

## Case Study

# R&M MainServ Sp. z o.o. Elektrociepłownie Warszawskie S.A.

Internationale Fachmesse  
für industrielle Instandhaltung

**M,O,C, München**  
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## Ensuring 24-hour plant availability for three communal heating/power stations and two thermal power plants in the greater Warsaw area

**Sector**

1. **Maintenance services / Maintenance management for plants/machinery**
2. **Servicing / Servicing supplies / Tribology**
3. **Repair / Technology / Technical parts**

**Industry** **Energy**

**Brief description**

- Takeover of maintenance services, spare-parts management and various investment projects for three communal heating/power stations and two thermal power plants in the greater Warsaw area
- Ensure 24-hour plant availability and minimize downtimes
- Maintain the customer's safety standards and procedures, particularly with regard to safety regulations as well as work-safety and environmental-protection guidelines

**Tasks**

To optimize plant availability and maintenance costs for 3 communal heating/power stations and 2 thermal power plants that "Elektrociepłownie Warszawskie S.A." operates in the greater Warsaw area for the duration of the contract, i.e. from 2002 to 2008.

**Preparation**

When Rheinhold & Mahla AG took over "EW Services Sp. z o.o.", the former maintenance department of the Warsaw power plant "Elektrociepłownie Warszawskie S.A.", in 2004, fundamental changes to its maintenance procedures were necessary, particularly from a technical point of view. After assessing the spare-parts situation for all plant components, maintenance and inspection procedures were defined and technical documentation and evaluations were compiled. Logistics preparations were made to secure the long-term plans to replace the spare parts using framework agreements with suppliers. To increase the company's efficiency, service quality and technical qualifications, Balanced Scorecard (BSC) methods were used to introduce a matrix organization and management tools for all project and process-control procedures.

**Optimize plant availability and ensure compliance with EU standards**

*Poland's membership in the European Union made it necessary to adapt to EU standards. When Vattenfall AB purchased "Elektrociepłownie Warszawskie S.A." in the year 2000, it was looking for a strategic investor for maintenance, which it did not consider a core competency. As a provider of industrial maintenance and industrial-service solutions, one of Rheinhold & Mahla AG's strategic objectives was to increase its market presence in Poland and expand its service portfolio in the maintenance sector by purchasing "EW Services Sp. z o.o."*

"Elektrociepłownie Warszawskie S.A.'s" core business is the production of heating energy and electricity in its Siekierki, śerań and Pruszków heating/power stations in and in its Wola and Kawęczyn thermal power plants, all in the great Warsaw area. Rheinhold & Mahla has many years of experience in the maintenance sector and a long-term corporate strategy in the industrial-services sector in Poland. From the energy-supplier's point of view, this was an important factor for guaranteeing maintenance services of consistent quality, even beyond 2008, the theoretical end of the contractual period. The contract with R&M MainServ includes service and

maintenance and making regular repairs. If systems malfunction despite preventative measures, R&M MainServ can provide maintenance services on short notice. Other ongoing projects include resource planning, introducing a maintenance schedule, performing daily maintenance procedures including all routine tasks, the control and inspection of all maintenance services, performing maintenance and repair work and the delivery and installation of spare parts.

### Benefits

- Outsourcing maintenance and infrastructure services to external specialists makes it possible to concentrate on the core business.
- Minimized maintenance costs and reduced production costs.
- Increased availability by reducing equipment malfunctions.

### Customer

**Elektrociepłownie Warszawskie S.A.** (EW S.A.), a subsidiary of the Swedish Vattenfall Group, runs 3 communal heating and power stations that operate on the principle of combined heat and power coupling as well as 2 thermal power plants in the greater Warsaw area. In 2003 EW S.A. produced 3,400 GW/h of electricity and 42,994 TJ of heat. Vattenfall AB is the largest producer of electricity in Scandinavia and fifth-largest energy company in Europe. The Vattenfall Group produces, trades and sells energy to some 6 million customers throughout Europe. In the year 2000, Vattenfall AB acquired what is now a 69-percent share in EW S.A. and agreed to invest 650 million US dollars in EW S.A. over the next 10 years to bring EW S.A. up to standard technically, i.e. in compliance with the EU's environmental and safety standards.

Internet: <http://www.ew.pl>

### Contractor

**R&M MainServ Sp. z o.o.**, formerly EW Services Sp. z o.o., was founded in 2002 and was acquired by Rheinhold & Mahla AG two years later. It performs maintenance services and various investment projects at the "Elektrociepłownie Warszawskie S.A." plant in Warsaw. Rheinhold & Mahla AG, which is a member of the Bilfinger & Berger Group, was founded in 1887. It now employs more than 11,000 people worldwide and generates annual sales of more than 840 million euros. As a provider of services and intelligent maintenance concepts for the processing industry, R&M's service portfolio revolves around optimizing the lifecycle costs of machinery, equipment and complex systems. From shutdown projects and new construction and modernization projects to professional maintenance management, maximum availability of plants and machinery and efficiency are key aspects of the services it provides.

Internet: <http://www.rheinhold-mahla.com>

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### Maintain 2005

Munich International Trade Fairs celebrated the premiere of MAINTAIN, the International Trade Fair for Industrial Maintenance at the M,O,C, Event Center, from October 18 – 20, 2005. MAINTAIN is the only exhibition in Germany that provides experts and decision-makers in the processing and manufacturing industries with non-sector-specific information about modern solutions for the inspection, repair and maintenance of industrial plants and machinery. Thanks to practice-oriented reference projects, optimum market proximity is guaranteed. The fair examines the topic of industrial maintenance as a core competency and a factor of production. The exhibition is rounded out by forums and an up-to-date Internet platform.

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