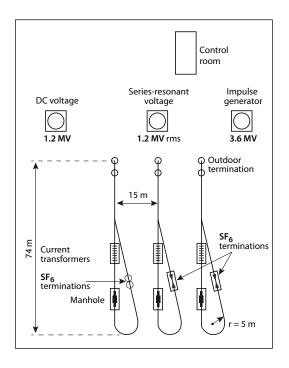




Hydro-Québec testing laboratories

The solution for your underground cable testing needs

Hydro-Québec operates facilities for certification of underground cables to the standards in effect, including a special area for testing the thermomechanical behavior of HV cables. These tests are used to characterize the long-term behavior of cables and accessories under real operating conditions.



Tests offered

- > Aging tests: application of AC or DC voltage and circulation of current
- > Cyclical tests
- > Polarity inversion tests
- > Impulse superimposed on an AC or DC voltage
- > AC voltage superimposed on a DC voltage
- > Type tests and individual series tests

Test equipment

- > Voltage source: 1.2 MV (series-resonant circuit)
- > DC voltage source: 1.2 MV, 50 mA
- > Current sources (three): 4,000 A, 150 V, 60 Hz
- > Impulse generator: 3.6 MV, 360 kJ
- > Compressed-gas capacitor
- > Fully automated measurement and data acquisition system

- High-voltage testing
- Electrical testing
- Mechanical and environmental testing
- Underground cable testing
- Testing on a full-scale overhead line
- Calibration and repair services

Expertise and specialized facilities you can bank on

Comprehensive solutions to meet your specific needs

To reach us

lab@ireq.ca www.hydroquebec.com/innovation/en

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