

July 17, 2024

Hatem Hassan
Lawren Murray
Ontario Energy Board
2300 Yonge Street, 27<sup>th</sup> Floor
PO Box 2319
Toronto, ON M4P 1E4

Re: Cost Claim for EB-2022-0295

Dear Mr. Hassan and Mr. Murray:

Please accept our materials submitted via the OEB Portal for our Cost Claim for Chris Neme's work on the Natural Gas DSM Stakeholder Advisory Group (SAG) and Evaluation Advisory Committee (EAC) from November 1, 2023 through April 30, 2024.

Sincerely,

Mariana Du Brul

**Administrative Manager** 

Mariana U DiBril

## EB-2022-0295 : 2 : Mariana Du Brul

COST CLAIM NUMBER SUBMISSION DEADLINE DATE

2255 July 22, 2024 **CLAIM STATUS** Approved by Finance

EB# OTHER EB#S PHASE #\*

EB-2022-0295: Initiatives: Policy Dev, CDM:

Du Brul, Mariana; +1 (802) 482-4940

finance@energyfuturesgroup.com

Ontario Energy Board

INTERVENOR

INTERVENOR COMPANY\*

Energy Futures Group,

Hinesburg: Corporation

INTERVENOR TYPE

Tax Exempt

HST RATE ONTARIO **EXCHANGE RATE** 

0.00

**COUNTRY** 

US

LATE SUBMISSION ALLOWED HST NUMBER **EXTENSION DEADLINE DATE** 

No

**PARTICIPANTS Participant** Total (\$) Claim Total New Non-Filing Participant First, Last Name **Filing Participant Status** Hours 94.25 Nο 31,102.50 Neme, Chris; +1 (802) Submitted 482-5001 x.1 cneme@energyfuturesgroup

#### **ATTACHMENTS**

Attachment	Document Type	Import Message
EnergyFuturesGroup_CostClaim_CoverLetter_20240717.pdf	Cover Letter	
EFG EB-2022-0295 Cost Claim 071820241041.pdf		

TOTAL LEGAL/CONSULTANT/OTHER FEES TOTAL DISBURSEMENTS **TOTAL HST** 

31.102.50 0.00

**TOTAL CLAIM TOTAL AMOUNT AWARDED** 

31,102.50

**TOTAL HOURS CLAIMED** TOTAL HOURS DISALLOWED

94.25

**REASON FOR REASON FOR REASON FOR DISALLOWANCE DISALLOWANCE - 2 DISALLOWANCE - 3** 

MAKE CHEQUE PAYABLE TO Energy Futures Group, Inc.

SEND PAYMENT TO ADDRESS **ATTENTION** 

PO Box 587

Hinesburg, VT 05461 USA

0.00

#### 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 Chris Neme DATE SUBMITTED July 18, 2024

**INTERVENOR NAME** 

482-4940

Du Brul, Mariana; +1 (802)

finance@energyfuturesgroup.

**PARTICIPANT** 

Submitted

**CLAIM STATUS** 

**CASE COST CLAIM** EB-2022-0295: 2: Mariana EB-2022-0295: Initiatives: Policy Dev, CDM: Ontario Energy Board Du Brul FILING PARTICIPANT NEW Neme, Chris; +1 (802) 482-5001 **PARTICIPANT** cneme@energyfuturesgroup.com

0.00

**NON-FILING** 

**NON-FILING** PARTICIPANT F. NAME PARTICIPANT L. NAME

**SERVICE PROVIDER TYPE\*** YEAR CALLED TO BAR\* **COMPLETED YEARS HOURLY RATE** Consultant PRACTICING/YEARS OF 330 **RELEVANT EXPERIENCE\*** 37

**HST RATE CHARGED\* CV STATUS (FOR** CONSULTANT/ANALYST) CV Provided within Previous 24 Months

**LAST CV DATE OVERRIDE** April 29, 2024 **HOURLY RATE** No

**HST NUMBER HEARINGS CONSULTATIONS DISBURSEMENTS** No Yes No

## **CONSULTATION**

Consultation Hours 94.25 Consultations Subtotal (\$) 31,102.50 Consultations Total Tax (\$) 0.00 Consultations Total (\$) 31,102.50

	<u>Description</u>	Maximum	Hours	<u>Hourly</u>	Sub Total	HST Rate	<u>HST</u>	<u>Total</u>
		Hours		Rate	·		· <del></del>	
1	SAG Meeting #13 - November 9, 2023	3.75	3.25	330	1,072.50	0.00		1,072.50
2	Meeting with OEB Staff and Guidehouse on Achievable Potential Study (APS) scenarios - Nov 13 2023	0.75	0.50	330	165.00	0.00		165.00
3	APS Sub Committee Meeting OEB APS - Residential Measure Characterization Sub-Committee - Nov 16 2023	3.00	3.00	330	990.00	0.00		990.00
4	APS Sub Committee Meeting: OEB APS - Industrial Measure Characterization Sub-Committee - Nov 16 2023	4.50	2.75	330	907.50	0.00		907.50
5	APS Sub Committee Meeting OEB APS - Residential Measure Characterization Sub-Committee - Nov 17 2023	4.50	4.00	330	1,320.00	0.00		1,320.00
6	APS Sub Committee Meeting: Commercial Measure Characterization Tutorial - November 17, 2023	0.75	0.00	330		0.00		
7	Review and Comment: OEB APS - Incentive Application Memo - November 17, 2023	0.50	0.00	330		0.00		
8	SAG Meeting #14 - November 28, 2023	2.25	0.00	330		0.00		
9	Review and Comment: OEB APS Commercial Measure Characterization: Applicability Factors - Dec 1 2023	4.50	0.00	330		0.00		
10	APS Sub Committee Meeting: Scenario Finalization - December 4, 2023	1.50	0.00	330		0.00		
11	Review and Comment: SAG call with Guidehouse on APS Technical/Economic potentials - Dec 5 2023	1.50	1.00	330	330.00	0.00		330.00
12	SAG Meeting #15 - December 7, 2023	4.50	3.25	330	1,072.50	0.00		1,072.50
13	Touch Point Call: APS call with OEB Staff - December 14, 2023	0.75	0.75	330	247.50	0.00		247.50
14	APS Sub Committee Meeting: Technical/Economic Potential Review Meeting #1 - December 19, 2023	4.00	3.75	330	1,237.50	0.00		1,237.50
15	SAG Meeting #16 - December 21, 2023	5.25	5.25	330	1,732.50	0.00		1,732.50
16	Review/Comment Responding to Guidehouse heat pump characterizations & follow-up meeting -Dec 22 2023	0.75	0.75	330	247.50	0.00		247.50
17	APS Sub Committee Meeting: Technical/Economic Potential Review Meeting #2 - January 12, 2024	6.00	5.50	330	1,815.00	0.00		1,815.00
18	Review and Comment: OEB APS - Technical/Economic Potential Discussion Follow-Up - January 17, 2024	2.00	2.00	330	660.00	0.00		660.00
19	SAG Meeting #17 - January 18, 2024	4.50	3.00	330	990.00	0.00		990.00

	<u>Description</u>	Maximum Hours	<u>Hours</u>	Hourly Rate	Sub Total	HST Rate	<u>HST</u> ]	<u>Fotal</u>
20	Review/Comment: Residential & Commercial Technical/Economic Comment Response Round 1 - Jan 19	4.00	2.25	330	742.50	0.00	74	12.50
21	2024 Review/Comment: Residential & Commercial Technical/Economic Comment Response Round 2 - Jan 23	4.00	2.75	330	907.50	0.00	90	7.50
22	2024 Review and Comment: OEB APS - Draft Industrial Achievable Potential	6.00	0.00	330		0.00		
23	Results - January 24, 2024 APS Sub Committee Meeting: Industrial Achievable Roll-Out - January 26, 2024	1.00	1.00	330	330.00	0.00	33	30.00
24	Review/Comment: Residential & Commercial Technical/Economic Comment Response Round 3 - Jan 28 2023	4.00	0.00	330		0.00		
25	SAG Meeting #18 - February 1, 2024	1.50	0.00	330		0.00		
	APS Sub Committee Meeting: Technical/Economic Potential Review Meeting #3 - February 7, 2024	4.00	0.00	330		0.00		
27	APS Sub Committee Meeting: Sensitivity Analysis Planning - February 7, 2024	1.50	0.00	330		0.00		
28	APS Sub Committee Meeting: Commercial Coefficient of Performance - February 9, 2024	1.50	0.75	330	247.50	0.00	24	17.50
29	Touch Point Call with OEB Staff and Enbridge Gas, Inc. on sensitivity scenarios - February 9, 2024	0.75	0.50	330	165.00	0.00	16	85.00
30	Review/Comment: Residential & Commercial Technical/Economic Comment Response Round 4 - Feb 13 2024	3.00	1.75	330	577.50	0.00	57	77.50
31	Review and Comment: APS - Technical Suitability of Commercial Heat Pumps - Feb 28 2024	3.00	0.00	330		0.00		
32	APS Sub-Committee Meeting: Residential Achievable Roll-Out - March 1, 2024	0.50	0.00	330		0.00		
33	Review and Comment: OEB APS - Sensitivity Analysis Proposal - March 4, 2024	0.50	0.25	330	82.50	0.00	8	32.50
	Meeting: On Sensitivity Scenarios - March 12, 2024	1.50	1.25	330	412.50	0.00	41	12.50
35	SAG Meeting #19 - March 14, 2024	1.50	0.00	330		0.00		
	Review and Comment: APS Data Walkthrough - March 14, 2024	1.00	0.00	330		0.00		
37	Review and Comment: OEB APS - First Draft Residential Achievable Results - March 14, 2024	6.00	4.00	330	1,320.00	0.00	1,32	20.00
38	Review: OEB APS - Payback Acceptance Curves - March 18, 2024	0.50	0.00	330		0.00		
39	Meeting: Enbridge Gas, Inc Intervenor Session - March 26, 2024	3.00	3.00	330	990.00	0.00	99	00.00
40	SAG Meeting #20 - March 28, 2024	4.50	4.50	330	1,485.00	0.00	1,48	35.00
41	Review and Comment: OEB APS - Residential Achievable Comment Disposition - March 28, 2024	3.00	3.00	330	990.00	0.00	99	90.00

	<u>Description</u>	Maximum Hours	<u>Hours</u>	Hourly Rate	Sub Total	HST Rate	<u>HST</u>	<u>Total</u>
42	Review and Comment: OEB APS - Draft Commercial Achievable Potential Results - March 28, 2024	6.00	3.25	330	1,072.50	0.00		1,072.50
43	Review and Comment: OEB APS - Commercial Achievable Potential Intro - April 5, 2024	1.00	1.00	330	330.00	0.00		330.00
44	Review and Comment: OEB APS - Commercial Hybrid Air Sourced Heat Pumps - April 11, 2024	1.50	0.75	330	247.50	0.00		247.50
45	Review/Comment: OEB APS - Second Draft Residential Achievable Results for Review - April 16, 2024	3.00	2.50	330	825.00	0.00		825.00
46	SAG Meeting #21 - April 18, 2024	3.75	3.00	330	990.00	0.00		990.00
47	Review and Comment: OEB APS - Commercial Achievable Potential - April 18, 2024	4.00	1.75	330	577.50	0.00		577.50
48	EAC Meeting #7 - November 6, 2023	2.25	2.00	330	660.00	0.00		660.00
49	EAC Meeting #8 - November 14, 2023	3.50	1.50	330	495.00	0.00		495.00
50	Review and Comment: Custom Sample Design Memos - November 22, 2023	1.50	0.25	330	82.50	0.00		82.50
51	Review and Comment: Draft Technical Resource Manual (TRM) measures 1st Round - November 30, 2023	1.00	0.00	330		0.00		
52	Review and Comment: Draft TRM measures, 1st Round continued - December 6, 2023	1.00	0.00	330		0.00		
53	EAC Meeting #9 - December 12, 2023	2.50	1.00	330	330.00	0.00		330.00
54	Review and Comment: 2022 Annual Verification Draft Report - Portion 1 - December 18, 2023	2.00	2.00	330	660.00	0.00		660.00
55	Review and Comment: Residential Adaptive Thermostat Process Evaluation proposal - December 21, 2023	2.00	1.75	330	577.50	0.00		577.50
56	EAC Meeting #10 - January 16, 2024	2.50	0.25	330	82.50	0.00		82.50
57	Review and Comment: eTools Adjustment Factor - Draft Memo - January 31, 2024	1.50	0.00	330		0.00		
58	Review and Comment: TRM Review	1.00	0.00	330		0.00		
59	2nd Round - February 1, 2024 Review/Comment: 2022 Annual Verification Draft Report - Complete Draft (Post eTools) - Feb 14 2024	1.00	1.00	330	330.00	0.00		330.00
60	Review and Comment: Spillover Scope of Work Draft - February 14, 2024	4.00	0.00	330		0.00		
	Review and Comment: EAC Delphi panel proposal - February 15, 2024	1.50	0.75	330	247.50	0.00		247.50
	EAC Meeting #11 - February 27, 2024	2.25	2.25	330	742.50	0.00		742.50
53	Review and Comment: Process evaluation reports - March 6, 2024	12.00	0.00	330		0.00		
64	Review and Comment: Custom Sample Design Memos - March 8, 2024	2.50	0.00	330		0.00		
65	EAC Meeting #12 - March 19, 2024	1.00	0.00	330		0.00		
66	Review/Comment: Spillover examples, data request, meeting slides & sample design plans - Mar 20 2024	1.50	0.50	330	165.00	0.00		165.00

	<u>Description</u>	Maximum Hours	<u>Hours</u>	Hourly Rate	Sub Total	HST Rate	<u>HST</u>	<u>Total</u>
67	Review/Comment: Custom project savings verification (CPSV) Batch 1 Site Report - Mar 12 2024	0.50	0.00	330		0.00		
68	EAC Meeting #13 - April 2, 2024	2.25	1.50	330	495.00	0.00		495.00
69	Review and Comment: TRM Review 3rd Round - April 4, 2024	1.00	0.00	330		0.00		
70	Review and Comment: CPSV Batch 2 site reports - April 15, 2024	1.50	1.00	330	330.00	0.00		330.00
71	EAC Meeting #14 - April 16, 2024	1.00	1.00	330	330.00	0.00		330.00
72	EAC Meeting #15 - April 30, 2024	2.25	1.50	330	495.00	0.00		495.00
	Total Legal/Consultant Fees		94.25		31,102.50		0.00	31,102.50

### **Attachments**

AttachmentDocument TypeImport MessageEnergyFuturesGroup\_CostClaim\_Invoice\_20Invoice

240718.pdf

EnergyFuturesGroup\_CostClaim\_TimeDocke t\_EAC\_20240717.pdf

EnergyFuturesGroup\_CostClaim\_TimeDocke

t\_SAG\_20240717.pdf

Time Docket

Time Docket

# **Hearings, Consultations, Disbursements Attachments**

<u>Attachment</u>	Document Type	Claim Type	Import Message
EnergyFuturesGroup_CostClaim_Invoice_2	Invoice	Consultations	
0240718.pdf			
EnergyFuturesGroup_CostClaim_TimeDock	Time Docket	Consultations	
et_EAC_20240717.pdf			
EnergyFuturesGroup_CostClaim_TimeDock	Time Docket	Consultations	
et_SAG_20240717.pdf			

Employee			Project	Service			EAC Task	
Name	Work Date	JobID	Description	Hours	Rate	Fees Description	Number	EAC Activity
Chris Neme	11/6/2023	1045	EAC	2.00	\$330.00	\$660.00 EAC mtg	1	EAC Meeting #7
Chris Neme	11/14/2023	1045	EAC	1.50	\$330.00	\$495.00 participate in EAC mtg	2	EAC Meeting #8
Chris Neme	12/5/2023	1045	EAC	0.25	\$330.00	\$82.50 feedback to DNV on sample design memos	3	Review and Comment: Custom Sample Design Memos
Chris Neme	12/12/2023	1045	EAC	1.00	\$330.00	\$330.00 prep for and participate in EAC mtg	6	EAC Meeting #9
						review and provide comments on draft Enbridge process eval		Review and Comment: Residential Adaptive Thermostat
Chris Neme	1/2/2024	1045	EAC	1.75	\$330.00	\$577.50 of smart t-stats	8	Process Evaluation proposal
						review and draft comments on proposed eval plan; review and		Review and Comment: 2022 Annual Verification Draft Report -
Chris Neme	1/10/2024	1045	EAC	2.00	\$330.00	\$660.00 provide comments on draft 2022 verification report	7	Portion 1
Chris Neme	1/16/2024	1045	EAC	0.25	\$330.00	\$82.50 participate in EAC mtg	9	EAC Meeting #10
								Review and Comment: 2022 Annual Verification Draft Report -
Chris Neme	2/22/2024	1045	EAC	1.00	\$330.00	\$330.00 review and comment on draft 2022 AV report	12	Complete Draft (Post eTools)
Chris Neme	2/27/2024	1045	EAC	1.50	\$330.00	\$495.00 EAC monthly meeting	15	EAC Meeting #11
						review Enbridge recommenation, draft and send comments on		
Chris Neme	2/28/2024	1045	EAC	0.75	\$330.00	\$247.50 proposed delphi panel	14	Review and Comment: EAC Delphi panel proposal
						follow up on 2022 AV report comments on nominal discount		
						rate; send email info request to Enbridge; comments on 2/27		
Chris Neme	2/29/2024	1045	EAC	0.75	\$330.00	\$247.50 mtg notes	15	EAC Meeting #11
Chris Neme	4/2/2024	1045	EAC	1.50	\$330.00	\$495.00 EAC mtg	21	EAC Meeting #13
								Review and Comment: Spillover examples, data request,
Chris Neme	4/12/2024	1045	EAC	0.50	\$330.00	\$165.00 review Enbridge Spillover proposal, draft and send response	19	meeting slides and sample design plans
Chris Neme	4/16/2024	1045	EAC	0.75	\$330.00	\$247.50 prep for and participate in EAC mtg	24	EAC Meeting #14
Chris Neme	4/22/2024	1045	EAC	1.00	\$330.00	\$330.00 review CPSV Batch 2, send comments	23	Review and Comment: CPSV Batch 2 site reports
Chris Neme	4/23/2024	1045	EAC	0.25	\$330.00	\$82.50 review #14 mtg notes	24	EAC Meeting #14
Chris Neme	4/30/2024	1045	EAC	1.50	\$330.00	\$495.00 EAC mtg	25	EAC Meeting #15
Total						\$6,022.50		

			Project	Service			SAG Task	
Employee Name	Work Date	JobID	Description	Hours	Rate	Fees Description	Number	
Chris Neme	11/1/2023	1045	SAG	2.75	\$330.00	\$907.50 Research on data sources for Res assumptions, call w/Guidehouse; call w/Guidehouse, Staff on scenarios;	5	APS Sub Committee Meeting: OEB APS - Residential Measure Characterization Sub-Committee
Chris Neme	11/7/2023	1045	SAG	1.50	\$330.00	\$495.00 Review applicability factors, other Res. Assumptions and send comments	3	APS Sub Committee Meeting: OEB APS - Residential Measure Characterization Sub-Committee
Chris Neme	11/9/2023	1045	SAG	3.25	\$330.00	\$1,072.50 Working Group meeting, including prep and follow up	1	SAG Meeting #13
Chris Neme	11/13/2023	1045	SAG	0.50	\$330.00	\$165.00 mtg w/Staff, Guidehouse on APS scenarios	2	Meeting with OEB Staff and Guidehouse on Achievable Potential Study (APS) scenarios
Chris Neme	11/16/2023	1045	SAG	1.50	\$330.00	\$495.00 Res APS Subcommittee	3	APS Sub Committee Meeting: OEB APS - Residential Measure Characterization Sub-Committee
Chris Neme Chris Neme	11/16/2023 11/17/2023		SAG	2.75 1.25	\$330.00 \$330.00	\$907.50 Industrial APS Subcommittee \$412.50 APS res assumptions call	4 5	APS Sub Committee Meeting: OEB APS - Industrial Measure Characterization Sub-Committee  APS Sub Committee Meeting: OEB APS - Residential Measure Characterization Sub-Committee
Chris Neme	12/5/2023		SAG	1.25	\$330.00	\$330.00 SAG call with Guidehouse on tech/econ potential	11	Review and Comment: SAG call with Guidehouse on APS Technical/Economic potentials
Chris Neme	12/7/2023		SAG	3.25		\$1,072.50 prep for and participate in SAG mtg	12	SAG Meeting #15
Chris Neme	12/1/2023		SAG	2.75	\$330.00	\$907.50 Review and comment on draft Res/Ind tech potential	14	APS Sub Committee Meeting: Techinical/Economic Potential Review Meeting #1
Chris Neme	12/14/2023		SAG	0.75	\$330.00	\$247.50 APS call w/Josh, Alex; feedback on Enbridge proposed DSM framework "rules"	13	Touch Point Call: APS call with OEB Staff
Chris Neme	12/19/2023		SAG	1.00	\$330.00	\$330.00 mtg on APS deliverables, res measures	14	APS Sub Committee Meeting: Techinical/Economic Potential Review Meeting #1
Chris Neme	12/20/2023		SAG	0.50	\$330.00	\$165.00 Research, feedback on HP cost issues	16	Review and Comment: Responding to Guidehouse on heat pump chatacterizations and follow-up meeting
Chris Neme	12/21/2023	1045	SAG	5.25	\$330.00	\$1,732.50 prep for and participate in SAG mtg; APS deliverable call	15	SAG Meeting #16
Chris Neme	12/22/2023		SAG	0.25	\$330.00	\$82.50 response to GH on HP characterizations, call w/Peter M	16	Review and Comment: Responding to Guidehouse on heat pump chatacterizations and follow-up meeting
Chris Neme	1/4/2024		SAG	1.00	\$330.00	\$330.00 work on responses to Enbridge framework questions	17	APS Sub Committee Meeting: Techincial/Economic Potential Review Meeting #2
Chris Neme	1/5/2024		SAG	0.75	\$330.00	\$247.50 call w/Andrew Pride	17	APS Sub Committee Meeting: Techincial/Economic Potential Review Meeting #2
Chris Neme	1/11/2024		SAG	0.50	\$330.00	\$165.00 review and provide feedback on Guidehouse response to my Res measure comments	17	APS Sub Committee Meeting: Techincial/Economic Potential Review Meeting #2
Chris Neme Chris Neme	1/12/2024		SAG	3.25 2.00	\$330.00 \$330.00	\$1,072.50 APS call on tech/econ issues (2); draft responses to EGI framework questions (1.25) \$660.00 Review R& C tech/econ potential, send comments	17 18	APS Sub Committee Meeting: Techincial/Economic Potential Review Meeting #2  Review and Comment: OEB APS - Technical Economic Potential Discussion Follow-Up
Chris Neme	1/15/2024 1/18/2024		SAG	3.00	\$330.00	\$990.00 prep for and participate in SAG mtg	19	SAG Meeting #17
Chris Neme	1/19/2024		SAG	0.25	\$330.00	\$82.50 review feedback and respond on electrification cost; review GH response on GHG costs, send question	20	Review and Comment: Residential & Commercial Technical/Economic Comment Response - Round 1
CIIII3 IVCIIIC	1/15/2024	1043	JAG	0.23	Ç330.00	feedback to and discuss w/Guidehouse on avoided cost assumptions (incl GHGs); feedack to Guidehouse on	20	Review and comment. Residential & commercial recimical/Economic comment response Round 1
Chris Neme	1/22/2024	1045	SAG	1.25	\$330.00	\$412.50 res measure issues; review feedback from others	20	Review and Comment: Residential & Commercial Technical/Economic Comment Response - Round 1
Chris Neme	1/25/2024	1045	SAG	0.50	\$330.00	\$165.00 review feedback on window assumptions, HPWH, electrical cost for ASHP; draft responses	20	Review and Comment: Residential & Commercial Technical/Economic Comment Response - Round 1
Chris Neme	1/26/2024	1045	SAG	1.00	\$330.00	\$330.00 SAG mtg on industrial achievable potential	23	APS Sub Committee Meeting: Industrial Achievable Roll-Out
Chris Neme	1/29/2024	1045	SAG	0.25	\$330.00	\$82.50 feedback on electric panel upgrade cost, other measure assumptions	20	Review and Comment: Residential & Commercial Technical/Economic Comment Response - Round 1
Chris Neme	2/6/2024		SAG	0.75	\$330.00	\$247.50 call on res measure assumptions; follow up	21	Review and Comment: Residential & Commercial Technical/Economic Comment Response - Round 2
Chris Neme	2/7/2024		SAG	1.50	\$330.00	\$495.00 SAG call on APS; feedback on heat pump assumptions, bldg envelop measure saturation assumptions for	21	Review and Comment: Residential & Commercial Technical/Economic Comment Response - Round 2
Chris Neme	2/8/2024		SAG SAG	0.75	\$330.00 \$330.00	\$247.50 review commercial heat pump assumptions, discuss w/Francis W.; responses to emails from Alex	28 21	APS Sub Committee Meeting: Commercial Coefficient of Performance
Chris Neme Chris Neme	2/9/2024 2/9/2024		SAG	0.50	\$330.00	\$165.00 Call w/OEB and Enbridge on insulation measures \$165.00 call w/OEB and Enbridge on sensitivity scenarios	21	Review and Comment: Residential & Commercial Technical/Economic Comment Response - Round 2  Touch Point Call with OEB Staff and Enbridge Gas, Inc. on sensitivity scenarios
Chris Neme	2/12/2024		SAG	0.50	\$330.00	\$165.00 Review table of APS assumptions for Res building envelop baselines, follow up w/Guidehouse	30	Review and Comment: Residential & Commercial Technical/Economic Comment Response - Round 4
CIIII3 IVCIIIC	2/12/2024	1045	JAG	0.50	Ç330.00	Review and provide feedback on revised baseline assumptions for APS residential envelop measures, non-	30	Review and comment. Residential & commercial recumedy economic comment response Round 4
Chris Neme	2/14/2024	1045	SAG	1.00	\$330.00	\$330.00 rebate costs	30	Review and Comment: Residential & Commercial Technical/Economic Comment Response - Round 4
Chris Neme	2/15/2024		SAG	0.25	\$330.00	\$82.50 Feedback and email discussion of 4 residential heat pump scenario characterizations	30	Review and Comment: Residential & Commercial Technical/Economic Comment Response - Round 4
Chris Neme	3/4/2024		SAG	0.25	\$330.00	\$82.50 review GH memo on sensitivities, comments to OEB	33	Review and Comment: OEB APS - Sensitivity Analysis Proposal
Chris Neme	3/6/2024	1045	SAG	0.25	\$330.00	\$82.50 feedback on sensitivity scenarios and avoided cost issues	34	Meeting: On Sensitivity Scenarios
Chris Neme	3/12/2024	1045	SAG	1.00	\$330.00	\$330.00 SAG mtg on sensitivity analysis	34	Meeting: On Sensitivity Scenarios
						SAG meetings; email feedback on approach to sensitivities; review Res draft achievable potential results,		
Chris Neme	3/14/2024		SAG	4.00		\$1,320.00 draft and send comments	37	Review and Comment: OEB APS - First Draft Residential Achievable Results
Chris Neme	3/26/2024		SAG	3.00	\$330.00	\$990.00 Enbridge DSM engagement meeting (incl prep)	39	Meeting: Enbridge Gas, Inc. Intervenor Session
Chris Neme	3/28/2024		SAG	4.25		\$1,402.50 SAG meeting on industrial planning (incl prep); Res APS meeting (incl prep)	40	SAG Meeting #20
Chris Neme Chris Neme	4/2/2024 4/3/2024		SAG SAG	0.75 0.75	\$330.00 \$330.00	\$247.50 research on insulation and air sealing savings algorithms \$247.50 analysis of Enbridge home retrofit program data; emails to Guidehouse & Staff on insulation savings	41 41	Review and Comment: OEB APS - Residential Achievable Comment Disposition  Review and Comment: OEB APS - Residential Achievable Comment Disposition
CIIIIS Neille	4/3/2024	1045	SAG	0.75	\$550.00	analysis of Enbridge home retrofit program data; entails to Guidenouse & Staff on insulation savings	41	keview and Comment. OEB AP3 - Residential Achievable Comment Disposition
Chris Neme	4/4/2024	1045	SAG	1.00	\$330.00	\$330.00 changes	41	Review and Comment: OEB APS - Residential Achievable Comment Disposition
	., .,				700000	7		
Chris Neme	4/5/2024	1045	SAG	1.00	\$330.00	\$330.00 SAG mtg on commercial achievable potential	43	Review and Comment: OEB APS - Commercial Acheivable Potential Intro
Chris Neme	4/6/2024		SAG	0.50	\$330.00	\$165.00 air sealing analysis; response to Enbridge proposal	41	Review and Comment: OEB APS - Residential Achievable Comment Disposition
Chris Neme	4/10/2024		SAG	0.25	\$330.00	\$82.50 Review ACEEE commercial HP cost reference, email feedback to Staff, GH	44	Review and Comment: OEB APS - Commercial Hybrid Air Sourced Heat Pumps
Chris Neme	4/11/2024		SAG	3.25		\$1,072.50 commercial APS mtg; analysis and emails on commercial APS assumptions	42	Review and Comment: OEB APS - Draft Commercial Acheivable Potential Results
Chris Neme			SAG	0.50	\$330.00	\$165.00 research on commercial ASHP incr costs, email follow up	44	Review and Comment: OEB APS - Commercial Hybrid Air Sourced Heat Pumps
Chris Neme	4/23/2024		SAG	0.25	\$330.00	\$82.50 review meeting #20 draft notes	40	SAG Meeting #20
Chris Neme Chris Neme	4/25/2024 4/29/2024		SAG SAG	3.00 1.75	\$330.00	\$990.00 SAG mtg on Enbridge industrial programs \$577.50 call w/Guidehouse on Commercial measures; feedback on avoided costs for APS	46 47	SAG Meeting #21  Pavious and Comment: OFP ARS. Commercial Achainable Retential
Chris Neme Chris Neme	4/29/2024		SAG	2.50	\$330.00 \$330.00	\$577.50 call w/Guidenouse on Commercial measures; feedback on avoided costs for APS \$825.00 review res achievable potential, send comments	47	Review and Comment: OEB APS - Commercial Acheivable Potential  Review and Comment: OEB APS - Second Draft Residential Acheivable Results for Review
Total	7/30/2024	1043	JAG	76.00		\$25,080.00	45	neview and comment. Old AF3 - Second Draft nesidential Achievable nesults for neview
. 5.01				, 5.00				

# **Energy Futures Group, Inc.**

PO Box 587

Hinesburg, VT 05461 Phone: (802) 482-5001

Email: finance@energyfuturesgroup.com



### **Invoice**

**TO: Ontario Energy Board** 

Hatem Hassan 2300 Yonge Street

27th Floor

Toronto, ON M4P 1E4 hatem.hassan@oeb.ca

Lawren Murray, lawren.murray@oeb.ca

Registrar, registrar@oeb.ca

Invoice #: 6397

Job Name: DSM Stakeholder Advisory Group

Project Manager: Chris Neme Invoice Date: 7/18/2024

Invoice Period: 11/1/2023-4/30/2024

Terms: Net 30 Days Reference: EB-2022-0295

Consultant Labor	Job-Phase-Project	Project Description	Rate Ho	ours	Amount
Chris Neme	1045-01-01	SAG	\$330.00 76	5.00	\$25,080.00
Chris Neme	1045-02-01	EAC	\$330.00 18	3.25	\$6,022.50
EFG Labor Subtotal:			94	4.25	\$31,102.50

TOTAL DUE THIS INVOICE:	\$31.102.50 CAD
TOTAL DUE THIS INVOICE:	\$31,102.50 CAD

## **Energy Futures Group, Inc.**

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Hinesburg, VT 05461 Phone: (802) 482-5001

Email: finance@energyfuturesgroup.com



# **Task Description**

Invoice #: 6397

Job Name: DSM Stakeholder Advisory Group

Job Code: 1045

Invoice Period: 11/1/2023-4/30/2024

Consultant: Chris Neme

Date	Phase-Projec	t Project Description	Hours Task Description
11/1/2023	01-01	SAG	2.75 Research on data sources for Res assumptions, call w/Guidehouse; call w/Guidehouse, Staff on scenarios; follow up to Guidehouse on their meeting notes
11/7/2023	01-01	SAG	1.50 Review applicability factors, other Res. Assumptions and send comments
11/9/2023	01-01	SAG	3.25 Working Group meeting, including prep and follow up
11/13/2023	01-01	SAG	0.50 mtg w/Staff, Guidehouse on APS scenarios
11/16/2023	01-01	SAG	2.75 Industrial APS Subcommittee
11/16/2023	01-01	SAG	1.50 Res APS Subcommittee
11/17/2023	01-01	SAG	1.25 APS res assumptions call
12/5/2023	01-01	SAG	1.00 SAG call with Guidehouse on tech/econ potential
12/7/2023	01-01	SAG	3.25 prep for and participate in SAG mtg
12/13/2023	01-01	SAG	2.75 Review and comment on draft Res/Ind tech potential
12/14/2023	01-01	SAG	0.75 APS call w/Josh, Alex; feedback on Enbridge proposed DSM framework "rules"
12/19/2023	01-01	SAG	1.00 mtg on APS deliverables, res measures
12/20/2023	01-01	SAG	0.50 Research, feedback on HP cost issues
12/21/2023	01-01	SAG	5.25 prep for and participate in SAG mtg; APS deliverable call
12/22/2023	01-01	SAG	0.25 response to GH on HP characterizations, call w/Peter M
1/4/2024	01-01	SAG	1.00 work on responses to Enbridge framework questions
1/5/2024	01-01	SAG	0.75 call w/Andrew Pride
1/11/2024	01-01	SAG	0.50 review and provide feedback on Guidehouse response to my Res measure comments
1/12/2024	01-01	SAG	3.25 APS call on tech/econ issues (2); draft responses to EGI framework questions (1.25)
1/15/2024	01-01	SAG	2.00 Review R& C tech/econ potential, send comments
1/18/2024	01-01	SAG	3.00 prep for and participate in SAG mtg
1/19/2024	01-01	SAG	0.25 review feedback and respond on electrification cost; review GH response on GHG costs, send question
1/22/2024	01-01	SAG	1.25 feedback to and discuss w/Guidehouse on avoided cost assumptions (incl GHGs); feedack to Guidehouse on res measure issues; review feedback from others

1/25/2024	01-01	SAG	0.50 review feedback on window assumptions, HPWH, electrical cost for ASHP; draft responses
1/26/2024	01-01	SAG	1.00 SAG mtg on industrial achievable potential
1/29/2024	01-01	SAG	0.25 feedback on electric panel upgrade cost, other measure assumptions
2/6/2024	01-01	SAG	0.75 call on res measure assumptions; follow up
2/7/2024	01-01	SAG	1.50 SAG call on APS; feedback on heat pump assumptions, bldg envelop measure saturation assumptions for Res, Com
2/8/2024	01-01	SAG	0.75 review commercial heat pump assumptions, discuss w/Francis W.; responses to emails from Alex
2/9/2024	01-01	SAG	0.50 call w/OEB and Enbridge on sensitivity scenarios
2/9/2024	01-01	SAG	0.50 Call w/OEB and Enbridge on insulation measures
2/12/2024	01-01	SAG	0.50 Review table of APS assumptions for Res building envelop baselines, follow up w/Guidehouse
2/14/2024	01-01	SAG	1.00 Review and provide feedback on revised baseline assumptions for APS residential envelop measures, non-rebate costs
2/15/2024	01-01	SAG	0.25 Feedback and email discussion of 4 residential heat pump scenario characterizations
3/4/2024	01-01	SAG	0.25 review GH memo on sensitivities, comments to OEB
3/6/2024	01-01	SAG	0.25 feedback on sensitivity scenarios and avoided cost issues
3/12/2024	01-01	SAG	1.00 SAG mtg on sensitivity analysis
3/14/2024	01-01	SAG	4.00 SAG meetings; email feedback on approach to sensitivities; review Res draft achievable potential results, draft and send comments
3/26/2024	01-01	SAG	3.00 Enbridge DSM engagement meeting (incl prep)
3/28/2024	01-01	SAG	4.25 SAG meeting on industrial planning (incl prep)
4/2/2024	01-01	SAG	0.75 research on insulation and air sealing savings algorithms
4/3/2024	01-01	SAG	0.75 analysis of Enbridge home retrofit program data; emails to Guidehouse & Staff on insulation savings assumption changes
4/4/2024	01-01	SAG	1.00 analysis of Enbridge home retrofit program data; draft and send proposal on insulation savings assumption changes
4/5/2024	01-01	SAG	1.00 SAG mtg on commercial achievable potential
4/6/2024	01-01	SAG	0.50 air sealing analysis; response to Enbridge proposal
4/10/2024	01-01	SAG	0.25 Review ACEEE commercial HP cost reference, email feedback to Staff, GH
4/11/2024	01-01	SAG	3.25 commercial APS mtg; analysis and emails on commercial APS assumptions
4/12/2024	01-01	SAG	0.50 research on commercial ASHP incr costs, email follow up
4/23/2024	01-01	SAG	0.25 review meeting #20 draft notes
4/25/2024	01-01	SAG	3.00 SAG mtg on Enbridge industrial programs
4/29/2024	01-01	SAG	1.75 call w/Guidehouse on Commercial measures; feedback on avoided costs for APS
4/30/2024	01-01	SAG	2.50 review res achievable potential, send comments

TOTAL:			76.00
11/6/2023	02-01	EAC	2.00 EAC mtg
11/14/2023	02-01	EAC	1.50 participate in EAC mtg
12/5/2023	02-01	EAC	0.25 feedback to DNV on sample design memos
12/12/2023	02-01	EAC	1.00 prep for and participate in EAC mtg
1/2/2024	02-01	EAC	1.75 review and provide comments on draft Enbridge process eval of smart t-stats
1/10/2024	02-01	EAC	2.00 review and draft comments on proposed eval plan; review and provide comments on draft 2022 verification report
1/16/2024	02-01	EAC	0.25 participate in EAC mtg
2/22/2024	02-01	EAC	1.00 review and comment on draft 2022 AV report
2/27/2024	02-01	EAC	1.50 EAC monthly meeting
2/28/2024	02-01	EAC	0.75 review Enbridge recommenation, draft and send comments on proposed delphi panel
2/29/2024	02-01	EAC	0.75 follow up on 2022 AV report comments on nominal discount rate; send email info request to Enbridge; comments on 2/27 mtg notes
4/2/2024	02-01	EAC	1.50 EAC mtg
4/12/2024	02-01	EAC	0.50 review Enbridge Spillover proposal, draft and send response
4/16/2024	02-01	EAC	0.75 prep for and participate in EAC mtg
4/22/2024	02-01	EAC	1.00 review CPSV Batch 2, send comments
4/23/2024	02-01	EAC	0.25 review #14 mtg notes
4/30/2024	02-01	EAC	1.50 EAC mtg
TOTAL:			18.25