

SUSTAINABLE ENERGY

for Education

FENECON Commercial 92

Public Institution



"Thanks to the PV system with battery storage, we have been able to reduce costs, as we now need to purchase less electricity. The FEMS Apps are also valuable additions. We use it to monitor the school's entire energy demand, making it easy to identify peak consumption times."

Johannes Schmidt, District of Eichstätt

Vision

The main driver for implementing the project was the ambition to make the energy supply of the high school Beilngries more sustainable, efficient, and independent.

With an existing photovoltaic system already in place, the goal was to increase the share of self-consumption while simultaneously reducing peak loads. In addition, there was a strong educational interest in making modern energy technologies tangible for students and integrating the energy transition into everyday school life.

The school sees itself not only as an educational institution, but also as a role model for sustainable action—both for its students and for the wider region. In times of escalating climate challenges and rising energy costs, the high school sought to take a clear and proactive stance: in support of climate protection, responsible resource use, and innovative technology.

Client Information

- District of Eichstätt, Germany
- Public Institution – School
- Eichstätt, Upper Bavaria
- Approx. 1 MWh/day average consumption
- Existing PV system; peak load periods during school operation



Watch the video here

Project Details

- FENECON Commercial 92
- 92 kW power
- 210 kWh capacity
- Installed by Volthaus GmbH
- Commissioning time: 6 hours (2 people)
- Self-consumption rate increased by 70%

Energy Management in Detail

- FEMS App Grid-Optimized Charging
- FEMS App Production and Consumption Meter



More info
about FEMS



Outcome

86%

Self-consumption rate

44 t

Monthly CO₂ Savings*

10,000 kWh

Reduced monthly electricity consumption

*based on data from the German Federal Environment Agency

Energy Journey

The decision to integrate a modern battery storage system such as the FENECON Commercial 92 was driven by the aim to make more efficient use of renewable energy while at the same time strengthening students' understanding of energy flows and sustainability through hands-on experience.

With the FENECON Commercial 92, a solution was found that combines both economic and environmental benefits—while also serving as a practical example of forward-looking energy technology.

“The FENECON Commercial 92 has been running very reliably for several months now. Thanks to the high self-consumption rate and the reduction in operating costs, we were able to meet all of the customer's expectations and provide a sustainable solution.”

Moritz Eisenhofer, Volthaus, Installer

