



## ***AXCO-Motors delivers generators to Fonderia Hydropower Plant, Italy***

In June 2009, AXCO-Motors Oy (Ltd) delivered Direct-on-Line Permanent Magnet Generators to Fonderia HPP in Italy. The generators were integrated into the bulb-type Kaplan turbine supplied by WaterPumps WP Oy (Ltd), Finland. The goals of this investment were to increase the reliability of the plant and improve its ecological footprint.

### **Axco's scope of supply included:**

- Dimensioning and design of a permanent magnet generator to be integrated into the WaterPumps WP turbine structure
- Manufacturing and assembly of the generator
- FAT (Factory Acceptance Testing) for the complete turbine-generator set
- On-site commissioning.

### **Results:**

- Successful startup
- Power output of turbine unit: 530 kW as rated value
- Generator efficiency rose to 97.5%
- No gearbox necessary due to direct drive.





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