



# DAVOUD HAFEZI-YASHI, BSc EE

Energy Audit Technician

## PROFILE

*Prior to joining the Demand Side Energy (DSE) team in 2007, Davoud was pursuing graduate studies in Physics, in San Jose California. With his BSc in Electrical Engineering, Davoud was enrolled in Single Subject Credential Programming at San Jose State University.*

## EXPERTISE

### **Commercial Building Energy Audit Technician:**

Davoud is knowledgeable in commercial and residential building energy systems and performances, and is experienced in modelling building energy end-use components, HVAC systems and operations, and envelop characteristics using various programs.

**Industrial Energy Performance Analyst:** An experienced energy performance analyst for industrial plants, Davoud contributed to the development of the ongoing motor management program for B.C. Hydro, as well as development of a set of energy conservation measures for a number of industrial plants cross Canada.

Davoud has also contributed to the evaluation and local training of the recent release of Natural Resources Canada RETScreen version 4.1 energy auditing software.

### **RECENT PROJECT EXPERIENCE:**

**City of Winnipeg – Pan Am Pool: Evaluation of GHG Reduction Alternatives (2009):** Pre-feasibility study into options directed at reducing GHG Emissions associated with the operation of Pan Am Pool. A base-year estimate was developed and carried forward as a baseline of operations for the next 20 years, resulting in an estimate of energy use, greenhouse gas emissions and energy costs to the year 2030.

**Tower Realty Group Energy and Water Audits (2009):** Residential apartment blocks - energy and water audit process to provide a baseline for utility consumption and propose retrofit measures with a focus on heat recovery HVAC systems.

**MTSA BOMA BEST (2009):** Commercial building energy & water audit to identify energy conservation opportunities for national environmental recognition and certification under *BOMA BEST* program.

**Prairie Spirit School Division (2009):** Energy/water audit of 11 schools to establish baseline of energy & water use, providing plan of recommended initiatives to reduce costs for PSFD.

**Reh-Fit Centre, Winnipeg (2008):** Commercial building performance analysis as a first step for national environmental recognition and certification under *BOMA Go Green* program and *Commercial Building Optimization Program* (CBOP).

**Polo Park Shopping Centre BOMA Go Green Plus (2008):** Commercial building utility audit focusing on energy end-use components, HVAC systems, while identifying and developing energy conservation measures as initial process for national certification under *BOMA GO Green Plus* program.

**Review of the Sempa Industries Report on Hybrid Heating Solutions to WCC (2008):** A technical review of the report by Sempa Corporation on Hybrid Heating Solution™ for the Winnipeg Convention Centre. Side by side comparison of identified energy conservation potential and operating cost savings was made.

**NRCanada RETScreen Training (2008):** Contributed to evaluation and local training of the Natural Resource Canada energy audit software, RETScreen.

**Petro Canada Glide Carwash Energy and Water Audit (2007):** Developed baseline utility consumption from the historical data and applied a method of approximation to determine current and future utility consumption for the facility. This model was used to determine utility conservation potentials.

**Prairie Malt Plant Energy Audit (2007):** Energy audit process involving walkthrough of the plant, followed by electricity billing review and analysis to provide the first level of screening for energy conservation and operating cost reductions measures.

## PROFESSIONAL HISTORY

Present: Energy Audit Technician, Demand Side Energy Consultants Inc.

2005 Operations Manager, Fifth Quarter Ent.

## EDUCATION

2000: B.Sc.(Electrical Engineering) – U of M

## ASSOCIATIONS

Building Energy Management, Manitoba (BEMM)