Verkehrsbetriebe Glattal VBG, Switzerland
Power Distribution Network for the Glattal Railway

The attractive public transport situation makes the Verkehrsbetriebe Glattal VBG a preferred residential and business area within the Zurich agglomeration. The Glattal railway is the key to optimally using its economic potential. In future, this modern metropolitan railway will serve 150,000 inhabitants and 120,000 employees within this area.

The power supply is paramount for the reliable operation of the railway. Therefore, the feeders are permanently monitored and controlled from the operations center. The entire communication is based on a redundant ABB SCADA Com solution.
Increased quality of life
The order from the Verkehrsbetriebe Glattal VBG on ABB as the general contractor in cooperation with other partners comprises the design and installation of the energy supply. The system solution comprises the network calculations for the optimum design of the installation. The final stage will comprise eight rectifier substations, which will supply the overhead contact wires with 600 volts DC.

The energy supply installation will be monitored around the clock via a fiber-optic connection to the operations center. Any deviations from the normal status will be immediately recognized and handled. If necessary, switching operations can be made directly from the operations center (remote control).

The communications solution
The communication network was designed based on the fiber-optic network with ABB SCADA Com Units. The signals are transmitted redundantly.

The benefits for the customer are:
- Monitoring and alerting up to the handover point
- Only one fiber is necessary for one connection
- Switch-over without time-delay
- Remote Management via the SCADA Com Manager
- Simple operation of the communications
- Transmission of RTU and metering information

For more information please contact:

ABB Switzerland Ltd
Power Systems
Brown Boveri Strasse 6
5400 Baden, Switzerland
Phone: +41 58 589 37 35
or +41 544 845 845 (Call Center)
Fax: +41 58 585 16 82
E-Mail: utility.communication@ch.abb.com
www.abb.com/utilitycommunications