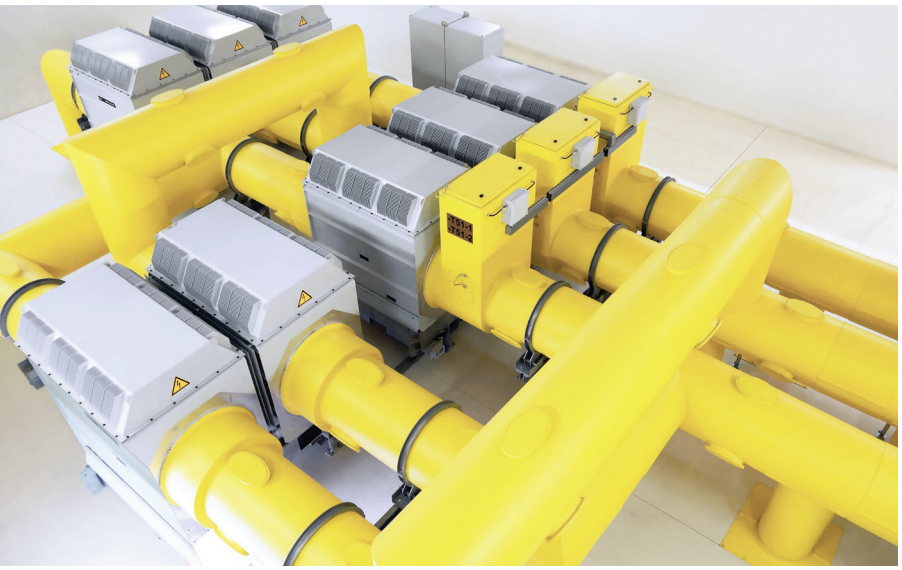
GENERATOR CIRCUIT-BREAKER | HECPS-3S

GCB HECPS in 185 MW AVCE pumped storage power plant

Clean energy production in Avče, Slovenia



ABB's fully integrated HECPS-3S, generator circuit-breaker (GCB) system helps increase safety and realibility in Avče pumped storage power plant, Slovenia.

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ABB's GCB HECPS-3S system for pumped storage power plant

Project background
Avče is Slovenia's first pumped storage power plant with a generation capacity of 185 megawatt (MW). Its location lies on the left bank of the river Soca, one of the most picturesque rivers in the country.

Hydro energy is pumped up and stored in the reservoirs of Avče until needed. During periods of high electrical demand, electricity can be generated quickly to balance the load and supply in the overall power system.

Advantages of ABB solution
- The only solution that integrates key functionalities for pumped storage system by a single manufacturer
- Compact system for easy transportation and handling
- Higher number of mechanical operations of 20,000 compared to standard equipment of 10,000.

ABB technology and solution
ABB's GCB HECPS-3S system is a complete and unique solution for pumped storage power plant to clear harmful short-circuits to prevent severe damages to the generator and transformer.

The HECPS-3s rated for a short-circuit breaking current up to 100 kA consists of three modules: the GCB, the 5-phase disconnector and the breaking switch.

GCB solution is integrated with GMS600 monitoring system to provide full control of GCB operational data that is accessible via the Internet anytime, anywhere.

Project		
Power Plant		**Avče**
Customer		**SENG**
Country		**Slovenia**
Type of GCB		HECPS-3S
Maximum operating voltage	kV	25.3
Nominal operating current	A	13500
Rated frequency	Hz	50
Short-circuit current	kA	100
Year of installation		2010

GCB HECPS-3S in Avče pumped storage power plant

ABB Ltd
High Voltage Products
Generator circuit-breaker

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