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Expert-in-Residence in IPSI, University of Toronto

February 1, 2022

Nancy Marconi
Acting Registrar, Ontario Energy Board
P.O. Box 2319, 2300 Yonge Street
Toronto ON, M4P 1E4

Dear Ms. Marconi,

**Re: EB-2020-0290 Ontario Power Generation Inc. - 2022-2026 Payment Amounts
Cost Claim of Energy Probe**

Attached is the argument cost claim of Energy Probe Research Foundation (Energy Probe) for the EB-2020-0290 proceeding, the application by Ontario Power Generation Inc. for approval of 2022-2026 Payment Amounts.

Energy Probe is aware that the OEB will not generally allow the recovery of costs for the attendance at procedural events of more than one representative of any party and that if a party intends to have more than one representative attend an event, the party should file a letter explaining why that was necessary. Due to the size and complexity of the EB-2020-0290 proceeding, Energy Probe used two consultants with each consultant responsible for certain issues. Since several procedural events dealt with multiple issues it was necessary for both consultants to attend them. For these events, Energy Probe has divided the hours between the two consultants so that neither consultant claimed the time for the entire procedural event.

Respectfully submitted on behalf of Energy Probe.

Tom Ladanyi
TL Energy Regulatory Consultants Inc.

cc. Roger Higgin (Sustainable Planning Associates Inc.)
Evelyn Wong (OPG Regulatory Affairs)

Energy Probe Research Foundation 225 BRUNSWICK AVE., TORONTO, ONTARIO M5S 2M6

Phone: (416) 964-9223 Fax: (416) 964-8239 E-mail: EnergyProbe@nextcity.com Internet: www.EnergyProbe.org

EB-2020-0290 : 1 : Tom Ladanyi

COST CLAIM NUMBER 97	SUBMISSION DEADLINE DATE February 17, 2022	CLAIM STATUS Approved by Finance
EB# EB-2020-0290: Rates: Generation: Ontario Power Generation Inc.	OTHER EB#S	PHASE #* 1
INTERVENOR Ladanyi, Tom; +1 (416) 423-3685 tom.ladanyi@rogers.com	INTERVENOR COMPANY* Energy Probe Research Foundation, Toronto: Cooperative	INTERVENOR TYPE Qualifying Non-Profit
HST RATE ONTARIO 6.50	EXCHANGE RATE	COUNTRY
HST NUMBER 10730 5146 RT0001	LATE SUBMISSION ALLOWED No	EXTENSION DEADLINE DATE

PARTICIPANTS

New	Non-Filing Participant First, Last Name	Filing Participant	Participant Total (\$)	Claim Status
No	,	Ladanyi, Tom; +1 (416) 423-3685 tom.ladanyi@rogers.com	62,558.10	Submitted
No	,	Higgin, Roger; +1 (416) 391-0738 spainc@rogers.com	27,061.65	Submitted

ATTACHMENTS

Attachment	Attachment Date	Participant	Document Type	Claim Type	Import Message
E_PRO EB-2020-0290 Cost Claim 020120221438.pdf Energy Probe Cost Claim Cover Letter for EB-2020-0290 OPG Proceeding.pdf			Cover Letter		

TOTAL LEGAL/CONSULTANT/OTHER FEES 84,150.00	TOTAL DISBURSEMENTS 0.00	TOTAL HST 5,469.75
TOTAL CLAIM 89,619.75	TOTAL AMOUNT AWARDED	
REASON FOR DISALLOWANCE	REASON FOR DISALLOWANCE - 2	REASON FOR DISALLOWANCE - 3

MAKE CHEQUE PAYABLE TO
Energy Probe Research Foundation

SEND PAYMENT TO ADDRESS
225 Brunswick Avenue
Toronto, Ontario
M5S 2M6

ATTENTION
Frank Cianflone

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
Tom Ladanyi

DATE SUBMITTED
February 01, 2022

Tom Ladanyi

CASE	COST CLAIM	INTERVENOR NAME	PARTICIPANT CLAIM STATUS
EB-2020-0290: Rates: Generation: Ontario Power Generation Inc.	EB-2020-0290 : 1 : Tom Ladanyi	Ladanyi, Tom; +1 (416) 423-3685 tom.ladanyi@rogers.com	Submitted

FILING PARTICIPANT	NEW PARTICIPANT	NON-FILING PARTICIPANT F. NAME	NON-FILING PARTICIPANT L. NAME
Ladanyi, Tom; +1 (416) 423-3685 tom.ladanyi@rogers.com	No		

SERVICE PROVIDER TYPE	YEAR CALLED TO BAR	COMPLETED YEARS PRACTICING/YEARS OF RELEVANT EXPERIENCE	HOURLY RATE
Consultant		47	330

CV STATUS (FOR CONSULTANT/ANALYST)	LAST CV DATE	HST RATE CHARGED
CV Provided within Previous 24 Months	November 21, 2021	6.50

HEARINGS	CONSULTATIONS	DISBURSEMENTS
Yes	No	Yes

HEARINGS

<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
Review Application and Evidence						
Review Application and Evidence	11.00	330	3,630.00	6.50	235.95	3,865.95
Discovery						
Preparation of Interrogatories	19.00	330	6,270.00	6.50	407.55	6,677.55
Review Interrogatory Responses	11.00	330	3,630.00	6.50	235.95	3,865.95
Technical Conference Preparation	15.00	330	4,950.00	6.50	321.75	5,271.75
Technical Conference Attendance	26.00	330	8,580.00	6.50	557.70	9,137.70
Technical Conference Follow Up		330		6.50		
Issues List						
Preparation	1.00	330	330.00	6.50	21.45	351.45
Attendance at Issues Conference		330		6.50		
Intervenor Evidence						
Preparation		330		6.50		
Interrogatory Responses		330		6.50		
Preparation of Witness(es) for Attendance at Hearing		330		6.50		
Settlement Conference / ADR						
Preparation	19.00	330	6,270.00	6.50	407.55	6,677.55
Attendance	19.00	330	6,270.00	6.50	407.55	6,677.55
Preparation of Settlement Proposal	1.00	330	330.00	6.50	21.45	351.45
Attendance at Presentation to Panel		330		6.50		
Oral Hearing						
Preparation	18.00	330	5,940.00	6.50	386.10	6,326.10
Attendance at Oral Hearing	18.00	330	5,940.00	6.50	386.10	6,326.10
Submissions						
Written Submissions	17.00	330	5,610.00	6.50	364.65	5,974.65
Oral Submissions		330		6.50		
Attendance at Oral Submissions		330		6.50		
Other Attendance						
Other Attendance	3.00	330	990.00	6.50	64.35	1,054.35
Communication						
With Client		330		6.50		
With Other Parties		330		6.50		
Motions						
Preparation of Motion(s) Materials		330		6.50		
Prepare Submissions on the Motion(s)		330		6.50		
Attendance at Hearing on Motion(s)		330		6.50		
Confidentiality						

Preparation of Application for Confidentiality	330	6.50	
Prepare Submissions on Confidentiality	330	6.50	
Attendance at Hearing on Confidentiality	330	6.50	
Decision			
Review	330	6.50	
Rate Order			
Review	330	6.50	
Prepare Submission on Rate Order	330	6.50	
Total Service Provider Fees			
Total Service Provider Fees:	58,740.00	3,818.10	62,558.10

Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
Tom Ladanyi Time Docket for EB-2020-0290 OPG Payment Amounts.pdf	Time Docket	
Tom Ladanyi Invoice for EB-2020-0290 OPG Payment Amounts.pdf	Invoice	

DISBURSEMENTS

<u>Name</u>	<u>Atchmnt Required</u>	<u>Atchmnt Provided</u>	<u>Qty</u>	<u>Cost/Unit</u>	<u>Net Cost</u>	<u>HST Rate</u>	<u>HST</u>	<u>Other Taxes/Tip</u>	<u>Total</u>	<u>Rationale/Comment</u>
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Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Related Disbursement Claim</u>	<u>Document Type</u>	<u>Claim Type</u>	<u>Import Message</u>
Tom Ladanyi Time Docket for EB-2020-0290 OPG Payment Amounts.pdf		Time Docket	Hearings	
Tom Ladanyi Invoice for EB-2020-0290 OPG Payment Amounts.pdf		Invoice	Hearings	

TL Energy Regulatory Consultants Inc.
Time Docket

Consultant: Tom Ladanyi
Proceeding: EB-2020-0290 OPG Payment Amounts

Date	Description of Work	Hours	Hours
2021-03-09	Review Application and Evidence	4	
2021-03-10	Review Application and Evidence	4	
2021-03-14	Review Application and Evidence	3	
	Review Application and Evidence Total	11	11
2021-03-16	Preparation of Interrogatories	5	
2021-03-17	Preparation of Interrogatories	6	
2021-03-20	Preparation of Interrogatories	3	
2021-03-21	Preparation of Interrogatories	2	
2021-03-22	Preparation of Interrogatories	3	
	Preparation of Interrogatories Total	19	19
2021-04-20	Review Interrogatory Responses	3	
2021-04-21	Review Interrogatory Responses	2	
2021-04-22	Review Interrogatory Responses	2	
2021-04-25	Review Interrogatory Responses	2	
2021-04-26	Review Interrogatory Responses	2	
	Review Interrogatory Responses Total	11	11
2021-04-22	Interrogatory Refusals Meeting	3	3
2021-04-27	Technical Conference Preparation	4	
2021-04-28	Technical Conference Preparation	4	
2021-05-01	Technical Conference Preparation	4	
2021-05-02	Technical Conference Preparation	3	
	Technical Conference Preparation Total	15	15
2021-05-03	Technical Conference Attendance	7	
2021-05-06	Technical Conference Attendance	7	
2021-05-07	Technical Conference Attendance	7	
2021-05-10	Technical Conference Attendance	5	
	Technical Conference Attendance Total	26	26
2021-05-12	Issues List Preparation	1	1
2021-05-18	Settlement Conference Preparation	4	
2021-05-21	Settlement Conference Preparation	2	
2021-05-25	Settlement Conference Preparation	3	
2021-05-26	Settlement Conference Preparation	2	
2021-05-31	Settlement Conference Preparation	2	
2021-06-02	Settlement Conference Preparation	3	
2021-06-05	Settlement Conference Preparation	3	
	Settlement Conference Preparation Total	19	19
2021-06-07	Settlement Conference Attendance	4	

TL Energy Regulatory Consultants Inc.

Time Docket

2021-06-08	Settlement Conference Attendance	3	
2021-06-09	Settlement Conference Attendance	3	
2021-06-10	Settlement Conference Attendance	3	
2021-06-11	Settlement Conference Attendance	3	
2021-06-14	Settlement Conference Attendance	3	
	Settlement Conference Attendance Total	19	19
2021-07-15	Settlement Proposal Preparation	1	1
2021-07-28	Oral Hearing Preparation	3	
2021-07-29	Oral Hearing Preparation	3	
2021-07-31	Oral Hearing Preparation	2	
2021-08-01	Oral Hearing Preparation	3	
2021-08-02	Oral Hearing Preparation	4	
2021-08-03	Oral Hearing Preparation	3	
	Oral Hearing Preparation Total	18	18
2021-08-04	Attendance at Oral Hearing	6	
2021-08-05	Attendance at Oral Hearing	7	
2021-08-06	Attendance at Oral Hearing	5	
	Attendance at Oral Hearing Total	18	18
2021-08-23	Written Submissions	4	
2021-08-24	Written Submissions	3	
2021-08-25	Written Submissions	3	
2021-08-26	Written Submissions	2	
2021-08-27	Written Submissions	2	
2021-08-28	Written Submissions	1	
2021-08-29	Written Submissions	1	
2021-08-30	Written Submissions	1	
	Written Submissions Total	17	17
	Total Hours for Proceeding		178

TL Energy Regulatory Consultants Inc.

Invoice

Date: January 31, 2022

Invoice No: EPRF 2022-02

To:
Frank Cianflone
Energy Probe Research Foundation
225 Brunswick Ave.
Toronto, ON
M5S 2M6

From:
Tom Ladanyi
TL Energy Regulatory Consultants
41 Divadale Drive
Toronto, ON
M4G 2N7
Phone: 416-423-3685
E-Mail: tom.ladanyi@rogers.com

OEB Docket: EB-2020-0290 OPG Payment Amounts

Total Hours
Rate
Total before HST
GST/HST No: 77848 0921 RT0001

HST

Cheque payable to: TL Energy Regulatory Consultants Inc.

178	
\$ 330.00	
	\$ 58,740.00
13%	\$ 7,636.20
Total	\$ 66,376.20

TL Energy Regulatory Consultants Inc.
Invoice

Roger Higgin

CASE	COST CLAIM	INTERVENOR NAME	PARTICIPANT CLAIM STATUS
EB-2020-0290: Rates: Generation: Ontario Power Generation Inc.	EB-2020-0290 : 1 : Tom Ladanyi	Ladanyi, Tom; +1 (416) 423-3685 tom.ladanyi@rogers.com	Submitted

FILING PARTICIPANT	NEW PARTICIPANT	NON-FILING PARTICIPANT F. NAME	NON-FILING PARTICIPANT L. NAME
Higgin, Roger; +1 (416) 391-0738 spainc@rogers.com	No		

SERVICE PROVIDER TYPE	YEAR CALLED TO BAR	COMPLETED YEARS PRACTICING/YEARS OF RELEVANT EXPERIENCE	HOURLY RATE
Consultant		35	330

CV STATUS (FOR CONSULTANT/ANALYST)	LAST CV DATE	HST RATE CHARGED
CV Attached	January 31, 2022	6.50

HEARINGS	CONSULTATIONS	DISBURSEMENTS
Yes	No	Yes

HEARINGS

<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
Review Application and Evidence						
Review Application and Evidence	14.00	330	4,620.00	6.50	300.30	4,920.30
Discovery						
Preparation of Interrogatories	9.00	330	2,970.00	6.50	193.05	3,163.05
Review Interrogatory Responses	14.00	330	4,620.00	6.50	300.30	4,920.30
Technical Conference Preparation	5.00	330	1,650.00	6.50	107.25	1,757.25
Technical Conference Attendance	7.00	330	2,310.00	6.50	150.15	2,460.15
Technical Conference Follow Up		330		6.50		
Issues List						
Preparation	2.00	330	660.00	6.50	42.90	702.90
Attendance at Issues Conference	2.00	330	660.00	6.50	42.90	702.90
Intervenor Evidence						
Preparation		330		6.50		
Interrogatory Responses		330		6.50		
Preparation of Witness(es) for Attendance at Hearing		330		6.50		
Settlement Conference / ADR						
Preparation	3.00	330	990.00	6.50	64.35	1,054.35
Attendance	17.00	330	5,610.00	6.50	364.65	5,974.65
Preparation of Settlement Proposal	3.00	330	990.00	6.50	64.35	1,054.35
Attendance at Presentation to Panel		330		6.50		
Oral Hearing						
Preparation		330		6.50		
Attendance at Oral Hearing		330		6.50		
Submissions						
Written Submissions	1.00	330	330.00	6.50	21.45	351.45
Oral Submissions		330		6.50		
Attendance at Oral Submissions		330		6.50		
Other Attendance						
Other Attendance		330		6.50		
Communication						
With Client		330		6.50		
With Other Parties		330		6.50		
Motions						
Preparation of Motion(s) Materials		330		6.50		
Prepare Submissions on the Motion(s)		330		6.50		
Attendance at Hearing on Motion(s)		330		6.50		
Confidentiality						

Preparation of Application for Confidentiality	330	6.50	
Prepare Submissions on Confidentiality	330	6.50	
Attendance at Hearing on Confidentiality	330	6.50	
Decision			
Review	330	6.50	
Rate Order			
Review	330	6.50	
Prepare Submission on Rate Order	330	6.50	
Total Service Provider Fees			
Total Service Provider Fees:	25,410.00	1,651.65	27,061.65

Attachments

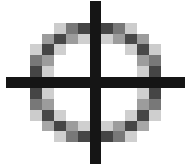
<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
SPA invoice 2022 EP-01.pdf	Invoice	invoice & time docket
Roger Higgin CV SPA 2021.pdf	CV	
SPA invoice 2022 EP-01.pdf	Time Docket	invoice & time docket

DISBURSEMENTS

<u>Name</u>	<u>Atchmnt Required</u>	<u>Atchmnt Provided</u>	<u>Qty</u>	<u>Cost/ Unit</u>	<u>Net Cost</u>	<u>HST Rate</u>	<u>HST</u>	<u>Other Taxes/Tip</u>	<u>Total</u>	<u>Rationale/ Comment</u>
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Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Related Disbursement Claim</u>	<u>Document Type</u>	<u>Claim Type</u>	<u>Import Message</u>
SPA invoice 2022 EP-01.pdf		Invoice	Hearings	invoice & time docket
Roger Higgin CV SPA 2021.pdf		CV	Hearings	
SPA invoice 2022 EP-01.pdf		Time Docket	Hearings	invoice & time docket

**SPA**

15 Malabar Place
Don Mills, Toronto, Ontario M3B 1A4
(416) 391-0738 fax (416) 391-0738

Invoice No. 2022-EP-01

INVOICE :**Customer**

Name Energy Probe Research Foundation
Address 225 Brunswick Avenue
City Toronto Province Ont P.C. M5S 2M6
Attn Frank Cianflone

Date **2022-01-28**
Project No **OPG Payment**
Title **Amts 2022-2026**
EB-2021-0290

Hours	Description Of Services		Unit Price	TOTAL
6	2021-03-12	Review Prefled Evidence Exhibits A,& F, make Notes	\$330.00	\$1,980.00
8	2021-03-15	Review Prefled Evidence Exhibits C,E,G, F, make Notes	\$330.00	\$2,640.00
		DISCOVERY		
8	2021-03-20	Prepare Draft Interrogatories Send to client	\$330.00	\$2,640.00
1	2021-03-22	Review/edit final IRs send for Filing	\$330.00	\$330.00
8	2021-04-22	Download and Compile EP IRRs Ex A,B,C,E.F,G.H	\$330.00	\$2,640.00
6	2021-04-28	Download and Compile EP Conf IRRs ExA,B,C,E.F,G.	\$330.00	\$1,980.00
2	2021-05-06	Attend Day 1 Technical Conference	\$330.00	\$660.00
3	2021-05-07	Prepare Questions for Panel 3 Unredacted	\$330.00	\$990.00
2	2021-05-08	Prepare Questions for Panel 3 Confidential	\$330.00	\$660.00
5	2021-05-10	Attend Technical Conference Zoom Questions Panel 3	\$330.00	\$1,650.00
		ISSUES LIST		
2	2021-05-17	Prepare for Issues Day	\$330.00	\$660.00
2	2021-05-18	Attend Issues Day	\$330.00	\$660.00
		SETTLEMENT CONFERENCE/ADR		
3	2021-06-04	Prepare for Settlement Conference	\$330.00	\$990.00
3	2021-06-07	Attend Settlement Conference Zoom	\$330.00	\$990.00
3	2021-06-08	Attend Settlement Conference Zoom	\$330.00	\$990.00
3	2021-06-09	Attend Settlement Conference Zoom	\$330.00	\$990.00
3	2021-06-10	Attend Settlement Conference Zoom	\$330.00	\$990.00
3	2021-06-11	Attend Settlement Conference Zoom	\$330.00	\$990.00
2	2021-06-13	Attend Settlement Conference Zoom	\$330.00	\$660.00
3	2021-07-13	Review Draft Settlement Proposal & Appendices	\$330.00	\$990.00
		SUBMISSIONS		
1	2021-08-28	Provide input on Unsettled issues	\$330.00	\$330.00
77.0	Total			\$25,410.00
			SubTotal	\$25,410.00
				\$0.00
			Taxes HST	\$3,303.30
			PST	
			TOTAL	\$28,713.30

Payment Details

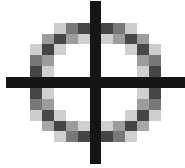
- ☐ Cash
☒ Cheque
☐ Other

Name **CHEQUES PAYABLE TO SPA**

Date _____

HST NUMBER 88413 6714 RT0001

Thank you for your Business

**SPA**

15 Malabar Place
Don Mills, Toronto, Ontario M3B 1A4
(416) 391-0738 fax (416) 391-0738

Invoice No. 2022-EP-01

INVOICE :**Customer**

Name Energy Probe Research Foundation
Address 225 Brunswick Avenue
City Toronto Province Ont P.C. M5S 2M6
Attn Frank Cianflone

Date **2022-01-28**
Project No **OPG Payment**
Title **Amts 2022-2026**
EB-2021-0290

Hours	Description Of Services	Unit Price	TOTAL
6	2021-03-12 Review Prefled Evidence Exhibits A,& F, make Notes	\$330.00	\$1,980.00
8	2021-03-15 Review Prefled Evidence Exhibits C,E,G, F, make Notes	\$330.00	\$2,640.00
	DISCOVERY		
8	2021-03-20 Prepare Draft Interrogatories Send to client	\$330.00	\$2,640.00
1	2021-03-22 Review/edit final IRs send for Filing	\$330.00	\$330.00
8	2021-04-22 Download and Compile EP IRRs Ex A,B,C,E.F,G.H	\$330.00	\$2,640.00
6	2021-04-28 Download and Compile EP Conf IRRs ExA,B,C,E.F,G.	\$330.00	\$1,980.00
2	2021-05-06 Attend Day 1 Technical Conference	\$330.00	\$660.00
3	2021-05-07 Prepare Questions for Panel 3 Unredacted	\$330.00	\$990.00
2	2021-05-08 Prepare Questions for Panel 3 Confidential	\$330.00	\$660.00
5	2021-05-10 Attend Technical Conference Zoom Questions Panel 3	\$330.00	\$1,650.00
	ISSUES LIST		
2	2021-05-17 Prepare for Issues Day	\$330.00	\$660.00
2	2021-05-18 Attend Issues Day	\$330.00	\$660.00
	SETTLEMENT CONFERENCE/ADR		
3	2021-06-04 Prepare for Settlement Conference	\$330.00	\$990.00
3	2021-06-07 Attend Settlement Conference Zoom	\$330.00	\$990.00
3	2021-06-08 Attend Settlement Conference Zoom	\$330.00	\$990.00
3	2021-06-09 Attend Settlement Conference Zoom	\$330.00	\$990.00
3	2021-06-10 Attend Settlement Conference Zoom	\$330.00	\$990.00
3	2021-06-11 Attend Settlement Conference Zoom	\$330.00	\$990.00
2	2021-06-13 Attend Settlement Conference Zoom	\$330.00	\$660.00
3	2021-07-13 Review Draft Settlement Proposal & Appendices	\$330.00	\$990.00
	SUBMISSIONS		
1	2021-08-28 Provide input on Unsettled issues	\$330.00	\$330.00
77.0	Total		\$25,410.00
		SubTotal	\$25,410.00
			\$0.00
		Taxes HST	\$3,303.30
		PST	
		TOTAL	\$28,713.30

Payment Details

- ☐ Cash
☒ Cheque
☐ Other

Name **CHEQUES PAYABLE TO SPA**

Date _____

HST NUMBER 88413 6714 RT0001

Thank you for your Business

SUSTAINABLE PLANNING ASSOCIATES INC.

Principal Dr. Roger M.R. Higgin PhD, MBA., P. Eng..

Dr. Roger Higgin has over 45 years of senior executive experience in the energy and environment sectors in both the public and private sectors.

*His appointments include Commissioner for regulation of gas and electric utilities with the Ontario Energy Board. Executive positions include COO in a high-tech firm, CEO in Canadian natural gas R&D, Assistant Deputy Minister of Energy Ontario Government, Deputy Commissioner of Environmental Services City of Toronto.
Academia: Lecturer Chemical Engineering University of Toronto*

Since 2000, his Company- Sustainable Planning Associates Inc. has provided Regulatory Consulting Services to Ratepayer and Public Interest Groups across Canada. He has testified at the AUB, MPUB and Regie d'Energie.

CONSULTING EXPERIENCE

A. SPA Inc. (In Association with Econalysis Consulting Services 2000 to 2012)

Testimony at Canadian Regulatory Tribunals

2009

Manitoba Public Utilities Board

Review of Manitoba Hydro PowerSmart Low Income Programs

Testimony On behalf of Manitoba Society of Seniors and Consumers Association*

2006

Regie de l'Energie Quebec

-Gazifere Inc. 2006 Rates-Proposal for Incentive Regulation Mechanism

Testimony on Behalf of Option Consommateurs*

2005

Regie de l'Energie Quebec

-Hydro Quebec Distribution -Review of PGEE 2006-2010

Testimony on Behalf of Option Consommateurs*

-Gazifere Inc. 2005 Rates-O&M Expense and Corporate Cost Allocations

Testimony on Behalf of Option Consommateurs*

2004

Manitoba Public Utilities Board

-Review of Manitoba Hydro Wuskwatim Project-

DSM, Windpower alternatives and Business/Partnership Arrangements

Testimony on Behalf of Manitoba Society of Seniors (Public Interest Law Centre)*

2003

Alberta Energy and Utilities Board

-ATCO Gas/Electric Transfer of Default Supply to Direct Energy *

“No Harm” Test in context of transaction/transfer

Testimony on Behalf of City of Calgary

2001

Regie de l'Energie Quebec

Societe en Commandite Gaz Metropolitain Unbundling of Rates

Testimony on Behalf of Option consommateurs*

Provision of consulting and advisory services and regulatory intervention support for Electricity, Gas and Telecommunications Regulatory Proceedings

- Electricity
 - Hydro Quebec Interruptible Power Rate
 - Review of IMO and OPA 2002-2006 Fees Submissions
 - Review of Manitoba Hydro Wuskwatim Project
 - OEB Review of Electric CDM Programs
 - OEB Review of 2006 EDR Rate Handbook
 - HQD PGEE 2006-2010*
 - LRAM and Smart Meter Cost Recovery for Ontario LDCs (26 Cases)
 - Toronto Hydro Rate Cases 2006-2010
 - Hydro One Distribution Rate Cases 2006-2012
- Natural Gas
 - OEB Gas Distribution Access Rule
 - OEB Natural Gas Forum 2004
 - OEB Generic Gas DSM 2006&2008
 - Enbridge Gas Distribution (OEB)
 - Comprehensive PBR Plan
 - Quarterly Rate Adjustment Mechanism Applications
 - Consultative on Demand Side Management
 - Review of 2002-2006 Rates
 - IRM Plan 2007-2012
 - Annual IRM and ESM proceedings
 - DSM plans 2006-2012
 - Rebasing and Cost of Service 2013
 - DSM Plan 2013-2014
 - Union Gas (OEB)
 - Unbundling of Rates and Services
 - Consultative on Demand Side Management
 - Quarterly Gas Cost Adjustment Mechanism Applications
 - Review of 2004 and 2006 Rates
 - Review of 2005 DSM Program
 - Review of 2006-2012 DSM Programs
 - Other
 - Regie Societe en Commandite Gaz Metropolitain Unbundling
 - Natural Resource Gas 2001 and 2002 rates ADR Settlement
 - BCUC Gas- Gas Cost Adjustment Mechanism Staff Paper

- BCUC Outsourcing of Customer Care to CustomerWorks LLP
- Sithe Energies Canada Application for natural gas Supply Pipeline
- ATCO Gas/Electric Transfer of Default Supply to Direct Energy *
- Gazifere 2005 Rate Application
- Telecommunications Sector
 - CRTC PN 00 27 Restructured Bands
 - CRTC PN 00 99 Scope of Price Cap Review
 - CRTC PN 01 125 Monitoring Canadian Telecommunications Industry

B. SPA Inc. (On Behalf of Energy Probe Research Foundation) 2012 to Present

Electricity

- Great Lakes Power Transmission 2013 Rates
- Toronto Hydro IRM/ICM 2012-2014
- Hydro One Transmission IRM/ICM 2013
- Hydro One Distribution IRM/ICM 2013
- London Hydro COS 2013 Rates
- Hydro One Distribution MY COS 2015—2019
- IESO 2015-22 Fees (4 cases)
- Hydro One Transmission 2018 Rates
- Toronto Hydro IRM 2018-2024
- Ottawa Hydro 2022-2027 rates
- Next Bridge UCT Transmission Line
- Numerous Ontario small LDC Applications 2018-Present
- Ontario Power Generation Payment Amounts 2022-2027
- Hydro One Transmission IRM 2023-2027

Natural Gas

- Union Gas Limited 2012-16 Earnings Sharing and Deferral Accounts
- Enbridge DA and ESM 2015-2017
- Union Gas Rebasing COS 2013 Rates
- Enbridge and Union GTA Pipeline Projects 2015
- Union Gas IRM 2014-2014 Rates
- EGDI IRM 2014-2018 Rates
- EGDI and Union Gas Amalgamation & IRM 2018-2027
- Enbridge Inc. Rates 2020, 2021, 2022
- EGI Federal Carbon Tax FCPP 2020, 2021
- EGI Integrated Resource Planning 2021
- EGI Multi-year DSM Plan 2022-2027

C. SPA INC (other clients)

- Gaz Metro COS 2013 Rates
- Hydro Quebec IRM 2014-2019
- Manitoba Hydro NFAT Hydro Review 2014
Testimony On behalf of Manitoba Society of Seniors and Consumers Association*
- Hydro Quebec Transmission IRM 2016-18

- Hydro Quebec Distribution 2018 Rates
- Hydro Quebec Distribution IRM 2016-18
- Hydro Quebec Transmission IRM 2021 Volet 1
- Hydro Quebec and Energir Bienergie

D. Employment History

Ontario Energy Board

Board Member 1996 to 2000 (Retired June 2000)

- Regulation of gas and electric utilities in Ontario. Holding proceedings, writing and rendering Decisions and Orders. Scope included facilities, rates, gas cost and generic proceedings. Examples are rates for Enbridge Consumers Gas and Union Gas, PBR plan for Enbridge Consumers Gas, standard supply service for electricity distributors, revenue requirement and transmission rates for Ontario Hydro Services Company (now Hydro One).
- Deregulation
 - Chaired/Participated in the Following Regulatory Proceedings:
 - 1999 and 2000 revenue requirements and rates for Ontario Hydro Networks (now Hydro One) – Transmission and Distribution
 - Hearing on Standard Supply Service (SSS)
 - Rates for unbundled Transmission tariffs for Hydro One
 - Member of Internal Committee on Codes and Standards:
 - Transmission Access Code
 - Retail Settlement Code
 - Affiliate Relations Code
 - Performance Based Regulation for Electricity Distributors
- Cost of Service Regulation
 - Review of Ontario Hydro Conservation Programs
 - Presided over and wrote numerous Rates and Facilities Decisions
 - Targeted PBR Decision for Enbridge Consumers Gas
 - Outsourcing of CIS-Union Gas Limited
 - Separation of Ancillary Programs – Union Gas Limited
 - Westcoast Merger of Union Gas and Centra Gas Ontario
 - Affiliate Relations Rule
 - Gas Marketing Code
 - E.B.O. 188 Report of Board Guidelines for Natural Gas System Expansion

Unisearch Associates Inc.

General Manager and Chief Operating Officer 1995 to 1996

- Responsible for Business Planning, Reorganization, Refinancing and Restructuring of \$2 million high technology environmental instrumentation and service start-up company. Establishment of marketing, production, financial management and securing new bank and equity financing. Strategic & Distribution alliances.

Gas Technology Canada and CGRI

President and Chief Executive Officer 1992 to 1995

- On behalf of Canadian Natural Gas Distribution Sector, operated \$8 million Natural Gas Research and Development program, including Canadian Gas Research Institute Laboratory and the Gas Technology Canada technology development investment portfolio.

Toronto Department of Public Works and the Environment

Deputy Commissioner Environmental Services Division

1991 to 1992

- Responsible for new Environmental Services Division with 600 staff dealing with waste management, air and water quality, transportation systems management, infrastructure planning and development, Office of Energy Efficiency, departmental IT planning and capital budgeting.

Ontario Energy Board

Board Member 1988 to 1991

- Regulatory/Administrative Commissioner. Chairing Public Hearings-Electric & Gas Utilities. Review of Ontario Hydro Rates and Capital Plans.
- Writing Decisions and Orders.
- Representing Board at meetings & conferences.

Ontario Ministry of Energy

Assistant Deputy Minister- Programs & Technology Division

1984 to 1988

- Staff complement 74, annual budget - \$35 million.
- Input to Policy and Strategy on all aspects of Energy Supply and Demand
- Allocation of over 80% of the Ministry's budget to Conservation and Renewable Energy program priorities.
- Organizational design and organizational development in the Division.
- Federal/Provincial relations.
- Representing the Ministry at numerous public events involving speaking engagements, TV and radio.

Ontario Energy Ventures

President 1986 to 1988

- In charge of the wind-up of Ontario Energy Corporation's subsidiary (OEV) and \$100 Million in venture capital investments in technology companies.
- Director of eight of the subsidiary companies. Responsible for portfolio management, strategy and negotiations leading to divestiture, conversion of investments into carried interest or folding of companies.

Canada/Kenya Energy Advisory Consortium 1982-1986

Chair of Board of CIDA-funded Ontario Energy Consortium Multi-disciplinary team of energy advisors to Kenya Ministry of Energy.

Ministry of Energy

Executive Coordinator 1980 to 1984

- Alternative and Renewable Energy Group.

Senior Advisor 1974 to 1980

- Special Studies and Renewable Energy.

Ontario Ministry of Environment**1973 to 1974 Branch Head**

- Special Studies and Program Planning, Air Resources Branch.

1971 to 1973 District Engineer

- Air Pollution Abatement Section

1970 to 1971 Consulting Engineer (Self-Employed)**1968 to 1970 University of Toronto Chemical Engineering Department
Post-graduate Research Fellow and Lecturer****D. Directorships & Committee Memberships Held**

1995-96 Director-Unisearch Associates Inc.

1991-1995 Director -Gas Technology Canada, CGRI,

1984-88 Director - Ontario Energy Ventures

1984-88 Chairman -Ontario Energy Consortium Kenya/Canada Energy Project

1991 Chairman Energy Task Force Ontario Round Table Environment and Economy

1982-1988 Member-University Research Incentive Fund Selection Committee

Scientific Advisor-Premiers Council Tech Fund and NSERC

Professional Affiliations

Professional Engineers of Ontario (P. Eng.)

E. Education**Masters of Business Administration**

University of Toronto, Faculty of Management Studies, Dean's List 1986

Ph.D.

Fuel Science and Applied Chemistry, University of Leeds, England, 1968.

Thesis: "Shock Tube Ignition of Hydrocarbon Fuels" - high speed chemical reactions and computer simulation of reactions. Presented at 12th Combustion Symposium, Poitiers 1968

B.Sc. with 1st Class Honours

Fuel Science and Combustion Engineering, University of Leeds, England, 1965.

Majors: Heat Transfer, Chemical Reactions, Coal, Oil and Gas Production and Utilization.

F. Selected Publications/Presentations

- Demand Side Management A Customer Perspective. CAMPUT Educational Conference Whistler BC April 2003
- PBR for Gas Utilities. Presentation to CGA Seminar. February 2002.
- Higgin, R.M.R., Dean, D.A., "Integrated Resource Planning", Presented at the Annual Meeting of the Ontario Natural Gas Association, Toronto, September 1990
- Higgin, R.M.R., "Non Utility Generation In Ontario", Presented at CAMPUT Educational Conference, Lake Louise, Alberta, May 1990

- Higgin, R.M.R., "Regulation of the Crown Owned Electric Utility In Ontario", Presented at CAMPUT Educational Conference, Lake Louise, Alberta, May 1990
- Higgin, R.M.R., "Conversion of Refuse to Energy in Ontario Canada and the Provincial Energy from Waste Program", Conversion of Refuse to Energy Conference, Berlin, West Germany, October 1979
- Higgin, R.M.R., "Ontario Biomass/Energy from Waste Program", CSChE Conference, Halifax, 1978
- Orgill, J.F. and Higgin, R.M.R., "The Effect of Component Costs on Solar Systems Design", Renewable Alternatives Conference, Solar Energy Society of Canada, London, 1978
- Higgin, R.M.R., "Windpower Applications in Ontario", CSME Annual Meeting, Toronto, 1978
- Higgin, R.M.R., "Novel Energy Sources", 26th CSChE Conference, Toronto, 1976
- Higgin, R.M.R., "Solar Heating for Buildings in Ontario", Sharing the Sun, Joint ISES/SESCI Conference, Winnipeg, 1976
- Higgin, R.M.R. and Brown, C.K., "Preliminary Assessment of the Potential of Wind Generators as Fuel Savers in A.C. Community Diesel Power Systems in Ontario", Sharing the Sun, Joint ISES/SESCI Conference, Winnipeg, 1976
- Chisamore, G.C. and Higgin, R.M.R., "Ontario Resources Recovery Program", Conversion of Refuse to Energy Conference, Montreaux, Switzerland, 1975
- Higgin, R.M.R., Ogner, D.J. and Shenfeld, L., "Frequency and Particle Size Distribution of Lead in the Toronto Urban Aerosol", 1975
- Higgin, R.M.R., "Shock Tube Studies of the Dissociation of Ammonia and Methane", Joint ACS/CSChE Conference, 1970
- Higgin, R.M.R. and Williams, A., "Ignition Delay of Methane/Oxygen Methane/Oxygen/Butane Mixtures in Shock Tubes", 12th International Symposium on Combustion, Poitiers, France, 1968

Articles

- Northern Miner, September 18, 1976; Renewable Energy Resources Merit Continuing Study"
- Conservationist, March 1977
- Ontario's Energy from Waste Program: Perspective March 1981
- Time for Reassessment of Alternatives: Oil Week July 1982