

IAN JARVIS BSc, PEng

President, Enerlife Consulting Inc., 2001 to present
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SUMMARY OF PROFESSIONAL EXPERIENCE

Enerlife's founder and president since 2001, Ian Jarvis is a recognized business leader and authority on energy conservation, green buildings and sustainable communities. Ian has been at the leading edge of practice and research of high-performance buildings for more than three decades. He was the founding Chair of the Canada Green Building Council and co-chair of Civic Action's Race to Reduce. Ian provides strategic and technical advice to Enerlife's projects and clients, forms and leads Integrated Building Performance Teams, and brings unique knowledge and experience of achieving and sustaining exceptional performance in individual buildings and portfolios. He is an expert witness in regulatory hearings and advises governments and utility companies on policy and program design and evaluation. Ian has served on advisory boards for the Ontario Energy Board and the Independent Electricity System Operator. He is an accomplished speaker and workshop leader.

Ian is the principal architect of Enerlife's evidence-based building performance diagnostic, management and reporting methodology, tools and online system. His knowledge is grounded in over 30 years of experience designing, implementing and measuring savings in energy efficiency projects in a wide range of building types for clients in the municipal, commercial, school board, healthcare, and multi-unit residential sectors.

Ian co-chaired the working group for Civic Action's Race to Reduce from 2013-2016, a large-scale, collaborative program among landlords and tenants which is substantially improving the energy and environmental performance of office buildings. He has served as an adjudicator of the NAIOP REX Green Award for commercial buildings. In 2015, he received the Leader Award from the Canada Green Building Council's Greater Toronto Chapter.

From 1992 to 1999 Ian was CEO of a leading energy performance contractor responsible for many of the largest energy retrofit projects in North America. Ian served as founding chair of the Canada Green Building Council from 2003-2007, and as a director of Milton Hydro, one of the most progressive local electric distribution utilities in Ontario, from 2000-2007.

Ian represented the energy efficiency industry on the 1998 Team Canada trade mission to South America and was the Canadian Government's invited private sector representative at the 1999 Hemispheric Energy Ministers' Conference in New Orleans. In 2001 he was a member of Premier Hamm's expert panel advising the Nova Scotia Government on energy policy alternatives.

HIGHLIGHTS OF EXPERIENCE

- Over 30 years of experience at the leading edge of energy performance in buildings
- Principal architect of performance-based conservation methodology as an evidence-based approach for achieving and sustaining exceptional energy efficiency in buildings

AREAS OF SPECIALIZATION

- Vision and strategy development
- Authority on evidence-based energy conservation in buildings
- Portfolio and sectoral program design
- Author of thought leadership articles & reports
- Leadership of multi-disciplinary workshops and project teams
- Keynote addresses and speaking engagements

PROFESSIONAL AFFILIATIONS

- Founding Chair, Canada Green Building Council (2003 – 2007)
- Member, National Advisory Council on Energy Efficiency (1999 – 2015)
- Member, Ontario Energy Minister's Advisory Committee (2006 – 2011)
- Professional Engineers Ontario

ACADEMIC QUALIFICATIONS

- Bachelor of Science (Honours), Mechanical Engineering, Imperial College of Science and Technology, University of London

REPRESENTATIVE PROJECTS

Climate Challenge Network Programs

Concept design, development and ongoing executive oversight of large-scale energy conservation potential studies and program delivery, that use actual energy data to drive performance improvement, including:

- Greening Health Care (since 2004) with hospitals
- Mayors' Megawatt Challenge (since 2003) with municipalities
- Sustainable Schools (since 2005) developing and distributing an annual report on the energy and water performance and savings potential of all Ontario school boards
- Post-Secondary Climate Challenge (since 2021) working with colleges and universities across Ontario on identifying and acting on energy savings opportunities

City of Toronto Strategic Energy Management Pilot Program

As part of the City of Toronto's Green Will Initiative, Enerlife developed curriculum to support mid-sized commercial office and multi-residential buildings in reducing greenhouse gas emissions. Together with the project's Executive lead, Ian developed and delivered a series of six workshops and provided one-on-one coaching to program participants, serving to support target-setting and action on reducing emissions.

Hospital Projects

Ian has been directly responsible for all Enerlife assignments related to new hospital development over the past 5 years, including the West Park and South Niagara Hospital design projects, working as specialist advisor to hospital management. Between 2014-2017 he was the project lead for assignments with Baycrest, Muskoka Algonquin and Orillia Soldiers' Memorial leading to resolution of guaranteed savings disputes. He is the principal responsible for the Markham Stouffville, West Park and Alberta Health Services projects.

Oxford Properties

Ian directed the technical content for the Sustainable Intelligence Operations Guide for Office Buildings, their corporate manual for enhancing the environmental performance of Oxford's commercial and multi-residential properties. Ian was the Senior Technical Lead and Project Lead for the development of Net Zero Carbon Analysis for Oxford Properties. He led the development of Oxford Properties Net Zero Model, a structured analytical model that outlined how their global commercial office, retail and hotel portfolio could achieve a global real estate portfolio emissions reduction target aligned with a science-based target.

Town of Halton Hills Corporate Energy Plan

For the Town of Halton Hills Corporate Energy Plan 2019-2024 update, Ian oversaw building performance evaluation and analysis to recommend strategic actions to achieve the Town's overall goals as well as building-specific low-carbon targets based on in-depth review of the municipality's facilities.

Town of Caledon GHG Reduction Plan

Ian provided expert advice and strategic direction on energy efficiency for the Town of Caledon's Conservation Demand Management plan and Corporate GHG Reduction Framework.

Alberta Health Services

Led the development of comprehensive, achievable and actionable multi-year plans for delivering the energy and water consumption, economic and emissions reduction potential for over 200 hospitals across Alberta.

City of Toronto Energy Conservation and Demand Management Plan

Strategic direction for the development of City of Toronto Energy Conservation and Demand Management Plan 2014-2019, applying an evidence-based approach to establishing savings potential across all City of Toronto buildings.

Simcoe County District School Board

Since 2010, Ian has led the multi-year master planning, development and deployment of their comprehensive, data-driven program focused on achieving targeted energy performance standards in high-potential schools. The phases of work included the 2017-18 school ventilation upgrade project for 22 schools which resulted in energy savings of close to \$500,000/year and led to the board's steady progress up the Sustainable Schools ranking of Ontario school boards.

Public Sector Energy Conservation and Demand Management Plans

Ian directs the preparation of concise, consistent, evidence-based plans for achieving top-quartile energy performance for hospitals, K-12 schools, municipalities and 615 New York State nursing homes.

Energy Program Design and Regulation

Ian is a recognized authority on measurement and verification of energy savings. He served as a member of the joint IESO/OEB advisory committee examining conservation potential in Ontario and represents building owners in regulatory hearings on energy savings incentive programs. He advised Enbridge and the IESO on development of their performance-based incentive programs and is a member of the OEB's working groups addressing Green Button implementation and Distributed Energy Resources.

PUBLICATIONS & RESEARCH

"High Efficiency Rooftop HVAC Unit Replacements" White paper for IESO and Climate Challenge Network, 2023

"Strategic Energy Management (SEM) for School Board Portfolios: The School Board's Guide to the Biggest Energy and Emissions Reductions" White paper for IESO and Climate Challenge Network, 2023

"Using Performance Metrics to Deliver Highly Energy Efficient Healthcare Facilities" White paper for IESO and Climate Challenge Network, 2022

"SUS Top Energy Performing Boards Report" Annual Report for Climate Challenge Network, supported by IESO and Enbridge, 2009 - 2022

"2022 Update on Energy Performance of Ontario's New Hospitals: Working Towards World-Class Energy Efficiency in Hospitals" White paper for IESO and Climate Challenge Network, 2022

"Humber River Hospital: A Case Study in World-Class Energy Efficiency" Case study for IESO, Enbridge, Thermogenics and Sustainable Buildings Canada, 2021

"Getting to 20: Achieving 20 kWh/sf/year in Town/City Halls by 2015" White paper for Toronto and Region Conservation Authority, 2013

"Where the Green Jobs Are: Harnessing the Energy Conservation Potential in Buildings" White paper, 2011

"20 by '15: Achieving the Office Building Target of 20 kWh/ft²/year by 2015" White paper for the Real Property Association of Canada, 2009

"Closing the loops: How real building performance data drive continual improvement" Article for Intelligent Buildings International journal, 2009

"A Deeper Shade of Green" Article for ReNew Canada: The Infrastructure Renewal Magazine, 2007

"Realizing the Electricity Conservation potential in Ontario's Private Rental Housing Sector" Study for the Ontario Power Authority, 2006

National study for Natural Resources Canada into actual versus modeled energy performance of buildings designed under the federal CBIP program, 2004

"Making Ontario the Leader in Energy Efficiency" (Co-author) A study for the Ontario Ministry of Energy, which became the foundation document for Ontario's Green Energy Act, 2003

"Sustainable Peterborough" A guide to sustainable communities sponsored by the Government of Canada, 2002

"The SUMAC System: Relentless Progress Towards Optimum Energy Use in Buildings" Presentation to the CIB Congress in Stockholm, Sweden, 1983