

Christopher Hadlock, M.A.Sc., P.Eng., LEED® AP BD+C

Founder & Senior Energy Consultant

Chris has worked in the field of sustainability for over 9 years and has applied his trade on over 75 sustainability projects including residential, commercial and industrial applications. As a P.Eng. with a background in heat transfer, fluid dynamics and HVAC, Chris' strong technical background has allowed him to work on unique projects and establish himself as a highly respected professional within his field.



Professional Career

- 1999 – 2004 **B.A.Sc. Mechanical Engineering**
University of Waterloo
- 2004 – 2006 **M.A.Sc. Mechanical Engineering**
University of Waterloo
- 2006 – 2009 **Energy Project Manager**
Enermodal Engineering Limited (EEL)
- 2009 – 2013 **Manager of Energy Services**
Fluent Group Consulting Engineers Inc. (FGi)
- 2013 – Present **Founder & Senior Energy Consultant**
Hadlock Consulting (HC)

Designations & Accreditations

- B.A.Sc. & M.A.Sc. University of Waterloo
- Professional Engineer (P.Eng.)
- ASHRAE Associate
- LEED AP® BD+C
- Listed on CaGBC's Experienced Modellers List
- IPBSA Member

Professional Credentials

With more than 9 years of experience in the field of sustainability and energy efficiency, Chris has worked on over 75 sustainability projects. Core competencies include:

- Energy optimization on residential, commercial, and institutional buildings
- Energy modeling including EE4, eQuest, TRNSYS, RETScreen, HOT2000, HAP, DOE 2.2
- Third-party reviewer listed on CaGBC's Experienced Modellers List
- Building performance verification including M&V for LEED®
- Commissioning including Cx services for LEED®
- Energy audits including pre and post-retrofit analysis for incentive applications
- Incentive funding including HPNC and OPA retrofit programs
- Advanced design research including diurnal storage, cogeneration and district energy systems
- Experience working with architects, mechanical designers, electrical designers, owners, developers, and contractors in all stages of construction, from concept design through to post-occupancy
- Areas of expertise include building envelope performance, HVAC performance, lighting system performance, renewable and district energy systems, and LEED®

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Notable Project Experience

Energy Modeling

- York University Lassonde School of Engineering - LEED® Candidate
- Place 10 Calgary - LEED® Feasibility Study
- NE Calgary High School - LEED® Candidate
- Element Hotel - LEED® Candidate
- The Bridges - LEED® Candidate
- Seton Front Street Medical - LEED® Candidate
- Western University New Academic Building - OBC Compliance
- London City Chrysler - OBC Compliance
- Goderich Courthouse Square Development - OBC Compliance
- Village by the Arboretum Phase 2 - Design Alternative Study
- Eglinton Crosstown Light Rail Transit RFP - Energy Modeling Peer Review
- Copperfield School - Energy Modeling Peer Review

Building Performance Verification

- York University Lassonde School of Engineering - M&V Credit for LEED®
- North York General Hospital - Retrofit Incentive Application
- Wrigley Canada - Retrofit Incentive Application
- Centre Wellington Municipal Energy Audit - Green Energy Act

Advanced Design Analysis

- NRCAN ENERGY STAR Analysis - Windows and Doors Study
- River House Guelph - District Energy Integration Study
- Finterra Realty Development - District Energy Load Study
- 201 City Centre Drive - Smart Building Controls Study
- CIBC Branches BAS Upgrade - Degree Day Correlation Study

Research & Publication

- Insights from Energy Modeling into the Design of High-Performance High-Rise Condominiums (author/presenter - eSim Conference, 2012, while employed at FGi)
- Modeling and Assessment of a Natural Gas Fired CHP with Integrated Diurnal Storage System (co-author – IGRC conference, 2008, while employed at EEL)
- Modeling and Optimization of an Airflow Window with Between-the-Panes Shading Device (author – M.A.Sc. topic, University of Waterloo)
- Implementation of the First Student-Designed PV Array in Canada (author and presenter – SESCO Conference, 2004)
- A Case-Study of Successful Implementation of PV at the Nation Level (author and presenter – SESCO Conference, 2004)