



Power Quality Assessment Service

Power quality has emerged as a significant concern for commercial and industrial customers as sophisticated electronic devices are more widely deployed. These devices not only require a reliable high-quality power supply but also themselves produce distortions in the power supply due to their nonlinear characteristics.

Systems capable of producing harmonic disturbances include power electronic equipment, variable-frequency drives, advanced motors, lighting, and switching technologies—some of which are related to the integration into the power grid of distributed generation (photovoltaics, wind, and micro-turbines).

Among the power quality issues that can arise are smart meter malfunction, loss of electronic information, malfunction of building automation systems or various systems in data centers, nuisance tripping power, supplementary power and energy losses in transformers, motors, and cables (with higher rate of aging and failure), and production downtime.

New Assessment Service

To address these issues, Powertech Labs is offering a new service for commercial and industrial customers that provides power quality assessments to identify the cause of the disturbance, recommend mitigation, and calculate a return on investment.

The power quality assessment will aim to detect one or more sources of the disturbance, one or more loads sensitive to the disturbance, and the channel for the disturbance to be propagated between them.

The service will:

- Conduct site visits to deploy instrumentation and perform data collection on selected points.
- Analyze results using Powertech expertise, dedicated software, and methodology complying with power quality standards.
- Provide a report with options to mitigate each power quality issue and a business case identifying the return on investment (ROI).

Advantages of Powertech's Power Quality Assessment

- Longtime prominence in the field, with experience raising awareness and championing power quality standards.
- Staff expertise and experience.
- In-house instrumentation, software, and simulation tools.
- Work performed by professional engineers adhering to APEG BC Code of Conduct and BC Hydro Code of Conduct as part of Customer Care Policy.

Results from the service will enable commercial and industrial customers to improve productivity, avoid loss of information, and prevent equipment failure.

ABOUT POWERTECH LABS:

Powertech Labs Inc. is one of the largest testing and research laboratories in North America, situated in beautiful British Columbia, Canada. Our 11-acre facility offers 15 different testing labs for a one-stop-shop approach to managing utility generation, transmission and distribution power systems.

Outside of the utilities industry, Powertech provides routine testing capabilities, product development, research and consulting services to support an array of industrial-type operations, electrical equipment manufacturers and automotive original equipment manufacturers.

www.powertechlabs.com



FOR MORE INFORMATION CONTACT:

Vidya Vankayala - 604.598.5010

Director, Grid Modernization

vidya.vankayala@powertechlabs.com

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