

Report 2024

Strategic Partner _____



Expo Partners _____



KOSTAL

The energy-packed event of the year – changes, innovations and trends!

E nex Expo has been the cooperation platform that brings together key companies in the renewable energy sector. The expo showcases breakthrough solutions, which directly boost the entire sector's development. The 26th festival of power engineering, electrical engineering and renewable energy sources in Kielce has broken popularity records, hosted over 350 companies from 15 countries, and attracted over 20,000 visitors. The exhibition was staged in all seven Targi Kielce expo pavilions. The expo has advanced to become one of the most significant events for this industry. The exhibition presented the renewable energy sector's latest trends and achievements. The show abounded with innova-

tions for home and industry such as energy-saving and effective heating solutions, smart energy management systems, photovoltaics and electromobility solutions. Not only can innovations improve the quality of life, but also enable cost reduction and increase energy self-sufficiency. Visitors to the 26th Enex were offered a rich and diversified agenda of accompanying events which featured industry experts. Traditionally, industry forums, conferences, and networking meetings were held within the expo's scope. There is also a plethora of games, contests and surprises. The upcoming Targi Kielce Expo will be held on 18 and 19 February 2025. For two days, Kielce will again become the energy focal point of the world!



Enex 2024 facts and figures

Advertisement – online:

Google

600.000

ad views

186.000

interactions

Facebook

1.500.000

ad views

777.000

ad reach

LinkedIn

400.000

views

28.680

clicks

Exhibition:



20.000

– the number of visitors



26.000 m²

Exhibition space



15

Number of countries represented by Exhibitors



350

Number of exhibitors

Media:

- **50** journalists
- **45** industry editorial offices
- **1334** publications about the expo
- reaching over **75 million contacts**
- Estimated AVE exceeded **3 million PLN**
- We were all over the news: **Polsat News, Puls Biznesu, Onet, PAP, Gazeta Wyborcza, RMF Maxxx, Radio Eska Kielce**
- Foreign media – **Easy Engineering from Romania, pv magazine International from Germany**
- Facebook posts – organic reach up **300 thousand people**
- **9 RES YouTubers**

Competitions and attractions for visitors

City Game in the RESCity

The GLOBEnergia editorial office offers the annual competition available in the RESCities zone; the RESCity game participants solved tasks in various places on the ENEX expo grounds. They were supposed to collect stamps for each completed task. The winner rode away on an electric scooter.



Polish handball champions visit Enex!

Three players of 20-times Polish Champions, Andreas Wolff, Artsem Karalek, Tomasz Gębala and sports director Michał Jurecki, were hosted at this year's Enex Expo. Handball players called in the Industria expo stand, signing autographs and taking selfies with fans. The expo witnessed numerous sports aficionados.

Solar ping pong

An exciting experience, especially for table tennis lovers – the opportunity to take part in a Growatt Polska tournament. Participants competed not on a typical ping-pong table but on a P.V. solar panel turned into a table.



The fastest P.V. installer competition

The Energynat group's expo stand witnessed Poland's biggest race; the participants competed for the title of the fastest P.V. installer. Participants used virtual reality goggles. wykorzystywali gogle do wirtualnej rzeczywistości.

The 4 ECO Green Energy competition can win you a P.V. installation

The 4 ECO Green Energy expo stand was the place to win a 4kW P.V. installation. All you had to do was join the expo, fill out the application form and answer the competition question.



Pesa Smart Energy Forum for the first time

Upon the initiative of the Polish Energy Storage Association, the expo witnesses the first-time two-day Pesa Smart Energy Forum. The Forum featured experts and representatives of the power engineering sector. And the speakers list included Barbara Adamska, president of the management board of the Polish Energy Storage Association, Mieczysław Wrocławski, vice-president of the management board of the Polish Energy Storage Association and representatives of leading companies. The Forum was the perfect opportunity to discuss the latest trends and solutions in energy storage. The featured guests lec-

tured on the secrets of the consumer market in the context of energy storage. Technical and economic issues related to energy storage were analysed. The role of energy storage in industrial enterprises and the importance of energy storage in energy clusters and cooperatives were also discussed. Issues related to cybersecurity and hydrogen technologies were also addressed. Energy storage has been unanimously indicated as essential to the energy system's transformation. The event generated an avid interest and became the platform for exchanging knowledge and experiences for all those interested in energy issues.

Events within the scope of the Enex



RESCity

The 26th Enex visitors could tour the City of Energy – RESCity – an extensive exhibition zone offered by the GLOBENERGIA editorial office. RESCity brought together industry leaders who offered energy-saving technologies and renewable energy solutions. The RESCity was the stage for more than 30 leading industry companies presenting and offering the most modern devices available. The RESCity fellowship included NIBE-BIAWAR, GARO Group, L.G. Electronics, Galmet, Huawei, Projoy, Sun-grow, Immergas, Fronius, Panasonic, Prawtech Polska. The place for exchanging experiences, observations and expectations related to the upcoming season, as well as the space for presenting technological and product novelties. The premiere arena offered the abundance of the latest renewable energy solutions offered by: L.G., Fronius and Corab, to name a few.

SOLAR+ FORUM

Representatives of the photovoltaic and solar collectors industry, investors, representatives of local authorities and solar energy enthusiasts were offered the chance to take part in the National Photovoltaics and Solar Energy Storage Forum Solar+. The conference is devoted to the P.V. industry, the issues related to the future of photovoltaics in Poland, and the dynamic development of energy storage facilities. The meeting provides a unique opportunity to learn and expand knowledge about RES developments. This is also a chance to meet highly-qualified experts, solar-energy business-insiders. The „Best Practices In Best Hands” Contest results announcement was also a part of the SOLAR+ Forum; was a part of the event. The contest aims to gather active references and best practices and identify the best business sector installers. Promoting energy-saving and energy-efficient

solutions that combat low-altitude emissions are also vital at the event.

HEAT PUMPS FORUM

The Heat Pump Forum has been traditionally organised within the expo's scope. The Forum gathers experts, engineers and enthusiasts of the heat pumps and creates an inspiring environment for knowledge and experience exchange. The meetings have offered the opportunity to learn about technical aspects and product innovations in the heat pump sector and heating technology in general. This is also the possibility of obtaining co-financing for this type of technology and the chance to exchange experience within the installers' milieu. The Heat Pump Forum also discussed installation and errors in heat pump installations, hybrid heating, the R290 refrigerant heat pumps safety and modern sources of heat and cold in a commercial building.



THE ENERGIA PL CONFERENCE

Another Energia P.L. conference was held in a new format; this time the lectures were combined with individual meetings with speakers. Profitability of investments into energy storage were discussed at length. Those interested in the latest trends, energy-storage related projects and solutions could exchange experiences and observations; the session also provided the opportunity for networking and establishing valuable contacts with industry insiders.

Solfinity discussion panel

The meeting focussed on Energy in Business: Energy storage – energy security and a source of savings.



WISE ENERGY Lecture

Meeting devoted to commercial grid connections and RES grid connection expertise.

Energising „Installer of the Year” tournament

In the course of Enex, CORAB SA organised a spectacular tournament, „Installer of the Year”, in which the six best photovoltaic industry companies in Poland competed for the laurels: Voltaic System, EKO PRIME, MCM Fotowoltaika, Zielona Firma, ERGO GROUP – renewable Energy and Gromar Energy – solar energy for home, business and agriculture. The EKO PRIME team was named the winning team in the tournament. Several competition stages preceded the well-deserved victory. The first stage was a knowledge test, the next was a direct competition. Only two teams entered the final battle stage: Voltaic System and EKO PRIME. Gromar Energy – solar energy for home, business and agriculture won the audience award

Electromobility Zone and charging stations for expo guests

Enex was an excellent treat for electromobility aficionados who can see the latest electric, hybrid and even hydrogen car models in the flesh. Thanks to cooperation with EQUAY, charging points for electric vehicles were installed at Targi Kielce: 12 A.C. stations with a capacity of 22kW and 2 D.C. stations with a capacity of 30kW, as well as several slightly smaller power-range stations: 9 A.C. stations with a capacity of 11kW. Charging was offered free for the expo participants – registration via a special application was required to start charging. The interest in charging stations exceeded the organisers' wildest expectations.

strefa YouTubera

One could also talk about e-mobility and the renewable energy sector's modern technologies in the Youtubers' Zone – nine of the most famous Internet creators lectured at the expo. The two-day trade show witnessed six live meetings organised with the participation of: Waldemar Dąbkowski from the „Heat Pump and P.V.” channel, Sławomir Sołtys – host of the „Photovoltaic panels” channel, Michał Radziszewski from the „Napór po Polska” channel, Bartosz Stańczyk from „Smart Dom 2.0.”, Hubert Hołub from MAXISERVICE DIY, Piotr Sejfried „Ekoniezależny”, Tomasz Żyła from „Tomasz Żyła PV”, Maciej Krasuski from Smart DIY and Waldemar Wawer from „Zeptobox”. There were discussion panels

about photovoltaics and P.V. profitability, types of energy storage and related applications for various groups of recipients, electromobility, and trends in heating and smart homes. This session has always offered the unusual opportunity to talk, exchange experiences and views, and collect autographs and have a selfie with Youtubers.





The best of the best. Awards and distinctions of the Enex expo

The gala ceremony of the 26th Enex was the occasion to bestow accolades and recognise companies that, in the opinion of the Jury Panel, presented the most exciting and innovative products at the exhibition.

Enterprises with innovative ways of presenting their expo offer and attractive expo stands were also recognised. The winners list includes companies representing various energy and electrical engineering fields, from traditional energy sources to modern renewable technologies. The award-winning products aroused the interest of both industry experts and expo visitors, triggered by functionality, effectiveness and the use of the latest technological developments. Seventeen medals and distinctions in total were awarded in seven categories.

The Top Design prize was presented to 20 companies – thus, an attractive and modern style expo presentation was recognised. TOP DESIGN AWARDS of the ENEX expo for innovative, elegant, comprehensive expo presentation went to 8 companies.

Solar Energy Category

Targi Kielce Medals

- SUNGROW POLAND LLC, Kraków for SH15-20-25T
- GoodWe Technologies Co., Ltd, New District, Suzhou, for E.T. G2 6-15 kW Hybrid Inverter with Grid Stabilization Function
- Avrii LLC – Tarnów for the Avrii SOL Synergy Hybrid Inverter

Distinctions

- SolarBox Krzysztof Przewłucki, Olsztyn, for the 800W SolarBox III photovoltaic balcony set

Biomass category

Targi Kielce Medals

- BLAZE HARMONY sro, Lipník nad Bečvou, Czech Republic for Blaze Green

Hydrogen technologies category

Targi Kielce Distinctions

- HYDROGENTECH LLC, Kraków for the DFC SOFC double-sided solid oxide fuel cell

Energy Storage Category

Targi Kielce Medals

- ELMECH-ASE SA, Pruszcz Gdański for ENERGATE ENERGY STORAGE
- 4EN AS , Warsaw for the electricity storage and management system

Heat Pumps Category

Targi Kielce Medals

- NIBE-BIAWAR LLC, Białystok for the NIBE S1256 ground heat pump
- WB ELECTRONICS LLC, Kraków for Geocompact – PLUG AND PLAY BOILER PLANT BASED ON GROUND HEAT PUMPS
- CORAB SA, Olsztyn for the Encor heat pump
- KOŁTON GP, Jabłonka for the AIRADAPT inverter heat pump

Energy Management category

Targi Kielce Medals

- SOLGENE LLC., Kraków for the VGE Smart Controller

Targi Kielce Distinctions

- HEWALEX LLC LP., Czechowice – Dziedzice for Opti – Ener 2.0
- KIELCE UNIVERSITY OF TECHNOLOGY, Kielce for Power Microgrid
- POLLIN ELECTRONIC PLANT, Warsaw for the series of automatic phase switches

Electromobility category

Targi Kielce Distinctions

- ZPUE SA, Włoszczowa for EV-C 30 electric vehicle charging station

TOP DESIGN AWARDS at the Enex expo

for elegance and innovative exhibition presentation style:

- Marstek Energy Co., Limited
- ZPUE S.A.
- ASTRONERGY NEW ENERGY TECHNOLOGY
- Sunergy USA works llc
- Merxu LLC
- Shenzhen Kstar New Energy Co., Ltd.
- ITA LLC
- FREE POLSKA LLC
- LONGi Solar Technology Co., Ltd.
- Jiangsu Runergy New Energy Technology Co., Ltd.
- 4EN Joint-Stock Company
- Zhejiang Hyxi Technology Co.,Ltd.
- Shangrao Jietai New Energy Technology Co.,Ltd.
- VIESSMANN LLC
- SUNGROW Polska LLC

- Shenzhen SOFARSOLAR Co., Ltd.
- 7SUN Paweł Sternal
- SOLPLANET
- IBC SOLAR POLAND LLC
- KLIMA THERM (KAISAI) – at the 4ECO collective expo stand

TOP DESIGN AWARDS at the Enex expo

for original, elegant and comprehensive expo presentation:

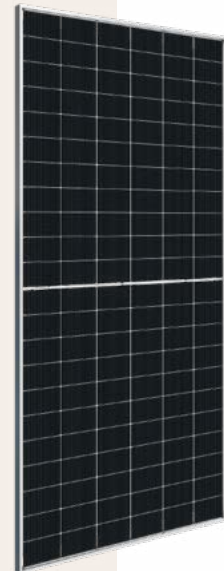
- Ningbo AUX Solar Import & Export Co., Ltd.
- GRODNO Joint-Stock Company
- FOXESS CO., LTD.
- Ecoflow Deutschland GmbH
- HUAWEI Polska LLC
- Mitsubishi Electric Europe B.V.
- Panasonic heating & cooling solutions
- Midea Hiconics – at the 4ECO collective expo stand



Green&New Products: The Latest Products Supporting the Ecological Revolution

Sigenergy – SigenStorto – integrated energy storage system

SigenStorto combines several functions: a photovoltaic installation, energy storage and an electric vehicle charging outlet. The solution integrates a set of battery packs, a battery pack management system (PCS), a photovoltaic inverter, an E.V. charger and an energy management system (EMS), making it the first 5-in-1 energy storage system. SigenStorto has been designed as a home solution, providing energy storage capacity from 5 kWh to 48 kWh in one tower.



ASTRONERGY – ASTRO N7 CHSM-66RN(DG)/F-BH

182.2*210 rectangular cells with a 66-chamber half-cut structure equipped with TOPCon 4.0 n-type cell technology developed by Astronergy. Other industry-leading technologies have been used, such as SMBB, cell-safe cutting and slot lamination; these features boost the product's high power and efficiency. This appliance is also suitable for various types of installations, such as industrial and commercial roofs and centralised ground-mounted power plants.



AFRISO – AZV valves

Improved design enables flexible installation of the valve in 4 positions, detachable cable and the possibility to change the initial position without disassembly; these are just some of the many advantages of the new generation of AZV zone valves. Appreciated by myriads of customers, AFRISO brand products have been improved to make installation even more accessible.



ARINEA – Ultron X charging station

Versatile compatibility: fast charging with direct current (D.C.) and alternating current (A.C.); flexibility and power: two CCS connections (50-360 kW) and a Type 2 socket (22 kW). Modern connectivity: OCPP 1.6 protocol and parameter monitoring. Resistance and aesthetics: high IP54 protection and modern design.



ARINEA – Ultron Way charging station

Mobility and efficiency: compact design and latest generation technologies. The perfect solution for E.V. users: fast charging with direct current (D.C.) up to 40 kW. Universal compatibility: CCS and CHA-deMO compliant. Intuitive operation: RFID reader, 7” touch screen and OCPP 1.6 protocol.



APATOR – SPV SM

SPV SM plays the role of a power guardian in industrial installations where photovoltaic generators supply power for own consumption. Protection against power export to the distribution grid can be executed by the facility’s operating parameters regulation owing to direct coupling with dataloggers, protection automation, network parameter analysers, etc.



ARINEA – Arteva charging station

Combination of functionality and aesthetics: charging with alternating current (A.C.). Convenient operation: two Type 2 connectors (22 kW), RFID reader and LED backlight. Full compatibility, the OCPP 1.6 protocol support. Safety and elegance: solid construction, personalisation and numerous security features.



ARINEA – Wallbox Stellar fast charging station

Efficient charging in public and commercial places: a wide power range (30-60 kW). Universal compatibility: support for CCS and CHAdeMO standards. Convenience for users: 10” LCD screen and optional payment terminal, coupled with safety and ease of use: electrical protection, online and offline operation. Arinea also offers energy storage in cooperation with Elit S.A. Contact: Magdalena Bombala, Commercial Director, tel. 533 675 920, e-mail: m.bombala@arinea.pl



BAKS – KLIK system for flat roofs with cable routes in the Magnelis coating

Structure for mounting photovoltaic panels on flat roofs, in plots gardens, on the ground, and on paved surfaces.

An innovative, screwless mounting system to mount panels of any size in a horizontal arrangement at an angle of 10°, 15° or 20°. The DP-DTHBF system for panel installation without interfering in the roof covering structure. This is for mounting on other flat surfaces thanks to the block-loaded structure.



BayWa r.e. – Flat roof structure III from Novotegra

The east-west III structure – all about primarily about speed and comfort. Simple and immediate installation; quick arrangement of a module field of any shape, with the prefabricated elements and an innovative-design latch system. The structure consists of short and ready-made elements. All you really need to install is an electric screwdriver.



ASTRONERGY – ASTRO N7s CHSM-54RNs(DG)(BL-H)/F-BH

ASTRO N7s is the latest high-efficiency n-type product introduced by Astronergy; ideally adapted to foreign housing requirements. This module uses four core Astronergy technologies: TOPCon 4.0 n-type cell, rectangular silicon wafer, ZBB (Zero Busbar) – T.F. (Tiling Film), and high-density encapsulation.



Carrier HVAC – MYNUTE EVO-X i.e. the latest generation condensing boiler

The Beretta brand presented its latest boiler – MYNUTE EVO-X, which is was extremely popular – no wonder. Excellent parameters, modern technologies and design make it a real hit.



Elektronika SA – Heat pumps with natural R290 (Propane), CO2

Q-ton CO2 is a high-temperature air-water heat pump from Mitsubishi Heavy Industries using the ecological CO2 refrigerant. The pump is designed to produce hot utility water at temperatures up to +90°C! (without an additional heater, even at an outdoor air temperature of – 25°C), process water and heating. Connecting 1 to 16 units to one controller is possible, and the heating power ranges from 30 kW to 480 kW.

Q-ton CO2 heat pumps come with the KEYMARK and PZH certificates. HYDRA R290 – a water-water heat pump by Euroklimat; the pump uses the natural refrigerant R290 (Propane), intended for medium – and high-temperature applications. Heating, cooling and domestic hot water up to + 70°C, with heating capacity ranging from 18 to 267 kW. As many as 30 models to choose from, various equipment versions, high SCOP coefficients, simple installation and the ability to adjust performance. Flexible selection of the appropriate pump for a specific application.



FREE POLSKA – Gree Pular Pro air conditioner

The latest Pular PRO collection is a continuation of the iconic series of air conditioners, i.e. Pular. While maintaining

a simple form and aesthetics in the spirit of minimalism, the devices have gained a new, intense colour and a range of functions and amenities. Pular PRO is an air conditioner – not only cools effectively, but it also heats equally efficiently. A wide range of operating temperatures and in-built heater of compressor crankcase and condensate tray guarantee reliable operation even at – 25 °C outside.



FREE POLSKA – Gree Clivia Satin Black air conditioner

The latest version of the best-selling collection of Clivia air conditioners is in satin, and the less obvious colour version is black. The Clivia Satin Black wall model uses the innovative G-AI technology, which significantly reduces energy consumption. The algorithm dynamically changes the air conditioner’s operation, selecting the most advantageous energy-saving strategy. The device is equipped with an intelligent humidity control function, as well as health-promoting functions, such as LED UVC technology, ionisation and self-cleaning heat exchanger



FREE POLSKA – Gree Airy air conditioner with G-AI Plus 2.0 technology.

The AIRY model not only inspires with its innovative design, bold colour and intriguing collage of textures; AIRY primarily stands for innovative technologies that allow us to introduce efficient,

durable and environmentally friendly – friendly solutions. Equipped with G-AI Plus 2.0 artificial intelligence, the appliance provides maximum comfort for users while operating in energy-saving mode. Wide operating temperature ranges combined with the breakthrough hybrid defrosting technology guarantee safe and stable system operation and reliable heating even down to – 25°C.



Elmark Automatyka – OnCell G4302-LTE

LTE gateway intended for communication with photovoltaic farms; a new model from the Moxa manufacturer with a built-in firewall that adequately protects the user’s network infrastructure. An in-depth analysis of protocols such as DNP3 or Modbus TCP and the appropriate configuration of security policies effectively prevents third-party attacks. Thus, communication between the SCADA line and the photovoltaic station remains safe.



Elektronika SA – Mitsubishi Heavy Industries VRF KXZ3 air conditioning system

VRF air conditioning systems from Mitsubishi Heavy Industries are modern air conditioning solutions that provide cooling, heating, cooperation with ventilation units and the possibility of heat recovery

KXZ3 is an entirely new generation of VRF, a response to dynamic legislative changes and growing market requirements. The new KXZ3 concept is based on six pillars: high energy efficiency, care for the natural environment, flexibility in design, reliability, user comfort and service effectiveness.



FREE POLSKA – FREE C system & C – remote services and monitoring of Gree heat pumps

FREE C&C, a remote monitoring system containing the innovative FREEcloud and FREEconnect tools, was created with the complete comfort and safety of users in mind, as well as the most effective servicing of devices. Both tools in the hands of Authorized Gree Installers enable care and monitoring of the device’s work – 24 hours a day, 7 days a week.



Green Wallbox – Green Wallbox 2 Pro Green Wallbox 2 Pro are modern charging stations for electric cars. Available in two versions: Slim and Max. The Slim variant has

integrated Type 2 cable (6 or 10 meters long) which makes the device slim; thus, it does not take up much space. The Max version has a Type 2 socket or an integrated Type 2 cable (6 or 10 meters long). What distinguishes Pro series devices is their design – they are designed with simplicity and minimalism in mind.

The clips are perfect for places where you cannot drill holes and there is no way to route cables other than along the edges. Clips can be easily mounted on the edge without the use of tools, which significantly speeds up the work. They enable up to two, parallel photovoltaic cables. They are made of material resistant to UV radiation PA6.6, adapted to photovoltaic applications. For installation on edges with a 1.0-3.0 mm thickness and cables with a diameter of 5.8-6.8 mm



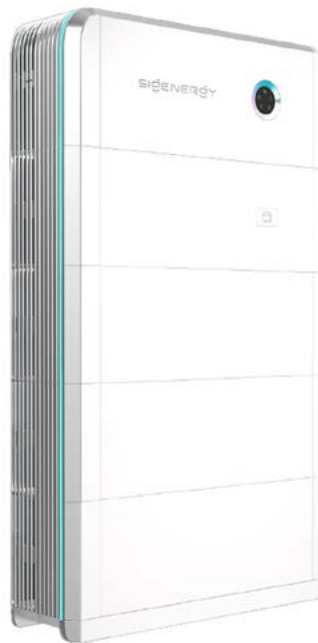
I.T. Control – PowerUP

PowerUp is a comprehensive charging infrastructure for electric vehicles. Design and consulting of engineers at every stage of the investment, handling cashless payments and documenting the sale of services, e-PowerUp mobile application for users, cyclical reporting of turnover technical supervision and service support, solutions for underground parking lots, and financial benefits: we offer various cooperation models tailored to the customer's needs.



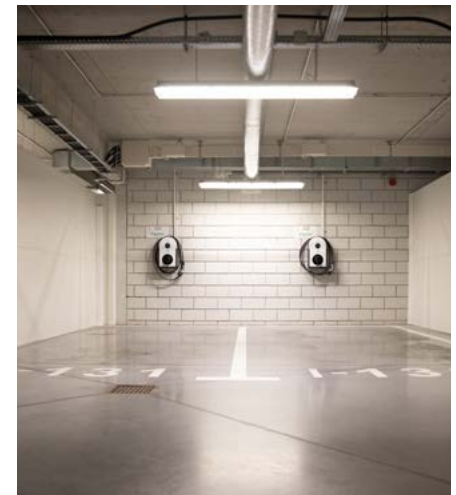
HEGAM – HE-GAM HPC R290 propane heat pump

The HEGAM HPC R290 propane heat pump offers many advantages, such as usability in new buildings (floor system) and old buildings (radiator system); works until – 30 degrees C outside; does not have booster heaters; high seasonal efficiency (SCOP); remote control of device operation with a dedicated user application; ability to control two heating circuits; built-in electricity consumption meter; integration with the Smart Grid system.



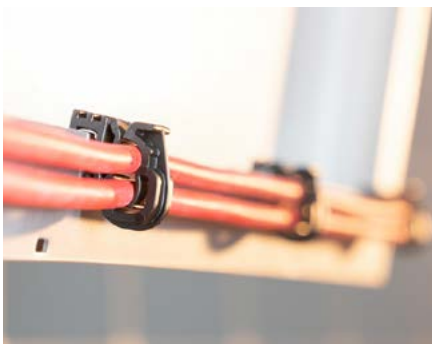
KENO – Sigenstor

SigenStor means storage 5-in-1 systems energy. Seamlessly integrates Battery Management System (Battery PCS), battery packs, D.C. chargers for electric vehicles, inverter and Energy Management System (EMS). SigenStor is a benchmark in terms of versatility and scalability as the market-first 5-in-1 energy storage solution with a quick and smooth installation process lasting 15 minutes. Additionally, the mySigen application powered by GPT-4 offers unparalleled control and insight into the current situation.



I.T. Control – Fire safety partition system for underground garages equipped with electric vehicle charging stations

The main recommendation of fire protection experts, in addition to the guidelines for the power supply system and its supplementary protection methods, is the use of fire protection walls to reduce the risk of fire spreading between vehicles. The partition walls purpose is to limit fire spreading danger to neighbouring cars in the initial phase of fire as a result of the outgassing phenomenon in cells. More information about the partition system can be found on the www.it-control.pl website.



HellermannTyton Polska – EdgeClip series cable clips, model EC1-3SPDHC6-7-PA66HSUV-BK



NO-EL – BMS – Battery Management Systems

The battery management system (BMS) is an intelligent component of the battery pack and is responsible for advanced monitoring and management. The brain of the battery plays a crucial role in safety, performance, charging speed and durability. Advanced algorithms and electronics ensure high measurement precision: functionally safe, quick and effective balancing; shortened charging time; improved range on one charge; maximum battery lifespan.



JBG-2 – Complete Solitar House

The Complete House consists of an energy-saving prefabricated house structure, a photovoltaic roof generating electricity, and a modern Polish propane heat pump JBG HT, which is an effective heat source. With the Complete House, the investor receives the end-to-end technology package to accelerate their step towards an ecological and energy-efficient house.



K500 – CARPORT X1

An innovative, global scale solution. The panel mounting system is adapted to most module sizes available on the market, including bifacial, monofacial, and full screen technologies. The use of K500's proprietary tight aluminium gutter system makes the structure tight and easy to install and operate, the Carport X1 is easy to expand and extend parking spaces. The entire structure is anode-covered and available in two colour schemes (silver and black). The product is 100% made in Poland.



I.T. Control – Green charging station for electric vehicles

The green charging station for electric vehicles combines modern design and functionality. A prefabricated reinforced concrete element with two built-in independent E.V. chargers. The station is a part of urban architecture, and it is ecological and durable. More details on the: www.e-powerup.pl website



K500 – CARPORT H1

A steel carport structure that perfectly fits the home environment: designer decorative panels, any color of the structure can be selected from the RAL palette. A small footprint means great opportunities; car protection against weather conditions and additional benefits in form sun-generated energy. Tight construction equipped with the original K500 aluminum gutter system.



IGLOO – IGLOO MultiTherma heat pumps

IGLOO MultiTherma heat pumps meet all „Clean Air” program requirements, you can count on attractive co-financing. The IGLOO MultiTherma heat pump is of the highest quality and reliability, with technical parameters confirmed by independent laboratories. Moreover, MultiTherma heat pumps offer very high COP and SCOP factors, which proves

use efficiency and economics. Moreover, the devices operate quietly and stably in all climatic conditions.



Kensol – Smart EMS

Smart EMS is an intelligent and integrated energy management system for buildings; with the main objective of increasing self-consumption and protecting against the increasingly frequent shutdowns of micro-installations. The system has been designed to adapt to the needs of users fully. Intelligent, voltage – and voltage-free control functions enable users to personalise settings according to their preferences, ensuring comfort while maintaining ecological standards.

The EV-C30 free-standing charging station allows you to charge up to two compatible electric vehicles simultaneously: with D.C. direct current via the CCS type 2 connector and with alternating current via A.C. connector type 2. Authorisation of the charging process via an RFID reader and/or the charging station operator's application. OCPP communication protocol supported. Equipped with GSM/LTE modem and energy measurement system (MID compliant) in the power line and charging points. The device casing is made of powder-coated stainless steel with IP54 tightness class and IK10 mechanical resistance class.



SolarBox – Photovoltaic set for balcony – 800W SolarBox III

Solarbox is an ideal solution for people living in blocks of flats or multi-family buildings with limited space availability. Owing to the latest technology, a plug can connect the micro-installation to the home electrical network. This is possible thanks to the maximum permissible power of 800W, which can be used without additional protection.



Merazet – FLIR E8 Pro thermal imaging camera

The most important features of the FLIR E8 Pro thermal imaging camera: quick problem location owing to FLIR MSX® (Multi-Spectral Dynamic Imaging), which highlights key details in thermal images. Time saving – no need



Koronea – EV-C30 electric vehicle charging station

Kostal – KOSTAL PLENTICORE inverter

KOSTAL PLENTICORE is a new three-phase hybrid inverter, power of up to 20 kW. PLENTICORE special feature – integrated enlarged communication package. This makes it possible to activate battery use for a photovoltaic system, even retrospectively. Another new feature is the ability to expand the inverter's output power. even at a later time. This means that the photovoltaic system can be expanded and expanded even many years after the original installation; there is no need to replace or modernise additional equipment. This makes the KOSTAL inverter, beyond its basic

for manual adjustments. One-touch automatic level/range setting; increased inspection efficiency thanks to the 640 × 480 touch screen and the ability to add detailed notes to each image; edit, store, organise and share images with the FLIR Ignite cloud.



Nowatermia – CTC EcoAir 700M

Monoblock inverter air/water heat pump with natural R290 refrigerant. The new range of heat pumps combines Swedish technical ideas with Scandinavian design. Pumps ensure ideal indoor conditions by combining heating and cooling functions. CTC EcoAir 700M is a series of inverter-controlled heat pumps that automatically adapt to the building's needs throughout the year.



Nowathermy – CTC EcoTouch 5100

Compact high-power heat pumps. High-power glycol/water heat pump for commercial applications – 4 models on

offer: 111kW, 140kW, 181kW, 229 kW in one unit! The heat pump is a perfect choice for facilities with high energy demand. Extensive power is hidden in a tiny, compact device (width 1130 mm x depth 1366 mm x height 1076 mm). The device has a two-stage power regulation and a 4.3" color, graphic touch screen.



OBO Bettermann Polska

– New WDB L mounting bracket for lightweight cable routes

One bracket for many applications, regardless of the installation method you choose. The system's openness is preserved. The new WDB L bracket makes it possible to run a cable route using a cable tray, mesh tray or cable ladder, up to 4 levels of the cable route. The WDB L bracket is not only a quick and easy attachment of the cable tray to the wall and ceiling, but also on the threaded rod. The assembly system ensures complete openness of the installation, with the possibility of adding cables. All this without any interference in the supporting structure of the cable tray.



OBO Bettermann Polska – Universal connector for LMFV ladders

A multifunctional connector for connecting cable ladders with a side height of 60 and 110 mm, symmetrical and asymmetric reductions are available, and stepless bends are from 0-60° and branches. The connector is universal, so you can flexibly change the route shape and direction. The side profiles of the connectors can be bent at any angle, adapted to a given installation location. This makes symmetrical and asymmetric reductions possible.



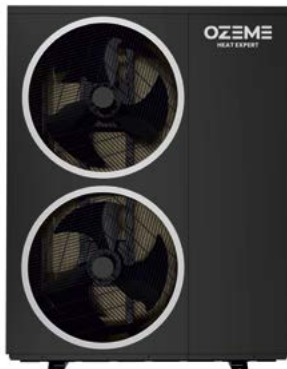
PG GROUP – Facade cable tray construction

The facade cable tray structure is the solution for easy installation of photovoltaic modules on all vertical surfaces of the building. The system is straightforward to install – just two elements screwed to the facade a photovoltaic panel is placed on. Facade systems allow for the installation of photovoltaic modules on buildings with limited roof space.



Ozeme – Ozeme HEAT EXPERT PRO R290 heat pump family

OZEME Heat Expert Pro 8/11/15/22 is a series of high-efficiency air heat pumps designed to operate in moderate and cold climate conditions, operating in the A+++ energy class and with a COP coefficient of up to 5.26. Heat Expert pumps are designed for central heating and hot water for houses, apartments, hotels and small industrial plants.



Ozeme – Ozeme HEAT POOL INV R32 family of pool heat pumps.

The OZEME Heat Pool 24/28/32 INV series of heat pumps are high-efficiency air heat pumps designed to operate in moderate and cold climate conditions. They are used to heat swimming pool water all year round. Owing to the latest technical solutions and the ecological heating factor R32, the Heat Pool series products are one of the market's most efficient and effective swimming pool heating devices.



Ozeme – Ozeme OPTIBUFOR buffer-heater family for heating installations with heat pumps

OZEME OPTIBUFOR 50/80/100 series – enamelled, energy-saving tanks designed for standard operating conditions in residential buildings, both in heating and cooling systems. Thanks to the use of the latest technological solutions, Optibufor tanks prove to be modern and effective, as well as multifunctional hydraulic devices. They are perfect for central heating buffer or hot water tanks in heating and cooling systems.



P.G. GROUP – System S.B.

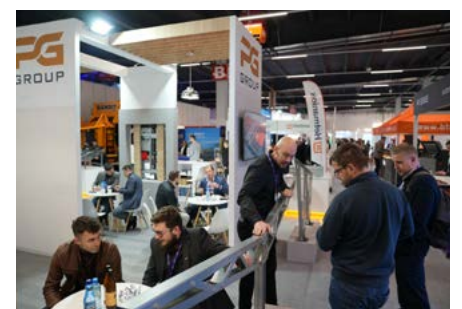
Self Bending System (SBS) for mounting photovoltaic modules on roofs and flat surfaces – the innovative solution with a single-element structure. The construction revolutionises the installation method by significantly speeding up assembly times. In addition, the use of

only one profile in the structure allows for flat transport. This offers a competitive advantage – lower logistics costs, but also production costs.



JBG-2 – Polish JBG HT 15K heat pump with energy class A+++ / A+++

Propane heat pump of Polish production with a power of 15K, characterised by: One of the highest energy efficiency coefficients among Polish heat pumps – SCOP – is that the supply temperature of 35 degrees is 5.39, and of 55 degrees, it is 3.98. The Keymark certificate has confirmed its highest quality parameters. JBG HT heat pump with energy class A+++ / A+++ guarantees the highest efficiency and optimised costs of daily use.



PG GROUP – Carport „Y”

The new Carport „Y” construction stands out of the crowd with its minimised number of columns; the solution allows for even better footprint optimisation of the shelter and positively impacts the final cost of construction.

The segment can accommodate up to 24 panels, with the maximum dimensions

of the modules of 2278x1134. The maximum inclination angle: 10 degrees. Cars up to a height of 2.5 m can fit under the carport.



Pereko – Hybrid heating system – TermoDUO

Termo-DUO hybrid heating system combines two heating devices: a TERMO-STAR ECO series heat pump and a QmPell EVO series wood pellet boiler as a peak source. The characteristic features of the set are – the hybrid heating system provides a stable source of heat all year round, regardless of weather conditions.

- heating in all conditions; flexible use of heat sources in optimal operating conditions
- low operating costs; use of 2 heat sources: safety and independence.



PLP POLAND (BELOS) – Foundation of an electric vehicle charging station

The PLP electric vehicle charging station foundation is a prefabricated which makes it a precisely designed solution for charging electric vehicles. Durable yet lightweight polypropylene foundation does not require specialised machines; it can be installed by one person in one day. The foundation design can be adapted to a wide range of chargers and charging stands/poles currently available on the market. The aluminium top plate provides a clean finish, it is easy to drill and provides an access point for repairs and future updates.



Powerofgreen – MAXA i290 0127 27kW heat pump

MAXA i290 0127 27kW is a mid-size power pump the R290 factor (propane). Heat pumps are manufactured in Italy and, in addition to inhouse laboratory tests, they are tested in European EUROVENT laboratory. KEYMARK and SGready certified. Equipped with a SCROLL DC inverter compressor offer energy class of A+++ (A7/W35) A++ (A7/W55). The high sCOP of 4.46 for a moderate climate was achieved not only thanks to the inverter compressor, but also with the variable fan speed ensuring optimal air flow and a water pump Adjusts its power to the current operating parameters of the heating system.



PRO-MOT Authorized Volvo Dealer – Volvo EX30

The Volvo EX30 is the latest compact all-electric SUV that combines brand-specific design with advanced technology. When creating the Volvo EX30, natural and recycled materials were used. Equipped with the latest collision avoidance technology and safety innovations such as door-ajar warning and low-speed rear automatic braking. Volvo EX30 also offers high performance of an electric drive in a small form – up to 476 km on electric drive, 26 minutes estimated time of fast charging D.C. and, importantly, the Volvo EX30 accelerates to 100 km/h in 3.6 seconds.



Prymus – Air conditioner bracket – 800 mm 110 kg • IFY-11 • for installation under insulation

Air conditioner bracket 800 mm 110 kg; designed for installation under thermal insulation; load capacity: 110 kg; resistant to weather conditions. Corrosion-protected Italian product, powder coated in white RAL9002; adjustable support crossbar.



Prymus – Air conditioner bracket 465 mm 160kg BRS-211, with crossbar, B-Revoc

Product specifications: ABS plastic covers protect the bracket from rust stains forming on the bracket and wall; load capacity 160 kg – 20% higher than competitive brackets; resistant to weather conditions; crossbar with spirit level.



RBT SOLAR – Single-axis tracker

Solar trackers move automatically to „track” the sun’s progress across the sky, thereby optimising installation efficiency. Single-axis trackers are commonly used in large-scale projects such as photovoltaic farms.

Construction must be equipped with security systems, e.g wind speed measuring; above a threshold value panels are placed in a horizontal position. There are energy maintenance systems, too. Solar tracking installations are more expensive than a fixed-tilt system, however, they will generate on average 30% more energy compared to static structures.

is ready to use for modules of different power and sizes, thanks to the use of two adjustable telescopic arms.



Remor Solar Polska – REM-10

REM-10 – not only effective, but also aesthetic. Thanks to the ballast structure suitable for installation on a flat roof, photovoltaic panels can be installed discreetly, without interfering the roof structure, with loading the structure with ballast or a membrane.

Additionally, the unique system makes it possible to install panels of any length and width in a horizontal arrangement at an angle of 5° and 10°, as well as to use bifacial panels, which increases the efficiency of the installation.



Robert Bosch – Compress 6800i AW – monoblock air heat pump

The latest, quietest, redesigned Bosch CS6800i AW heat pump: new, ecological refrigerant R290 (propane); heat pump for new buildings and modernised buildings with existing central heating installation; supply temperature up to +75°C; outdoor temperature operating range up to – 22°C; the quietest Bosch heat pump (sound pressure level 32 dB(A) at a distance of 1 m); energy class A+++ (for a temperature of 35°C); new, 5-inch, UI 800 touch controller with parameter visualisation.



RBT SOLAR – Universal structure for flat roofs

The unique shape of the structure has been designed in a way that significantly shortens the assembly time and maximises the force necessary to tear off the base. The non-invasive assembly uses welding technology with the so-called leister (in the case of PVC) or a gas burner (in the case of bituminous felt). High durability of the welded system, confirmed by specialist laboratory tests. The structure



Prymus – Air conditioner bracket 520 mm 160kg I-372, with crossbar, INOX

Product specifications: – crossbar; with spirit level; width 800 mm; large load capacity of 160 kg – 20% higher than competitive supports; execution:

INOX (AISI 304); universal regulation suitable for all air conditioners.



RST – RST PV-INC connection switchboards

RST PV-INC switchboards are designed for photovoltaic installations with a capacity of 50 kW and higher. The switchboard configuration is selected individually for a given P.V. installation and its power. The essential equipment of every switchgear is surge arresters to protect A.C. and D.C. circuits. Additionally, DC switchboards can be equipped with circuit breaker cases with gPV overcurrent protection or fuse load break switches.

operating costs of the farm (less mowing, less dust) and, consequently, significantly increases the profitability of the ground or on a flat roof.



SMA Solar Technology AG – SMA Home Storage

SMA Home Storage is a modular battery that is a perfect complement to SMA hybrid inverters. Even with little sunlight, the battery allows you to store electricity from the sun and use it when needed. Advantages of SMA Home Storage. Developed for intensive use; ready for the energy solutions of the future – for example, dynamic tariffs and virtual power plants (VPP); integrated black start function for emergency power supply (in combination with SMAs hybrid inverters).

Solplanet hybrid inverters are easy to install and use and are intended for residential installations as well those in small enterprises. Integrated with intelligent software that allows to manage the energy storage operation while maximizing auto-consumption, creating a power reserve or sending energy to the grid when it is most profitable. In the event of a power outage, the emergency power supply is turned on in less than 10 ms. The H-T3 series is equipped with 3 independent MPPTs, with a maximum input current of 16 A per string. The H-T2 series has two independent MPPTs and 20 A for each chain. Inverter power range: 5, 6, 8, 10, 12 kW.



LG Energy Solution enblock E – Enblock E

The new E Enblock from L.G. Energy Solution revolutionises the energy supply for households thanks to lithium iron phosphate (LFP) technology, produced in L.G.'s factories. The product provides a long-lasting, reliable energy storage solution, ideal for environmentally conscious households. Modular design facilitates installation. The capacity of enblock E ranges from 12.4 to 15.5 kWh.



Shinefarsolar – Solar fabric

The solar fabric from Shinefarsolar provides an additional energy yield from the double-sided photovoltaic module of 21%. Synthetic material reflecting solar radiation, placed under the double-sided photovoltaic module, significantly improves energy yield (according to the table based on the research), reduces the



Solplanet – ASW H-T2/T3 series hybrid inverters – for home and small business applications



Solplanet – High-voltage energy storage – Ai-HB G2 series

An intelligent and flexible energy storage system with a capacity from 7.5 to 20.48 kWh, adapted to three-phase Solplanet hybrid inverters. The modular design of the Ai-HB G2 series is perfect to tailor the solution to your individual needs. Capacity range of up to 81.92 kWh (4 sets of 8 modules in parallel). The intelligent management system monitors each individual energy storage cell independently, ensuring a longer device service life.



Sonel – High-current short-circuit loop impedance meter Sonel MZC-340 – P.V.

The MZC-340-PV high-current short-circuit loop impedance meter is a device designed for measurements in networks with voltage up to 900 V A.C., capable of measuring very small short-circuit loop impedances, 0.1 mΩ accuracy. It is capable of measuring various circuit configurations, automatically distinguishing phase and phase-to-phase voltage. The device offers a 4-wire measurement method, with current measurement up to 305 A, and also enables measurement of expected touch voltage and alternating voltages.

most solar farms are located in warmer climates and environments, which is why Spider 2SGS EFI is equipped with a special top cover with an open metal mesh on the sides. This makes the mower work well in places with extremely high temperatures – the engine and hydraulic systems require appropriate cooling.



Sun Valley Energy – Falcon Backyard wind turbine

The expansion of Sun Valley Energy’s (SVE) portfolio with innovative wind turbines was announced at Enex 2024 – a perfect display of the firm’s involvement in ESG (Environmental, Social, Governance) principles, i.e. environmental, social and managerial responsibility. Adding wind turbines with a capacity of up to 100 kW to the existing offer, which includes photovoltaics, heat pumps and both electric and thermal energy storage systems, shows that SVE treats the renewable energy industry holistically, as a set of complementary technical solutions supporting sustainable development.



Solplanet – All-in-One device, ASW AS series – efficient device for balconies

A compact solution combining energy storage and a hybrid inverter, for installation on balconies and other small spaces with limited space for photovoltaic modules. Provides continuous power at home, day and night; easily covers basic energy needs and powers household appliances.



Spider – Spider 2SGS EFI – remote-controlled lawn mower

Spider 2SGS EFI is a remotely controlled mower designed especially for turf care on photovoltaic farms. Based on the tested and proven model – Spider ILD02 with a lowered chassis, Spider 2SGS EFI is perfect for lawn grooming. grass under solar panels. Our bear in mind that

Why is it worth being a part of Enex?

”

Orysya Levchenko
GOODWE

The ENEX is an excellent celebration of the RES industry and the photovoltaic industry. This year, ENEX outperformed all previous shows. We have been here for the fourth time, and the turnout is a positive surprise again. We hope that the next expo will grow even bigger.

”

Adam Minikowski
NIBE

ENEX is the best industry event in Poland; lots of exhibitors and visitors. Short, intense, great hopes that the industry will continue to develop so well. We are delighted to participate every year; we exhibit at ENEX.

”

Mikołaj Teper
Kotlon

We participate in the ENEX to present ourselves to a broader audience, prospective customers and buyers. We want to remind of our presence and confirm our market position – a recognised manufacturer of heating devices.

”

Bartosz Kica
BayWa r.e.

We exhibit at the ENEX Kielce, because it is Poland's largest expo for the photovoltaic industry. We want to present our new products and meet our clients, because we value relationships the most.

Lista wystawców / List of exhibitors

4 ECO, Polska	G-18
4 ENERGY TOMIKA, Polska	E-11
4en S.A., Polska	D-23
7SUN Paweł Sternal, Polska	E-16
ABAKOSTEEL S.C. ADAM DOBRZEŹWIŃSKI & ROBERT MANIAK, Polska	G-15
AC SILEZIA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-53
ACS SYSTEMS MICHAŁ NESTEROWICZ, Polska	A-45
AFORE POLSKA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	A-25
AFRISO Sp. z o.o., Polska	G-18
AIKO POLAND SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	F-2
ALFACO POLSKA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-33
Alians Sp. z o.o., Polska	A-87
ALSEVA EPC SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	G-17
ALUMERO METAL COMPONENTS Sp. z o.o., Polska	C-41
AMISTON SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	A-33
AMS "FULL SERWIS" Marcin Kaczmarek, Polska	D-54
Anhui Huasun Energy Co., Ltd., Chiny	A-1
APATOR SPÓŁKA AKCYJNA, Polska	B-19
AQUATEC SYSTEMS Sp. z o.o., Polska	G-8
ARIES POWER EQUIPMENT Spółka z o.o., Polska	A-39
ARINEA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-36
ARMACELL POLAND SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	C-34
ASTAT SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-41
ASTRONERGY NEW ENERGY TECHNOLOGY (SINGAPORE) PTE.L 12 Marina Boulevard#30-03, Singapur#B-28	A-28
Austa Energy GmbH, Niemcy	G-6
AUX Solar, Chiny	A-34
Avrii Sp. z o.o., Polska	C-43
BAKS Kazimierz Sielski, Polska	B-29
BAYWA R.E. SOLAR SYSTEMS SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	E-54
BDR Thermae Poland Sp. z o.o., Polska	C-7
Bioquadrat Energie- und Wassertechnik Holding GmbH, Austria	B-44
BK SOLAR SYSTEM Sp. z o.o., Polska	G-9
BLAZE HARMONY s.r.o., Czechy	B-33
BRANŻOWA HURTOWNIA NARZĘDZI PAWEŁ ROGULSKI, Polska	D-41
BRAVOŚ Sp. z o.o., Polska	D-24
BRITISH AMERICAN TOBACCO POLSKA TRADING SP. Z O.O., Polska	B-66
BUDMAT PV Systems, Polska	C-48
BY ENERGY	B-63
BYD Auto Industry Company Limited, Chiny	A-8
CALMA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-43
Canadian Solar EMEA, Niemcy	E-56
Cellpack, Polska	A-93
CENTRALNA DOLINA WODOROWA im. Braci Laszczyńskich, Polska	F-17
Changzhou EGing Photovoltaic Technology Co., Ltd., Chiny	A-54
COMMVOLT SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-38
CONCEPT Sp. z o.o., Polska	A-26
CORAB S.A., Polska	E-12
DACPOL Sp. z o.o., Polska	A-52
DAH Solar Co., Ltd., Chiny	C-11
Daikin Airconditioning Poland Sp. z o.o., Polska	E-41
DAQIN NEW ENERGY TECH(TAIZHOU) CO.,LTD, Chiny	C-46
DAS Solar Co., Ltd., Chiny	D-58
De Dietrich Technika Grzewcza Sp. z o.o., Polska	C-7
DEFRO R. DZIUBELA Sp. k., Polska	A-22
DEHN POLSKA Sp. z o.o., Polska	A-72
DIMPLEX, Polska	G-18
DMEGC Solar, Chiny	B-12
Dongguan TGPPO New Energy Technology Co., Ltd, Chiny	F-28
DREAM HEAT, Polska	G-18
DVOŘÁK	B-68
Each Energy Technology (Suzhou) Co., Ltd., Chiny	A-16
EATON ELECTRIC SP. Z O.O., Polska	B-3
Ecoflow Germany GmbH, Niemcy	D-7
ECOGRAL SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	E-52
EcoHeat Technologies, Łotwa	A-63
ECO-MASURIA INVEST SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	E-45A
ECOVENTEAM SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-13
EKOOSIARKI POLSKA, Polska	D-28
ElectricMobility, Polska	B-46
ELEKTRONIKA S.A. POMPY CIEPŁA, Polska	G-14
ELENCO SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	F-5
ELKO-BIS SYSTEMY ODGROMOWE Sp. z o.o., Polska	B-49
ELMA ENERGIA Sp. z o.o., Polska	A-49
ELMARK AUTOMATYKA SPÓŁKA AKCYJNA, Polska	D-16
ELMECH-ASE SPÓŁKA AKCYJNA, Polska	E-1
EL-SUN Sp. z o.o., Polska	B-27
ENEREKO SOLUTIONS Sp. z o.o., Polska	F-26
Energia Capital Sp. z o.o., Polska	B-56
Energia Italia srl, Włochy	E-10
ENERGY 5, Polska	G-18
ENERGY for LIFE sp z o.o., Polska	B-72
ENERGYNAT SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	F-14
ENGENCO Sp. z o.o., Polska	C-51
Enson sp. z o.o., Polska	F-14
ENSPIRION SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	E-45A
ENSPO SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-21
EQUAY SERVICE Sp. z o.o., Polska	C-18
ERKUL Sp. z o.o., Polska	G-18
ESBE Hydronic Systems Sp. z o.o., Polska	C-4
Esdec BV, Holandia	E-14
ESSENTIA Sp. z o.o., Polska	A-47
ETI Polam Sp. z o.o., Polska	B-22
Euro Pro Group Renata Gonet, Polska	A-50
EV-ES Energy Storage, Polska	B-42
EWAY ENERGY TECHNOLOGY (WUHAN) CO.,LTD, Chiny	A-83
Fachowy Elektryk, Polska	A-97
FERNOX, Węgry	G-18
FHU JACEK BĄK SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-4
FINDER POLSKA Sp. z o.o., Polska	A-60
FISCHER POLSKA Sp. z o.o., Polska	A-43
FOLWARK SAMOCHODOWY Sp. z o.o., Polska	F-35
FOXESS CO., LTD., Chiny	D-9
FRACHT FWO POLSKA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-41
FRONIUS Polska Sp. z o.o., Polska	E-28
Fujian Super Solar Energy Technology Co., Ltd., Chiny	C-14
Future Leading Energy, Polska	A-84
GALMET Sp. z o.o. Sp. K., Polska	E-32
GARO POLSKA Sp. z o.o., Polska	E-43
GAZOMET Sp. z o.o., Polska	B-58
GEJZER Sp. z o.o., Polska	C-1
Ginlong Technologies Co., Ltd., Chiny	F-19
Globenergia Sp. z o.o., Polska	E-33
GLOBTECHNIC Sp. z o.o., Polska	D-47
Goneo New Energy Europe GmbH, Niemcy	A-3
GoodWe Technologies Co., Ltd, Chiny	E-46
GREE FREE POLSKA, Polska	D-32
GREEN WALLBOX SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-23
GRETO POLSKA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	F-3
GRODNO SPÓŁKA AKCYJNA, Polska	D-46
GROUPE ATLANTIC POLSKA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-52
Growatt New Energy, Chiny	F-22

Grzegorz Skowroński "SATOR", Polska	C-1
GTE2050 SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	E-45A
GTF SPÓŁKA AKCYJNA, Polska	C-6
Guangdong Didu New Energy Co.,Ltd, Chiny	A-81
Guangdong Happy Times New Energy, Chiny	D-2
Guangzhou Felicity Solar Technology Co., Ltd., Chiny	A-41
Hanersun Technology Co., Ltd, Chiny	A-66
HANTON SZALC ZIEBA & PARTNERZY ADWOKACI I RADCOWIE PRAWNI SPÓŁKA PARTNERSKA, PolskaE-45A	
HBB SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SPÓŁKA KOMANDYTOWA, Polska G-4, G-3, ZM-1, ZF-1, G-2	
HC Group, Polska	C-21
HELIOS STRATEGIA POLSKA Sp. z o.o., Polska	F-11, F-12
HELLERMANN TYTON SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	E-48
HELUKABEL POLSKA Sp. z o.o., Polska	A-69
HEWALEX SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SPÓŁKA KOMANDYTOWA, Polska	D-36
HEXING ENERGY SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	E-47
HISENSE, Polska	C-32
HORAY SOLAR CO.,LTD, Chiny	A-31
HT SOLAR ENERJI A.S., Turcja	B-5
HT-SAAE (Shanghai Aerospace Automobile Electromechanical Co., Ltd.), Chiny	D-34
HUAWEI Polska Sp. z o.o., Polska	C-33
HVR International Ltd, Wielka Brytania	A-70
HYDROGENTECH SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	A-94
IBC SOLAR POLAND SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	F-8
ICEB - Instytut Certyfikacji Emisji Budynków i Pomiarów Technicznych, Polska	C-3
IGLOO Sp. z o.o., Polska	C-8
IMMERGAS Polska Sp. z o.o., Polska	E-22
Innowacyjny Dom, Polska	G-18
INSTYTUT MASZYN PRZEPŁYWOWYCH PAN, Polska	E-45A
INVERTEK DRIVES POLSKA Sp. z o.o., Polska	E-9
IOZE hydro, Polska	A-96
IT CONTROL SP. Z O.O., Polska	A-86
IVENDO SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-38
Janitza Electronics GmbH, Niemcy	A-45
JASolar GmbH, Niemcy	C-2
JBG-2 Sp. z o.o., Polska	D-51
JEAN MUELLER POLSKA Sp. z o.o., Polska	A-18
Jetion Solar (China) Co., Ltd., Chiny	A-9
Jiangsu Jucness Energy Co., Ltd., Chiny	A-64
Jiangsu Runergy New Energy Technology Co., Ltd., Chiny	D-22
Jiangsu Seraphim Solar System Co., Ltd., Chiny	A-17
Jolywood (Taizhou) Solar Technology Co., Ltd., Chiny	A-48
K2 Systems GmbH, Niemcy	D-42
K500 Sp. z o.o., Polska	D-53
KACO NEW ENERGY GmbH, Niemcy	F-4
KAISAI, Polska	G-18
Karlhans Lehmann KG, Niemcy	E-11
KATOLIK GROUP SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	G-7
KENO Sp. z o.o., Polska	F-9, F-10
Kensol Sp. z o.o., Polska	F-9
KOLTON, Polska	G-18
KOSTAL Solar Electric GmbH, Niemcy	E-53
KRAJOWY INSTYTUT DORADZTWA ENERGETYCZNEGO SP. Z O.O., Polska	A-5
KWANT HURTOWNIA ELEKTRYCZNE Sp. z o.o., Polska	D-8
LCS LIGHTING CONTROL SYSTEMS SP. Z O.O., Polska	E-45A
LEICA GEOSYSTEMS, Polska	B-18
LG Electronics Polska Sp. z o.o., Polska	E-36
LG Energy Solution Europe G.m.b.H., Niemcy	G-16
LIFTON POLSKA SPÓŁKA JAWNA MAREK MISAJK, MARIUSZ KUBERSKI, Polska	A-77
LONGi Solar Technology Co., Ltd., Chiny	D-44
LUXEN SOLAR, Chiny	C-53
MAFOT / STALMUT, Polska	B-26
Magazyn Biomasa, Polska	A-79
Magazyn Fotowoltaika, Polska	A-56
MARGO Ireneusz Tercjak, Polska	D-41
Marox s.r.o., Słowacja	B-24
Marstek Energy Co., Limited, Chiny	B-43
MAXA, Polska	A-92
MCD Electronics Sp. z o.o., Polska	C-38
Memo, Niemcy	D-6
MENLO ELECTRIC SPÓŁKA AKCYJNA, Polska	C-52
MERAZET SPÓŁKA AKCYJNA, Polska	B-31
MERSEN POLSKA Sp. z o.o., Polska	A-88
Mieru Sp. z o.o., Polska	A-59
METALERG SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	ZM-2
MEWAT s.c. Paweł Kainowski, Przemysław Paziewski, Polska	B-6
Midea Hiconics, Chiny	G-18
Mitsubishi Electric Europe B.V. Oddział w Polsce, Polska	E-24
ML SYSTEM + Sp. z o.o., Polska	G-18
MUEHSAM ROZWIĄZANIA DLA PRZEMYSŁU SP. J., Polska	E-45
MuovTech Polska Sp. z o.o., Polska	C-9
Napędy i Sterowanie / Ważenie, Dozowanie, Pakowanie, Polska	A-67
Nelumbo Energy s.r.o., Czechy	D-11
NIBE-BIAWAR Sp. z o.o., Polska	E-39
Ningbo Ulica Solar Co., Ltd., Chiny	A-68
Noel, Polska	B-16
NO-EL Sp. J. Ryszard Nowak Barbara Musiałek, Polska	A-74
NOMIFLEX Sp. z o.o., Polska	F-6
NORD Htechnology, Czechy	D-39
Nowatermia Nowak sp.k., Polska	D-51
OBO BETTERMANN POLSKA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	A-28
OCHSNER SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	E-8
Odwiercy.eu Spółka Akcyjna, Polska	C-38
OEM ENERGY SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	C-23
OnVolt.pl, Polska	A-98
OPAKMET SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SPÓŁKA KOMANDYTOWA, Polska	A-46
OZEME Sp. z o.o., Polska	A-57
P.G. GROUP SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-37
P.P.U.H. "HEGAM" Kamil Gamza, Polska	B-59
Panasonic heating & cooling solutions, Polska	E-26
Państwowy Instytut Geologiczny – Państwowy Instytut Badawczy, Polska	E-29
PARTEX MARKING SYSTEMS SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	C-49
PEREKO SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	A-29
PHOENIX CONTACT Sp. z o.o., Polska	A-73
PHOTOMATE POLSKA Sp. z o.o., Polska	B-14
PKO LEASING SPÓŁKA AKCYJNA, Polska	E-45A
PLP POLAND (BELOS) SPÓŁKA AKCYJNA, Polska	F-20
Polaris World Kielce, Polska	G-18
POLDOM PAWEŁ WIECZOREK, Polska	A-65
POLITECHNIKA ŚWIĘTOKRZYSKA, Polska	B-62
POLLIN ZAKŁAD ELEKTRONICZNY Wojciech Polak, Polska	B-67
POL-POŻ KOLTON SPÓŁKA JAWNA, Polska	A-90
POLSKIE STOWARZYSZENIE MAGAZYNOWNIA ENERGI, Polska	F-31
Poweroad (Xiamen) Renewable Energy Technology Co., Ltd., Chiny	F-24
Pravtech Sp. z o.o., Polska	E-38
PRO EV SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-73, E-45A
PROCOLD SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	C-47
PROJUY ELECTRIC, Chiny	E-34
PRO-MOT SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SPÓŁKA KOMANDYTOWA, Polska	F-34
PRYMUS HVAC-R, Polska	A-18
PRZYMIAN POLAND SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	C-12
PRZEDSIĘBIORSTWO USŁUGOWO-PRODUKCYJNE ELNAP SP. Z O.O., Polska	D-19
PRZEDSIĘBIORSTWO CR-GAMA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-41
PRZEDSIĘBIORSTWO USŁUGOWO-PRODUKCYJNE DRIM SP. Z O.O., Polska	C-19
PST Trade S.A., Polska	B-40
PV - ROBERT POLAK, Polska	C-12

pvXchange Trading GmbH, Niemcy	F-23
Qinghai Huahui New Energy Co., Ltd., Chiny	A-58
Qinghai Lihao Semiconductor Materials Co., Ltd., Chiny	A-58
RABBIT Sp. z o. o., Polska	A-91
RAWICOM SPÓŁKA AKCYJNA, Polska	A-76
RBT SOLAR Sp. z o.o., Polska	G-1
REHAU Sp. z o.o., Polska	C-1
RELPOL S.A., Polska	E-43
REMOR SOLAR POLSKA S.A., Polska	E-49
RENAC Power Technology Co., Ltd., Chiny	G-12
Ricom Energy Sp. z o.o., Polska	A-82
ROBERT BOSCH SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	F-21
ROCKWOOL Izolacje Budowlane, Polska	C-42
ROTABERG SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-29
RST SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	C-22
RUG RIELLO URZĄDZENIA GRZEWCZE SPÓŁKA AKCYJNA, Polska	F-1
Ruidian Green Energy Technology Co., Ltd., Chiny	A-27
Rynek Instalacyjny / elektro.info, Polska	A-80
SALESBOOK, Polska	E-21
SAVLO KOMPENSATORY MOCY BIERNEJ, Polska	C-13
SBB ENERGY SPÓŁKA AKCYJNA, Polska	F-17
Schäfer + Peters GmbH, Niemcy	D-57
Schletter Solar GmbH, Niemcy	A-38
SEMICON SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-48
SENSE SOFTWARE Sp. z o.o., Polska	B-34
Shanghai Sematec Energy Technology Co., Ltd., Chiny	D-3
Shangrao Jietai New Energy Technology Co., Ltd., Chiny	C-24
SHENZHEN EENOVANCE ENERGY TECHNOLOGY CO.,LTD, Chiny	B-17
ShenZhen Enow Bateria Power Co.,Ltd., Chiny	D-27
Shenzhen Ensmar Technology Co., Ltd, Chiny	D-31
Shenzhen Kstar New Energy Co., Ltd., Chiny	A-14
Shenzhen Longsheng Energy Technology Co., Ltd., Chiny	D-14
Shenzhen Novgen digital energy co.,Ltd, Chiny	A-12
Shenzhen Senergy Technology Co., Ltd., Chiny	E-57
Shenzhen SOFARSOLAR Co., Ltd., Chiny	E-3
Shenzhen Sungold Solar Co., Ltd., Chiny	A-24
Shenzhen Sunnew Energy Co., Ltd., Chiny	A-42
Shenzhen GivEnergy Co., Ltd., Chiny	C-26
SHINEFAR SOLAR POLSKA Sp. z o.o., Polska	B-1
SIBA POLSKA Sp. z o.o., Polska	A-78
Sieyuan Electric Co.,Ltd, Chiny	A-32
Sigenergy Technology B.V., Holandia	D-56
Sinocat Environmental Technology Co., Ltd., Chiny	G-11
SMA SOLAR TECHNOLOGY AG, Niemcy	E-51
SOCOMEK POLSKA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	A-36
SOEN Sp. z o.o., Polska	C-16
SOLAR MARKET SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-32
SolarBox Krzysztof Przewiucki, Polska	F-25
SOLAREEDGE TECHNOLOGIES (POLAND) SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	F-14
SOLARITY POLSKA Sp. z o.o., Polska	F-33
SolaX Power Network Technology (Zhe jiang) Co.,Ltd, Chiny	F-16
SOLETRIC ENERGY SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-11
SOLFINITY SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SPÓŁKA KOMANDYTOWA, Polska	E-44
SOLHOTAIR SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-41
Solitan - European Supplier of Renewable Energy Sources, Polska	A-75
SOLPLANET, Holandia	F-18
SONEL S.A., Polska	F-27
SOY Technology (Shenzhen) Co., Ltd., Chiny	A-23
SPIC Qinghai Huanghe Hydropower Development Co.,LTD, Chiny	A-58
SPIDER, Czechy	B-68
Stay-On Paweł Grabowski, Polska	E-45A
STIEBEL ELTRON Polska Sp. z o. o., Polska	C-31
STIEBEL ELTRON POLSKA SP. Z O.O., Polska	E-7
Stowarzyszenie Branży Fotowoltaicznej Polska PV, Polska	C-39
STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Polska	A-95
sun.store B.V., Holandia	D-19
Sunergy Group, Chiny	A-61
SUNGROW Polska Sp. z o.o., Polska	E-23
Sunova Solar Technology Co., Ltd., Chiny	E-6
SunPro Power, Chiny	C-11
SUNSYNK NL B.V., Holandia	D-41
SUNVALLEY	B-64
SUNWODA ENERGY TECHNOLOGY CO.,LTD, Chiny	D-26
SUPER SOCO, Polska	G-18
Suzhou Aikome Optronics Science&Technology CO.,LTD, Chiny	A-21
Suzhou Stealth Energy Technology Co., Ltd., Chiny	C-47
ŚWIĘTOKRZYSKA GRUPA PRZEMYSŁOWA INDUSTRIA S.A., Polska	F-17
TAITRA Taiwan External Trade Development Council, Tajwan	C-40
TECH Sterowniki, Polska	G-18
TELZAS Sp. z o.o., Polska	A-40
Tomasz Tułak TAT ECO, Polska	D-41
TONGWEI SOLAR (HEFEI) CO., LTD. (TW SOLAR), Chiny	C-18
TOPIN	B-76
TRANSFER MULTISORT ELEKTRONIK Sp. z o.o., Polska	A-71
TSUNESS Co., Ltd., Chiny	C-5
UBETTER TECHNOLOGY COMPANY LIMITED, Chiny	A-85
Ufo Power Polska, Polska	A-53
ULAMEX ZBIGNIEW ZIENTEK, Polska	B-47
UNICAL POLSKA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	C-17
UNIMOT ENERGIA I GAZ SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-41
VASCO GROUP Sp. z o.o., Polska	B-15
VCE - Solgen sp. z o.o, Polska	E-31
Viessmann Sp. z o.o., Polska	E-27
Vilion (Shenzhen) New Energy Technology Co., Ltd., Chiny	A-2
VOLVETIA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	C-36
V-TAC Poland, Polska	B-2
W&H SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-35
WEIDMÜLLER SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	D-59
WIRE SOLUTIONS Grzegorz Bednarz, Polska	D-61
Wojewódzki Fundusz Ochrony Środowiska i Gospodarki Wodnej w Kielcach, Polska	C-28
Wolong ATB New Energy, Holandia	D-21
WOMIX WIESŁAW OŹDZIŃSKI, Polska	F-15
WROTECHNIKA SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	B-61
Wuxi Solintech Power Co., Ltd., Chiny	F-29
Wuxi Suntech Power Co., Ltd., Chiny	F-32
www.Energyka.Plus, Polska	A-89
Xiamen Invertech Co., Ltd., Chiny	D-17
Xiamen Kehua Digital Energy Tech Co.,Ltd, Chiny	C-29
Xiamen Kseing Metal Tech Co., Ltd., Chiny	A-7
Xining Solar Power, Chiny	A-58
XTG GREEN ENERGY SPÓŁKA AKCYJNA, Polska	B-71
Yingli Energy Development Co., Ltd., Chiny	A-4
Zakład Urządzenia i Utrzymywania Zieleni A. Popek, M. Popek, Spółka Jawna, Polska	B-39
ZAKŁAD USŁUG STUDIENNYCH BERNARD MARIAN WÓJCİK Sp. z o.o., Polska	E-7
ZAMEL Sp. z o. o., Polska	B-7
Z-ECOENERGY SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SPÓŁKA KOMANDYTOWA, Polska	D-49
Zhejiang Benyi Electric Co., Ltd., Chiny	C-27
Zhejiang ERA Solar Technology Co., Ltd., Chiny	E-18
Zhejiang Fulwill Electric Co., Ltd., Chiny	A-19
Zhejiang Hxyi Technology Co.,Ltd, Chiny	D-10
ZHEJIANG SIEKON ENERGY STORAGE TECHNOLOGY CO., LTD, Chiny	A-6
ZheJiang Unview Technologies Co., Ltd., Chiny	A-62
ZMIK SAS SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, Polska	A-37
ZNShine PV-Tech Co.,Ltd, Chiny	A-11
ZPUE S.A., Polska	B-11

Exhibitors list



Expo floor plan





7 lutego 2024 r.



8 lutego 2024 r.





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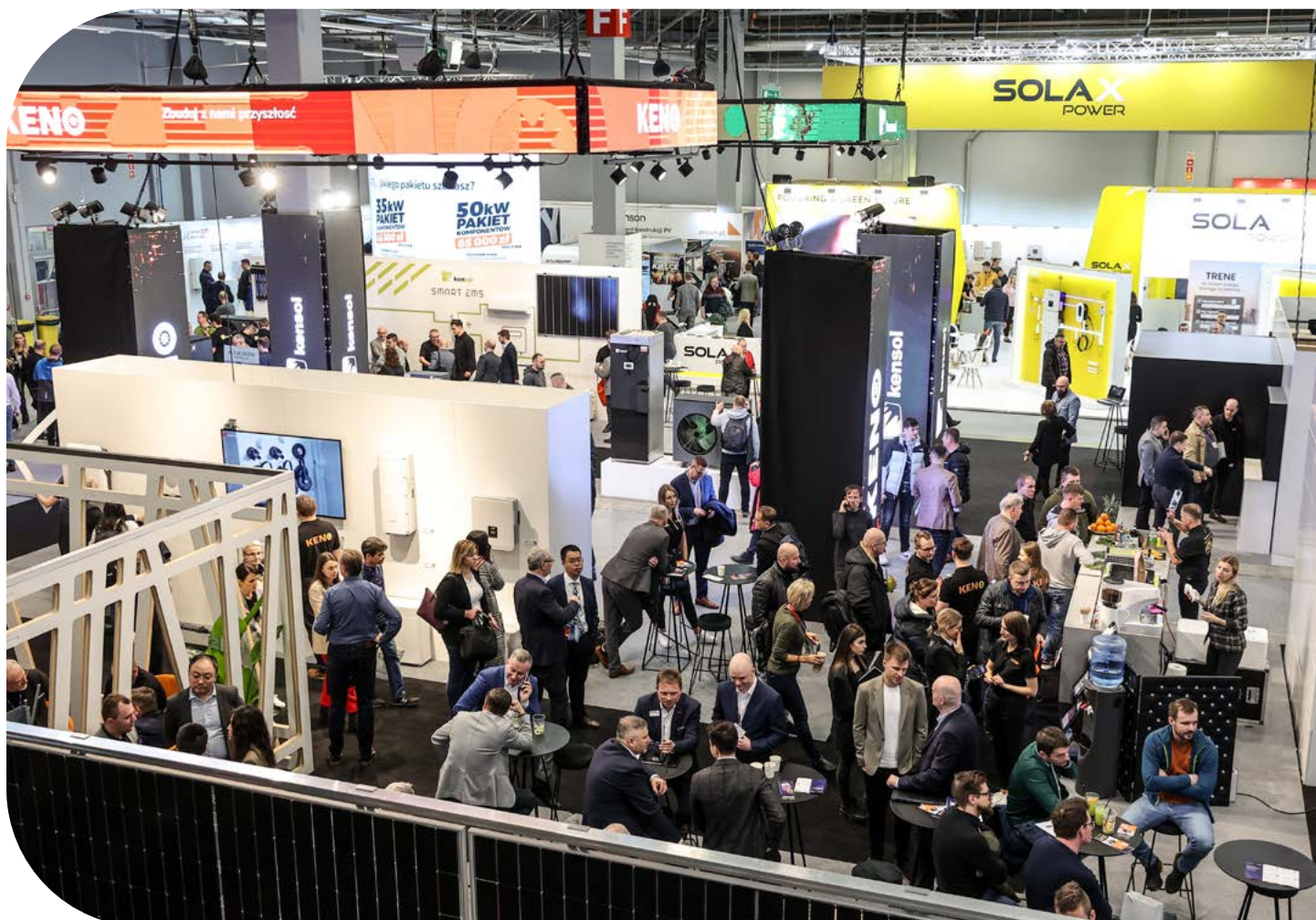


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We look forward to seeing
you at the upcoming expo!

→ 18-19.02.2025

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