

# CASE STUDY

## Schneider Electric factory – Latvia



Electricity consumption decreased by 31% and cooling capacity generation increased by 29% on average after the installation of the intelligent adiabatic **Smart Cooling™** system at Schneider Electric's Lexel factory."



### SHAKED, TESTED AND PROVEN.

Efficacy results were tested, analyzed and validated. Tests were performed using **BTU** liquid flow and temperature meter **RIF600** and energy monitoring equipment **Eniscope** analytics.

### CUSTOMER

Schneider Electric is a global leader in energy and automation efficiency. The 184-years-old company, which operates over 180 manufacturing facilities in several countries, has used the intelligent adiabatic **Smart Cooling™** system since 2011.

### CHALLENGE

Electricity consumption for cooling comprises the largest part of total electricity consumption in factories. Cooling is critical to ensure production processes in such facilities but energy costs can rank high. Schneider Electric sought solutions to reduce electricity consumption and boost efficiency of their cooling facilities.

### SOLUTION

To reduce operational costs with electricity, Schneider Electric opted for installing the intelligent adiabatic **Smart Cooling™** system on Lexel plant's cooling equipment and supply electricity consumption monitoring to assess the impact of Smart Cooling™ on the cooling process, i.e. reducing electricity consumption and boosting cooling capacity.

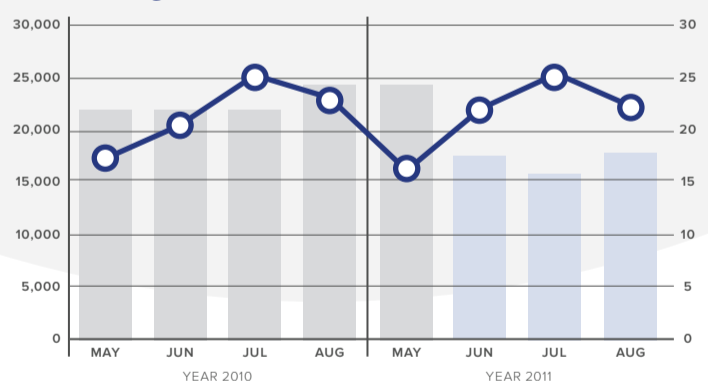


### RESULTS

In order to assess **Smart Cooling™**' system benefits, monitoring was conducted in one of Schneider Electric factories and a comparison was drawn between data from 2010, prior to the **Smart Cooling™** installation, and 2011, when the system was in operation. The assessment concluded that electricity consumption dropped by a whopping 31% with **Smart Cooling™**.

Changes in electricity consumption are depicted in the graph below. The return on investment period of **Smart Cooling™** is only 7 months for this project.

Electricity consumption before and after Smart Cooling™



COOLING CAPACITY INCREASED BY

↑ 29%



ELECTRIC ENERGY CONSUMPTION REDUCED BY

↓ 31%

ROI  
7  
MONTHS

The intelligent adiabatic **Smart Cooling™** system is a proven, state-of-the-art cost-saving pre-cooling technology.

- Modular system
- Suitable for all types of dry coolers and chillers
- Easy and fast installation
- Certified system and approved by major cooling equipment manufactures
- Minimal maintenance

