

Control system for the production of silicates for Minova Ekochem Poland - Hall C

CLIENT

Minova is a global manufacturer and supplier of chemical and mechanical earth control products, adhesives and support equipment. With manufacturing plants on five continents and operations in more than 25 countries, Minova is an industry-leading provider of ground support solutions for the underground mining, construction, tunnelling and civil engineering industries. Minova is a member of the Orica Group.

TASK

Implementation of the automation system in the field of control for the silicate production for the Minova plant in Siemianowice Śląskie. The concept of the control system for the new silicate production in hall C consisted in the use of the Simatic S7-1500 controller with the TP1500 COMFORT operator panel, the KTP700 panel and distributed I / O modules connected by the Profinet network with the controller.

Elements of control systems:

- Central control cabinet equipped with Simatic S7 (CPU 1511-1PN) controller, operator panel (TP1500 COMFORT) and control equipment.
- Local control cabinets equipped with I / O modul ET200SP
- SCADA system based on Wonderware InTouch software connected to the S7 controller via Ethernet.

ACCOMPLISHED WORKS:

- Eplan electrical design
- Delivery and connection of control cabinets
- Designing and commissioning of the control system and HMI system
- Designing and commissioning of the SCADA

TECHNICAL SPECIFICATION:

- Siemens Simatic S7-1511-1PN Controller
- ABB ACS355 Drives
- Siemens TP1500 COMFORT and KTP700 BASIC HMI
- SCADA system based on Wonderware InTouch
- Profinet Network

