

EB-2023-0195 : 1 : Kelly Bruce

COST CLAIM NUMBER 2430	SUBMISSION DEADLINE DATE December 19, 2024	CLAIM STATUS Approved by Finance
EB# EB-2023-0195: Rates: Distribution: Toronto Hydro-Electric System Limited	OTHER EB#S	PHASE #* 1
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 December 20, 2024

PARTICIPANTS

New	Non-Filing Participant First, Last Name	Filing Participant	Total (\$)	Total Hours	Participant Claim Status
No	,	Li, Clement ; +1 (416) 915-1530 cli@enerlife.com	145,028.27	388.92	Submitted
Yes	Ian , Jarvis		14,013.59	37.58	Submitted
Yes	Marc , Madi		14,582.66	44.50	Submitted

ATTACHMENTS

Attachment	Document Type	Import Message
BOMA EB-2023-0195 Cost Claim 122020241512.pdf		

TOTAL LEGAL/CONSULTANT/OTHER FEES	TOTAL DISBURSEMENTS	TOTAL HST
153,650.00	0.00	19,974.52

TOTAL CLAIM	TOTAL AMOUNT AWARDED
173,624.52	

TOTAL HOURS CLAIMED	TOTAL HOURS DISALLOWED
471.00	

REASON FOR DISALLOWANCE	REASON FOR DISALLOWANCE - 2	REASON FOR DISALLOWANCE - 3
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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
December 20, 2024

CASE EB-2023-0195: Rates: Distribution: Toronto Hydro-Electric System Limited	COST CLAIM EB-2023-0195 : 1 : Kelly Bruce	INTERVENOR NAME Bruce, Kelly; +1 (437) 328-9397 kbruce@enerlife.com	PARTICIPANT CLAIM STATUS Submitted
FILING PARTICIPANT Li, Clement ; +1 (416) 915-1530 cli@enerlife.com	NEW PARTICIPANT No	NON-FILING PARTICIPANT F. NAME	NON-FILING PARTICIPANT L. NAME
SERVICE PROVIDER TYPE* Consultant	YEAR CALLED TO BAR*	COMPLETED YEARS PRACTICING/YEARS OF RELEVANT EXPERIENCE* 30	HOURLY RATE 330
HST RATE CHARGED* 13.00	CV STATUS (FOR CONSULTANT/ANALYST) CV Provided within Previous 24 Months	LAST CV DATE April 24, 2024	OVERRIDE HOURLY RATE No
HST NUMBER R119420859	HEARINGS Yes	CONSULTATIONS No	DISBURSEMENTS No

HEARINGS

Hearings Hours 388.92	Hearings Subtotal (\$) 128,343.60	Hearings Total Tax (\$) 16,684.67	Hearings Total (\$) 145,028.27
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<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
DISCOVERY						
Read and Research Application and Evidence	56.00	330	18,480.00	13.00	2,402.40	20,882.40
Preparation of Interrogatories	10.50	330	3,465.00	13.00	450.45	3,915.45
Review Interrogatory Responses	8.00	330	2,640.00	13.00	343.20	2,983.20
Technical Conference Preparation	8.00	330	2,640.00	13.00	343.20	2,983.20
Technical Conference Attendance	35.00	330	11,550.00	13.00	1,501.50	13,051.50
Technical Conference Follow-up	5.50	330	1,815.00	13.00	235.95	2,050.95
Subtotal of DISCOVERY	123.00		40,590.00		5,276.70	45,866.70
PROCEDURAL						
Preparation of Issues List Submission		330		13.00		
Attendance at Issues List Conference	4.00	330	1,320.00	13.00	171.60	1,491.60
Preparation for a Confidentiality Request		330		13.00		
Prepare Submissions on Confidentiality		330		13.00		
Preparation of Motion(s) Materials		330		13.00		
Prepare Submissions on the Motion(s)		330		13.00		
Attendance at Hearing on Motion(s)		330		13.00		
Review Procedural Documents	8.50	330	2,805.00	13.00	364.65	3,169.65

<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
Subtotal of PROCEDURAL	12.50		4,125.00		536.25	4,661.25
INTERVENOR EVIDENCE						
Preparation of Intervenor Evidence	61.50	330	20,295.00	13.00	2,638.35	22,933.35
Interrogatory Responses	59.00	330	19,470.00	13.00	2,531.10	22,001.10
Preparation of Witness(es) for Attendance at Hearing		330		13.00		
Subtotal of INTERVENOR EVIDENCE	120.50		39,765.00		5,169.45	44,934.45
SETTLEMENT CONFERENCE						
Preparation for Settlement Conference	6.00	330	1,980.00	13.00	257.40	2,237.40
Attendance at Settlement Conference	64.75	330	21,367.50	13.00	2,777.78	24,145.28
Preparation of Settlement Proposal	43.00	330	14,190.00	13.00	1,844.70	16,034.70
Attendance at Presentation to Panel	1.17	330	386.10	13.00	50.19	436.29
Subtotal of SETTLEMENT CONFERENCE	114.92		37,923.60		4,930.07	42,853.67
WRITTEN ARGUMENT						
Written Submissions	6.50	330	2,145.00	13.00	278.85	2,423.85
Subtotal of WRITTEN ARGUMENT	6.50		2,145.00		278.85	2,423.85
ORAL ARGUMENT						
Preparation for Oral Hearing		330		13.00		
Attendance at Oral Hearing		330		13.00		
Oral Submissions		330		13.00		
Attendance at Oral Submissions		330		13.00		
Subtotal of ORAL ARGUMENT	0.00		0.00		0.00	0.00
DECISION						
Review Decision		330		13.00		
Review Rate/Accounting Order	10.50	330	3,465.00	13.00	450.45	3,915.45
Prepare Submission on Rate Order	1.00	330	330.00	13.00	42.90	372.90
Subtotal of DECISION	11.50		3,795.00		493.35	4,288.35
OTHER						
Other Attendance (e.g., Intervenor Conferences)		330		13.00		
Subtotal of OTHER	0.00		0.00		0.00	0.00
TOTAL SERVICE PROVIDER FEES						
Total Service Provider Fees	388.92		128,343.60		16,684.67	145,028.27

Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
Clement Li Timesheet EB-2023-0195.pdf	Time Docket	
BOMA Inv 4297 EB-2023-0195.pdf	Invoice	
EB-2023-0195 BOMA cost claim cover letter	Cover Letter	
Dec 20 2024.pdf		

Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Claim Type</u>	<u>Import Message</u>
Clement Li Timesheet EB-2023-0195.pdf	Time Docket	Hearings	
BOMA Inv 4297 EB-2023-0195.pdf	Invoice	Hearings	
EB-2023-0195 BOMA cost claim cover letter Dec 20 2024.pdf	Cover Letter	Hearings	

Timesheet Detail for Clement Li			
Date	Category	Description	Hours
15/01/24	Discovery	Read and Research Application and Evidence	8
22/01/24	Procedural	Attendance at Issues List Conference	4
22/01/24	Discovery	Read and Research Application and Evidence	8
24/01/24	Discovery	Read and Research Application and Evidence	6
25/01/24	Discovery	Read and Research Application and Evidence	8
26/01/24	Intervenor Evidence	Preparation of Intervenor Evidence	2
02/02/24	Discovery	Preparation of Interrogatories	5.5
05/02/24	Discovery	Preparation of Interrogatories	3
06/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
07/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
08/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
09/02/24	Discovery	Preparation of Interrogatories	2
14/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	3.5
21/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	3
22/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
22/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	2
23/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	3
26/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	2
27/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	3.5
28/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	3
29/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	5
01/03/24	Discovery	Read and Research Application and Evidence	3.5
04/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	2.5
05/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.5
06/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.5
07/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	3
08/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	4
11/03/24	Discovery	Read and Research Application and Evidence	1.5
11/03/24	Discovery	Read and Research Application and Evidence	3
02/04/24	Discovery	Technical Conference Preparation	8
04/04/24	Discovery	Review Interrogatory Responses	8
08/04/24	Discovery	Technical Conference Attendance	7
09/04/24	Discovery	Technical Conference Attendance	7
10/04/24	Discovery	Technical Conference Attendance	7
11/04/24	Discovery	Technical Conference Attendance	7
12/04/24	Discovery	Technical Conference Attendance	3
12/04/24	Discovery	Technical Conference Follow-up	5.5
15/04/24	Procedural	Review Procedural Documents	8
15/04/24	Discovery	Read and Research Application and Evidence	1
16/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
16/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	2
17/04/24	Discovery	Read and Research Application and Evidence	2.5

19/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.5
22/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
23/04/24	Procedural	Review Procedural Documents	0.5
23/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
24/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	2
25/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	2
26/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	7
29/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	6
30/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	4
01/05/24	Intervenor Evidence	Preparation of Intervenor Evidence	2.5
02/05/24	Intervenor Evidence	Preparation of Intervenor Evidence	3.5
09/05/24	Intervenor Evidence	Interrogatory Responses	3
10/05/24	Intervenor Evidence	Interrogatory Responses	7
13/05/24	Intervenor Evidence	Interrogatory Responses	5.5
14/05/24	Intervenor Evidence	Interrogatory Responses	5.5
15/05/24	Intervenor Evidence	Interrogatory Responses	8.5
16/05/24	Intervenor Evidence	Interrogatory Responses	4
17/05/24	Intervenor Evidence	Interrogatory Responses	7
21/05/24	Intervenor Evidence	Interrogatory Responses	8
22/05/24	Discovery	Technical Conference Attendance	4
22/05/24	Intervenor Evidence	Interrogatory Responses	4.5
23/05/24	Intervenor Evidence	Interrogatory Responses	6
24/05/24	Settlement Conference	Preparation for Settlement Conference	4
27/05/24	Settlement Conference	Attendance at Settlement Conference	7
28/05/24	Settlement Conference	Attendance at Settlement Conference	3.5
28/05/24	Settlement Conference	Attendance at Settlement Conference	3
29/05/24	Settlement Conference	Attendance at Settlement Conference	7
30/05/24	Settlement Conference	Attendance at Settlement Conference	7
31/05/24	Settlement Conference	Attendance at Settlement Conference	7
03/06/24	Settlement Conference	Attendance at Settlement Conference	7
04/06/24	Settlement Conference	Attendance at Settlement Conference	7
05/06/24	Settlement Conference	Attendance at Settlement Conference	7
06/06/24	Settlement Conference	Attendance at Settlement Conference	6.75
07/06/24	Settlement Conference	Preparation for Settlement Conference	2
10/06/24	Settlement Conference	Attendance at Settlement Conference	2
18/06/24	Settlement Conference	Preparation of Settlement Proposal	0
26/06/24	Settlement Conference	Attendance at Settlement Conference	0.5
03/07/24	Settlement Conference	Preparation of Settlement Proposal	1
09/07/24	Settlement Conference	Preparation of Settlement Proposal	6
12/07/24	Settlement Conference	Preparation of Settlement Proposal	0
29/07/24	Settlement Conference	Preparation of Settlement Proposal	3
31/07/24	Settlement Conference	Preparation of Settlement Proposal	4
01/08/24	Settlement Conference	Preparation of Settlement Proposal	4
02/08/24	Settlement Conference	Preparation of Settlement Proposal	3.5

06/08/24	Settlement Conference	Preparation of Settlement Proposal	2.5
07/08/24	Settlement Conference	Preparation of Settlement Proposal	2
08/08/24	Settlement Conference	Preparation of Settlement Proposal	2
09/08/24	Settlement Conference	Preparation of Settlement Proposal	2.5
12/08/24	Settlement Conference	Preparation of Settlement Proposal	4
13/08/24	Settlement Conference	Preparation of Settlement Proposal	2
14/08/24	Settlement Conference	Preparation of Settlement Proposal	1.5
15/08/24	Settlement Conference	Preparation of Settlement Proposal	2.5
17/09/24	Written Argument	Written Submissions	4.5
18/09/24	Written Argument	Written Submissions	2
16/10/24	Settlement Conference	Preparation of Settlement Proposal	2.5
17/10/24	Settlement Conference	Attendance at Presentation to Panel	1.17
26/11/24	Decision	Review Rate/Accounting Order	4.5
02/12/24	Decision	Review Rate/Accounting Order	6
03/12/24	Decision	Prepare Submission on Rate Order	1
Total Hours			388.92



INVOICE

90 Eglinton Avenue East, Suite 412

Toronto, Ontario, M4P 2Y3

www.enerlife.com

INVOICE #	DATE
4297	12/18/2024

BILL TO

Ontario Energy Board
 2300 Yonge Street
 Suite 2701
 Toronto, Ontario, M4P 1E4

Attention: Nancy Marconi, Registrar
 Re: EB-2023-0195 Toronto Hydro - Electric System Ltd.

DESCRIPTION	CONSULTANT	RATE	HOURS	AMOUNT
Participation in the above named proceeding. Please see attached timesheet detail for Ian Jarvis, Clement Li & Marc Madi	Ian Jarvis	330	37.58	12,401.40
	Clement Li	330	388.92	128,343.60
	Marc Madi	290	44.50	12,905.00

<i>Thank you for your business!</i>		SUBTOTAL	153,650.00
<i>Business number 86868 2014 RT0001</i>		TAX RATE	13.000%
<i>Please make cheque payable to Enerlife Consulting Inc.</i>		TAX	19,974.50
<i>Payment due upon receipt or invoice</i>		TOTAL	\$ 173,624.50

If you have any questions about this invoice, please contact Kelly Bruce @ kbruce@enerlife.com

BY RESS

December 20, 2024

Ms. Nancy Marconi
Registrar
Ontario Energy Board
2300 Yonge Street, 27th Floor
Toronto, Ontario
M4P 1E4

Dear Ms. Marconi:

EB-2023-0195 Toronto Hydro-Electric System Limited (Toronto Hydro) 2025–2029 Rates Application - Building Owners and Managers Association's (BOMA) Cost Claim

Please find attached BOMA's cost claim in the above noted proceeding. The claim covers preparation of BOMA's expert evidence which contributed to the partial settlement as well as its active participation throughout the proceeding.

Toronto Hydro's 2025-2029 Rates Application was complex, and it addressed the impact of electrification, the government's target to net-zero and the new conservation framework. The primary focus of BOMA's review is on Toronto Hydro's proposed load forecast methodologies and the resulting 2025-2029 load forecast (with respect to the commercial building sector), which is a key component of its proposed capital plan and distribution rates. BOMA also spent substantial effort on reviewing the cost allocation and rate design evidence.

On May 2, 2024, BOMA filed expert evidence with respect to forecasting of commercial building sector conservation and demand management (CDM) savings, electrification trends from 2025 to 2029 and related matters. Subsequently, the 2025-2029 electrification trends as described in the BOMA evidence were accepted by Toronto Hydro and parties in the Settlement Conference and were incorporated in the final 2025-2029 Toronto Hydro load forecast and distribution rates.

In its January 26, 2024 letter to the Ontario Energy Board, BOMA estimated that its expert report will cost approximately \$50k (report \$35k, interrogatory responses add 40%, other costs add \$4-10k). With higher-than-expected interests from parties (over 100 interrogatory questions, including sub-parts were received) and additional time and effort

on obtaining commercial building equipment consumption data, BOMA spent over 200 hours on preparing the expert report and interrogatory responses.

BOMA submits that its contribution in this proceeding was significant and requests recovery of its reasonably incurred costs in the course of this complex proceeding.

Sincerely,

A handwritten signature in black ink, appearing to read "Clement Li".

Clement Li

Director, Policy & Regulatory Development

Enerlife Consulting Inc.

cli@enerlife.com

Ian Jarvis

CASE EB-2023-0195: Rates: Distribution: Toronto Hydro-Electric System Limited	COST CLAIM EB-2023-0195 : 1 : 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* 30	HOURLY RATE 330
HST RATE CHARGED* 13.00	CV STATUS (FOR CONSULTANT/ANALYST) CV Attached	LAST CV DATE December 20, 2024	OVERRIDE HOURLY RATE No
HST NUMBER R119420859	HEARINGS Yes	CONSULTATIONS No	DISBURSEMENTS No

HEARINGS

Hearings Hours 37.58	Hearings Subtotal (\$) 12,401.40	Hearings Total Tax (\$) 1,612.19	Hearings Total (\$) 14,013.59
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<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
DISCOVERY						
Read and Research Application and Evidence		330		13.00		
Preparation of Interrogatories		330		13.00		
Review Interrogatory Responses		330		13.00		
Technical Conference Preparation		330		13.00		
Technical Conference Attendance		330		13.00		
Technical Conference Follow-up		330		13.00		
Subtotal of DISCOVERY	0.00		0.00		0.00	0.00
PROCEDURAL						
Preparation of Issues List Submission		330		13.00		
Attendance at Issues List Conference		330		13.00		
Preparation for a Confidentiality Request		330		13.00		
Prepare Submissions on Confidentiality		330		13.00		
Preparation of Motion(s) Materials		330		13.00		
Prepare Submissions on the Motion(s)		330		13.00		
Attendance at Hearing on Motion(s)		330		13.00		
Review Procedural Documents		330		13.00		

<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
Subtotal of PROCEDURAL	0.00		0.00		0.00	0.00
INTERVENOR EVIDENCE						
Preparation of Intervenor Evidence	23.83	330	7,863.90	13.00	1,022.31	8,886.21
Interrogatory Responses	13.75	330	4,537.50	13.00	589.88	5,127.38
Preparation of Witness(es) for Attendance at Hearing		330		13.00		
Subtotal of INTERVENOR EVIDENCE	37.58		12,401.40		1,612.19	14,013.59
SETTLEMENT CONFERENCE						
Preparation for Settlement Conference		330		13.00		
Attendance at Settlement Conference		330		13.00		
Preparation of Settlement Proposal		330		13.00		
Attendance at Presentation to Panel		330		13.00		
Subtotal of SETTLEMENT CONFERENCE	0.00		0.00		0.00	0.00
WRITTEN ARGUMENT						
Written Submissions		330		13.00		
Subtotal of WRITTEN ARGUMENT	0.00		0.00		0.00	0.00
ORAL ARGUMENT						
Preparation for Oral Hearing		330		13.00		
Attendance at Oral Hearing		330		13.00		
Oral Submissions		330		13.00		
Attendance at Oral Submissions		330		13.00		
Subtotal of ORAL ARGUMENT	0.00		0.00		0.00	0.00
DECISION						
Review Decision		330		13.00		
Review Rate/Accounting Order		330		13.00		
Prepare Submission on Rate Order		330		13.00		
Subtotal of DECISION	0.00		0.00		0.00	0.00
OTHER						
Other Attendance (e.g., Intervenor Conferences)		330		13.00		
Subtotal of OTHER	0.00		0.00		0.00	0.00
TOTAL SERVICE PROVIDER FEES						
Total Service Provider Fees	37.58		12,401.40		1,612.19	14,013.59

Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
Ian Jarvis Timesheet EB-2023-0195.pdf	Time Docket	
BOMA Inv 4297 EB-2023-0195.pdf	Invoice	
CV Ian Jarvis.pdf	CV	

Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Claim Type</u>	<u>Import Message</u>
Ian Jarvis Timesheet EB-2023-0195.pdf	Time Docket	Hearings	
BOMA Inv 4297 EB-2023-0195.pdf	Invoice	Hearings	
CV Ian Jarvis.pdf	CV	Hearings	

Timesheet Detail for Ian Jarvis			
Date	Category	Description	Hours
22/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.75
08/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
11/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.75
14/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
16/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.75
19/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.25
21/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
22/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.75
26/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
02/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
05/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.5
08/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.58
09/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.25
10/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.75
11/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.75
12/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.75
16/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
17/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
18/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.5
18/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
19/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
22/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.5
24/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
25/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.25
26/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
29/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.75
02/05/24	Intervenor Evidence	Preparation of Intervenor Evidence	4
12/05/24	Intervenor Evidence	Interrogatory Responsese	1.5
10/05/24	Intervenor Evidence	Interrogatory Responsese	0.5
11/05/24	Intervenor Evidence	Interrogatory Responsese	1
20/05/24	Intervenor Evidence	Interrogatory Responsese	4.75
17/05/24	Intervenor Evidence	Interrogatory Responsese	2
21/05/24	Intervenor Evidence	Interrogatory Responsese	0.5
22/05/24	Intervenor Evidence	Interrogatory Responsese	3.5
Total Hours			37.58



INVOICE

90 Eglinton Avenue East, Suite 412

Toronto, Ontario, M4P 2Y3

www.enerlife.com

INVOICE #	DATE
4297	12/18/2024

BILL TO

Ontario Energy Board
 2300 Yonge Street
 Suite 2701
 Toronto, Ontario, M4P 1E4

Attention: Nancy Marconi, Registrar
 Re: EB-2023-0195 Toronto Hydro - Electric System Ltd.

DESCRIPTION	CONSULTANT	RATE	HOURS	AMOUNT
Participation in the above named proceeding. Please see attached timesheet detail for Ian Jarvis, Clement Li & Marc Madi	Ian Jarvis	330	37.58	12,401.40
	Clement Li	330	388.92	128,343.60
	Marc Madi	290	44.50	12,905.00

<i>Thank you for your business!</i>		SUBTOTAL	153,650.00
<i>Business number 86868 2014 RT0001</i>		TAX RATE	13.000%
<i>Please make cheque payable to Enerlife Consulting Inc.</i>		TAX	19,974.50
<i>Payment due upon receipt or invoice</i>		TOTAL	\$ 173,624.50

If you have any questions about this invoice, please contact Kelly Bruce @ kbruce@enerlife.com

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

Marc Madi

CASE EB-2023-0195: Rates: Distribution: Toronto Hydro-Electric System Limited	COST CLAIM EB-2023-0195 : 1 : 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 Marc	NON-FILING PARTICIPANT L. NAME Madi
SERVICE PROVIDER TYPE* Consultant	YEAR CALLED TO BAR*	COMPLETED YEARS PRACTICING/YEARS OF RELEVANT EXPERIENCE* 15	HOURLY RATE 290
HST RATE CHARGED* 13.00	CV STATUS (FOR CONSULTANT/ANALYST) CV Attached	LAST CV DATE December 20, 2024	OVERRIDE HOURLY RATE Yes
HST NUMBER R119420859	HEARINGS Yes	CONSULTATIONS No	DISBURSEMENTS Yes

HEARINGS

Hearings Hours 44.50	Hearings Subtotal (\$) 12,905.00	Hearings Total Tax (\$) 1,677.66	Hearings Total (\$) 14,582.66
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<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
DISCOVERY						
Read and Research Application and Evidence		290		13.00		
Preparation of Interrogatories		290		13.00		
Review Interrogatory Responses		290		13.00		
Technical Conference Preparation		290		13.00		
Technical Conference Attendance		290		13.00		
Technical Conference Follow-up		290		13.00		
Subtotal of DISCOVERY	0.00		0.00		0.00	0.00
PROCEDURAL						
Preparation of Issues List Submission		290		13.00		
Attendance at Issues List Conference		290		13.00		
Preparation for a Confidentiality Request		290		13.00		
Prepare Submissions on Confidentiality		290		13.00		
Preparation of Motion(s) Materials		290		13.00		
Prepare Submissions on the Motion(s)		290		13.00		
Attendance at Hearing on Motion(s)		290		13.00		
Review Procedural Documents		290		13.00		

<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
Subtotal of PROCEDURAL	0.00		0.00		0.00	0.00
INTERVENOR EVIDENCE						
Preparation of Intervenor Evidence	41.25	290	11,962.50	13.00	1,555.13	13,517.63
Interrogatory Responses	3.25	290	942.50	13.00	122.53	1,065.03
Preparation of Witness(es) for Attendance at Hearing		290		13.00		
Subtotal of INTERVENOR EVIDENCE	44.50		12,905.00		1,677.66	14,582.66
SETTLEMENT CONFERENCE						
Preparation for Settlement Conference		290		13.00		
Attendance at Settlement Conference		290		13.00		
Preparation of Settlement Proposal		290		13.00		
Attendance at Presentation to Panel		290		13.00		
Subtotal of SETTLEMENT CONFERENCE	0.00		0.00		0.00	0.00
WRITTEN ARGUMENT						
Written Submissions		290		13.00		
Subtotal of WRITTEN ARGUMENT	0.00		0.00		0.00	0.00
ORAL ARGUMENT						
Preparation for Oral Hearing		290		13.00		
Attendance at Oral Hearing		290		13.00		
Oral Submissions		290		13.00		
Attendance at Oral Submissions		290		13.00		
Subtotal of ORAL ARGUMENT	0.00		0.00		0.00	0.00
DECISION						
Review Decision		290		13.00		
Review Rate/Accounting Order		290		13.00		
Prepare Submission on Rate Order		290		13.00		
Subtotal of DECISION	0.00		0.00		0.00	0.00
OTHER						
Other Attendance (e.g., Intervenor Conferences)		290		13.00		
Subtotal of OTHER	0.00		0.00		0.00	0.00
TOTAL SERVICE PROVIDER FEES						
Total Service Provider Fees	44.50		12,905.00		1,677.66	14,582.66

Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
CV Marc Madi 2024.pdf	CV	
Marc Madi Timesheet EB-2023-0195.pdf	Time Docket	
BOMA Inv 4297 EB-2023-0195.pdf	Invoice	

DISBURSEMENTS

Disbursement Subtotal(\$)	Disbursement Total Tax(\$)	Other Taxes/Tips Total(\$)	Disbursement Total(\$)
0.00	0.00	0.00	0.00

<u>Name</u>	<u>ATT. REQ'D</u>	<u>ATT. PROV</u>	<u>Qty</u>	<u>\$/ Unit</u>	<u>Net Cost</u>	<u>HST Rate</u>	<u>HST</u>	<u>Other Taxes/Tip</u>	<u>Rationale/ Total Comment</u>
Scanning/Photocopy (Internal)						13.00			
Scanning/Photocopy (External)						13.00			
Printing (Internal)						13.00			
Printing (External)						13.00			
Courier						13.00			
Teleconference						13.00			
Travel: Air						13.00			
Travel: Car Rental						13.00			
Travel: Gas						13.00			
Travel: Car Mileage – Southern Ontario				0.40					
Travel: Car Mileage – Northern Ontario				0.41					
Travel: Rail						13.00			
Travel (Other)						13.00			
Parking						13.00			
Taxi						13.00			
Accommodation						13.00			
Other						13.00			

Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Claim Type</u>	<u>Import Message</u>
CV Marc Madi 2024.pdf	CV	Hearings	
Marc Madi Timesheet EB-2023-0195.pdf	Time Docket	Hearings	
BOMA Inv 4297 EB-2023-0195.pdf	Invoice	Hearings	

Timesheet Detail for Marc Madi			
Date	Category	Description	Hours
20/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
20/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
20/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
16/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
16/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
22/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
22/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
23/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
23/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
26/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.5
27/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
29/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
29/02/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
04/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.5
01/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
01/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
01/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
05/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	2
06/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
18/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
18/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
07/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
20/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
20/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.25
20/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
20/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
19/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
19/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
19/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
22/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
22/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
22/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
21/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.75
21/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.25
25/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
28/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
28/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	2
27/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.5
26/03/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
03/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
03/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.75
05/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5

09/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
10/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
15/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
15/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
15/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
16/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
19/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
18/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
18/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.25
17/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
26/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
26/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
26/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
22/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1.5
22/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
22/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
23/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
24/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
24/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
24/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
25/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
25/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
29/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
29/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
29/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.25
30/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0
30/04/24	Intervenor Evidence	Preparation of Intervenor Evidence	0.5
02/05/24	Intervenor Evidence	Preparation of Intervenor Evidence	2.25
01/05/24	Intervenor Evidence	Preparation of Intervenor Evidence	1
10/05/24	Intervenor Evidence	Interrogatory Responsese	0.5
10/05/24	Intervenor Evidence	Interrogatory Responsese	0
21/05/24	Intervenor Evidence	Interrogatory Responsese	0.75
16/05/24	Intervenor Evidence	Interrogatory Responsese	0.5
22/05/24	Intervenor Evidence	Interrogatory Responsese	1
23/05/24	Intervenor Evidence	Interrogatory Responsese	0.5
Total Hours			44.5

MARC MADI MEng, LEED GA, PMP

Energy Performance Analyst, Enerlife Consulting Inc., 2023 to present
mmadi@enerlife.com 416-915-1530

SUMMARY OF PROFESSIONAL EXPERIENCE

Marc brings over 15 years of mechanical lead experience to Enerlife, having led over 40 building design/performance projects in commercial and institutional facilities. In addition to his experience with mechanical design and HVAC systems, he has in-depth knowledge of technical proposal preparation, technical reporting, tender and contract administration, and construction management. Marc has expert knowledge of automation design and modelling tools, and has led the creation of master department specifications, lessons learned, and design safety review registers. He has experience leading technical teams, including resource planning & allocation, training & development, coaching/directing staff, and assessing performance.

Marc is a Project Manager Professional and a LEED Green Associate.

RELEVANT PROJECTS

Cadillac Fairview

Enerlife's Integrated Building Performance Team program at Cadillac Fairview's Yonge Corporate Centre and TD Centre leverages BAS, interval data reporting and fault detection diagnostics to lead building operation teams in maximizing energy efficiency and occupant comfort. Marc is leading the team to develop Yonge Corporate Centre's Net Zero Roadmap. He conducted an ASHRAE Level II audit for the entire complex. Marc directed the team on trend log analysis for energy efficiency and plant optimization, as well as performed life cost analysis for low-carbon and energy conservation measures. At TD Centre, Marc ensures that the commercial office building's operations are optimized in accordance with standards such as ASHRAE 62.1.

Net Zero Feasibility studies

Working closely with the rest of Enerlife's engineering team, Marc supports the building data collection and technical analysis for a number of community centre GHG pathway to net zero feasibility studies in municipalities across Canada. Marc's responsibilities include conducting site visits in close collaboration with facility staff, data analysis, stakeholder management, and conducting workshops. These studies, conducted in partnership with CIMCO Refrigeration, leverage funding from the Federation of Canadian Municipalities to lay out the measures each building should take over time to eventually achieve net zero carbon emissions.

Township of King: Trisan Centre and Nobleton Arena Recommissioning and Monitoring

Enerlife worked with the Township of King to recommission two community centres with ice rinks to improve efficiency and as a first step in reducing greenhouse gas emissions to get to net zero. Marc was responsible for building and energy data collection and analysis, ongoing relationship with testing and balancing contractors, identification of measures and opportunities, and updating of Building Automation System (BAS) sequences of operation.

HIGHLIGHTS OF EXPERIENCE

- Experience providing evidence-based retrofits and operational solutions for mechanical and electrical systems in commercial and institutional buildings
- Contract and construction management

AREAS OF SPECIALIZATION

- Building Energy Audits
- Data Analysis & Implementation
- ASHRAE and CSA standards
- Revit
- Life cycle cost analysis

PROFESSIONAL AFFILIATIONS

- LEED Green Associate
- Project Management Professional (PMP), Project Management Institute

ACADEMIC QUALIFICATIONS

- Master of Science Mechanical Engineering, University of Balamand UOB (Lebanon), North Lebanon, El Koura
- Bachelor of Science-Mechanical Engineering, University of Balamand UOB (Lebanon), North Lebanon, El Koura



INVOICE

90 Eglinton Avenue East, Suite 412

Toronto, Ontario, M4P 2Y3

www.enerlife.com

INVOICE #	DATE
4297	12/18/2024

BILL TO

Ontario Energy Board
 2300 Yonge Street
 Suite 2701
 Toronto, Ontario, M4P 1E4

Attention: Nancy Marconi, Registrar
 Re: EB-2023-0195 Toronto Hydro - Electric System Ltd.

DESCRIPTION	CONSULTANT	RATE	HOURS	AMOUNT
Participation in the above named proceeding. Please see attached timesheet detail for Ian Jarvis, Clement Li & Marc Madi	Ian Jarvis	330	37.58	12,401.40
	Clement Li	330	388.92	128,343.60
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