Case study

FLOWBOX

Omega Optix: The Path to Energy Efficiency with FLOWBOX

OMEGA OPTIX

About the Company

Omega Optix is a prominent Czech manufacturer of optical and ophthalmic lenses with a long-standing tradition. The company operates a technologically demanding and energy-intensive production facility within a leased industrial complex with centrally managed reserved energy capacity. Omega Optix has long invested in the modernisation and automation of its processes, placing strong emphasis on sustainability and environmental responsibility — as evidenced by its energy management system certified to ISO 50001.

Project Goal

The primary objective of the project was to obtain detailed measurement and visibility into energy consumption across the production facility, and subsequently to optimise electricity usage based on this data. Prior to deploying FLOWBOX, Omega Optix had access only to aggregate consumption figures, with no means of performing deeper energy management.

Key Benefits

- **Complete control over the production facility's electricity consumption**
- **Precise identification of energy flows, unaccounted consumption, and energy-intensive production processes**
- **A data foundation for further optimisations and active energy management**

How FLOWBOX EMOS Helps Omega Optix

Design and installation of a complete measurement infrastructure

FLOWBOX designed the technical solution for measuring both electricity and production processes, and ensured its rapid implementation.

Detailed electricity consumption monitoring

The system provides both an overall consumption overview and a granular view of individual technologies.

Compressor room integration

FLOWBOX monitors compressed air production as one of the most energy-intensive areas of the operation.

Data visualisation

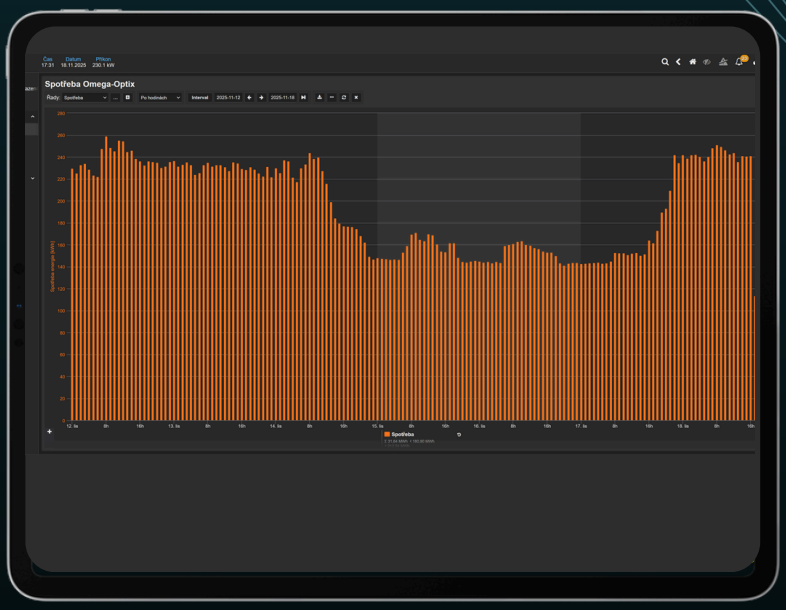
Key energy values are displayed directly on screens throughout the facility for immediate at-a-glance awareness.

Notifications, reporting, and optimisation support

The system enables custom alerts, generates clear reports, and provides accurate data for both optimisation initiatives and ISO 50001 reporting.

Data analysis and inefficiency identification

Regular evaluation of measured data helps uncover inefficient operating states and unaccounted consumption patterns.



What They Say About FLOWBOX

"In response to long-term geopolitical challenges and developments in energy markets, our company has been systematically focusing on improving energy efficiency across both water and electricity consumption, with the aim of maintaining our competitive edge. FLOWBOX enabled us to identify key areas of improvement in our energy management and to put in place appropriate measures for their effective and responsible governance."

Michal Tůma, Technical engineering manager
Omega Optix s.r.o.

FLOWBOX

Gartner

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International Organization for Standardization ISO 27001

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