

EB-2019-0207 : 5 : Kelly Bruce

COST CLAIM NUMBER 1301	SUBMISSION DEADLINE DATE April 27, 2023	CLAIM STATUS Approved by Finance
EB# EB-2019-0207: Initiatives: Regulatory Direction and Oversight: Ontario Energy Board	OTHER EB#S	PHASE #* 5
INTERVENOR Bruce, Kelly; +1 (437) 328-9397 kbruce@enerlife.com	INTERVENOR COMPANY* Building Owners and Managers Association, Toronto: Cooperative	INTERVENOR TYPE Full Registrant
HST RATE ONTARIO 13.00	EXCHANGE RATE	COUNTRY
HST NUMBER R119420859	LATE SUBMISSION ALLOWED Yes	EXTENSION DEADLINE DATE May 02, 2023

PARTICIPANTS

New	Non-Filing Participant First, Last Name	Filing Participant	Total (\$)	Total Hours	Participant Claim Status
Yes	Ian , Jarvis		6,369.14	17.08	Submitted

ATTACHMENTS

Attachment	Document Type	Import Message
Invoice 3754 OEB EB-2019-0207 Distributed Energy Resources (DER) Connections Review.pdf	Invoice	
BOMA EB-2019-0207 Cost Claim 050220231028.pdf		

TOTAL LEGAL/CONSULTANT/OTHER FEES 5,636.40	TOTAL DISBURSEMENTS 0.00	TOTAL HST 732.74
TOTAL CLAIM 6,369.14	TOTAL AMOUNT AWARDED	
TOTAL HOURS CLAIMED 17.08	TOTAL HOURS DISALLOWED	
REASON FOR DISALLOWANCE	REASON FOR DISALLOWANCE - 2	REASON FOR DISALLOWANCE - 3

MAKE CHEQUE PAYABLE TO
Enerlife Consulting Inc.

SEND PAYMENT TO ADDRESS
90 Eglinton Ave E
Suite 412
Toronto, Ontario
M4P 2Y3

ATTENTION

SUBMIT SECTION

I am a representative of the Party. I have examined all of the documentation in support of this cost claim. The costs incurred and time spent are directly related to the Party's participation in the OEB Process referred to above.

This cost claim does not include any costs for work done, or time spent, by a person that is an employee or officer of the Party as described in section 6.05 and 6.09 of the OEB's Practice Direction on Cost Awards.

The information (fees and disbursements) filed in this cost claim is complete and accurate and in accordance with the OEB's Practice Direction for Cost Awards and Appendix A, the Cost Awards Tariff.

SUBMITTED BY
Kelly Bruce

DATE SUBMITTED
May 02, 2023

CASE EB-2019-0207: Initiatives: Regulatory Direction and Oversight: Ontario Energy Board	COST CLAIM EB-2019-0207 : 5 : Kelly Bruce	INTERVENOR NAME Bruce, Kelly; +1 (437) 328-9397 kbruce@enerlife.com	PARTICIPANT CLAIM STATUS Submitted
FILING PARTICIPANT	NEW PARTICIPANT Yes	NON-FILING PARTICIPANT F. NAME Ian	NON-FILING PARTICIPANT L. NAME Jarvis
SERVICE PROVIDER TYPE* Consultant	YEAR CALLED TO BAR*	COMPLETED YEARS PRACTICING/YEARS OF RELEVANT EXPERIENCE* 20	HOURLY RATE 330
HST RATE CHARGED* 13.00	CV STATUS (FOR CONSULTANT/ANALYST) CV Attached	LAST CV DATE May 02, 2023	OVERRIDE HOURLY RATE No
HST NUMBER R119420859	HEARINGS No	CONSULTATIONS Yes	DISBURSEMENTS No

CONSULTATION

**Consultation
Hours**
17.08

**Consultations
Subtotal (\$)**
5,636.40

**Consultations
Total Tax (\$)**
732.74

**Consultations
Total (\$)**
6,369.14

<u>Description</u>	<u>Maximum Hours</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
1 DER Connections Review – Technical Subgroup – Tranche 4 - 26-Jul-22	3.75	2.75	330	907.50	13.00	117.98	1,025.48
1 DER Connections Review – Technical Subgroup – Tranche 4 - 26-Jul-22 (if Rep 2 eligible participants)	5.00		330		13.00		
2 DER Connections Review – Process Subgroup – Tranche 4 - 28-Jul-22	3.75	2.50	330	825.00	13.00	107.25	932.25
2 DER Connections Review – Process Subgroup – Tranche 4 - 28-Jul-22 (if Rep 2 eligible participants)	5.00		330		13.00		
3 DER Connections Review – Process Subgroup – Tranche 4 - 3-Aug-22	4.50	3.00	330	990.00	13.00	128.70	1,118.70
3 DER Connections Review – Process Subgroup – Tranche 4 - 3-Aug-22 (if Rep 2 eligible participants)	6.00		330		13.00		
4 DER Connections Review – Working Group – Tranche 4 - 22-Aug-22	4.50		330		13.00		
4 DER Connections Review – Working Group – Tranche 4 - 22-Aug-22 (if Rep 2 eligible participants)	6.00		330		13.00		
5 DER Connections Review – Technical Subgroup – Tranche 4 - 23-Aug-22	3.00		330		13.00		
5 DER Connections Review – Technical Subgroup – Tranche 4 - 23-Aug-22 (if Rep 2 eligible participants)	4.00		330		13.00		
6 DER Connections Review – Process Subgroup – Tranche 4 - 25-Aug-22	4.50		330		13.00		
6 DER Connections Review – Process Subgroup – Tranche 4 - 25-Aug-22 (if Rep 2 eligible participants)	6.00		330		13.00		
7 DER Connections Review – Technical Subgroup – Tranche 4 - 27-Sep-22	3.00		330		13.00		
7 DER Connections Review – Technical Subgroup – Tranche 4 - 27-Sep-22 (if Rep 2 eligible participants)	4.00		330		13.00		
8 DER Connections Review - Process Subgroup - Tranche 4 - 29-Sep-22	2.25		330		13.00		
8 DER Connections Review - Process Subgroup - Tranche 4 - 29-Sep-22 (if Rep 2 eligible participants)	3.00	1.50	330	495.00	13.00	64.35	559.35
9 DER Connections Review – Working Group – Tranche 4 - 4-Oct-22	3.50		330		13.00		
9 DER Connections Review – Working Group – Tranche 4 - 4-Oct-22 (if Rep 2 eligible participants)	4.66	0.25	330	82.50	13.00	10.73	93.23
10 DER Connections Review - Process Subgroup - Tranche 4 - 27-Oct-22	2.25		330		13.00		
10 DER Connections Review - Process Subgroup - Tranche 4 - 27-Oct-22 (if Rep 2 eligible participants)	3.00		330		13.00		
11 DER Connections Review - Technical Subgroup - Tranche 4 - 22-Nov-22	3.00		330		13.00		
11 DER Connections Review - Technical Subgroup - Tranche 4 - 22-Nov-22 (if Rep 2 eligible participants)	4.00		330		13.00		
12 Comments on Proposal to Amend DSC - 5-Jan-23	6.00	5.58	330	1,841.40	13.00	239.38	2,080.78

<u>Description</u>	<u>Maximum Hours</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
12 Comments on Proposal to Amend DSC - 5-Jan-23 (if Rep 2 eligible participants)	8.00		330		13.00		
13 DER Connections Review – Process Subgroup – Tranche 4 - 16-Jan-23	2.25		330		13.00		
13 DER Connections Review – Process Subgroup – Tranche 4 - 16-Jan-23 (if Rep 2 eligible participants)	3.00	1.50	330	495.00	13.00	64.35	559.35
14 DER Connections Review - Technical Subgroup - Tranche 4 - 18-Jan-23	2.25		330		13.00		
14 DER Connections Review - Technical Subgroup - Tranche 4 - 18-Jan-23 (if Rep 2 eligible participants)	3.00		330		13.00		
Total Legal/Consultant Fees		17.08		5,636.40		732.74	6,369.14

Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
Enerlife CV Ian Jarvis 2022.pdf	CV	
Invoice 3754 OEB EB-2019-0207 Distributed Energy Resources (DER) Connections Review.pdf	Time Docket and Invoice	

Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Claim Type</u>	<u>Import Message</u>
Enerlife CV Ian Jarvis 2022.pdf	CV	Consultations	
Invoice 3754 OEB EB-2019-0207 Distributed Energy Resources (DER) Connections Review.pdf	Time Docket and Invoice	Consultations	

IAN JARVIS BSc, PEng

President, Enerlife Consulting Inc., 2001 to present
ian.jarvis@enerlife.com 416-915-1530 ext. 203

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, 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

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.

Alberta Health Services Provincial Utility Management Plan

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.

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 include the most recent 2017-18 school ventilation upgrade project for 22 schools which is now resulting in energy savings of close to \$500,000/year and leading to the board's steady progress up the Sustainable Schools ranking of Ontario school boards.

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 for the Town of Caledon's Conservation Demand Management plan and Corporate GHG Reduction Framework.

Cadillac Fairview Corporation

Developed and leads the integrated building performance process taking five major commercial office buildings to achieving unprecedented levels of energy and water efficiency. All buildings have achieved high 90s in Energy Star scores.

The flagship building, Simcoe Place, won the 2013 Race to Reduce Energy Champion award for both the approach and the substantive energy savings achieved. The integrated building performance process at Simcoe Place has been showcased by the Independent Electricity System Operator numerous times at conferences, in advertising and through on-site tours.

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.

New York State Energy Research and Department Authority (NYSERDA) Nursing Home pilot

Developed and led a pilot project with 615 New York State nursing homes to determine the energy and water savings potential and a program to quantify and deliver on the full energy and water savings potential of their facilities.

Hospital Performance Contracts

Ian has been leading Enerlife assignments related to new hospital development over the past 5 years, including the West Park, South Niagara and Halton Healthcare 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.

Halton Healthcare Services

Ian is the executive lead for this multi-year project as the hospital's Energy Consultant directing the P3 agreement M&V Services for the Oakville Trafalgar and Milton District sites. He is an active player in ensuring all contractual obligations are met and in developing the corrective action roadmaps to high performance targets that both sites are capable of. Ian applies his experience and credibility in resolving the range of disagreements which arise and keeping everyone focused on the shared interests in the high-performance vision for the hospitals.

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.

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.

20 by '15 Commercial Office Building Target (for Real Property Association of Canada)

Ian authored the Real Property Association of Canada's 20 by '15 energy performance target and white paper for commercial office buildings and the related methodology and reporting template for their national benchmarking program, launched in 2009 by REALPAC, BOMA and CaGBC.

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, and also their corporate energy and emissions reduction potential modeling for almost 100 buildings in Canada, the United States and Europe.

GREEN UP Pilot Projects and Programs (for Canada Green Building Council), 2007-2012

Ian led the concept design, development and executive oversight of national GREEN UP pilot projects and program development for the Canada Green Building Council (CaGBC). The pilot projects informed and tested the introduction of LEED Existing Buildings: O+M in Canada, and established GREEN UP across Canada as the CaGBC's performance-based complement to LEED Canada.

PUBLICATIONS & RESEARCH

"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



90 Eglinton Ave. East, Suite 412
Toronto, ON
M4P 2Y3
Canada
Tel: 416.915.1530
Fax: 416.915.1534

To: Ontario Energy Board
2300 Yonge Street
Suite 2701
Toronto, Ontario M4P 1E4
Re: EB-2019-0207 Distributed Energy Resources (DER) Connections Review

Date: Thursday, April 27, 2023

Invoice: 3754

Date	Hours	Analyst/Consultant/Case Mgmt	Description	Rate	Total
Thursday, July 7, 2022	0.25	Ian Jarvis	Review correspondence	\$330	\$82.50
Thursday, July 28, 2022	2.50	Ian Jarvis	Attendance/Participation DER Connections Tranche 4 - Process Subgroup meeting	\$330	\$825.00
Wednesday, August 3, 2022	3.00	Ian Jarvis	Attendance/Participation DER Connections Tranche 4 - Process Subgroup meeting	\$330	\$990.00
Monday, August 29, 2022	0.50	Ian Jarvis	Review correspondence	\$330	\$165.00
Wednesday, September 21, 2022	0.50	Ian Jarvis	Review correspondence	\$330	\$165.00
Thursday, September 29, 2022	1.50	Ian Jarvis	Attendance/Participation DER Connections Tranche 4 - Process Subgroup meeting	\$330	\$495.00
Tuesday, October 4, 2022	2.33	Ian Jarvis	Attendance/Participation DER Connections Tranche 4 - Process Subgroup meeting	\$330	\$768.90
Monday, October 24, 2022	0.25	Ian Jarvis	Review correspondence	\$330	\$82.50
Thursday, January 5, 2023	0.50	Ian Jarvis	Written comments submission on the proposed amendments to the Distribution System Code	\$330	\$165.00
Monday, January 16, 2023	1.50	Ian Jarvis	Attendance/Participation DER Connections Tranche 4 - Process Subgroup meeting	\$330	\$495.00
Tuesday, January 24, 2023	1.25	Ian Jarvis	Review Distribution System Code Amendments	\$330	\$412.50
Wednesday, January 25, 2023	0.25	Ian Jarvis	Meeting preparation	\$330	\$82.50
Thursday, January 26, 2023	2.75	Ian Jarvis	Attendance/Participation DER Connections Tranche 4 - Process Subgroup meeting	\$330	\$907.50
					\$5,636.40
				HST	\$732.73
				Total Amount	\$6,369.13

Payment due upon receipt of invoice.
Please make cheque payable to Enerlife Consulting Inc.

Ian A. Jarvis
President