

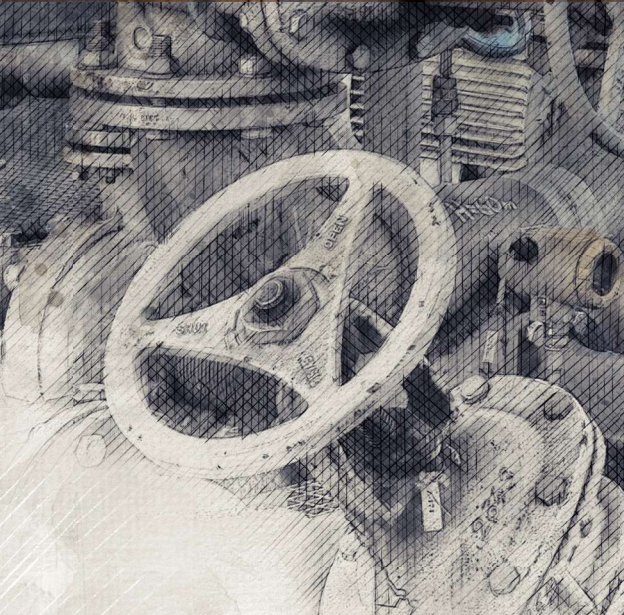
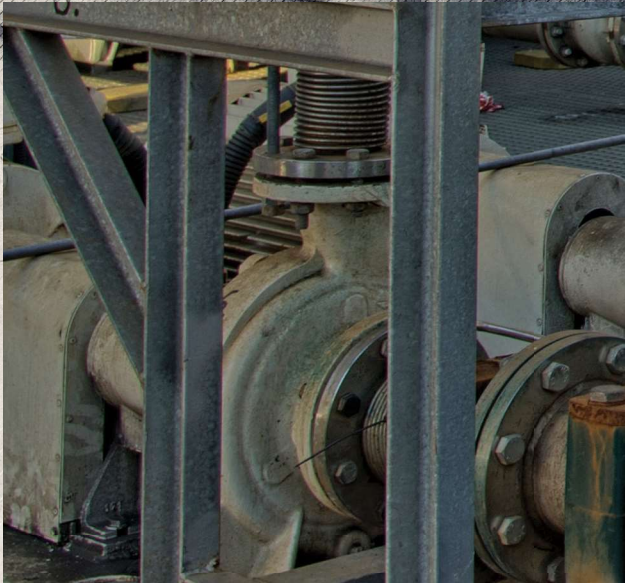


ENERGOPOMIĄT
ZACHÓD
WROCŁAW

WITH TRADITION TOWARDS MODERNITY

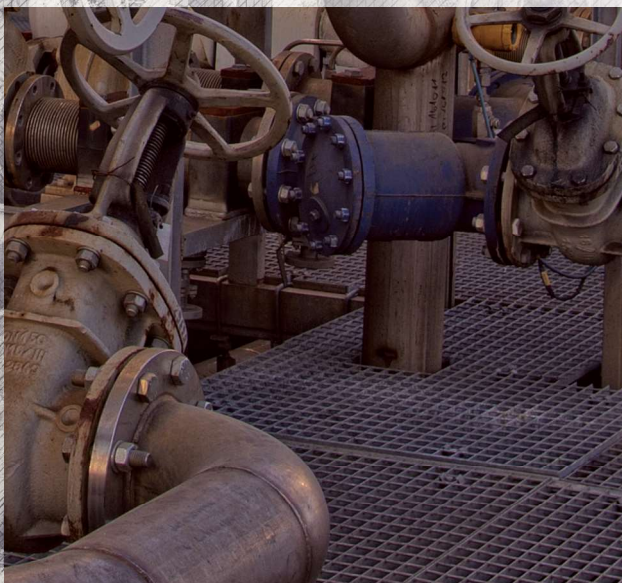
ENERGOPOMIĄT ZACHÓD WROCŁAW

Design, assembly, installation, modernization of power
engineering and industrial facilities



Ladies and Gentlemen

We are honoured to present to you Energomontaż Zachód Wrocław which since its inception has actively been participating in investment projects aimed at construction and development of the domestic industrial power engineering. This elaboration describes extensive experience in the implementation of the most complex projects for our clients and partners.



For 50 years, our leading activity have been the design, production, assembly, installation and overhauls of power generation units, including units with supercritical parameters of 1,000 MW. In the context of our line of business we assemble and overhaul all types of boilers, boiler hardware, steam and water turbines, pumps, fans with fittings, desulfurization and denitrification plants and installation equipment for other industries. We also specialize in the maintenance of complete power engineering plants and industrial facilities.

In our daily work, we use the experience and knowledge of our personnel. Our potential and capabilities coming from the operation within a strong ZARMEN Capital Group allow for a comprehensive adaptation of our offer to the needs and expectations of the most demanding customers. From design, through production and prefabrication of components, to assembly and installation services on construction sites.

By keeping track of global market trends and the implementation of modern technologies, we offer products and services of the highest quality, as well as comprehensive service and support at every stage of collaboration. This makes us a company you can rely on and confidently entrust comprehensive implementation of your projects to.

**Management Board of
Energomontaż Zachód Wrocław Sp. z o.o.**

WITH TRADITION TOWARDS MODERNITY

1969

- Establishment of Przedsiębiorstwo Montażu Elektrowni i Urządzeń Przemysłowych "Energomontaż – Zachód" with its registered office in Wrocław.

1969-1989

- The dynamic development of the Company, as evidenced by commissioning of (among others):
 - 44 turbine sets with a total capacity of 3094 MW,
 - 105 steam boilers with a total capacity of 13,436 t/h of steam,
 - 59 water boilers with a total capacity of 2,147 Gcal/h.
- The acceptance for use 410 technology improvement designs, including 8 of an invention rank.
- Implementation of many energy investments in Poland, such as: Turów, Dolna Odra, Rybnik, Połaniec, Bełchatów, Opole.
- Involvement in the construction of many power plants, such as: "Wrocław", "Czechnica", "Poznań-Karolin", "Gorzów", "Zielona Góra", "Szczecin-Pomorzany", "Opole-Miasto".
- Participation in the construction of conventional and nuclear power plants in former Czechoslovakia, the USSR, East Germany and West Germany.

2008

- Mostostal-Energomontaż S.A. was created through the merger of Mostostal Kraków Firma Handlowa, Mostostal Kraków Produkcja and Energomontaż-Zachód.

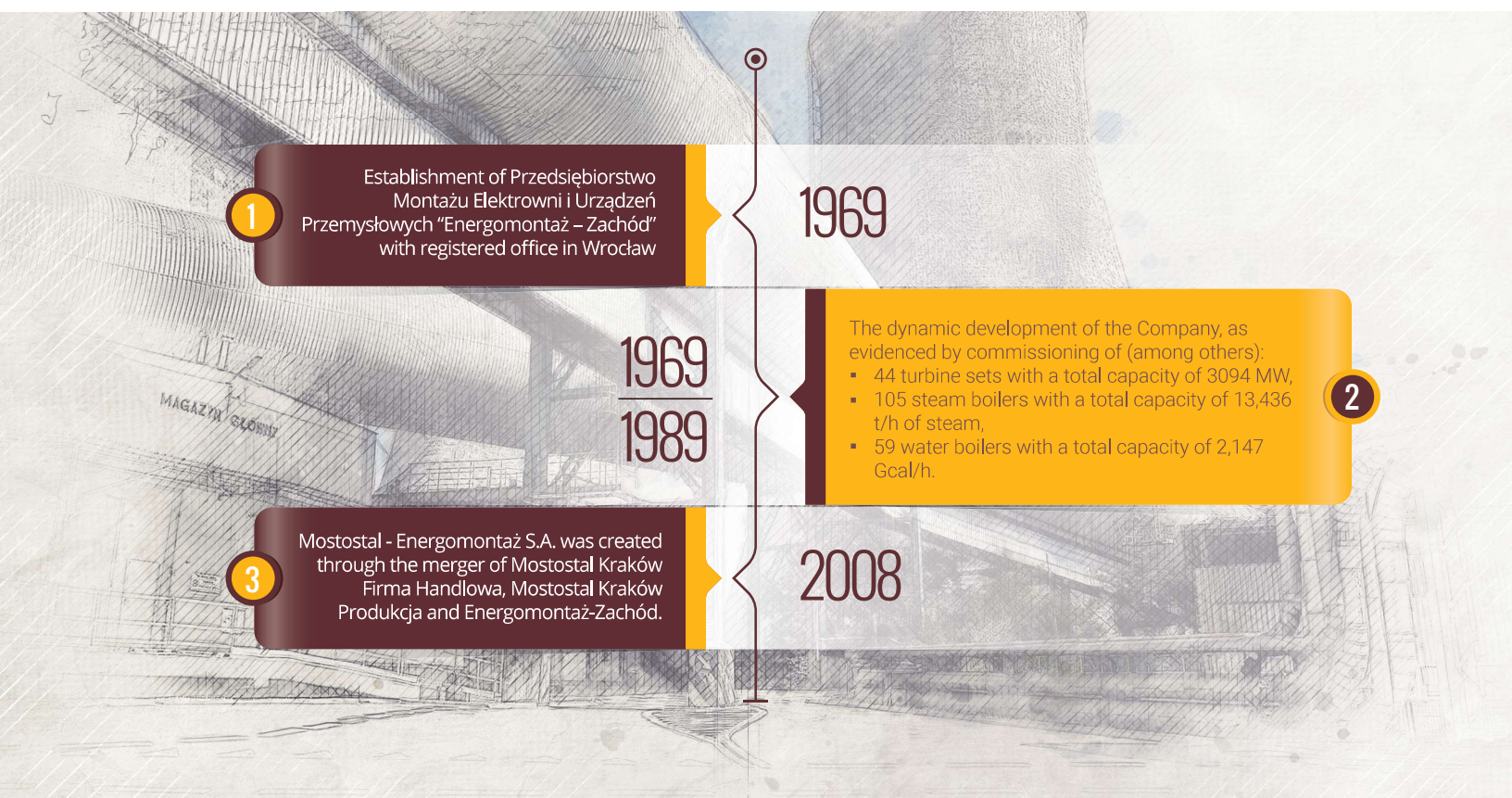
2010

- Sale of an organized part of the company under the name of Mostostal-Energomontaż S.A Oddział Montażowy, Energomontaż-Zachód Wrocław and Production Plant in Żmigród to Zarmen Sp. z o.o company.
- Establishment of Energomontaż Zachód Wrocław company based in Wrocław by Zarmen Sp. o.o.
- Transfer of Oddział Montażowy and Production Plant in Żmigród to Energomontaż Zachód Wrocław.

2012

- Acquisition of the experienced and qualified personnel of Energomontaż Południe S.A. by Energomontaż Zachód Wrocław.

50 years of experience



TRADITION - QUALITY - EXPERIENCE

3

2013

- Launching production in the new works of the Production Department in Żmigród.

2014

- Reorganization of the company structure
Separation of the following departments:
 - Boiler Department
 - Construction Department
 - Pipeline Department
 - Turbomachinery Department.
- Creation of Technical Facility Department in Łaziska Górne.

2015

- Recertification of the company in the context of the Integrated Management System and maintaining certificates attesting to compliance with the requirements consistent with standards: PN-EN ISO 9001, PN-EN ISO 14001, OHSAS 18001 as well as PN-EN ISO 3834 and PN-EN 1090-1+A1: 2012.
- Establishment of Research Laboratory and obtaining the certificate of lab approval, granted by the Technical Inspection Authority (UDT).

**GRUPA
ZARMEN**

2010

Sale of an organized part of the company under the name of Mostostal Energomontaż S.A Oddział Montażowy, Energomontaż Zachód Wrocław and Production Plant in Żmigród to the company Zarmen Sp. z o.o.

4

Establishment of Energomontaż Zachód Wrocław company based in Wrocław by Zarmen Sp. o.o.

5

Acquisition of the experienced and qualified personnel of Energomontaż Południe S.A. by Energomontaż Zachód Wrocław.

2012

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6

7

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Separation of the following departments:

- Boiler Department
- Construction Department
- Pipeline Department
- Turbomachinery Department
- Creation of Technical Facility Department in Łaziska Górne.

2014

2015

Recertification of the company in the context of the Integrated Management System and maintaining awarded certificates.

Establishment of Research Laboratory and obtaining the certificate of lab approval, granted by the Technical Inspection Authority (UDT).

8

For 50 years, Energomontaż Zachód Wrocław has been supporting the development of the Polish power engineering sector. The company specializes in the design, assembly, installation, modernization and repair of equipment and systems for power plants, as well as commercial and industrial combined heat and power plants.

Services offered are performed on our own. The Company assumes full responsibility for management of the complete project. Through the implementation of modern organizational solutions and high mobility of own departments, Energomontaż Zachód Wrocław is able to handle the challenges which require a high concentration of the production resources and the quick entry to the construction site.

Our asset is our staff

Currently the company employs more than 860 skilled employees on various positions:

- Management: 15 people,
- Engineering and technical personnel: 140 people,
- Quality control personnel: 15 people,
- Welding supervisors: 15 people,
- Welders: 100 people,
- Assembly and repair personnel: 380 people,
- Production personnel: 100 people,
- Research laboratory personnel: 4 people,
- Sales and accounting personnel: 35 people.



860
EMPLOYEES

Learn about our capabilities

Energomontaż Zachód Wrocław provides services in the following areas:

- Boilers, including steam and water boilers,
- Steam and technology pipelines,
- Pressure and non-pressure vessels,
- Flue gas treatment plants:
 - Dedusting systems (electrostatic precipitators, bag filters),
 - Desulphurisation and denitrification systems,
- Installation and repair of steam, water and gas turbines,
- Installation, repair and modernization of coal mills, dust ducts and burners,
- Installation and repair of flue gas ducts,
- Non-destructive testing, including VT, UT, MT, PT and hardness measurements,
- Modernization and repair of cooling towers and fan coolers,
- Steel structures of grade 1, 2 and 3,
- Bridge steel construction.



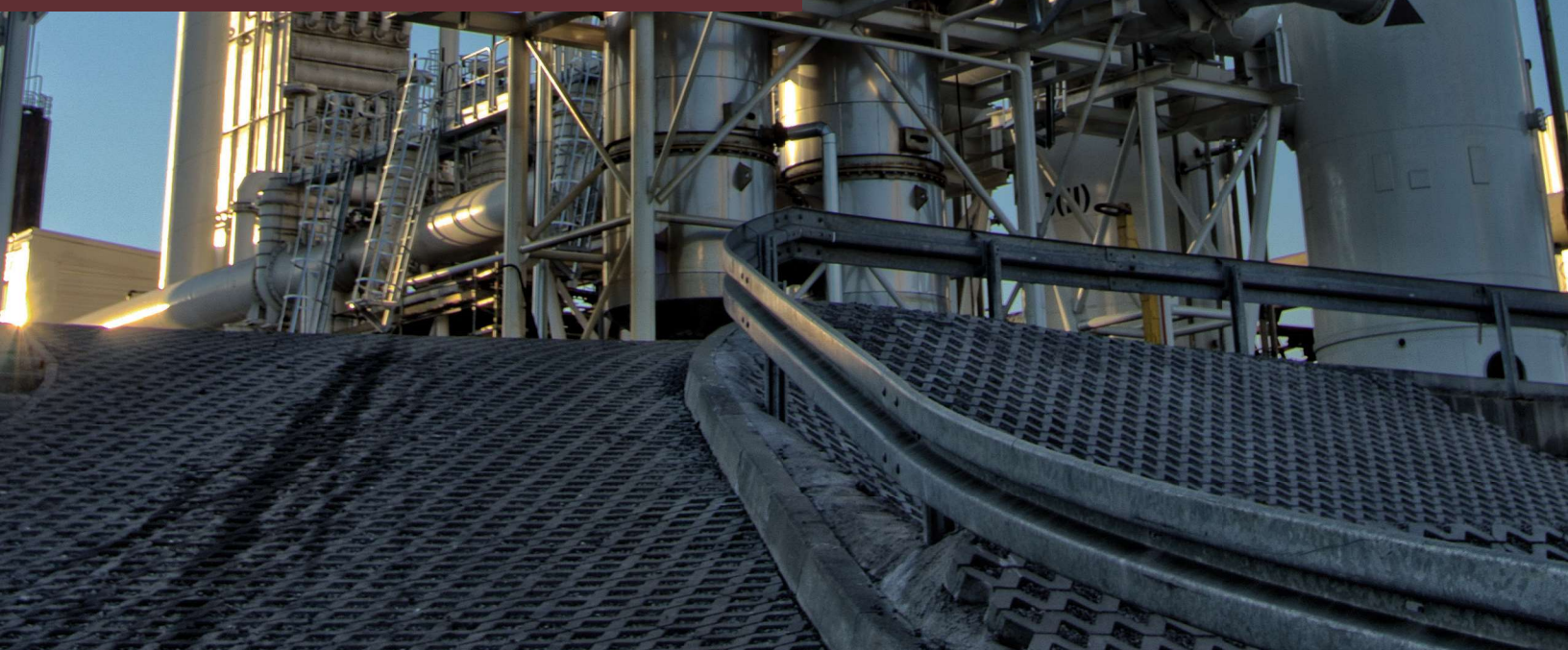
From design, through production, to installation and servicing

5

The company has its own Production Department located in Żmigród from which products are shipped to the domestic and the European Union markets. Production facilities with the area of over 11,000 m² allows manufacturing of the construction elements and equipment up to 25 tons and dimensions up to 25 m in length.

The basic range of manufacturing includes:

- large size tanks, silos and bunkers,
- flue gas ducts and pipelines,
- double shell steel chimneys,
- bag filters,
- equipment for power engineering and mining industries,
- construction of buildings, industrial houses, warehouses,
- bridge structures, trestle bridges and platforms,
- construction of lifting tower headframes, masts and chimneys,
- equipment manufactured according to individual design solutions.



Katowice Branch

Katowice is the key centre of the Upper Silesian Industrial District and the seat of Katowice Special Economic Zone. The most developed industrial branches of Upper Silesia region include mining, metallurgy, coke industry, power engineering, machine and chemical industries.

No wonder thus that the largest branch of Energomontaż Zachód Wrocław has been established in Katowice. The greatest potential of the Branch is the highly qualified and experienced engineering personnel.

The Katowice Branch consists of 6 specialized departments:



We build with energy for you

Energomontaż Zachód Wrocław Katowice Branch offers its services to:

- power plants,
- combined heat and power plants,
- coking plants,
- refineries,
- chemical plants,
- cement plants,
- mining plants,
- breweries and food production plants in the field of assembling of equipment and industrial installations.

The offer of the Katowice Branch includes assembly, modernization and repair of equipment and installations, such as:

- steam and water boilers,
- auxiliary facilities and installations,
- steam and technological piping within boiler rooms and engine rooms,
- flue gas and air ducts,
- steel structures,
- pumps and fans,
- cooling towers and fan coolers,
- chimneys.



Construction Department

The Construction Department comprehensively executes non-standard projects which require development of the project or implementation of innovative solutions, as a general contractor or in the form of a consortium. The knowledge of business activity of Energomontaż Zachód Wrocław gained over the years and experienced managers and engineers of the Construction Department make the highest quality services delivery and fulfilling the Clients' increasingly higher requirements possible.

The department's offer is directed to the following sectors:

- industrial power engineering,
- chemical industry,
- petrochemical industry,
- metallurgical industry,
- environmental protection,
- investments associated with the above-mentioned sectors.



The Construction Department carries out projects in:

- flue gas treatment plants, absorbers,
- repair and modernization of electrostatic precipitators and bag filters,
- repair and installation of all types of ducts,
- construction of multi-layered vessels for various purposes,
- installation of technical and building structures,
- construction of steel chimneys with the use of protective coatings,
- building and construction work,
- execution of tasks in the turnkey formula,
- other investments requiring the implementation of individual solutions.

Boiler Department

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The Department specializes in the areas of work related to the construction, modernization and revitalization of innovative power boilers in the role of General Contractor of turnkey projects.

Qualified personnel is an element which constitutes the strength and potential of the department in terms of the work performed on boilers and auxiliary equipment. Knowledge of workers derives from many years of experience gained directly on construction sites.

The Boiler Department carries out projects in the following areas:

- assembly and repairs of steam boilers, including supercritical parameter boilers and water boilers,
- overhauls and on-going inspections of boilers and installation of auxiliary equipment,
- modernization including design work, supply of elements and equipment, and on-site installation,
- maintenance and servicing of boilers, equipment and boiler systems,
- start-up of modernized facilities,
- execution of bespoke and custom tasks forced by changes to the EU legislation,
- technical advice in terms of capabilities and profitability of introducing new solutions.



Turbomachinery Department

For many years, the Turbomachinery Department has been delivering its services both in throughout the country and abroad. Its structure consists of the following departments:

- **Turbines,**
- **Pumps and Fans,**
- **Valves and fittings,**
- **Production Preparation.**

With many years of experience and knowledge, the Turbomachinery Department executes work involving installation and overhauls for the following market segments:

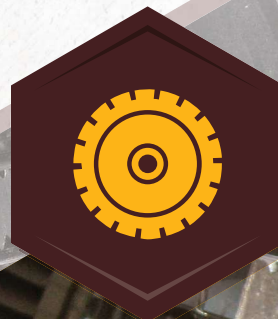
- **turbines:**
 - steam turbines
 - water turbines
 - gas turbines
- **compressors:**
 - radial compressors
 - axial compressors
 - screw compressors
- **fans and blowers:**
 - radial fans and blowers
 - axial fans and blowers
- **centrifugal pumps:**
 - single-stage centrifugal pumps
 - dual-stage centrifugal pumps
- **suction units and centrifuges**

The Department specializes in diagnostics, which includes:

- absolute vibration measurements,
- relative vibration measurements,
- dynamic state assessment,
- dynamic state analysis,
- balancing of the rotors in bearings.

The Department's wide range of services offered includes also:

- valves overhauls,
- workshop services in the field of machining,
- engineering services, e.g.:
 - expert opinions on the rotary machines technical condition,
 - technical consultancy,
 - diagnostics of machinery.



Pipeline Department

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The Department specializes in comprehensive services of installations, overhauls, servicing and modernization of pipelines and fittings. It performs orders in the existing facilities, as well as during construction of new power engineering units and industrial and chemical installations.

The qualified and experienced personnel of fitters and welders helps the Department to implement installation of pipelines and infrastructure for water, steam, oil and aggressive media; it also carries out work using complex welding technologies, both in Poland and abroad.

The Department's offer includes:

- overhauls and inspections of pipelines and auxiliary equipment,
- modernization involving design work, delivery of components and equipment, and on-site installation,
- installation, servicing and overhauls of high-, medium- and low-pressure infrastructure,
- pressure tests on completed installations,
- comprehensive installation of skids: constructions, equipment and pipelines.



The Department also specializes in:

- construction of installations made of austenitic stainless steel, with maintaining all installation regimes,
- welding and installation of alloy steel with high parameters designed to operate at high temperatures, and in aggressive environments, along with heat treatment.



Design Office

The Design Office specializes in the designing of all types of industrial facilities, such as production and storage halls, supporting structures for machinery and equipment, trestle bridges, ducts, etc.

The scope of development includes:

- statistical calculations,
- basic design,
- detailed design,
- workshop documentation,
- as-built documentation.

For the purpose of construction and economic optimization of designed facilities, computer-aided design software is used for cost estimation, calculation of statistics, 3-dimensional modelling etc. Design work are assisted by state-of-the-art computer programs: ROBOT, BOCAD 3D or Auto CAD.

In addition, the office draws up assembly method statements which are used by the Company's construction teams in the course of assembly and installation services for power plants, combined heat and power plants, chemical plants, concrete plants, sugar plants, steelworks, shipyards, paper plants, etc.



Everything
starts with a design...

Non-destructive Testing Laboratory

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The Laboratory has the highest quality research equipment from leading manufacturers which is regularly modernized and supplemented with the latest generation machinery. The entire instrumentation for testing as well as control and measurement is calibrated according to the equipment used by PCA-accredited laboratories. The Laboratory staff has many years of service and experience gained in the course of implementation of contracts for power plants, carried out both in Poland and abroad. The Non-Destructive Testing Laboratory provides services at the highest level in accordance with applicable standards and strictly respecting the requirements of the PN-EN ISO/IEC 17025 standard.

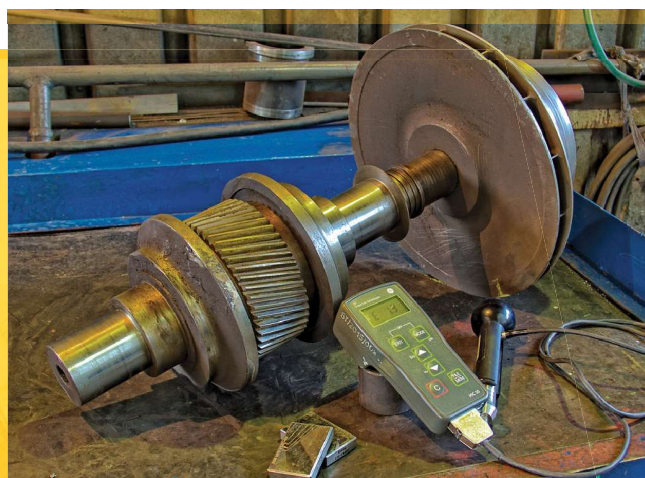


Non-Destructive Testing is performed by personnel certified according to:

- PN-EN ISO 9712 by UDT-CERT,
- Welding Institute,
- TÜV SÜD Industrie Service GmbH at level II and III.

The Testing Laboratory is approved by the Technical Inspection Authority UDT – LBU285/9-15 according to PN-EN ISO/IEC 17025 standard. Approved testing methods include:

- ultrasound (UT) method – defectoscopy and thickness measurement,
- visual test (VT) method,
- penetration test (PT) method,
- magnetic-particle test method,
- thickness measurement by dynamic HT method.



Production Department Żmigród

Products from the modern production plant launched in 2013 and located in Żmigród, are shipped to domestic and European Union markets. By focusing on identifying the best understanding of customers' needs, and also by following global trends and technologies, the Company offers the highest quality of products and comprehensive service and support at each of the stages of collaboration.

The structure of the plant consists of the following departments:

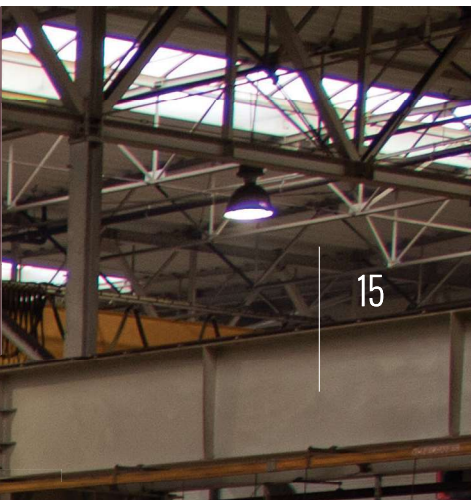
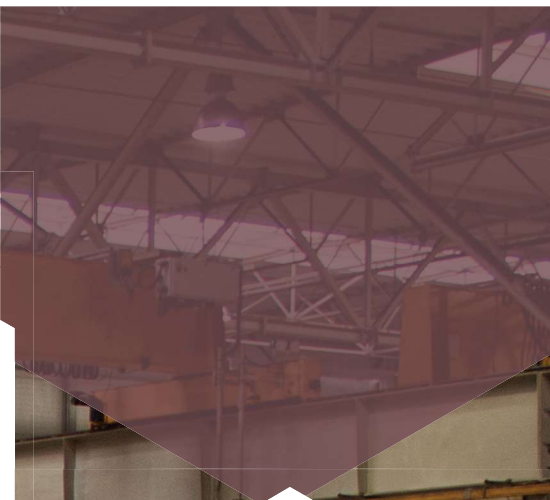
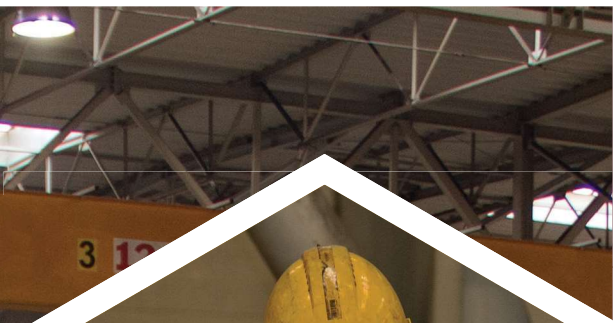
- **Technology Department,**
- **Production Department,**
- **Quality Control Department,**
- **Welding Department,**
- **Operation and Maintenance Department.**

Production facilities consist of a production and storage hall with a usable floor space of 11,000 m², in which each of the aisles is operated by 2 cranes (with a capacity of 6.3 - 20 t). This makes it possible to prefabricate structures and equipment up to 25 tons and with maximum dimensions of 25 meters.

The production plant is comprehensively equipped with:

- DAVI rolling mills for sheet with 3000 mm wide rolls, maximum sheet thickness of 40 mm over the entire range of width,
- rolling mills for sheets with 3000 mm wide rolls, maximum sheet thickness of 10 mm over the entire range of width,
- 3000 x 12000 mm CNC gas cutter,
- 300 T press brake with a width of 4000 mm,
- GEKA press for punching holes,
- horizontal and vertical hydraulic press,
- band saws (2 pcs), 500 x 500 mm max. cutting profile,
- ESAB column-and-boom manipulator for submerged arc welding - 4000 x 5000 mm,
- guillotine shears for metal,
- universal milling machine,
- horizontal milling machine,
- TUR 50 lathes (2 pcs),
- SciTeeX blasting pneumatic chamber, 4500 x 4500 x 20000 mm,
- Wheelabrator ROTO-JET RB 1500SL automatic pellet cleaner,
- ADAL paint spray units.





The main role of the Company's branch located in Płock is to deliver high quality design, installation and servicing offered by Energomontaż Zachód Wrocław to Clients in central-northern part of Poland.

The facility specializes in installation and comprehensive servicing and diagnostics of machinery, equipment, installation and technology lines for chemical, refinery and petrochemical industries.

A wide range of services includes also:

- overhauls and modernization of chemical industry plants,
- servicing of power engineering equipment, steam and water boilers, industrial furnaces and turbine units,
- maintenance and inspections, diagnostics and overhauls and modernization of auxiliary equipment,
- assembly of technology lines and industrial installations,
- construction and modernization of water and wastewater treatment plants,
- construction and repairs of storage tanks for fuels and other petroleum products,
- servicing, overhauls and regeneration of industrial valves and fittings.

The branch offers also installation and servicing of equipment, such as:

- heat exchangers,
- reference columns,
- air coolers,
- process boilers,
- storage tanks for crude oil,
- reactors,
- pumps,
- pipelines, including oil and gas pipelines.






Łaziska Branch

Technical Facility

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The Technical Facility is located in Łaziska Górne, at the Łaziska Power Plant area. It consists of two workshops with a total surface of 700 sq. m, a new office building and a warehouse with a base of highly specialized equipment and tools necessary to execute assembly and overhaul orders as well as repair and modernization services.

In addition, in order to maintain the highest quality of service, regular inspections, repairs and modernization of equipment and tools are performed in the branch, as well as training and verification of skills held by employed workers in order to maintain the highest quality of service.

The surface area of the first workshop is approx. 450 sq. m. It is equipped with a number of machines and devices:

- 3.2 T gantry crane,
- rolling mill for sheet metal,
- guillotine for sheet metal,
- circular saw,
- bending machines.



The second workshop comprises of a total area of approx. 250 sq. m and it is equipped with

- lathes,
- milling machines,
- surface grinder,
- band saws,
- column drilling machine,
- slotting machine.

The Technical Facility has an extended machinery and equipment stock, which includes:

- containers,
- welding machines,
- bevelling machines,
- heat treatment units,
- hoists, winches,
- forklifts,
- switching stations and all types of electrical appliances.

Belonging to the ZARMEN GROUP, Energomontaż Zachód Wrocław Sp. z o.o. has implemented quality management system:

- EN ISO 9001:2008 Reg. No. 20 100 151430476/00,
- EN ISO 14001:2004 Reg. No. 20 104 151430478/00,
- OHSAS 18001:2007 Reg. No. 20 116 151430477/00.

The company holds numerous licenses and certificates according to recognized Polish and international standards and regulations, including:

- Certificate EN ISO 3834-2 No. PZ/15/S/1403/SCHOE,
- Certificate EN 1090-1:2009+A1:2011 No. 0408-CPR-TA01438,
- Welding Certificate EN 1090-1:2009+A1:2011, EN 1090-2:2008+A1:2011 No. 0408-CPR-TA101438/1,
- UDT permission to repair of non-pressure tanks/low-pressure tanks, pipelines and fixed pressure tanks No. UC-28-183-N/3-15 dated on 10 Jan. 2015,
- UDT permission to repair gantries/cranes No. UD-28-131-N/2-15 dated on 10 Jan. 2015,
- UDT license to modernize non-pressure tanks/low-pressure tanks, pipelines and fixed pressure tanks No. UC-28-183-P/2-15 dated on 10 Jan. 2015,
- UDT permission to perform production for the installation of non-pressure tanks/low-pressure tanks and pipelines No. UC-28-183-M/2-15 dated on 10 Jan. 2015,
- EC Certificate of Compliance No. 52195/JN/001/04/1 in the fulfilment of the requirements of the module A1 in the production of pressure equipment,
- Laboratory Acceptance Certificate (by UDT) No. LBU-285/09-15 (fulfilment of requirements of PN-EN ISO/IEC 17025 dated on 28 Oct. 2015).

Energomontaż Zachód Wrocław holds also certificates issued by:

- Technical Inspection Authority (UDT) – for the manufacture, installation and repair of pressure equipment, for the manufacture and repair of crane equipment,
- TÜV Rheinland – for the manufacture, installation and repair of pressure vessels, pipelines and steam boilers, according to Pressure Equipment Directive 97/93/EC.

TÜV
AUSTRIA



Quality
confirmed by Certificates



Environmental Protection

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We care about the surrounding nature

Activities carried out by Energomontaż Zachód Wrocław can interfere with the natural environment. Therefore, the Company introduces solutions which allow effectively protect nature.

Publishing information about both significant and insignificant environmental aspects confirms the implementation of the requirements related to the environmental protection, which are regulated by the ISO 14001. Moreover, the Company strives to significantly reduce the impact on the environment that it may have during the implementation of various tasks.

Caring for the environment, as well as monitoring of environmental aspects are indispensable factors which focus on protection of natural components against the negative impact.

Identification of environmental aspects (both significant and insignificant) includes the following elements:

- organized and unorganized emissions into the atmosphere,
- electricity consumption,
- consumption of natural resources in the course of the company's business activities,
- emissions of wastewater,
- production of waste,
- potential contamination of the environment as a result of emergency situations.

Activities aimed at the elimination of environmental hazards include:

- the use of the latest technologies,
- the use of specialized and modern infrastructure correlated with information systems,
- proper management of post-industrial areas,
- waste segregation

and a number of activities, which may affect the improvement of environmental conditions.

The Company keeps improving its Integrated Management System, including the Environmental Management System, which is aimed at the entire reduction of environmental impact.

2016

Prefabrication, delivery and installation of pipelines, together with pumps, valves and other devices (cooling water pumps, raw cooling water system for ACW, DN2000 cooling water pipelines in the machine room and the process water system at ENEA Wytwarzanie Sp o.o. Koźienice. **POLIMEX-MOSTOSTAL S.A.**

Replacement of steam separator in the steam drum along with the examination of the technical condition of the OP-430 No. K-14 boiler drum. **PGNiG TERMIKA S.A.**

Installation of 2 HRSG8 heat recovery boilers for steam with a capacity of 63t/h and participation in the installation of gas turbines at the Gorzów CHP with a total output of 138MW (Investor: PGE). **AALBORG ENGINEERING A/S.**

Major overhaul of the TS-2 turbine set (WKW22/K-3000 type), together with auxiliary equipment. **TAMEH POLSKA Sp. z o.o.**

Installation of devices and systems of the engine room in the steam generation unit with an output of 50 MW at Tauron Ciepło ZW Tychy. **DOOSAN SKODA POWER s.r.o.**

Installation of devices and systems of the steam generation unit with an output of 50 MW at Tauron Ciepło ZW Tychy. **ELEKTROBUDOWA S.A.**

Modernization of the PTWM 4x100 MW boiler room at the Wola Heat Plant. **PGNiG TERMIKA S.A. PGNiG TERMIKA S.A.**

Modernization of 2x100 MW PTWM boilers at the Siekierki Combined Heat and Power Plant. **PGNiG TERMIKA S.A.**

Repair of exchangers in the ethylene system at the BAZAN refinery in Israel. **CLIMBEX S.A.**

Replacement of pipelines within the fan cold storage with development of foundations of the cell with cooperating facilities and systems at the Będzin Combined Heat and Power Plant. **UNISERV-PIECBUD S.A.**

Major overhaul of the TD-2 turbine set (T30-90/K-7000 typ), together with auxiliary equipment. **TAURON CIEPŁO S.A.**

Installation of ducts for the boiler No. 10 at the Bełchatów Power Plant. **BABCOCK BORSIG STEINMULLER GMBH.**

2015

Servicing of auxiliary equipment in 6 pcs of OP 650 and OP 380 boilers in 2015. **TAURON GENERATION S.A.**

Installation of 2 pcs of fuel oil tanks for oil boilers. **CHEMONT Sp. z o.o.**

Medium overhaul of the turbine generator set No. 6UP32 TZ1 with execution of turbine heating system. **ALSTOM POWER Sp. z o.o.**

Replacement of boiler hot air ducts with flaps, compensators and supporting structure of the boiler No. 9. **BABCOCK BORSIG STEINMULLER GMBH.**

General contracting in mechanical and innovative context of the monochloroacetic acid production system involving: tanks (30 units), heat exchangers (39 units), columns (9 units), blowers (5 units), pumps (68 units), ejectors (13 units), hydrogen compressor, skids (5 units), with a total output of approx. 700 t. **PCC MCAA Sp. z o.o.**

Renovation work at the Petrochemicals Department at PKN Orlen in Plock. **PKN ORLEN PŁOCK S.A.**

Medium overhaul of the OP 380 K2 boiler with a steam capacity of 380 t/h, covering chamber, heater, superheaters, steam drum, valves and equipment, insulation of brickwork. **TAURON GENERATION S.A.**

Medium overhaul of the Ofz-425 boiler No. 2 at the Siersza Power Plant covering the pressure section, auxiliary equipment and valves. **TAURON GENERATION S.A.**

Medium overhaul of the 13CK55 turbine at the ZWBB EC2 Czechowice-Dziedzice. **TAURON Heat Sp. z o.o.**

Medium overhaul of the OP 650 K11 boiler with a steam capacity of 650 t/h, covering a heater, superheater, steam drum, auxiliary equipment and valves. **TAURON GENERATION S.A.**

General overhaul of the OP 550 electrostatic precipitator No. 11 at the Łaziska Power Plant. **BILFINGER ELWO Sp. z o.o.**

Delivery and installation of a new steel chimney H = 120 ft 8.0 m. **UNISERV-PIECBUD S.A.**

Construction of the heat source at the power plant by heat insulation of 3 units of 220 MW turbines, covering heat exchangers, upgrade of turbines, steam and water piping and building up the accumulator in the design, deliveries, Control and Measurement Instruments and Automation. **ENERGA POWER OSTROŁĘKA S.A.**

Modernization and overhaul of the OP-650k boiler in the block No. 9, covering: auxiliary equipment and boiler systems. **TAURON GENERATION S.A.**

Modernization and overhaul of the OP-650k boiler in the block No. 9, covering: pressure sections, insulation, boiler air and fuel supply system, high pressure valves and equipment, blowing the boiler after the completion of installation. **TAURON GENERATION S.A.**

Delivery and assembly of pipelines and technological devices in the course of building and installations of coke oven gas treatment – the so-called "carbon-based system". **NOWA KOKSOWNIA CZĘSTOCHOWA.**

Installation and delivery of technological pipelines and sanitary devices on the carbon-based system. **ARCELOORMITTAL.**

2014

- Modernization of superheaters in the OFZ 450A and B fluidized bed boiler at the Żerań CHPP. **PGNiG TERMIKA S.A.**
- Modernization and overhaul of the TK 230 turbine set in the block No. 9 covering repair of the condenser with a partial replacement of tubing. **TAURON GENERATION S.A.**
- Installation of extraction and condensing turbine generator set with a capacity of approx. 58 MW at the Nowa ZW, including the installation of turbine, generator, condenser, control and shut-off valves, oil system, stuffing box steam, regeneration. **CONTROL PROCESS S.A.**
- Restoration of devices in the biomass feeding system at the Łaziska Power Plant. **TAURON GENERATION S.A.**
- Modernization and overhaul of the TK230 turbine set in the block No. 9, part 3: Partial replacement and repair of valves, piping and turbine set system. **ZAKŁADY REMONTOWE ENERGETYKI KATOWICE S.A.**
- Modernization of starting oil burners in the OFZ 450 fluidized bed boiler A and B together with oil infrastructure at Żerań CHPP. **PGNiG TERMIKA S.A.**
- Dismantling and installation of piping in P4 and M4 steam superheaters with the replacement of superheater headers during the renovation of the BB1150 boiler No. 11 at the Bełchatów Power Plant. **JWW INVEST S.A.**
- Replacement of pressure parts in the OP 130 boiler, No. K1 and K3. **Zespół Elektrociepłowni Wrocławskich KOGENERACJA S.A.**
- Repair of the second pass and draught passages of the K3 boiler at the Jaworzno Power Plant. **ZEC SERVICE Sp. z o.o.**
- Installation of 3 absorbers for the IOS systems at Wrocław, Kraków & Gdańsk power plants. **ENERGA SERVICE Sp. z o.o.**
- Modernization of the OP 430 No. 4 steam drum separation unit at the EDF Polska, Branch No. 1 in Krakow. **EDF POLSKA S.A.**
- Medium overhaul of the coal feed and ash discharge devices for the Ofz-425 boiler No. 1 at the Siersza Power Plant. **TAURON GENERATION S.A.**
- Overhaul of the air heater in the fluidized bed boiler and overhaul of the compensator and armour of the rear walls of the second pass of the CFB-100 boiler. **TAURON Heat Sp. z o.o.**
- Median overhaul of the TG No. 3 of the 125 MW unit. **TAURON GENERATION S.A.**
- General overhaul of the 2MW2 coal mill in the block No. 2. **PUUH JAWIREM Sp. z o.o.**
- Overhaul of 4VRK 200/300 type air compressors. **PGE GÓRNICTWO I ENERGETYKA KONWENCJONALNA S.A.**

2013

- Emergency repairs of the pumps in engine rooms. **PKE S.A.**
- Modernization and overhaul of the K10 OP 650 boiler covering the repair of steam and water pipelines. **TAURON GENERATION S.A.**
- Modernization and overhaul of the turbine in the block No. 10, 225 MW covering the repair of steam and water pipelines. **ZAKŁADY REMONTOWE ENERGETYKI KATOWICE S.A.**
- Repair of the HZ-1 hydropower unit with an output of 10.5 MW. **PGE ENERGIA ODNAWIALNA S.A.**
- Repair and modernization of slag hoppers with the delivery of OP 550 boilers slag traps for blocks No. 1, 2 and 5. **TAURON GENERATION S.A.**
- Major overhaul of the OP 380 boiler No. 7. **JWW INVEST S.A.**
- Overhaul of the OCG-420 boiler No. 5 in the Boiler Department at the Combined Heat and Power Plant (CHP) at the PKN Orlen in Płock, covering replacement of steam pipelines connecting the superheaters. **CKTIS S.A.**
- Repair of valves and auxiliary devices of the B1 turbine No. 5 200 MW. **TAURON GENERATION S.A.**
- Installation and transport of the 4 MW gas engine for factory inspection. **SPÓŁKA ENERGETYCZNA "JASTRZĘBIE" ELEKTROCIĘPŁOWNIA PNÓWEK.**
- Medium overhaul of the OFz- 425 boiler No. 2 covering pressure and firing sections. **TAURON GENERATION S.A.**
- Construction of a cogeneration unit with coke oven gas fired 3MWe engine. **SPÓŁKA ENERGETYCZNA "JASTRZĘBIE" ELEKTROCIĘPŁOWNIA PNÓWEK.**
- Replacement of elbows in fresh and secondary steam pipelines of the boiler in the block No 1. **CHEMAR RUROCIĄGI Sp. z o.o.**

2011

- Delivery and installation of pipelines and technological devices, together with construction work during the installation of the coke oven gas after-treatment system, the so-called carbon-based systems at the ArcelorMittal Coking Plant in Cracow. **ARCELORMITTAL.**

The power of Synergy

The ZARMEN Capital Group is the market leader in comprehensive implementation of industrial projects in the region and brings together 12 companies. The strength and potential of the Capital Group lies primarily in a diversified range of activities of the companies, and owing to this – the diversified market segments served by individual entities.

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- HPH-Hutmaszprojekt Sp. z o.o.
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RUE

Electricity (all branches)



PROGRESJA

Steel structures



Zarmen FPA

Forging, forging production



REMAK

Power engineering (assembly, installations)

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REGON:	02132060700000
Share capital:	PLN 7,749,000.00

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