

### Case Study

### Industry Sector Building Technologies Division

Zug (Switzerland), June 28, 2010

#### **Desigo excels in high reliability and energy efficiency**

**Peikko as the leading company in the field of fixing technology modernizes the building systems of its headquarters in the Finnish city of Lahti. The building automation and control system they now use is the Desigo system from Siemens which excels in high reliability and energy efficiency.**

Peikko is a family-owned Finnish company holding a leading position in Europe in the field of fixing systems for prefabricated houses. The company was founded in 1965 and enjoyed continued growth ever since, thanks to state-of-the-art production technology and innovative research and development. Today, Peikko employs more than 700 people and has a network of subsidiaries and partners as well as production facilities in Finland, Germany, Slovakia and Lithuania.

Based on its comprehensive know-how in the field of fixing technology for prefabricated reinforced concrete structures, Peikko started to develop a standardized anchorage system for wind turbine towers in 2008. Now, the company also supplies anchorage rings and rods for the foundations plus welded turbine adapter rings including the associated mounting templates.

#### **Quality assurance and environmental protection**

Peikko attaches great importance to environmental compatibility plus product quality and strives to make efficient use of energy in production and operations. This is one of the reasons why the company wants to modernize its building systems at its headquarters in Lahti. The company's premises, located about 100 kilometers from Helsinki, encompass a three-storey office building, three production buildings with storage spaces and catering facilities. When constructed in 2006, the office building was equipped with the Desigo building automation and control system from Siemens.

The reliability and energy-efficient building operation the Desigo system demonstrated was the decisive factor for Peikko to migrate the existing third-party systems in the production buildings step by step to the Desigo version 4.

The innovative HVAC applications, developed to enhance energy efficiency, the new engineering tool Desigo XWorks plus, and especially the new generation of devices for the automation and I/O level enable the Desigo generation V4 to offer a host of innovations that ensure even more efficient plant operation.

### **Experience gained with Desigo**

“As a result of the excellent performance of the Desigo system in place, we decided to replace the existing systems in the production buildings by the latest Desigo version. Desigo enables us to operate our buildings even more efficiently and to further cut operating costs thanks to the energy saving choices the system offers. At the same time, we make a contribution to sustained and environment-friendly energy usage“, said Pekka Jouhio, building maintenance manager. “Another significant aspect for us is the high level of integration capability of the Desigo system in comparison with other systems and the excellent after-sales service Siemens provides.”

### **Seamless substitution of system**

One of the six third-party systems installed in the production buildings has already been replaced by the new version of the Desigo system. Over the next few years, the other five systems will be migrated step by step.

“The greatest challenge we faced when migrating to Desigo was to make sure that the systems could be replaced seamlessly with no plant downtimes“, said Tero Viherlehto, Siemens’ project leader. “We managed to make the changes without any major interruptions in operation. The experience we gained will allow us to manage the forthcoming system migrations even more efficiently.”

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