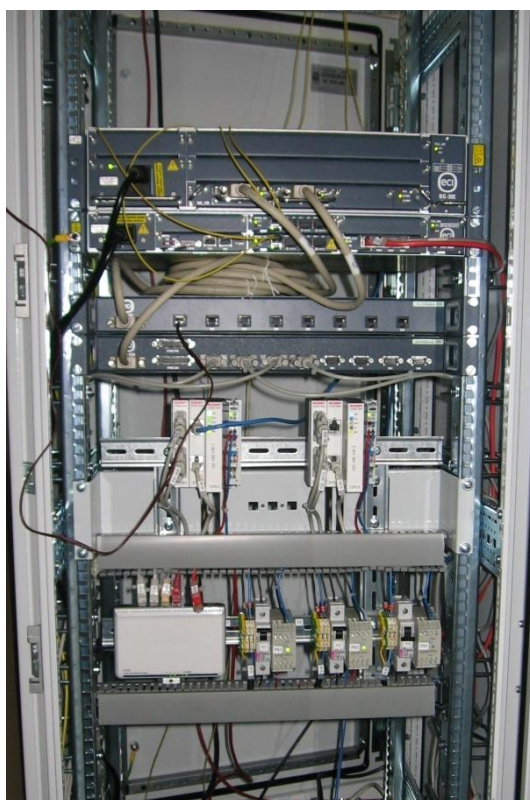


# **KORONA**

## **Telecommunication and information system for alarm data from HPP Golica**



### **INVESTOR**

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## SCOPE OF WORK

In HPP Golica (KW Koralpe) alarm data about the dam Soboth are capturing with RTU (Remote Terminal Unit) devices which conduct the entire plant. For maintenance of these facilities is responsible KELAG.

Administration of the Republic of Slovenia for Civil Protection and Disaster Relief (hereinafter referred to as ACPDR), the regional office in Slovenj Gradec and Maribor because of protection reasons needs the data and alarms about water level in accumulation basin, the quantity of leaking water, the water flow on border of river Bistrica.

KELAG the current alarm and measurement data also send in Slovenia via ELES's telecommunication network. The scope of the project was reconstruction of the Slovenian side of the telecommunication and information system for alarm data from HPP Golica.

The new telecommunication and control equipment are built in ACDPR Slovenj Gradec and Maribor. The new equipment provides:

- Compatibility with the existing telecommunications network of ELES,
- High reliability and availability performance,
- Remote monitoring and management, and diagnostics,
- Low power consumption and space.

The whole system is divided into two parts, the telecommunications equipment and RTU equipment with a video terminal with SCADA system.

In the ACDPR regional office in Slovenj Gradec a new NG SDH network element, the video terminal operator and two independent RTU's were installed. Each of RTU's independently communicated via two separate communication channels to the data source in HPP Golica. Communication with a source of data is carried out according to the protocol IEC 60870-5-101.

In the ACDPR regional office in Maribor a new NG SDH network element, the video terminal operator and one RTU with two serial communication interface was installed.

The new telecommunication and information system with SCADA system now assure more reliable system for alarm and measurement information about the water level in accumulation basin, the quantity of leaking water and the water flow of river Bistrica.