



# Karmøy Metal Works

## Aluminium Plant

Norway

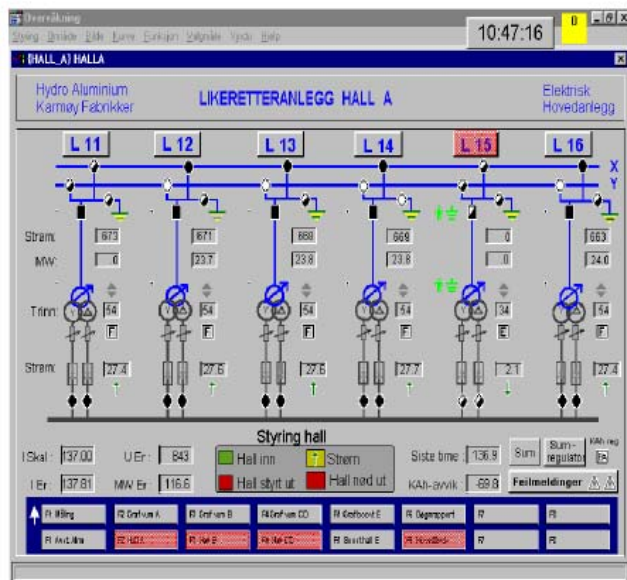
### Plant Description

The Karmøy Metal Works in Havik, Norway produces aluminium products for the packaging, automotive and building industries.

At the Karmøy plant, the main electrical distribution system is monitored and controlled by IGSS as well as the auxiliary light and power system. There are 3 incoming transmission lines of 300 kV, 5 main transformers 300 kV/22 kV (100-160 MVA), 3 regulator transformers 22/22 kV (25 MVA), and 18 AC/DC converters placed in the 3 electrolysis units.



Production unit at Karmøy



Mimic of AC/DC converter equipment

## CUSTOMER CASE

### **Owner**

Hydro Aluminium, part of the Norsk Hydro Group, is the largest single manufacturer of primary metal and extruded aluminium products in Europe. Worldwide the company sells close to 3 million metric tons of aluminium annually and is the third largest producer of aluminium.

### **IGSS Application**

The IGSS system includes 5 operator stations in the control room and 2 operator stations in the operations control room for the electrolysis units. There are 6,600 objects in the IGSS configuration and 4 single-user backup licenses.

### **System Integrator**

The system was designed and commissioned by Siemens Norway.