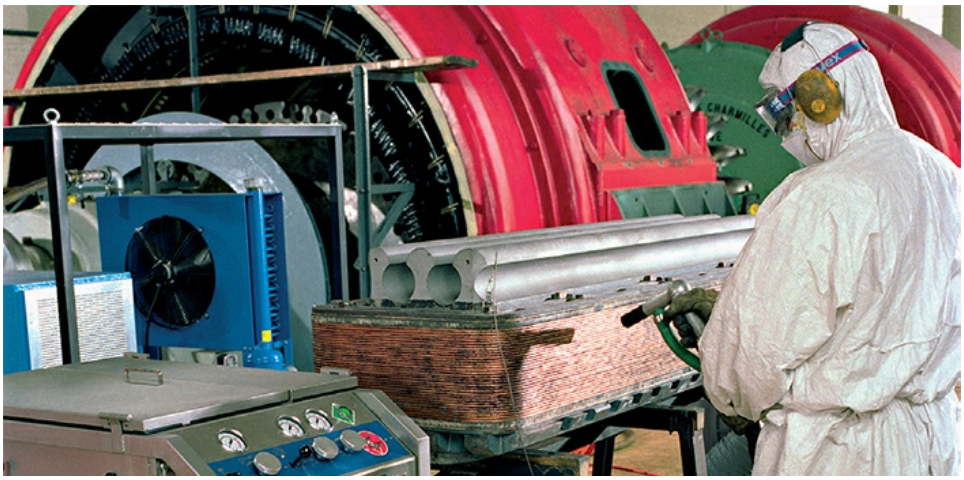
CLEANING
WITH CO2



Regular cleaning of electrical machines prevents harmful external pollution which can lead to failure and ultimately loss of production. Cleaning with CO2 projects particles of dry ice (-73°C) onto the coils. The cold temperature causes the deposits to retract and detach from their base, aided by kinetic energy supplied by air pressure. This method is used mainly for the :

- stators of medium-voltage alternators or motors
- poles of synchronous machines

Methodology

- feasibility study
- on-site inspection for organization of the work
- construction of a sealed enclosure to prevent the spread of contamination
- supply of CO2 in the form of a block of ice delivered to the site
- cleaning work carried out by a qualified winder
- minor repairs if necessary
- painting of the coil if necessary
- final measurements - testing (UCC high-voltage test, insulating strength, polarisation index)
- Monitoring of cleaning operations and preparation of a report

Specific skills

HYDRO Exploitation assigns this work to specialist winders who are fully conversant with the machines and their insulations, having had a great deal of experience with this type of work.

PRESTATIONS COMPLÉMENTAIRES

Consultancy - Serviceability

Serviceability is a quantitative technical analysis based on international norms. It enables owners of hydroelectric developments to estimate the residual life of their installations, any renewal works and maintenance to be undertaken and at what frequency.

CONTACT

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Client benefits

Clients who choose this service benefit from cleaning of a very high quality. In addition :

- they avoid the need for a long and fastidious cleaning operation (cleaning with rags)
- they benefit from an inspection of the machine coil carried out by a winder while cleaning is in progress
- they gain time during the repair of the machine, thereby reducing production downtime
- they benefit from a natural and non-polluting process

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