

15.6% Energy Savings at Hotel Alpendorf

OVERVIEW

Hotel Alpendorf is family hotel located in the heart of Sankt Johann, one of Austria's largest ski areas. The hotel has 80 rooms and operates year-round in both summer and winter as a romantic and family resort.

Hotel Alpendorf needed to become more energy efficient and reduce their electric consumption. Their electricity comprised of general lighting applications, kitchen and refrigeration equipment as well as air conditioning and heating systems. In total, they consumed between 230,000 kWh – 270,000 kWh per year.

SOLUTION

Hotel Alpendorf choose PowerSines universal energy efficiency controller for general loads in commercial applications (ComEC) due to ComEC's ability to dynamically control and stabilize the voltage provided to all loads, while ensuring that the right voltage is constantly supplied and immediately generating up to 18% energy savings.

In addition, by stabilizing and controlling the voltage, ComEC improves power quality, prevents equipment failures and extends their lifetime while reducing the facilities maintenance costs.

ComEC's light-weight and small footprint enables easy installation at any location with minimal disruption to operation. The system is connected after the main circuit breaker and does not require any changes to be made to the existing electrical infrastructure. The entire installation can be completed within hours.

PowerSines distributor, Elektro Schartner GmbH, has been providing energy solutions in Austria for over 3 years. With ComEC, their focus on the hotel market enables them to offer tailored solutions for each customer, cutting the total energy bill and optimizing the electrical efficiency for the entire facility.

RESULTS

The ComEC 3x250A model was selected to match the main circuit breaker of the facility. The system supplied electricity to all hotel appliances, HVAC and lighting circuits and was installed in the electric room.

ComEC provided 15.6% immediate energy savings. Hotel Alpendorf received an ROI within 2.9 years.

CASE STUDY

APPLICATION

Resort Hotel

RESULTS

15.6% Direct Saving

ROI within 2.9 years

BENEFITS

Quick and easy installation

No changes to existing electrical infrastructure

Voltage stabilization and control

Internal & manual bypass & protections

Decreases reactive energy

