



**TRINITY
ENERGY**
INNOVATIONS INC.

COMPANY PROFILE – ENGINEERING SERVICES

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METRO LICENSE: H16200



Trinity Energy Innovations Inc. would like to take this opportunity to provide our company profile and services specializing in engineering services. With the combination of over 30 years of experience and training in the H.V.A.C. field along with professional engineering, we are well qualified to offer a wide range of expertise in both the design and installation applications.

Some of the sites we have performed engineering services at are listed:

Kelvingrove Heritage Complex, Toronto –Completed

Eight buildings consisting of 3 central plants and 97 suites

➤ **Mechanical Design of all 3 central plants and 97 suites along with mechanical specs and equipment selection**

- *Our work consisted of:*

- Initial Feasibility Study generating possible concepts along with concept details such as budgets, maintenance and energy costs, scope of work, benefits and drawbacks.
- Design of all 3 heating plants and piping layout with high efficiency boilers
- Design of new heating pumping system with high efficiency pumps complete with VFD's
- Design, specifications and installation of Energy Management / Building Automation System
- Design of new HVAC system complete with corridor pressurization, in suite zone control and building exhaust
- Design of new hydronic and hot water storage system
- Design and installation of individual suite metering of electrical and gas consumption with data storage for 3rd party billing
- Complete mechanical specs and equipment selection based on building envelope
- Enbridge Incentive Procurements for new high efficiency boiler installations

20 Adelaide Street East – Current and Completed

16 storey office building

➤ **Mechanical design of diesel piping and storage system to comply with TSSA, Ontario Building Code and diesel gas codebook – Current and completed**

- *Our work consisted of:*

- TSSA Variance application and approval
- Redesign of diesel pipe layout
- Redesign of generator exhaust venting and fresh air intakes
- Redesign diesel pumping controls
- Sizing and design of diesel overflow and spill containment



Greenpark Head Office –Completed

Existing three storey office building

- *Our work consisted of:*

➤ **Cooling Plant, Heating Plant and Building Automation Design-Build**

- A design-build retrofit of new building cooling system consisting of 2 new high efficiency frictionless bearing chillers and variable speed fluid cooler.
- A design-build retrofit of new building heating system consisting of 2 new high efficiency boilers
- Redesign, specifications and installation of main mechanical room to comply with TSSA B52 codebook regarding refrigerant monitoring and life safety system.
- A design-build of new Bacnet Building Automation System retrofitted to replace existing pneumatic controls. New BAS controls for all main mechanical components within the building as well as each individual office setpoint.
- Over \$75,000 in incentive procurements from Electricity and Natural Gas Providers.

5 and 7 Concorde Park Place and Concorde Place Shared Facilities – Completed

Two 38 storey Residential condominiums and Recreation Center

- Design and manufacture of 1,100 heat pumps
- Removal and installation of 1,100 new heat pump units

➤ **Energy conservation retrofit in recreation centre**

- *Our work consisted of:*

- Installation of new high efficiency boilers
- Installation of titanium heat exchangers
- Installation of Building Automation System

➤ **Energy conservation retrofits in buildings 5 and 7**

- *Our work consisted of:*

- A design-build boiler room retrofit from atmospheric to high efficiency boilers complete with all heating and domestic piping
- Installation of Building Automation System
- Supply and install two new Make Up Air units by way of helicopter
- Supply and install KVAR® EC power conditioning devices on inductive loads
- Supply and installation of Domestic Cold Water Booster Pumps System VFD controlled
- Procurement of the available incentives for the completed work on behalf of the client



**TRINITY
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Sincerely,

AIRCON MECHANICAL SYSTEMS INC.

TRINITY ENERGY INNOVATIONS INC.

A handwritten signature in blue ink, appearing to read "Laval", is written over a faint, illegible background.

Brian Laval
President