

Duresca® busbars in Hydroelectric power plant



ABB AS, Power Technologies Division, Norway placed an order for two three-phase links between generator and power transformer for the power station in Hunderfossen. It is located in the middle of the tourist areas Hunderfossen and Hafjell, north of the town of Lillehammer. Hunderfossen power station is one of the most famous power stations in Norway. The power station is characterized by a dam of 280 m long above the Gudbrandsdalslagen river.

The 16 m high dam has ten spill gates with a flood diversion capacity of 3000 m³/s. The power station has an absorption capacity of 320 m³/s.

The power station is set up inside the mountain, west of the river. The water is discharged into the river about 2 km downstream. The power station has 2 Kaplan turbines with a total effect of 11.6 MW. In the period 2000-2002, both blade wheels were changed with the result of a notable increase in production.





Old Installation



After renovation

The scope of supply of MGC consists in the delivery of these 2 links between Generator 1 to Transformer 1 and Generator 2 to Transformer 2. Both are located inside the building.

The main electrical data are:

- rated voltage : 12 kV
- rated current : 4000 A
- short time capability: 31,5 kA / 3 s

The total length of these 2 systems represents 315 m busbars, 36 bends and 30 connecting sleeves.

The fully insulated Duresca® busbars will replace an existing air insulated blank system. One of the reason is the increase of power and certainly also with the advantages of a fully insulated system.

As usual MGC will deliver the complete fixation and earthing hardware and all accessories like flanges and wall plates.

