasbt.com/en/
info@gasbt.com

**Subsector**
Solar energy, Wind energy, Hydropower, Geothermal energy, Wind and Offshore tariffs, People logistics

Global Airline Services is a company that specialises in travel management solutions dedicated to the wind, offshore, and renewable energy sectors, directly supporting the development and operation of green technologies across Europe. Its services enable the efficient deployment of engineers, technicians or auditors to wind farms, offshore installations or solar projects. The company provides access to specialised “green energy” fares, optimises travel logistics to reduce costs and emissions, and offers proprietary tools for real-time fare comparison and automated generation of guarantee letters required for energy projects. Its expertise and dedicated solutions contribute to the scalability and efficiency of renewable energy operations.

# GRUPA INCO

https://www.inco.pl/
kontakt@inco.pl

**Subsector**
Circular economy, Biosanitization

GRUPA INCO is a Polish company with over 75 years of tradition, operating since 1947. It specialises in the production of household chemicals, garden fertilisers, eco-friendly cleaning products, and plastic packaging. The company develops green technologies, creating cleaning products based on natural ingredients that are safe for users and the environment. A key area of its activity is the production of Florovit biofertilisers and organic fertilisers, which support sustainable agriculture and natural biological processes. GRUPA INCO also invests in biotechnology, developing biodrying and biosanitisation technologies that align with the principles of the circular economy.

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# HAIER | REFSYSTEM

www.haier-ac.pl
haier@haier-ac.pl

**Subsector**
Air quality, Heat pumps – thermal energy

Haier AC Poland, represented by Refsystem, its general distributor in Poland, provides modern air conditioning and heat pump systems for residential and commercial buildings. The product portfolio includes split, multi-split, MRV, and energy-efficient heat pump systems designed for sustainable construction. Haier technologies ensure near-silent operation, intuitive control, and easy installation. The brand focuses on low-emission, future-ready solutions. All products come with a 5-year warranty and are supported by Refsystem, a trusted distributor with long-standing experience in the Polish HVAC&R sector.

# HANPLAST

www.hanplast.com
hanplast@hanplast.com

**Subsector**
Solar energy

Hanplast is a manufacturer of photovoltaic modules and photovoltaic roof tiles with HJT cells. Its production line is located in Bydgoszcz, Poland.
The company is a pioneer in photovoltaic modules using SmartWire, HJT, and bifacial technologies.

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# HEIKO

www.heiko.pl
heiko@heiko.pl

**Subsector**
Bioenergy, Energy efficiency, Air quality, Thermal energy

HEIKO, distributed by Iglotech, is a modern HVAC brand offering a comprehensive range of air conditioning, heat pump, and ventilation solutions for residential and commercial buildings. The portfolio includes split, multi-split, and mobile air conditioners, ventilation units, and energy-efficient heat pumps designed to meet essential comfort needs. HEIKO products combine quiet operation, intuitive Wi-Fi control, easy installation, and contemporary design while offering good value for money. The brand focuses on reliable, low-emission technologies using R32 refrigerant. All products are covered by a 5-year warranty and supported in Poland by Iglotech, a trusted HVAC&R distributor.

# HYDROPOLIS

https://www.hydro-polis.com/en/
info@hydro-polis.com

**Subsector**
Circular economy, Agritech

Hydropolis develops large-scale vertical farming technology combining hardware, software, and proprietary dynamic plant growth models. The system controls lighting, nutrients, and energy in real time, adapting conditions to each growth stage and significantly reducing energy use and labour costs. Hydropolis focuses on true farm profitability, delivering stable and predictable production. The technology is already commercially deployed for leafy greens and herbs, while fruiting crops are being developed in its R&D centre.

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# HYNFRA

www.hynfra.com
office@hynfra.com

**Subsector**
Solar energy, Wind energy, Energy efficiency, Hydrogen technologies, Circular economy, Water resources management

Hynfra is a Polish company specialising in project development, technology integration, and advisory services in the field of green hydrogen and green ammonia. Its key objective is to create comprehensive renewable energy solutions, including the decarbonisation of industrial processes, support for the transformation of district heating systems, and the implementation of large-scale projects for the chemical and energy industries. The company operates both domestically and internationally.

# IGLOTECH

www.iglotech.com
iglotech@iglotech.com

**Subsector**
Energy efficiency, Air quality

Your partner in green energy and climate comfort. Iglotech delivers top-tier solutions designed for energy independence. It offers a full range of high-performance systems, including air conditioning, air-to-water heat pumps, ventilation with heat recovery, and photovoltaics. The company's mission is to combine superior climate control with renewable energy sources, ensuring optimal indoor conditions and measurable savings. Whether for residential or commercial projects, Iglotech provides the technology needed for modern, low-emission buildings.

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# Innovation AG

www.innovation.ag
biuro@innovation.ag

**Subsector**
Electric commercial mobility solutions

Innovation AG is a Polish engineering company specialising in advanced electric mobility solutions and sustainable transport technologies. It designs and develops electric commercial vehicles and automotive platforms, leveraging innovative R&D and eco-friendly engineering to reduce carbon emissions in transport. The company's flagship project is the eVANPL electric van, built on its proprietary modular EAGLE platform, which delivers long-range performance and adaptability for a variety of commercial applications. With a strong engineering team and commitment to sustainable innovation, Innovation AG aims to lead the future of low-emission mobility in Poland and internationally.

# Institute of New Technologies in Environmental Engineering

https://en.int.edu.pl/
dyrektor@int.edu.pl

**Subsector**
Climate Adaptation & Resilience, Water & Wastewater

The Institute of New Technologies in Environmental Engineering (INTIŚ) develops and implements innovative GreenTech solutions at the interface of environmental engineering, biotechnology, and nature-based solutions. The Institute specialises in water and wastewater treatment, stormwater management, blue–green infrastructure, and climate adaptation technologies for municipalities and public institutions. INTIŚ integrates biological processes with engineered systems to support the circular economy, resource efficiency, and ecosystem regeneration, offering applied R&D, technology validation, and implementation support aligned with EU environmental and climate policies.

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# IOZE hydro

https://hydro.ioze.pl/
info@ioze.pl

**Subsector**
Hydropower

IOZE hydro is part of the IOZE group and designs, manufactures, assembles, and commissions complete hydro sets. It offers modern, highly efficient turbines in various types of construction individually designed for a specific location. The company provides competitive and cost-effective solutions for micro and small hydropower plants. It also provides complete and comprehensive solutions for hydropower investments, from potential assessment through investment process management and technology delivery to project implementation. IOZE hydro follows the motto “turn water into profit”’, and we know how to implement it while respecting the natural environment.

# Izodom 2000 Polska

www.izodom.pl
izodom@izodom.pl

**Subsector**
Energy efficiency

IZODOM's construction system provides an affordable and scalable solution for low-carbon housing. Based on recyclable insulation materials designed to minimise $CO_2$ emissions throughout the building life cycle, the ICF formwork replaces traditional masonry, eliminating thermal bridges and enabling Passive House-level energy efficiency. Thanks to excellent insulation and airtightness, IZODOM buildings can reduce heating and cooling energy demand by up to 90%, significantly lowering lifetime emissions. The system supports circular economy principles through durability, material reuse, and minimal waste. Designed for speed and simplicity, the technology significantly reduces labour time and costs.

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# Kabar

https://www.kabarpol.pl/
biuro@kabarpol.pl

**Subsector**
Solar energy, Geothermal energy, Energy efficiency, Hydrogen technologies, Water resources management

Kabar is a construction technology company specialising in the comprehensive execution of MEP (mechanical, electrical, and plumbing) installations, energy storage, and photovoltaic systems. Its services are designed to meet key market challenges related to sustainability, including ESG goals and decarbonisation. Over the past 10 years, Kabar has completed more than 350 comprehensive MEP projects for industrial, logistics, and public utility facilities. Services:

- Kabar MEP: mechanical, electrical, and plumbing installations
- Kabar ESCO (Energy Saving Company): energy efficiency consultancy and investment financing
- Kabar H2: hydrogen technologies

# KLIMA-THREM

www.klima-therm.com
sekretariat@klima-therm.com

**Subsector**
Solar energy, Energy efficiency, Air quality

The Klima-Therm Group has been an active member of the HVACR industry for nearly 30 years. The company focuses on providing air conditioning, ventilation, and heating systems for both professional and individual use. It is actively expanding its activities in renewable energy (RES), focusing on heat pumps as the foundation of the heating electrification process.
The competitive advantage of the Klima-Therm Group is its business model, combining the production and distribution of a wide portfolio of devices.
Its priorities are air quality and comfort – in offices, homes, and all spaces where people live and work.

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# KM Grom

https://viatasolutions.eu, https://kmgrom.pl/
biuro@kmgrom.pl

**Subsector**
Solar energy, Smart city

KM Grom is a Polish manufacturer of light protection systems and photovoltaic constructions (with its own photovoltaic carport brand, Viata Solutions):
- over 10 years of a stable, prominent market position
- wide range of its own certified solutions – both in lightning protection and support structures for photovoltaic systems
- its own stable production facilities located in central Poland, with an in-house design and implementation department
- openness to European and Middle Eastern markets – unique implementation and design support
- support for scalable projects
- ignificant technical knowledge based on experience

KM Grom – LPS (Light Protection Systems) / Viata Solutions – Photovoltaic Carports and Support Constructions

# Konstrubowski engineering

https://konstrubowski.pl/english/
biuro@konstrubowski.pl

**Subsector**
Bioenergy, Energy efficiency, Circular economy

Konstrubowski is a mechanical engineering office that bridges the gap between theory and industry. It stands out by taking full responsibility for the hardware, delivering complete, custom-built machinery rather than just designs.
With a focus on engineering and thermal energy recovery, the team validates every project through rigorous simulations. Optimal performance is ensured before manufacturing and delivery of the finished equipment.
Core competencies:
Projects: design of machines for WtE, heat recovery, and mining
Custom machinery: delivery of heat recovery systems
Simulation: advanced CFD and multiphysics calculations
R&D: development of gasification technologies (H>TG)

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# Laboratory of Geoenergetics AGH

www.geotermia.agh.edu.pl
sliwa@agh.edu.pl

**Subsector**
Geothermal energy, Energy efficiency, Smart city

AGH Laboratory of Geoenergetics was established in 2008 at the Faculty of Drilling, Oil and Gas, AGH University of Krakow, and from the outset has conducted scientific research and specialist analyses in the field of geothermal energy, with particular emphasis on borehole heat exchangers. Topics related to geothermal energy were already being explored at the Faculty of Drilling, Oil and Gas before the Laboratory was established, mainly concerning the accessibility and management of geothermal waters. The first measurements of borehole heat exchangers were carried out as early as 2008. See the research offering of the AGH

# M.A.S.

https://mas-sp.pl/
info@mas-sp.pl

**Subsector**
Energy efficiency, Circular economy, Energy recovery, Heat recovery

M.A.S. is a Polish manufacturer and engineering company specialising in refrigeration and energy recovery (electricity, heat, and cooling), with its head office in Starachowice. With more than 30 years of industry experience, it has completed hundreds of successful projects for domestic and international clients. The company specialises in the design and manufacture of energy-efficient refrigeration equipment and systems, industrial heat pumps, energy recovery systems, and innovative energy storage and adsorption refrigeration units. Production is based on M.A.S.'s unique technical and design solutions, and each project is approached individually.

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# MARANI

www.marani.pl
kontakt@marani.pl

**Subsector**
Geothermal energy, Bioenergy, Energy efficiency, Circular economy, Air quality, Smart city, Waste & Process, Heat Management

Marani is a technology leader in waste and process heat management, delivering advanced solutions that convert excess thermal energy into valuable outputs such as electrical power through ORC (Organic Rankine Cycle) systems or chilled water via Jet Chiller technology.
Marani's solutions provide measurable benefits, including significant energy cost savings and a tangible decarbonisation impact, supporting industrial companies in achieving higher energy efficiency and sustainability goals.
The Marani ORC and Jet Chiller systems are designed as a direct response to evolving market needs, enabling optimised heat management with predictable, reliable, and long-term performance benefits.

# Mazovia Energy Agency

https://www.mae.com.pl/
biuro@mae.com.pl

**Subsector**
Bioenergy, Energy efficiency, Circular economy, Air quality, Smart city

Mazovia Energy Agency (MAE) is a regional institution supporting sustainable energy development in the Mazovian Voivodeship. Its mission is to promote renewable energy sources, improve energy efficiency, and encourage environmentally responsible energy use. MAE assists local governments, small and medium-sized enterprises, and consumers through energy consultancy, audits, training, and project implementation. The Agency supports regional energy planning, technology transfer, and access to financing, while monitoring energy market developments and promoting innovative, low-emission energy solutions that contribute to environmental protection, economic growth, and regional energy security.

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# Metalerg

www.metalerg.pl
metalerg@metalerg.pl

**Subsector**
Bioenergy, Energy efficiency, Circular economy

MetalERG is a Polish engineering and manufacturing company specialising in biomass-fired boilers and hot air generators, primarily designed for straw and other agricultural biomass. The company delivers high-efficiency systems for district heating, industry, and agriculture, with thermal capacities ranging from several hundred kW to multiple MW. MetalERG provides complete solutions, including fuel handling, combustion systems, flue gas cleaning, automation, and thermal energy storage systems, ensuring stable, safe, and low-emission operation. All installations are engineered individually to maximize energy efficiency, reliability, and long-term performance.

# MH.energy

https://mh.energy
biuro@mh.energy

**Subsector**
Energy efficiency, Hydrogen technologies, Circular economy, Smart city

MH.energy conducts detailed analyses of the hydrogen market to help companies understand the opportunities and challenges facing the industry. It analyses trends, technologies, competition, and investments – providing a clear picture of the opportunities and threats. MH.energy offers training and workshops in green skills – competencies for a low- and zero-emission economy, including hydrogen. The training courses and workshops are tailored to the needs of each company and aim to provide practical knowledge on the decarbonisation of the economy.

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# Mitsubishi Electric

www.mitsubishi-les.pl
kontakt-les@mpl.mee.com

**Subsector**
Geothermal energy, Energy efficiency, Air quality, Smart city

Mitsubishi Electric is a company that manufactures and distributes electric and electronic equipment, operating in many segments, including infrastructure, industry, and mobility. In Poland, Mitsubishi Electric is actively engaged in the fields of renewable energy and energy efficiency. The company offers a wide range of solutions and devices that help reduce energy consumption and support efforts to improve air quality. These include heat pumps, energy-efficient air conditioning systems, and integrated system solutions designed to lower energy use while minimising their environmental impact. In Poland, the company has approximately 300 employees and operates in five cities.

# Mobile Monitoring

www.mobilemonitoring.pl
kontakt@mobilemonitoring.pl

**Subsector**
Water resources management

Mobile Monitoring is a technology company based in Gdańsk that develops autonomous monitoring systems for ports, industrial sites, and waterside infrastructure. It designs and deploys solutions for the continuous surveillance of harbours, quays, terminals, and industrial facilities, combining environmental sensors, AI-powered cameras, and cloud-based data analytics. The company's technologies support ports and industrial operators in detecting pollution, oil and fuel leaks, and unauthorised activities, helping to reduce the environmental impact of such operations while improving operational safety and regulatory compliance.

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# Municipal Water and Sewage Company Wroclaw

https://www.mpwik.wroc.pl/
mpwik@mpwik.wroc.pl

**Subsector**
Bioenergy, Energy efficiency, Circular economy, Water resources management, Smart city

Wrocław's Municipal Water and Sewage Company (MPWiK) is an innovation leader in the water and sewerage sector, combining 150 years of tradition with a modern commitment to the environment. The company uses advanced green technologies that minimise energy consumption in water production and wastewater treatment, facilitate biogas production, and reduce water losses in the supply network. These measures significantly lower the city's carbon and water footprint. MPWiK, a modern enterprise that integrates green technologies into all aspects of its operations, actively promotes the circular economy and environmental education through its Hydropolis Environmental Education Center.

# Myropes

https://www.myropes.pl/
a.pugacewicz@myropes.pl

**Subsector**
Wind energy

Myropes provides wind turbine blade maintenance and repair services using rope access techniques to ensure structural integrity and operational efficiency. The scope of the company's work includes the repair of all types of laminate cracks, leading edge reconstruction and protection, and comprehensive inspections alongside LPS measurements. Myropes' team consists of technicians with international certifications. They follow rigorous safety protocols and technical standards to deliver precise, reliable results for all blade maintenance requirements.

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# NAVIC Engineering Polska

www.navic.pl
biuro@navic.pl

**Subsector**
Wind energy, Bioenergy, Energy efficiency, Hydrogen technologies, Circular economy, Air quality

The mission at Navic is to support customers in their green transition by improving energy efficiency, reducing energy and material consumption, and limiting emissions at their installations. As an independent design office with a strong technology team, the company offers solutions based on more than 20 years of industrial experience combined with the latest market innovations. Its projects are customer-tailored, with a focus on cost, time, and resource efficiency. Navic provides comprehensive support from feasibility studies through detailed design to start-up and commissioning, including full assistance with administrative decisions and required third-party approvals.

# NCT

www.nct.global
info@nct.global

**Subsector**
Energy efficiency, Smart city

NCT is a leading Polish manufacturer of innovative solutions based on composite technologies. The company began its operations as Alumast and in 2008 launched the first production line for composite lighting poles in Poland. In 2023, the company adopted the name NCT (New Composite Technologies), highlighting its strategic focus on advanced materials, safety, and sustainable development. NCT designs and manufactures composite poles with passive safety features, telecommunication and power poles, active and safe pedestrian crossings, electric vehicle charging stations, as well as pultruded meshes, rods, and profiles.

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# Neovent

www.neovent.pl
neovent@neovent.pl

**Subsector**
Circular economy, Air quality

Neovent is a specialised manufacturer dedicated exclusively to mechanical ventilation with heat recovery. It understands that modern, green buildings require intelligent airflow management to minimise energy loss. The company's advanced Heat Recovery Ventilation (HRV) units are designed to ensure constant fresh air while retaining thermal energy, significantly reducing heating demands. By focusing solely on air handling technology, it delivers reliable, high-efficiency systems that are essential for low-emission construction and healthy indoor environments.

# Net4Zero

www.net4zero.com
office@net4zero.com

**Subsector**
Circular economy

Net4Zero is a company that develops and implements innovative business models for the circular economy, deposit-return systems, and environmental infrastructure. It combines technology, data, and field operations to build scalable, legally compliant, and economically viable solutions for local governments, cooperatives, retail chains, and private partners. The company operates based on real-world market validation, hard data, and collaborative partnership models. Net4Zero's goal is to create systems that tangibly reduce the environmental footprint while generating stable business value.

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# NIBE-BIAWAR

www.biawar.com.pl
sekretariat@biawar.com.pl

**Subsector**
Energy efficiency, HVAC

NIBE-BIAWAR is one of Poland's leading manufacturers of modern heating solutions. The year 2026 marks a milestone: 25 years of the NIBE brand on the Polish market, symbolising consistent development in sustainable energy.
In 2000, NIBE-BIAWAR joined the Swedish NIBE AB Group, one of Europe's leading companies in energy-efficient technologies, combining Polish expertise with advanced global solutions. In 2001, the company launched NIBE heat pumps in Poland, which quickly became the core of its portfolio.
The company's product range includes NIBE ground source, air source, and exhaust air heat pumps, as well as hot water tanks, buffer tanks, and water heaters under the BIAWAR brand.

# Niezależna Firma

www.niezaleznydom.pl
biuro@niezaleznydom.pl

**Subsector**
Solar energy, Geothermal energy, Energy efficiency

The companies Niezależna Firma and Niezależny Dom trace their roots to PPIK, founded in 2009. They draw on decades of expertise in designing intricate mechanical systems, advanced ventilation, cooling, and heating solutions, energy recovery technologies, construction oversight, technical advisory, and in-depth profitability assessments for industry leaders and major enterprises. Both companies, one focusing on services for businesses, the other for homes, excel in HVAC and photovoltaics.

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# Nueva Terrain Polska

https://www.nuevaterrain.pl/
biuro@nuevaterrain.pl

**Subsector**
Sustainable system for water and heating installation

Nueva Terrain Polska offers the Terrain SDP system for water and heating installations, made from polybutylene (PB-1), regarded by TEPPFA as one of the most durable materials. Research conducted by the Flemish Institute of Technology VITO and the Technical University of Berlin clearly demonstrates that Terrain SDP meets the criteria of a sustainable product and fits seamlessly into modern sustainable construction projects.
As companies seek to reduce $CO_2$ emissions and other pollutants, Nueva Terrain offers the Terrain SDP system, which delivers excellent performance in this respect. Terrain SDP has been in production since 1982 and has never exhibited defects. Backed by a warranty of up to €2 million.

# OMIS

www.omis.pl
omis@omis.pl

**Subsector**

Bioenergy, Energy efficiency, Circular economy, Waste-to Energy, Air quality, Waste-to Energy, Skids & Stainless steel elements

OMIS is a privately owned Polish company, established 25 years ago, active across the EU and delivering worldwide. It specialises in the industrial design, manufacturing, and assembly of large-scale steel structures, technological equipment, and the integration of complex solutions for the green energy industry and other sectors. OMIS is a team of qualified and experienced specialists, including 70 engineers, industrial designers and project managers, and a prefabrication and mounting team. The company has its own design office, three manufacturing plants (with a capacity of 1,000 tonnes per month, including skids and stainless steel), and storage facilities. It also offers mounting services with a focus on supporting the green energy transition.

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# ONHSR

www.onhsr.com
contact@onhsr.com

**Subsector**

Energy efficiency, Smart city, Efficient management of hybrid heating systems

ONHSR.COM is a platform that integrates and efficiently manages hybrid heating and cooling systems in residential and commercial buildings. It connects multi-brand devices (e.g. heat pumps, gas boilers, district heating) into a single, coherent control layer. Using proprietary algorithms, it optimises system operation to reduce energy costs and $CO_2$ emissions while improving user comfort. It provides real-time monitoring, automation, and service and maintenance support – helping installers, developers, and energy companies ensure safety and operational continuity. It speeds up response times, reduces downtime, and improves the predictability of operating costs.

# Organic Polska

www.organicpolska.com
biuro@organicpolska.com

**Subsector**
Circular economy

Organic Polska has designed and produced corrugated cardboard packaging solutions since 2009 to support the circular economy. It meets the requirements of demanding industries, including Tier 1 automotive suppliers, food processing companies, and biotechnology businesses. The company's single-material product range includes cardboard IBC containers, pallets, heavy-duty cases, octabins, stabilising elements, and cardboard packaging kits. Organic Polska's solutions help partners reduce packaging weight, replace less environmentally friendly materials such as EPS and wood, reduce damage, simplify packaging processes, improve space utilisation, and facilitate waste sorting. The company also offers reusable corrugated cardboard products.

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# Petroster-Serwis

www.petroster-serwis.pl
biuro@petroster-serwis.pl

**Subsector**
Hydrogen technologies, Smart city, Fuel safety, Environment protection for industry

Petroster-Serwis is a Polish engineering and manufacturing company that develops environmental protection technologies for the fuel and industrial sectors. The company designs and produces advanced systems for leak detection, liquid level measurement, vapour monitoring, and safety automation, helping operators prevent soil and groundwater contamination. Petroster-Serwis supports fuel stations, depots, and industrial facilities with compliant, reliable solutions aligned with environmental regulations and international standards, while also providing installation, modernisation, calibration, and long-term service and maintenance to ensure safe and sustainable operation.

# Polish Recycling Corporation (PKR)

https://pkrecykling.pl/
info@pkrecykling.pl

**Subsector**
Circular economy

The Polish Recycling Corporation (PKR) is one of the largest and most modern waste electrical and electronic equipment (WEEE) processing facilities in Poland, actively working to protect the environment and promote sustainable development. By recycling WEEE, it recovers valuable raw materials and creates innovative products that are reintroduced to the market, reducing the burden on the environment. Through the Greenway Polymers product line (Re-Absorbent Oil – 100% recycled sorbent and regranulates), PKR actively implements the EU Action Plan for the Circular Economy, contributing to the sustainable use of resources and protecting the environment for future generations.

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# Power LAB

www.powerlab.com.pl
office@powerlab.com.pl

**Subsector**
Solar energy

Power LAB manufactures all of its products in Poland, with no imported components. The company specialises in designing and producing high-quality energy storage systems, including outdoor and indoor cabinets, circuit breakers, and batteries. Based in Warsaw, it has been providing reliable and innovative solutions for renewable energy and energy management since 2015.

# PROCOM SYSTEM

www.fishprotection.eu
biuro@procomsystem.pl

**Subsector**
Hydropower, Water resources management

PROCOM SYSTEM, as the manufacturer and developer of the NEPTUN system, offers an innovative fish protection solution for hydropower plants, combining high efficiency with environmental safety. The system uses a controlled, non-linear electric field with increasing intensity to guide fish away from hazardous areas such as water intakes and turbines. NEPTUN reduces fish mortality, supports compliance with environmental regulations, enhances the environmentally responsible image of hydropower facilities, and helps limit operational downtime and costs. The company's portfolio also includes acoustic systems and bubble barriers, enabling adaptation to local hydrotechnical conditions.

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# Projekt99

www.powerstar.com.pl
info@powerstar.com.pl

**Subsector**
Solar energy

Projekt99 is the inventor of an innovative photovoltaic fire protection system. Its P99 fire detection and extinguishing system, designed for rooftop PV installations, effectively detects and prevents the spread of fire on buildings. This innovative solution mitigates the fire risk associated with photovoltaic installations and is designed to protect PV infrastructure and the buildings on which it is installed. The system comprises an analogue-digital early fire detection system and a water-mist extinguishing system. The water-mist system is designed for high-voltage photovoltaic installations. The system can be installed in new or retrofit applications and can be easily integrated with existing fire protection systems.

# PROMAR

www.imperius.pl
poczta@promar.com.pl

**Subsector**
Smart city

Since 1994, Promar has been a driving force in the engineering sector, combining three decades of technical expertise with modern innovation. It specialises in enhancing building efficiency through advanced technology and expert consultancy. At the core of its offering is imperius, a proprietary cloud platform that leverages artificial intelligence to revolutionise resource management. The platform provides real-time optimisation of critical building systems, including:

– Heating, Cooling and Ventilation (HVAC)
– Electricity
– Water supply

Beyond software, Promar delivers comprehensive expert services for building installations, ensuring that physical infrastructure is properly aligned with system requirements.

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# PRONAR

https://pronar-recycling.com/pl/
recykling@pronar.pl

**Subsector**
Circular economy, Smart city, Circular economy, Smart city

Pronar is a Polish manufacturer with over 35 years of experience. In its nine factories, the company designs and produces machinery including shredders, screeners, windrow turners, mobile conveyors, crushers, and stationary processing lines for municipal, industrial, and green waste. The company also operates its own R&D centre, where over 200 skilled engineers ensure the highest product quality and develop new technologies. It also runs an exhibition centre displaying its machines and innovations. Serving customers across Europe and around the world, Pronar delivers reliable solutions for sustainable material recovery and the circular economy, guided by the motto: “Technology for Nature”.

# PROTE Technologies for our Environment

www.prote.pl
prote@prote.pl

**Subsector**
Water resources management, Site assessment and remediation

A clean, healthy, and sustainable environment requires special care and protection. Using appropriate tools and advanced technologies, PROTE combats environmental threats and effectively tackles pollution. For over 30 years, the company has been striving to improve soil and water quality in Poland and around the world. Its mission is to restore degraded land and aquatic environments. PROTE helps restore the usability of land and water bodies. The company also ensures safe and good-quality drinking water for over 10 million consumers. The need to balance the development of civilisation with the  protection of the natural environment is what drives PROTE.

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# PTC Artur Szreder

www.ptcas.pl
info@ptcas.pl

**Subsector**
Circular economy

With 25 years of experience in the plastics recycling market, PTC delivers high-quality machinery for plastics processing and advanced circular economy solutions.
The company also produces a unique paving block made from 100% recycled plastics, giving hard-to-recycle waste a second life. Modular, durable, and reusable, it withstands loads of up to 10 tonnes per module. It is also resistant to UV, moisture, and temperature changes and meets UL94 HB fire standards.
Lightweight, permeable variants that are easy to install and dismantle support rainwater retention, biologically active surfaces, and sustainable urban infrastructure, making them ideal for walkways, roads, parking areas, and heavy-duty logistics or industrial yards.

# RAWICOM

https://www.rawicom.pl/en/
info@rawicom.pl

**Subsector**
Solar energy, BESS

RAWICOM Group is a Polish company operating in the green technologies sector, delivering comprehensive solutions for photovoltaic investments. Since 2006, RAWICOM has been active as a general contractor for utility-scale and rooftop PV projects, a renewable energy developer, a manufacturer of PV mounting systems, and a provider of O&M services. The Group has delivered over 3 GW of installed capacity across more than 4,800 projects in Poland and other European markets, supporting the energy transition with reliable, scalable, and sustainable solutions for investors, industry, and public-sector partners.

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# Research and Development Centers of the University of Zielona Góra

https://cbr-uz.pl/
kontakt@cbr-uz.pl

**Subsector**
Solar energy, Wind energy, Energy efficiency, Circular economy, Smart city

CBR UZ — Innovation 360°: From Idea to Implementation
The Research and Development Centres of the University of Zielona Góra (CBR UZ) support companies in implementing innovations faster, more effectively, and with minimal risk. As the largest technology park in the region, CBR UZ offers nearly 40 labs, expert teams, and modern infrastructure across green technologies, health, and digital solutions. Through its programmes – CBR UZ Green Technologies, Health and Quality of Life, and Start-Up Tech – it helps start-ups and established firms develop sustainable, innovative products, optimise processes, and scale their businesses through strong scientific and business networks.

# SEEDIA

https://seedia.city
office@seedia.city

**Subsector**
Solar energy, Wind energy, Energy efficiency, Circular economy, Smart city

SEEDiA is a Polish technology company founded in 2016 that develops solar-powered solutions for sustainable urban mobility. It designs and implements smart infrastructure such as solar benches, info-kiosks, bus shelters, charging stations, and the world's first solar electric bike rental station. Its clients include cities, municipalities, hotels, office buildings, and shopping centres. Its patented energy management system, based on weather forecasts and device prioritisation, means that SEEDiA's systems operate reliably year-round. The company is active in 25 markets worldwide, helping cities transition toward greener and more efficient transport systems.

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# SENSE Software

https://www.sensesoft.eu/
info@sensesoft.eu

**Subsector**
Solar energy, Energy efficiency, Smart city

SENSE Software is a software development company specialising in systems that support the commercial use of thermal imaging technology. Its software is used across multiple industries for monitoring and inspection processes focused on safety, efficiency, and quality control. The company is a key software provider for Teledyne FLIR, a global leader in thermal imaging cameras, delivering the Thermal Studio platform to its users.
Its latest AI-powered solution, PV SENSE, automates inspections of photovoltaic power plants using drones and thermal cameras to detect and document solar module anomalies that reduce energy output and increase fire risk.

# Stacjomat

www.stacjomat.pl
kontakt@stacjomat.pl

**Subsector**
Solar energy, Wind energy, Energy efficiency, Hydrogen technologies, Smart city, Electrimobility, charging station, Energy Storage

Stacjomat is a Polish company operating in the electromobility and renewable energy sectors. The company delivers end-to-end EV charging solutions, encompassing the sale, design, installation, operation, and maintenance of AC and DC charging stations for public and commercial use. Stacjomat also develops and manufactures energy storage systems in Poland, provides land sourcing and delivery services for energy storage and wind power projects, and offers ready-to-build (RTB) renewable energy projects to investors and developers. The company supports sustainable energy infrastructure development across Europe.

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# Stowarzyszenie Energetyki Obywatelskiej Ziemi Świdnickiej

www.klaster.swidnica.pl
biuro@energetykaobywatelska.ngo

**Subsector**
Solar energy, Wind energy, Bioenergy, Energy efficiency, Circular economy

Stowarzyszenie Energetyki Obywatelskiej Ziemi Świdnickiej (Association for Civic Energy of the Świdnica Region) is a voluntary association of local self-government units in the Świdnica Poviat and interested legal entities. The Association aims to support local self-government, represent and promote shared interests, and contribute to their development. It seeks to build a local energy market based on environmentally friendly energy production technologies and the efficient use of local energy resources, with the objective of making Świdnica Poviat as self-reliant as possible in terms of external energy supplies.

# SWE

www.swenergia.pl
info@swenergia.pl

**Subsector**

Solar energy, Hydropower, Energy efficiency, Composite structural systems for photovoltaic

SWE is a specialised manufacturer of glass fibre reinforced composite support structures for photovoltaic installations. The company develops proprietary structural systems that are fully resistant to corrosion, moisture, UV radiation, and aggressive environments, ensuring long-term stability and operational safety. SWE's composite structures are a durable alternative to steel and aluminium, reducing maintenance needs and environmental impact over the full life cycle. The systems are used in rooftop, ground-mounted, PV carport, and floating applications and comply with applicable technical standards and TÜV certification requirements, ensuring a long service life.

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# SYMBIONA

www.symbiona.com
box@symbiona.com

**Subsector**

Bioenergy, Circular economy, Wastewater treatment, Biogas, Nutrients recovery

Symbiona provides technologies and turnkey solutions for wastewater treatment, biogas production, and water reuse. It specialises in circular economy systems that transform wastewater into energy and resources. The company's proprietary, award-winning technologies, including AnoxyMem® anaerobic MBR, the game-changing anaerobic DIGEFLO®, and the ROVAPO® ZLD with its own low-energy EVAPO® evaporation units, achieve up to 99% organic removal and 98% water recovery. With over 30 years of expertise, Symbiona helps clients around the world reduce their carbon footprint and costs while meeting strict environmental standards. From waste-to-energy to high-rate anaerobic reactors, the company delivers scalable, sustainable infrastructure for a cleaner planet.

# T4B

www.t4b.com.pl
biuro@t4b.com.pl

**Subsector**
Energy efficiency, Water resources management, Smart city

Integrated water resource management and power quality systems are key to efficient, safe, and sustainable infrastructure development. T4B specialises in the design and integration of advanced solutions for monitoring water levels, flows, and the condition of hydrotechnical facilities, using sensors, GPS, telemetry, and data analytics. In the energy sector, it provides systems for detecting and eliminating power supply disturbances such as voltage fluctuations, harmonic distortion, and signal irregularities. T4B also improves power quality from renewable energy sources. The company's technologies enhance safety, stability, and efficiency in resource management, regardless of location.

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# Termoplan

www.termoplan.pl
biuro@termoplan.pl

**Subsector**
Solar energy, Geothermal energy, Energy efficiency, Circular economy, Air quality, Smart city

Termoplan is a Polish engineering and advisory company supporting energy clusters and business support institutions in the field of energy efficiency and green technologies. The company delivers energy audits, strategic energy planning, feasibility studies, and technical expertise for projects based on renewable energy sources, including heat pumps, photovoltaic systems, energy storage, and smart energy management. Termoplan cooperates with local governments, clusters, and enterprises, supporting coordinated energy transition projects, access to public and EU funding, and compliance with regulatory frameworks, including hybrid gas–heat pump energy systems in line with the EPBD.

# The Charging Company

https://thecharging.company
charge@thecharging.company

**Subsector**

Solar energy, Wind energy, Energy efficiency, Hydrogen technologies, Circular economy, Water resources management, Smart city, Energy exchange, Energy & Carbon financial assets

The Charging Company seeks a future in which artificial intelligence and modern technology operate with zero emissions. The company is revolutionising the tech landscape by developing cutting-edge energy-efficient solutions, harnessing renewable energy, and deploying advanced wireless power distribution systems. Its mission is to decouple technological growth from environmental impact, proving that a sustainable ecosystem is essential for progress. As architects of transformation, the Charging Company combines innovation with green energy to reshape industries. It invites partners to join forces in shaping the future – creating a world where disruptive technology and sustainability thrive together.

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# The Polish Cleaner Production Movement Association

https://www.cp.org.pl/
biuro@cp.org.pl

**Subsector**

Energy efficiency, Circular economy

The Polish Cleaner Production Movement Association is a non-profit NGO promoting the Cleaner Production (CP) strategy – a preventive, integrated environmental approach that improves efficiency, reduces risks, and supports sustainable innovation. Founded in 1989 within UNEP's CP World Programme, the Association implements the Polish Cleaner Production Programme and delivers education to companies through the Cleaner Production Academy, along with publishing, information, consulting, and implementation activities.
The Association manages the Polish Register of Cleaner Production and Responsible Entrepreneurship and the Register of Cleaner Production Certificates, and brings together environmental experts, practitioners, and scientists.

# The Polish Economic Chamber of Renewable and Distributed Energy PIGEOR

www.pigeor.pl
ewa.krasuska@pigeor.pl

**Subsector**
Solar energy, Wind energy, Bioenergy, Energy efficiency, Renerwable energy, Biogas, Biomethan, Electricity

For 20 years, the Polish Economic Chamber of Renewable and Distributed Energy (PIGEOR) has been shaping the future of renewable energy in Poland. Founded in 2004, it was registered as a chamber of commerce and represents the renewable and decentralised energy sector across multiple technology areas, with broad expertise in the energy transition. The Chamber encompasses wind, solar, biogas, biomethane, BESS, and grid technologies. PIGEOR is an active member of the European Renewable Energy Federation and the European Biogas Association. It advocates for a renewable energy favorable legal framework, as well as organising business meetings and networking. PIGEOR is the first point of contact for renewable energy in Poland.

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# ThreeRe

www.threere.pl
rafal.molak@threere.pl

**Subsector**
Advanced surface engineering/Cold Spray technology

ThreeRe is a technology-oriented company specialising in Cold Spray surface engineering for the repair, regeneration, and functional coating of metallic components. The company provides material-efficient alternatives to component replacement by extending the service life of industrial parts used in energy and heavy industry, including wind energy. Cold Spray enables solid-state deposition without melting, thereby reducing energy consumption, thermal impact, and material waste compared to conventional repair methods. This supports the circular economy and results in a smaller environmental footprint.

# T-Master

www.t-master.com
biuro@t-master.com

**Subsector**
Smart city, Waste management

The Individual Waste Segregation System (SISO) is a proprietary solution developed by T-Master for multi-unit residential buildings, eliminating collective responsibility for improper waste sorting. The system enables individual billing of residents based on the weight and type of waste generated. It uses containers with automatic lids that open after scanning a QR code placed on the waste bag. Each bag is weighed and assigned to a specific household account, allowing precise monitoring of waste quantity and quality through the mOdpady application. Since 2019, SISO has been successfully implemented in multi-dwelling buildings, supporting cities, municipalities, and housing cooperatives.

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# TRACELY

https://eslog.io
contact@eslog.pl

**Subsector**
Data logger

Eslog is an advanced temperature and humidity sensor system designed for monitoring the storage and transportation conditions of products that require strict environmental control. It provides precise temperature and humidity tracking at the package level, making it ideal for industries such as food, pharmaceuticals, biotechnology, and chemicals. Data is accessed using NFC technology via a mobile application available on iOS and Android, allowing users to retrieve detailed temperature and humidity logs quickly and effortlessly. By enabling accurate data collection and easy access to historical records, Eslog helps maintain product integrity and prevent food waste.

# Tweetop

www.tweetop.pl
biuro@tweetop.pl

**Subsector**
Air quality

Since 2014, Tweetop's product range has included air-to-water heat pumps for space heating and domestic hot water. For over five years, the offering has been expanded to include EcoVent Recu heat recovery units with capacities of 350, 450, and 600 $m^3/h$, equipped with high-quality cross-flow heat exchangers, reliable fans, and an intuitive control system. More recently, decentralised heat recovery units for industrial applications have been added to the company's product portfolio.
The company's product range also includes:
– the Tweetop System, designed for internal water and heating installations and based on multilayer pipes
– the Tweetop SmartHome underfloor heating control system

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# UFraction8

https:www.ufraction8.pl/
info@ufraction8.com

**Subsector**
Circular economy, Water resources management, BioTech

uFraction8 is a biotechnology company that develops energy-efficient, scalable microfluidic technologies for the separation of cells and particles from liquids. Its innovative systems are designed to replace traditional centrifugation, significantly reducing energy consumption and operational costs. The company's technologies support the scaling of bioprocesses from laboratory to industrial production. uFraction8 works with partners across biotechnology, pharmaceuticals, and bio-manufacturing to enable more sustainable and efficient downstream processing.

# UNDERSUN

www.undersun.pl, www.undersun.pl/hurtownia
biuro@undersun.pl

**Subsector**
Solar energy

Undersun is a Polish wholesaler of modern energy solutions, specialising in photovoltaic systems and energy storage. The company provides proven PV equipment for installers, enterprises, and business clients. Its product portfolio includes photovoltaic modules, inverters, energy storage systems, and accessories, carefully selected for real operating conditions and investors' needs. Undersun focuses on quality, availability, and reliable technical support at every stage of a project, supporting the development of efficient and reliable renewable energy installations in Poland.

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# Waste24

https://waste24.net
l.kaminski@waste24.net

**Subsector**
Waste managment

Waste24 is a modern technology company operating in the field of waste management and municipal services. It designs and develops advanced digital platforms, including e-commerce and SaaS systems that streamline the processes of ordering, managing, and providing waste services. The company works with enterprises, local governments, and individual customers, supporting them in digitising processes and optimising costs. Waste24's goal is to create innovative tools that promote effective and sustainable waste management.

# Waterly

https://waterly.eu
contact@waterly.eu

**Subsector**
Circular economy, Water resources management, Smart city

Waterly is a Polish greentech company offering real-time AI-powered monitoring of water quality. Its autonomous buoys, equipped with smart sensors and connected to a cloud-based platform, support early detection of pollution, efficient water management, ESG reporting, and environmental protection. The technology is used by municipalities, industry, fish farms, and nature parks. The system is plug-and-play and requires only annual maintenance, significantly reducing the need for laboratory testing.

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# Wawrzynowicz&Wspólnicy

https://wawrzynowicz.eu/en/
poznan@wawrzynowicz.eu

**Subsector**
Solar energy, Wind energy, Hydropower, Geothermal energy, Bioenergy, Energy efficiency, Hydrogen technologies, Circular economy, Water resources management, Air quality, Smart city, Competition law, Public procurement law

Wawrzynowicz & Partners (W&W) is a leading Polish law firm providing legal advice to businesses operating in regulated sectors of the economy. The firm focuses on legal and commercial advice in the gas, electricity, heating, renewable energy, and telecommunications sectors. Its dynamic team of lawyers, with many years of industry experience, provides highly specialised services in gas and energy regulatory affairs, public procurement law, competition law, and infrastructure investment processes. W&W has been providing legal advice to the largest Polish energy groups for many years.

# WEKTOR M. Mroczkowska

www.WektorTorun.com
wektor@wektortorun.com

**Subsector**
Bioenergy, Energy efficiency, Circular economy, Biomass and waste processing technologies

Wektor specialises in the design and production of technologies for processing biomass and post-production waste into solid fuels in the form of briquettes and pellets of various diameters. The company's product range includes the BT-60 briquetting machine, which is a component of technological lines used for the densification of such materials as sawdust, wood chips, wood dust, MDF waste, RDF, plastic fractions (including PUR), and selected industrial and agricultural waste, as well as animal feed materials. This technology improves energy efficiency, reduces waste sent to landfill, and supports the development of bioenergy and the circular economy.

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# Westcore

www.westcore.pl
info@westcore.pl

**Subsector**
Solar energy

Westcore is a photovoltaic company delivering comprehensive solar solutions for private, commercial, and industrial clients. It designs and installs PV systems ranging from residential rooftops and industrial halls to large-scale solar farms. Acting as both a reliable installation partner and a general contractor, Westcore ensures the highest quality at every stage of the project. In addition, the company supplies a wide range of photovoltaic equipment, including inverters, energy storage systems, solar panels, and related components.

# Wind & Water Legal Zbroja Adwokaci i Radcowie Prawni

https://zbrojaadwokaci.pl/
kancelaria@zbrojaadwokaci.pl

**Subsector**
Wind energy, Maritime economy

Wind & Water Legal Zbroja Adwokaci i Radcowie Prawni is a specialised law firm that focuses on providing legal services to the maritime economy, the yacht industry, and the offshore wind energy sector. The firm's motto – Navigate Legal Waters Together – reflects its approach to supporting entrepreneurs by making the legal environment understandable, friendly, and effective. Its core values are specialisation, development, partnership, and security. Wind & Water Legal provides optimal solutions to address the challenges faced by its clients in their business activities. Its team consists of experienced professionals specialising in offshore wind, shipbuilding, port operations, yachting, TSL, and the construction and tax sectors.

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# Wind Industry Hub

www.windindustry.pl
biuro@windindustry.pl

**Subsector**
Wind energy

Wind Industry Hub Foundation was established to support the formation of a strong industry and service base for the wind sector in Poland. The Foundation's goal is to help improve energy and economic security through building strong business relations, the transfer of knowledge and technology, and supporting the implementation of joint projects by domestic and international industrial entities. By working with government administration and supporting the business and legal environment, the Foundation co-creates a coherent industrial policy for Poland and contributes to the dynamic development of the Polish wind industry.

# WindTAK

www.windtak.com
contact@windtak.pl

**Subsector**
Wind energy, Energy efficiency, AI & ML

WindTAK is a high-tech company improving wind energy performance. Its flagship product, 5GVG by WindTAK, is a patentable IoT and AI-driven condition monitoring and control suite combining 5G connectivity, digital twins, and predictive analytics. It boosts turbine efficiency by up to 5%, cuts O&M costs by about 7%, and can save roughly €300,000 per installed MW over the asset lifetime. Built for mixed OEM fleets, cold climates, cybersecurity, and data residency needs, WindTAK helps operators raise energy production rates, extend asset lifetimes, and strengthen ESG reporting. Based in Łódź, Poland, and also active in Canada, Japan, and the Nordics, the company partners with utilities and OEMs to deliver bankable results.

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# WOFIL

www.wofil.pl
wofil@wofil.pl

**Subsector**
Water resources management, Water industry

WOFIL has specialised in the use of innovative technologies for water and wastewater treatment for 25 years. It designs, constructs, and assembles complete ozone systems, providing consulting, equipment and software production, remote monitoring, and post-warranty service. It also conducts R&D activities aimed at boosting the effectiveness of its technical solutions. The company offers the SPID system for the production of OWWO – an ecological treatment based on degassed and highly ozonated water, which can be customised to customers' needs to ensure quick and effective disinfection. It is safe for people, infrastructure, and the natural environment.

# WPIP Green Energy

https://wpip.pl/greenenergy/
oze@wpip.pl

**Subsector**
Solar energy, Bioenergy, Energy efficiency

WPIP Green Energy is a leading renewable energy investment provider for industrial facilities in Poland.
With broad specialisation in four key areas – photovoltaics, energy storage, biogas and biomethane plants, and heat pumps – the company offers innovative technologies that help deliver real energy savings.
The WPIP Green Energy team provides expert advice and comprehensive support throughout the investment process, enabling clients to effectively harness the potential of renewable energy sources, tailored to their needs. WPIP Green Energy is part of the WPIP Group, providing access to extensive experience in construction, real estate development, and intelligent systems for facilities.

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# XTrack

www.xtrack.com
info@xtrack.com

**Subsector**
Smart city

XTrack is a global field asset and task management platform combining onboard vehicle and machine infrastructure with IoT, cloud computing, ML, and AI. Built on over 35 years of expertise and backed by more than 20 years of proven deployments in the demanding waste collection sector, it brings clarity where traditional systems fall short. The modular ecosystem includes video monitoring, weighing systems, RFID identification, GPS recorders, a mobile app for field crews, and software for task management, asset inventory and monitoring, fuel control, and advanced analytics. XTrack supports open APIs and OEM-ready integrations.
Trusted by over 2,500 clients in 26 countries, managing over 55,000 field assets.

**Infographics** Poland in figures
Source: Statistics Poland, World Bank

//Data from the infographics are presented in the table.//

| | |
|---|---|
| Population | 37,3 mln |
| Unemployment | 6% (2nd lowest in EU) |
| Import (2025) | 352,5 bln EUR |
| Export (2025) | 353,0 bln EUR |
| GDP total (2024) | 917,11 bln USD |
| GDP per capita (2024) | 25103,6 |
| GDP growth in the fourth quarter of 2025 according to the flash estimate | 4.0% |

**Back to the text**

## Infographics

//Data from the infographics are presented in the tables.//

| | |
|---|---|
| Wind (dominant renewable energy source) in total electricity generation in the National Power System | 13.6% (23.4 TWh) |
| Age of installation and main area of concentration | 7.6 years on average; concentrated primarily in northern and central Poland |

**Back to the text**

## Infographics

//Data from the infographics are presented in the tables.//

| | |
|---|---|
| Onshore wind expected to be operational by 2030 | 15.8 GW |
| Offshore wind to be operational expected by 2030 | 5.9 GW |

| | |
|---|---|
| Estimated scale of planned investments related to the development of onshore wind energy by 2040 | 214 bln PLN |

**Back to the text**

## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| Increased of cumulative installed capacity over the last 10 years, exceeding the capacity of any other generation source in Poland | from 0.1 GW to 26.1 GW |
| Share of renewable sources in generation of national production in June 2025 | 45.6% (wind farms 17.3%; photovoltaics 21.8%) |
| Share of photovoltaics in covering the annual electricity demand in 2025 | 20.4 TWh (11.8%) |

**Back to the text**

## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| Sales level of ground-source heat pumps In Poland | 8.1 thousand units (ranked fifth in Europe) |

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## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| Biomass production in 2025 | 8.4 TWh (0.5 TWh more than year before) |
| Share in national output | 4.9% |

**Back to the text**

## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| Share of renewable energy in individual heating (largely due to biomass combustion) | 39% (208 PJ) |

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## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| Total installed capacity in the National Power System (KSE) at the end of 2024 | 72.2 GW |
| Share of renewable energy sources | 31.8 GW |

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## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| The rapid growth of photovoltaic capacity in early 2025 | exceeding 20 GW |

## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| Projected capacity level of renewable power by 2030 | 57 GW |
| Projected capacity level of renewable power by 2040 | 93 GW |

## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| The investment plans of the Polish TSO by 2030 (in grid investments) | 129.5 bln PLN |
| The investment plans of the Polish TSO by 2040 (long-term estimates) | up to 500 bln PLN |

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## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| The Polish hydrogen producer market rank in the UE | 3rd largest |
| Share of Polish producers among those with the highest hydrogen production capacities in the EU | 3 out of 5 |
| Expected total Polish RFNBO production as early as 2030 (according to S&P Global) | 344 thousand tonnes |

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## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| Estimated share of Poland in municipal waste generation | 14.2 mln tonnes (about 377 kg per capita), of which over half was recovered, including through energy recovery and composting |

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## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| Polish steel scrap exports in 2024 | 2.81 mln tonnes (+5.9% year-on-year), becoming a major supplier to European markets |

## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| The Polish market for processing post-consumer plastics into polymer granulates | more than 500,000 tons per year |

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## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| The value of the Polish water and sewage systems market in 2024 | 6.75 bln PLN |

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## Infographics

//Data from the infographics are presented in the table.//

| | |
|---|---|
| The combined revenues of the 120 largest Polish manufacturers of water and wastewater infrastructure components | 19.3 bln PLN |

## Infographics

//Data from the infographics are presented in the table.//

| The main competitive advantages: |
|---|
| ¬– the development of advanced IoT technologies<br>– advanced analytical software<br>– the ability to compete on quality<br>– and price solutions compliant with EU standards |

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