



ComEC saves 12.4% of Electricity in IEC - Israel Electric Corporation

OVERVIEW

The Israel Electric Company (IEC) is the main supplier of electrical power in Israel. Established in 1921, IEC builds, maintains and operates power generation plants, sub-stations, as well as the transmission and distribution networks with an aggregate installed generating capacity of 11,664 MW. The company is the sole integrated electric utility in the State of Israel.

With the main focus on reliable supply and distribution of electricity across the country, IEC invests strongly in renewable energy and energy efficiency projects to contribute to the environment and sustainability.

SOLUTION

As a part of IEC corporate strategy for energy efficiency, IEC decided to implement PowerSines' ComEC in their facilities. The first system was installed at a typical office and workshop building located next to the Jerusalem sub-station. The facility occupies approximately 700 sqm., with electric loads such as lighting, kitchen equipment, refrigeration, heating and air conditioners and boiler room.

ComEC dynamically controls and stabilizes the voltage provided to all loads, ensuring the supply of the right voltage level and generating immediate energy savings. In addition, by stabilizing and controlling the voltage, ComEC improves power quality, preventing equipment failures, extending lifetime and reducing 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.

RESULTS

The ComEC 125A model was selected to match the main circuit breaker of the facility. The system supplies electricity to the entire office building and workstations, including lighting circuits, kitchen areas and HVAC.

ComEC provided 12.4% immediate energy savings on a 230V electric network and ROI of 2.5 years.

The system was connected to the PowerSines central EMS Server for continuous monitoring, control and management of the facility electric consumption.

"We chose PowerSines ComEC solution due to our knowledge of the success and reliability of the technology and results." said Alfred List, IEC Operation Manager. He continued, "We are satisfied with energy saving figures and advanced options for remote monitoring and control. This solution gives the right answers to reduce electricity cost, manage energy use and contribute to the green environment."

CASE STUDY

APPLICATION

Office Building and Workshop

BENEFITS

Up to 18% direct savings for all electric loads

ROI within 2 - 3 years

Quick and easy installation

No changes to existing electrical infrastructure

Voltage stabilization and control

Internal & manual bypass & protections

Decreases reactive energy

Remote control and monitoring

