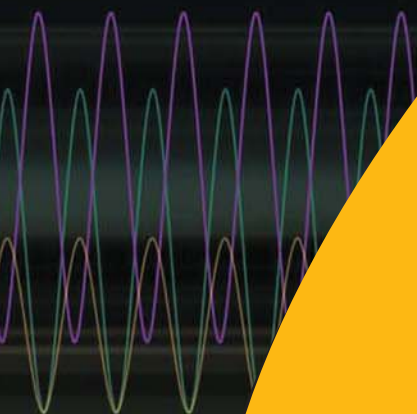




*Custom Energy Solutions Ltd.*





**"Creating the environment our Clients require to live, educate, work, play and heal"**

*Since 1964 the MCW Group has built a solid reputation for the delivery of Professional Consulting Engineering Services, Energy Management Services, and Engineering Development Services.*

*The systems designed by the MCW Group of Companies are built to deliver energy in the form of lighting, heating and cooling, as well as information in the form of voice and data. By the very nature of the solutions provided, the MCW Group of Companies help to create the environments required for Clients to live, educate, work, play and heal.*

*Our diverse array of Clients have always brought to us their toughest challenges and most exciting dreams, knowing that we will customize our designs and services to address their needs in a manner which will allow them to succeed and prosper. This success and prosperity is enhanced through the delivery of our services in a manner consistent with MCW's philosophy of sustainability, and our Client's desire to reduce the collective "Environmental Footprint."*

**"Reducing our Clients' Environmental Footprint"**



**MCW Custom Energy Solutions Ltd.**

MCW Custom Energy Solutions Ltd., is a leading Canadian Energy Service Company (ESCO). We deliver Engineered Single Source energy management services and Performance Guaranteed programs to institutional, educational, industrial, commercial and residential Clients. MCW offers the complete range of energy management services from facility audits through implementation and training to on going monitoring of savings results from our offices in Toronto, Winnipeg, Vancouver, and Ottawa.

**Facility Audits**

Auditing of an existing building's mechanical and electrical system involves the application of engineering expertise developed through years of design experience using an optimized set of reliability and performance targets.

Energy and water uses are investigated with respect to efficiency of consumption, their effectiveness in the delivery of lighting, heating and cooling, and the optimization of control, to match occupant needs.

**Utility Analysis**

MCW uses industry recognized energy tracking software to analyze utility consumption. The expert use of various utility software coupled with, experienced understanding of building operations, allows for valuable insight into the impact of weather dependency, occupancy use factors, and production use factors on utility consumption.

**Investment Grade Energy Management Business Plans**

Facility Audits with Utility Analyses are packaged by MCW into a concise Investment Grade Energy Management Business Plan. With this plan our Clients are able to secure internal commitments that will attract the necessary investment to realize their Energy Management and Infrastructure renewal goals. If desired, MCW will arrange for the financing of the Energy Management Business Plan complete with a tailored Performance Guarantee to suit the unique, corporate, or institutional governance requirements and risk profiles of each Client.

**Project Implementation & Training**

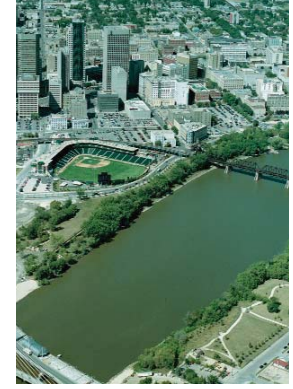
The MCW Group of Companies provide the seamless delivery of a complete turnkey energy management program. Engineering Design, Tendering, Contract Administration, Construction Management, Commissioning, and Systems Training are all provided in a collaborative inclusive "Open Book" basis to suit each Clients needs.

**Savings Monitoring**

From the time the first energy savings measures are implemented in a Clients facility, all utility costs are monitored to track savings in the form of energy units, dollars saved and environmental credits including green house gases. MCW has an enviable track record of success in the accurate and timely verification of both financial scorecards to repay financing charges within guarantee periods, and of Green scorecards to secure incentives, or meet sustainability targets.



**"We specialize in providing Engineered Single Source, Energy Management Solutions"**



**A list of services we can provide includes:**

**Auditing of Energy Related Infrastructure**

- Heating / Ventilating / Air Conditioning Systems
- Central Plants
- Process Steam Systems
- District Energy Distribution And Energy Transfer Systems
- Plumbing & Drainage Systems
- Storm Water Management Systems
- Life Safety Systems
- Fuel Handling Systems
- Compressed Air Systems
- Building Energy Management And Control Systems
- High Voltage Power Distribution
- Secondary Power Distribution
- Emergency Generator Systems
- Lighting Control Systems
- Metering Systems
- UPS Systems
- Transient Voltage Surge Suppression
- Public Address Systems
- Security Systems
- Lightning Protection Systems
- Interior Building Lighting Systems
- Exterior Lighting Systems
- Security Lighting
- Building Envelope

**Utility Analysis**

- Bill Monitoring & Verification
- Energy Analysis & Energy Use Simulations
- Meter Reconciliation
- Base Line Determination & Analysis
- Meter Tuning Contracts
- Utility Account Forecasting

**Investment Grade Energy Management Business Plans**

- Construction Cost Guarantees
- Performance Guarantees
- Flexible Innovative Financing Programs
- Incentive Application Management & Payment Expediting

**Energy Engineering Related to**

- Lighting Retrofit / Redesign
- Lighting Control Systems
- Heating / Ventilating / Air Conditioning Systems
- Central Plants
- Process Steam
- District Energy Distribution And Energy Transfer Systems
- Water Conservation
- Compressed Air Systems
- Building Energy Management And Control Systems
- High Voltage Power Distribution
- Secondary Power Distribution
- Emergency Generator Systems
- Metering Systems
- Energy Analysis & Energy Use Simulations
- Building Envelope

**Specialty Engineering Services**

- Green Building (LEED Certifications)
- Cogeneration Design
- Tri-Generation Design
- Renewable Energy Systems Design
- Demand Side Management Initiatives
- Demand Reduction Design/Strategies
- Distributed Generation
- Energy Recovery
- Thermal Storage

**Other Energy Management Related Services**

- Long Term Building Operations Planning
- Environmental Code Compliance Planning
- Impact Assessment Of Utility Deregulation & Emissions Reductions Impact
- Greenhouse Gas Auditing
- Disciplined Project Management
- Training Needs Assessment, Training Delivery And Energy Awareness Workshops
- Construction Management
- Scheduling - Operations And Maintenance Planning
- Operations And Maintenance Manual Preparation
- Systems Commissioning





**Custom Energy Solutions Ltd.**

**-TORONTO**

156 Front St. West, Suite 600

Toronto, Ontario M5J 2L6

Tel: (416) 598-2920

Fax: (416) 598-5394

E-Mail: [mcw\\_tor@mcw.com](mailto:mcw_tor@mcw.com)

**WINNIPEG**

210-1821 Wellington Avenue

Winnipeg, Manitoba R3H 0G4

Tel: (204) 779-7900

Fax: (204) 779-1119

E-Mail: [mcw\\_wpg@mcw.com](mailto:mcw_wpg@mcw.com)

**OTTAWA**

464 Somerset St. W.,

Ottawa, Ontario K1R 5J8

Tel: (613) 231-6755

Fax: (613) 231-2480

E-Mail: [mcw\\_ott@mcw.com](mailto:mcw_ott@mcw.com)

**VANCOUVER**

1400 - 1185 West Georgia St.

Vancouver, British Columbia V6E 4E6

Tel: (604) 687-1821

Fax: (604) 683-5681

E-Mail: [mcw\\_van@mcw.com](mailto:mcw_van@mcw.com)

[www.mcw.com](http://www.mcw.com)

