



Building Intelligence with Submetering Solutions    

Your Reliable Partner for Submetering Expertise

Turn to QMC for assistance with all your metering and submetering needs

HERE'S WHAT QMC DELIVERS TO ENGINEERS AND ENERGY CONSULTANTS:

- Design and budgeting assistance
- LEED certified expertise including NC, CS, CI and EBOM
- Equipment and services for Measurement & Verification (M&V) projects
- Supply of electricity, water, gas and thermal meters all connected to one system
- Support in integration of meter systems from hardware to reporting
- Complete Measurement Canada testing and verification
- Web-based data reporting and analysis through energy management software



Electrical and mechanical engineers and energy consultants play a critical role in designing and implementing advanced submetering systems that meet properties' evolving needs. Metering projects can have several stakeholders and user groups, including developers, property managers, operators, accountants, controls vendors, energy managers and even tenants.

You need a partner you can trust to help meet the various requirements and expectations in the metering and sub-metering industry.

With our extensive experience in the field working with engineers and contractors, QMC is the ideal partner for working on metering system design, budgeting, deployment and integration.

Metering has become a niche technology in the construction industry and experience can be a game changer. With QMC as your go-to resource, revenue approved tenant sub-metering, LEED and energy management metering projects are easier to implement and manage.



QMC can provide input on all aspects of a property's metering and submetering needs including planning and design, implementation and management. With two generations of experience behind the QMC team, our experts are ready and able to review your project and work with you to find efficient, cost-effective solutions to meet even the most precise specifications.

The experts in LEED Submetering

QMC simplifies the process of LEED submetering solutions



Submetering is a key component of LEED certified buildings and the value to property owners and developers is reflected in the credits available from metering in each of the LEED Rating Systems. QMC provides the hardware and services for a turnkey LEED metering system.

QMC'S LEED PROGRAM INCLUDES THE DESIGN, BUDGETING AND SUPPLY OF:

- Electricity meters, water meters, gas meters and thermal energy meters
- Communications equipment
- Reporting software or integration to existing software
- All related services, such as contractor coordination, verification, etc.

LEED 2009

QMC can assist in all stages of the LEED Measurement and Verification (M&V) process. The credit for LEED M&V is 3 points and QMC has developed meter systems strategies to ensure this credit is cost effective and fully utilized after project completion.

The LEED M&V credit is intended to "provide for the ongoing accountability of building energy and water consumption performance over time" (LEED Canada - NC V1) This requires the implementation of one of two options:

- **Option B:** ECM Isolation: requires the ongoing metering of the energy and water consumption of specific energy conservation measures (ECMs); primarily the building's major loads.
- **Option D:** Whole Building Calibrated Simulation: involves a computer simulation of the building's energy use. Intended for implementation by highly-qualified practitioners.

For a majority of buildings, Option B will provide sufficient data and qualify the building for the LEED Credit. However, Option D provides a more accurate evaluation of the building's overall performance and can help measure the effectiveness of non-mechanical ECMs.

The experienced QMC team can walk you through these options to determine the best one for your needs. Plus, there is no need to alter your electrical distribution with QMC's meter designs. Send us a single line drawing and we'll design the system for you.

LEED VERSION 4

In 2015 and 2016, LEED Version 4 will gradually replace LEED 2009 as the foremost green building standard in Canada. One of the substantial changes to the rating systems is a focus on the long term operations of a building. As such, there is an increased emphasis on metering which has increased the number of credits directly and indirectly requiring metering systems in LEED v4.

QMC is working with its consulting partners and clients to design and deploy metering systems that score all of the direct metering credits and complement systems for other water and energy credits.

There are 2 direct prerequisites and 2-8 credits for LEED v4 BD+C and Operations & Maintenance that require QMC metering systems including:

Water Efficiency:

- Prerequisite - Building Level Water Metering
- Credit - Water Metering (1 point BD+C, 2 points O&M)

Energy and Atmosphere:

- Prerequisite - Building Level Energy Metering
- Credit - Advanced Energy Metering (1 point BD+C, 2 points O&M)
- Credit - Enhanced Commissioning - Path 2 (4 points)

Innovation Credits:

- Energy Awareness via lobby sustainability dashboards
- Tenant Energy Engagement via energy portals

Other LEED v4 Credits benefitting from QMC turnkey metering systems:

- E&A - Demand Response
- E&A - Renewable Energy Production

QMC will assist in the design, specification, budgeting, supply, and deployment of a turnkey metering and reporting system for your LEED v4 project. Please call us to discuss your project.

We're Building Intelligence with Submetering Solutions.



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