

Statement of Qualifications

Review of Cost Allocation Policy for Unmetered Loads

Ontario Energy Board File No. EB-2012-0383

Unmetered Loads Working Group (ULWG)

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Building and Property Management, Business Planning*

City of Brampton.

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HIGH LIGHTS:

- Professional Engineer (P.Eng)
- Certified Engineering Technologist (C.E.T)
- Certified Energy Manager (CEM)
- Extensive knowledge of utilities (electricity) engineering and procurement
- Work focuses on delivering on four main areas critical to ensuring properly managed energy procurement for the City of Brampton. These are: integrated energy management services, energy procurement planning, energy conservation and awareness.
- Knowledge of engineering standards and codes like National Building Code (NBC), Ontario Building Code (OBC), ASHRAE standards, Canadian electrical code (CEC), etc.
- More than fourteen years experience in **energy procurement**, energy project retrofit, construction, building technologies, building automation systems, building systems, quality assurance, design, calculations, and modeling.
- Experienced in analyzing energy data and tariff.

WORKING EXPERIENCE:

The Corporation of the City of Brampton

Energy Management Project Coordinator

08/2009 – To Date

Coordinate the procurement of electricity and gas requirements for the city in partnership with in-house Utility Management Committee (UMC), purchasing and external consultants. Maintain and manage the utility software database and provide trends and consumption analysis for all operational users. Analyze data; deliver presentation to higher management to update on present and future energy market trends and monitoring legislation. Provide budget support (forecasting and tracking) to finance team.

Manage and maintain more than **\$13M/year** utilities budget including aprox. **\$4M/year for STREET LIGHT** consumption cost.

The Corporation of The City of Brampton

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Work with **LAS/AMO**, energy consultants, and **Ontario Power Authority (OPA)** (where appropriate), to help City to reduce their energy expenditures.

Deal with local hydro company-**LDC (Hydro One Brampton)** for invoice verification, tariff and consumption issues. Apply incentives/grants to LDC offered by OPA (Ontario Power Authority). Performed audit of **LAS/AMO billing methodology** found in weighting error in 2010. After consultation with LAS/AMO, Hydro One Brampton and external consultant switched street light account from Hedge/Spot Market to Deemed Profile. As a result city received **\$600K cheque** from Hydro One Brampton.

Prepare statistical analysis for stakeholder and senior management overview purposes for utilities, energy reduction and conservation projects.

Provide expert advice to the City on **street lighting** and other **unmetered loads, utility cost allocation principles, utility terminology** and language applies to **unmetered loads, street lights, and walkway and or pathway lights**.

Forecast and estimate demand, consumption, billing cost for unmetered loads like pathway lights, street lights or walkway lights.

SNC Lavalin (ProFac) Inc.

SNC-Lavalin is one of the leading groups of engineering and construction companies in the world and a global leader in the ownership and management of infrastructure and facilities management.

Commissioning Manager

10/2006- 08/2009

Work on Public Works Government service Canada (PWGSC) buildings energy efficiency and retrofit projects. The focus is on energy efficiency, commissioning and sustainable consulting work as related to energy systems.

Assisting project teams in projects delivery, budgets, technical analysis, project design review, evaluations and maintain quality of all PWGSC projects across Ontario.

Assist project teams in project justifications (PJ) along with hydro and natural savings, calculations, pay back, budget and forecast for higher authorities for approval this includes an explanation and description how this will be achieved.

Apply working knowledge of National building codes, Ontario building codes and other local codes in all projects.

Liaise with contractors, clients, consulting engineers, architects.

Angus Consultant Management Ltd.

Building system Tech.

2002-2006

Participated in the energy projects involved study, design, programming, testing, pre-commissioning and retrofits. Evaluate the energy bills pre and post project for verifications and savings purpose.

Pak Services Ltd. (PSL)

Controls and Instrumentation Engineer

2002-2006

Commissioned and implemented Energy and building automation system across the country to optimize the energy savings in commercial buildings.

Education:

- 2006-2008, Master in Engineering (**electrical**) from Ryerson University
- 1992-1997, Bachelor of Engineering (**electrical**) from NED University of Engineering & Technology