PowerSines
Smart Energy Efficiency

Case Study

SmartLEC in MAN Trucks Automotive Factories

CUSTOMER PROFILE

MAN Group, the international trucks and buses manufacture leader, opened the new assembly facility in Niepolomice Industrial Zone near Krakow in 2007. The plant, one of the largest in Europe, is located on 142 hectare with covered production halls of 78,000 sqm. With annual capacity of 15,000 heavy vehicles weighting over 16 tones, the Niepolomice plant often runs in 3 shifts.

MAN has production facilities in seven countries at over 13 sites worldwide. In Poland only, MAN has five production plants.

As a company with global operations, MAN bears a special responsibility to contribute to the environment not only by designing highly efficient diesel engines, but also in saving energy and reducing CO_2 in their plants around the globe.

Direct 24% energy saving on high bay metal halide lamps

Fast and easy deployment with no interruption of production

Short ROI of 2.5 years based on direct energy saving only

Extends bulbs lifespan and reduces expenses for re-lamping & maintenance

SOLUTION

MAN Niepolomice plant uses a mix of high bay Metal Halide (MH) and fluorescent T8 fixtures combined with roof lighting in all their production halls.

The first SmartLEC system was installed in the Niepolomice plan in the mid of 2013. After 3 months of testing and collecting energy consumption related data, savings and lighting environment, the MAN management concluded that the SmartLEC system provides 24% significant saving with attractive ROI and fully complies with the lighting requirement in the factory. The most appealing fact was that the SmartLEC installation does not require any changes in the existing lighting infrastructure and fixtures, neither interruption in production. The minimum disturbance of production was the key factor for the decision.

After the final approval by the German headquarters, 11 SmartLEC systems in the range of 50A - 125A were deployed in all production facilities in Niepolomice plant.