

Metal processing company achieves
significant heating cost savings through
smart offices

Metal processing | 220 employees | 1 production site

Challenge



Solution



Benefit



Architecture



Company



In a nutshell

A leading wire and rod manufacturing company optimizes the energy efficiency of its production and building management with Cybus Connectware. As a result, they achieve significant cost savings in heating costs.





Challenge

Eliminate the manual labor of heating control to reduce above average heating costs

In times of rising energy costs, the metal processing company is looking to reduce their heating costs and improve its carbon footprint. With employees having to manually turn down the radiator thermostats, heating is inefficient and often results in empty rooms being heated unnecessarily.

A challenging factor is an aging building technology and heating system that lacks connectivity and flexibility. The company needs a solution that is able to connect the heating system and the employee attendance data automatically, efficiently, sustainably and without additional investment.

Challenge

**High heating costs due to
legacy building technology**

**Manual radiator control
required by the employees**

**Find cost saving potentials
beyond the manufacturing
processes**



Solution

Automatically control heating based on employee presence

The company replaces the old thermostats with MQTT-compatible smart thermostats, which are connected to the human resource management system via Cybus Connectware. This centralized Factory Data Hub collects, standardizes, pre-processes, contextualizes and dispatches data to specific target systems in nearly real time.

Already using Connectware for their production processes, the company has already achieved significant improvements of quality assurance and scrap reduction. With the experience of previous use cases, the company is able to implement the heating optimization solution independently without needing support from Cybus.

Now, the radiators are automatically turned down when employees are absent, as well as during night, on weekends and holidays in over 100 administrative rooms. In the future, the production halls will also be integrated.

✓ Solution

**Thermostats made smart via
MQTT connection to already
existing Connectware**

**Employee presence-based
heating control**

**Automate the manual
heating control**



Benefit

Heating costs significantly reduced without additional software investment

By automating the control of heating systems, the company is able to save significant heating costs. No additional software investment was required as the existing data infrastructure used in manufacturing can also be leveraged for building management.

Reduced energy consumption not only leads to cost savings, but also improves the company's environmental footprint. Eliminating the need to manually adjust radiator thermostats ensures consistent comfort for employees while eliminating human error. With push notifications and alarms, employees are notified via a web application and can adjust the temperature remotely.

Thanks to the versatility and scalability of Connectware, the solution could be implemented in just a few days, providing an excellent cost-benefit ratio.

Benefit

**Heating costs
significantly reduced**

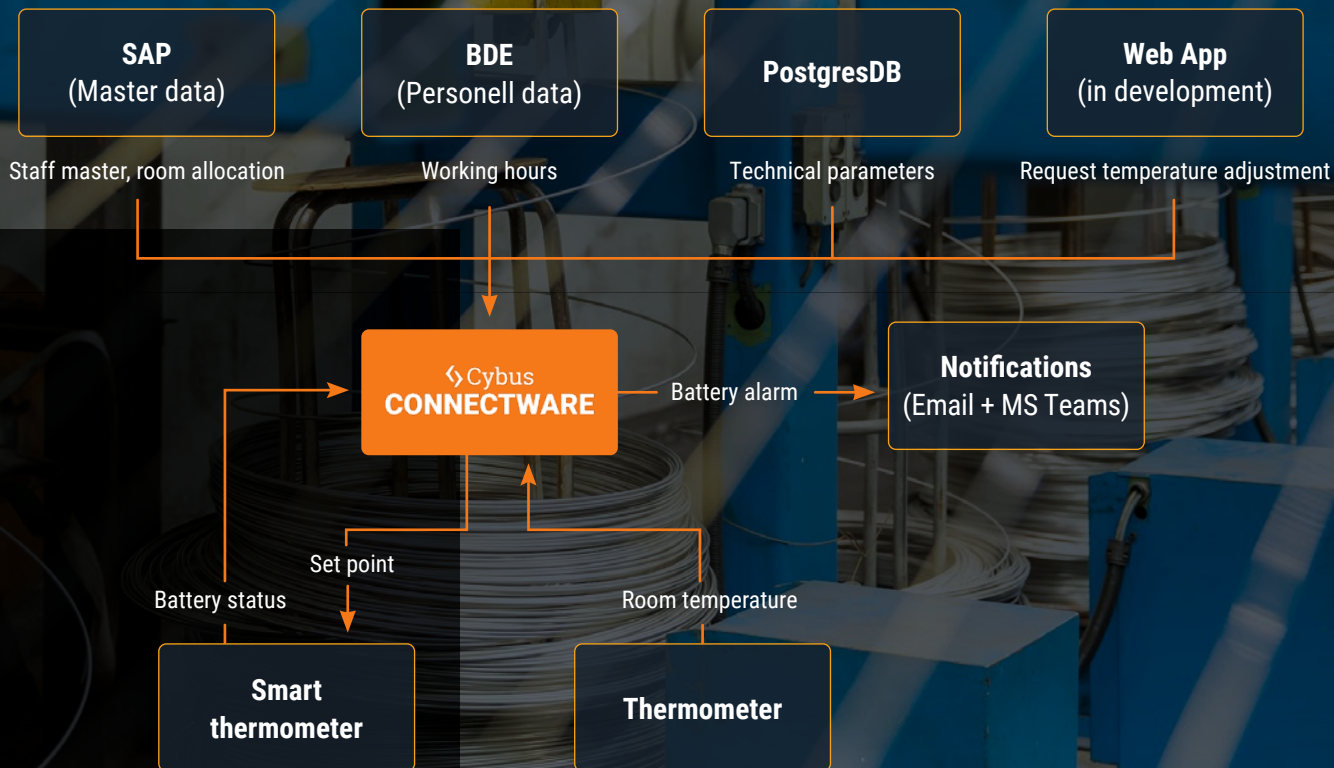
**No further software
investment needed**

**Highly scalable,
future-proof system**



Architecture

- **Connectware installed on-premises**
- **Integration of thermostats (temperature, battery level) and personnel management system (personnel master data, room booking data, working hours)**
- **Push-notifications and alarms to a Webapp for employees**





Company

An internationally renowned company in the metal industry with its headquarters in Central Europe specializes in the production of nickel and nickel wire alloy and rod, sold to various industries worldwide. Thanks to its commitment to research and development, the company places special emphasis on the continuous improvement of its products to meet the ever-changing needs of the industry. With a tradition of innovation and excellence, the company has secured a place at the forefront of the nickel processing segment.

Are you prepared for the future of manufacturing?

Contact us and learn how to unlock the full potential of your production.

Discover more success stories from Cybus and explore Connectware's capabilities.

In a session with our Industrial IoT specialists, we will assess your requirements and you can experience Connectware first-hand through a live demo.



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