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Kathleen Burke
Director, Applications Delivery
Regulatory Affairs

BY EMAIL AND RESS

January 14, 2022

Ms. Nancy Marconi
Acting Registrar
Ontario Energy Board
Suite 2700, 2300 Yonge Street
P.O. Box 2319
Toronto, ON M4P 1E4

Dear Ms. Marconi,

EB-2021-0110 – Custom IR Application (2023-2027) for Hydro One Networks Inc. Transmission and Distribution ("Hydro One") – Undertaking Responses and CVs

Further to Hydro One's letters dated December 23, 2021 and January 5, 2022, attached please find Hydro One's responses to undertakings VECC-TCQ-19, JT-4.11, JT-5.26 and JT-5.28 provided at the Technical Conference held December 13 to 17, 2021 in respect of the above-noted proceeding.

Also attached are the CVs for Hydro One's witnesses.

This filing has been submitted electronically using the OEB's Regulatory Electronic Submission System (RESS).

Sincerely,

Kathleen Burke

Encls.

cc. EB-2021-0110 parties (electronic)

UNDERTAKING JT-4.11

Reference:

I-22-L-SEC-235

Undertaking:

To consider the request to provide a side by side comparison of capital assets serving the acquired utilities, by USofA account, comparing the net amounts in the cost allocation model and the records of capital assets Hydro One was required by the Board to maintain, or to advise if Hydro One objects to this request.

Response:

Hydro One's comparison of capital assets in this undertaking is based on the updated 2023 CAM and associated Direct Allocation Factor Calculation file provided as attachments to JT-VECC-TCQ-19. Given the immaterial impacts of the updates to the 2023 CAM and associated Direct Allocation Factor Calculation, as discussed in JT-VECC-TCQ-19, the analysis below applies equally to Hydro One's original pre-filed evidence in relation to these aspects.

In approving the acquisition of Norfolk, Haldimand and Woodstock[1], the OEB directed Hydro One to maintain records of the cost to serve these utilities in order to inform the rate-setting process at the completion of the respective deferred rebasing periods. For the purpose of rate-setting, Hydro One has been and will continue to maintain the records of capital assets in USoA 1815 to 1860 for each of the acquired utilities until the OEB advises that specific tracking of this information is no longer required. The actual and forecast capital assets for each of the acquired utilities in USoA accounts 1815 to 1860, tracked in accordance with OEB direction, are found in JT-VECC-TCQ-19 Attachment 2, sheet "1. Forecast Acq GBV". For the purpose of running the 2023 CAM, the capital assets for each acquired utility are subsequently allocated to the new acquired residential and GS classes, and the capital assets associated with Hydro One bulk assets required to serve the acquired rate classes are also included. The details of this process can be found in JT-VECC-TCQ-19 Attachment 2, sheets "1. Forecast Acq GBV", "2. Acq Last CAM outputs", "3. Allocated Forecast Acq GBV", "5. Determine Alloc for Acq" and "5a. Acq Bulk Factors". The resulting actual and forecast GFA capital assets specifically used by the acquired rate classes in 2023 are shown in sheet "5. Determine Alloc for Acq" and are reproduced in column 1 of Table 1 below for ease of reference.

[1] EB-2013-0196/EB-2013-0187/EB-2013-0198 (Norfolk), EB-2014-0244 (Haldimand) and EB-2014-0213 (Woodstock)

The GFA assigned to the acquired rate classes for the purpose of allocating costs in the 2023 CAM can be found in JT-VECC-TCQ-19 Attachment 1, sheet "E2 Allocators", cells "P478:U507". These amounts have been reproduced in column 2 of Table 1 below for ease of reference.

A side by side comparison of the total GFA for the new acquired rate classes from Hydro One's 2023 CAM and the GFA capital assets associated with serving the acquired rate classes, tracked per OEB direction, is provided in Table 1. As shown in Table 1, the total GFA amount of assets in USoA 1815 to 1860 specifically associated with serving the acquired classes in 2023 is $266,388,174, which exactly matches the total amount of these assets allocated to the acquired classes in the 2023 CAM.

Table 1 – Side by Side Comparison of Distribution Capital Assets Serving the Acquired Utilities

USoA	Column 1: GFA specifically required to serve the Acquired Rate Classes in 2023	Column 2: GFA assigned to Acquired Rate Classes in 2023 CAM
1815	$8,509,102	$3,946,600
1820	$4,773,649	$19,672,736
1830	$82,487,426	$96,867,842
1835	$47,229,330	$49,571,857
1840	$11,573,940	$718,002
1845	$26,430,050	$11,326,570
1850	$55,883,652	$59,207,553
1855	$6,051,720	$13,114,840
1860	$23,449,304	$11,962,173
TOTAL	**$266,388,174**	**$266,388,174**

The GFA assignment on an individual USoA basis is different because Hydro One's direct allocation methodology uses one GFA direct allocation factor for all USoA 1815 to 1860 assets. As discussed in JT-VECC-TCQ-19, Hydro One believes its approach is appropriate given the potential inaccuracies introduced by inconsistent tracking of costs by USoA across LDCs and, as demonstrated in the response to JT-VECC-TCQ-19, the two direct allocation methodologies (using one GFA direct allocation factor for all 1815 to 1860 assets vs. using individual GFA direct allocation factors for each of the 1815 to 1860 accounts) result in no differences in the distribution rates for the vast majority of rate classes and only very minor differences for two rate classes.

UNDERTAKING JT-5.26

Reference:

I-01-A-Staff-21

Undertaking:

To provide the categories of assets included in future use assets; to advise whether these assets are considered used and useful for rate base purposes; to explain why these assets are included in rate base, when the future use of land is not; to provide the amounts of the future use assets in rate base for both transmission and distribution for each year in the test period.

Response:

As outlined in the 2020 Transmission and Distribution Business Financial Statements (Exhibit A-06-02 Attachment 2 and 4) Future Use Assets refer to Property, Plant and Equipment ("PP&E") or Fixed Assets including land, major components and spare parts. Aside from land, major components and spare parts include wires and cables, insulators, circuit breakers, transformers, etc. Major components and spare parts represent fixed assets (both materials and equipment) held in inventory to be installed on the electrical grid. The inclusion of major components and spare parts in rate base is consistent with the treatment of other inventory items which are referred to as materials and supplies inventory. Materials and supplies inventory (items such as hardhats, gloves, safety glasses, cleaning supplies, chainsaw oil, low value tools, etc.) are used for sustainment and execution of the transmission and distribution systems, but are ultimately not installed or attached to the electrical grid, and are therefore reflected in the rate base calculation as part of the working capital allowance (further discussed in Exhibit C-06-01). However, major components and spare parts are available to be installed on the electrical grid and as such are captured as part of PP&E.

Future use assets as outlined in A-OEB Staff-021 reflected in this application include $87M of assets in Transmission and $60M of assets in Distribution.

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UNDERTAKING JT-5.28

Reference:

I-01-E-Staff-275

Undertaking:

To reconcile the two numbers of the OM&A portion of actual versus approved DB pension costs for transmission.

Response:

Please see table below for the reconciliation of the OM&A portion of the actual versus approved DB pension costs for Transmission between the two interrogatories.

Transmission – 2019 DB Pension Actual vs Approved ($M)		Pension Costs Paid Out (E-Staff-275)	Pension Cost Differential Account (E-Staff-301)
Actual	OM&A	10.5	11.6
	Capital	24.3	
	Total actual (A)	34.8	
Approved	OM&A	16.1	16.1
	Capital	29.7	
	Total approved (B)	45.8	
	Difference (A-B)	**-11.0**	**-4.5**

The 2019 approved OM&A figure for Transmission should have stated $46M in E-Staff-275 part b), which results in a difference of $6.5M (a total of -$11.0M as compared to -$4.5M) to be reconciled. Of this difference, $5.4M represents the difference in capitalized pension amounts that are not included in the pension cost differential variance account. The remaining $1.1 million is attributable to slight differences in the percentage used to derive OM&A costs. The actual 2019 OM&A amount used for the pension cost differential account ($11.6M) relied on the approved percentage from the EB-2016-0160 proceeding applied on actual pension payments, as the 2019 Transmission rate application (EB-2018-0130) was an inflationary application. For the purpose of determining actual pension payments ($10.5 million), the actual OM&A amount paid in 2019 had relied on the actual pension allocations effective during the year.

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UNDERTAKING JT-VECC-TCQ-19

Reference:

Exhibit I, Tab 24, Schedule L-VECC 134

Preamble:

The response to VECC 134 a) indicates where/how the GFA, NFA and Depreciation Direct Allocation Factors are incorporated into the 2023 Cost Allocation Model for purposes of allocating costs to the six acquired utility rate classes. A review of the references indicates that for each acquired customer class a single GFA adjustment factor is calculated based on the overall difference between the values of the 1815-1860 assets costs allocated in the 2023 CAM and versus those directly tracked and then allocated based on historic CAM results.

Undertaking:

a) VECC 134 d) asked for the GFA adjustment factor for each USOA and the results vary widely. Would the 2023 CAM results be different if the specific GFA adjustment factors had been used for each USOA account?

   i. If yes, please provide a Cost Allocation scenario that demonstrates how material the difference is.
   ii. If not, why not and please provide a Cost Allocation scenario that demonstrates this would be the case.

Response:

A specific response to this undertaking is provided further below. However, Hydro One would first like to note a correction to its evidence related to the GFA direct allocation factors.

In preparing the response for this undertaking, Hydro One noticed that the costs associated with USoA 1815 for the acquired utilities were inadvertently omitted from the direct allocation factors calculation file (Exhibit L-1-3, Attachment 3, sheet "5. Determine Alloc for Acq."). In addition, as discussed in Hydro One's response to OEB staff IR 327 part c, asset retirements were not accounted for in the original proposed direct allocation factor methodology associated with the acquired utilities (Exhibit L-1-3, Attachment 3, sheet "1. Forecast Acq GBV").

Hydro One has prepared an updated 2023 CAM that addresses both issues: i) including 1815 assets costs for the acquired utilities; and ii) including asset retirements in the direct allocation factor calculations. The updated 2023 CAM and the associated Direct Allocation Factor Calculation file as well as the 2023 rate design model have been included as Attachments 1, 2 and 3, respectively.

As indicated in Table 1 below, this update has had only a very small impact on the direct allocation factors for the Acquired rate classes.

Table 1 - Direct Allocation Factors for the Acquired Rate Classes

	AUR	AUGe	AUGd	AR	AGSe	AGSd	Total
As Filed	36.2%	32.8%	17.4%	54.4%	43.0%	29.5%	41.5%
Updated	36.0%	32.1%	17.2%	53.2%	42.4%	30.2%	41.0%

As shown in Table 2 below, this update has had a very small impact on the R/C ratios and allocated costs by class in the 2023 CAM. For the classes that are already within the OEB R/C ranges (i.e. 85% to 115% for residential classes and 80% to 120% for non-residential classes), there will be no change to the resulting rates. For the three classes that are outside the OEB R/C ranges in CAM (i.e. AUGe, AUGd and AGSd), the differences in allocated costs are small and this update will have an immaterial impact on the resulting rates, as shown in Table 3 below. Details on the R/C adjustments made for these classes can be found in Attachment 3 to this response.

Table 2 – R/C Ratios and Allocated Costs in 2023 CAM

Rate Class	As Filed		Updated	
	R/C Ratio from CAM	Allocated Costs	R/C Ratio from CAM	Allocated Costs
UR	1.04	$105,950,346	1.04	$105,970,159
R1	1.14	$362,426,966	1.14	$362,503,100
R2	0.95	$666,619,688	0.95	$666,772,887
GSe	1.02	$163,915,598	1.02	$163,951,018
GSd	0.93	$148,342,939	0.93	$148,373,858
UGe	0.97	$23,884,503	0.97	$23,889,378
UGd	0.97	$27,668,137	0.97	$27,673,817
St Lgt	0.98	$9,598,292	0.98	$9,600,572
Sen Lgt	1.12	$4,708,791	1.12	$4,709,845
USL	1.19	$2,909,517	1.19	$2,910,175
DGen	0.82	$6,863,407	0.82	$6,864,007
ST	0.86	$71,363,610	0.86	$71,378,291
AUR	0.94	$6,123,789	0.95	$6,102,216
AUGe	0.78	$1,320,407	0.80	$1,298,684
AUGd	0.73	$1,493,401	0.74	$1,482,751
AR	0.85	$20,728,563	0.86	$20,405,817
AGSe	0.93	$4,361,243	0.94	$4,315,152
AGSd	0.74	$4,097,277	0.73	$4,174,748

As shown in Table 3 below, this update has no impact on the majority of the proposed 2023 distribution rates and only a very small impact on the rates for a small number of the rate classes.

Table 3 - Proposed 2023 Distribution Rates

Rate Class*	As Filed			Updated		
	Fixed Charge ($/month)	Volumetric Charge ($/kWh)	Volumetric Charge ($/kW)	Fixed Charge ($/month)	Volumetric Charge ($/kWh)	Volumetric Charge ($/kW)
UR	$35.88	$0.0000		$35.88	$0.0000	
R1	$57.22	$0.0052		$57.22	$0.0052	
R2	$116.58	$0.0081		$116.58	$0.0081	
GSe	$30.95	$0.0647		$30.95	$0.0647	
GSd	$99.80		$18.2761	$99.80		$18.2761
UGe	$24.10	$0.0311		$24.10	$0.0311	
UGd	$91.19		$10.5427	$91.19		$10.5427
St Lgt	$2.97	$0.1064		$2.97	$0.1064	
Sen Lgt	$2.83	$0.1545		$2.80	$0.1533	
USL	$34.68	$0.0216		$34.55	$0.0216	
DGen	$192.51		$9.9393	$192.51		$9.9393
AUR	$29.59	$0.0000		$29.59	$0.0000	
AUGe	$25.36	$0.0147		$24.83	$0.0144	
AUGd	$150.84		$2.3247	$149.74		$2.3077
AR	$35.94	$0.0000		$35.94	$0.0000	
AGSe	$37.65	$0.0171		$37.65	$0.0171	
AGSd	$171.20		$3.9595	$174.48		$4.0355

** The update results in immaterial changes to the proposed ST rates, which are listed in Attachment 3.*

As shown in Tables 1, 2 and 3 above, the update to the Direct Allocation Factors and 2023 CAM results in immaterial impacts on the proposed 2023 distribution rates for all rates classes. While the addition of USoA 1815 assets for the acquired rate classes increases the costs allocated to these classes, this impact was largely offset by including retirements in the direct allocation factor calculations.

a) With respect to the specific undertaking question, Hydro One has determined that using specific GFA direct allocation factors for each USoA would produce very similar 2023 CAM results and would have only a very small impact on the revenue-to-cost ratio changes required to set the rates for the AUGd and AGSd rate classes.

Hydro One's proposed approach of a single direct allocation factor per acquired rate class for all GFAs in USoA 1815 to 1860 eliminates the potential for inaccuracies that could be introduced by differences in how individual utilities report the amounts by specific USoA account. As such, it is appropriate to use the proposed approach to perform the direct allocation of local assets to the acquired utilities.

In order to demonstrate the differences between using a single GFA direct allocation factor for 1815 to 1860 assets costs and using specific GFA direct allocation factors for each of the 1815 to 1860 accounts, Hydro One has prepared a CAM scenario that utilizes specific GFA direct allocation factors for each of the 1815 to 1860 accounts.

Table 4 below shows what the GFA direct allocation factors by rate class for each USoA would be, if the values are calculated separately for each USoA.

Table 4 – Specific GFA Direct Allocation Factors for each of the 1815 to 1860 Accounts

USofA	AUR	AUGe	AUGd	AR	AGSe	AGSd	total
1815	2.1%	2.8%	2.1%	103.1%	131.1%	159.2%	87.5%
1820	5.1%	5.6%	3.1%	11.9%	12.6%	9.3%	9.0%
1830	26.0%	18.4%	15.0%	44.3%	37.3%	36.2%	35.9%
1835	31.2%	16.7%	10.6%	51.2%	45.4%	33.5%	39.5%
1840	1260.6%	597.7%	348.4%	627.5%	608.0%	412.6%	662.6%
1845	148.7%	70.5%	41.1%	105.5%	93.8%	59.9%	95.9%
1850	38.2%	23.3%	13.9%	65.5%	30.6%	16.8%	36.3%
1855	0.0%			23.7%			22.9%
1860	36.5%	224.7%	429.6%	84.9%	91.5%	128.4%	87.9%

Table 5 below compares the results from the two CAM scenarios. The "VECC scenario" columns list the CAM results when using specific GFA direct allocation factors for each of the 1815 to 1860 accounts. The "HONI proposed" columns list the CAM results when using a single GFA direct allocation factor for 1815 to 1860 assets (as in Attachment 1).

For all existing Hydro One classes, the differences between the two approaches are immaterial (less than +/- 0.1% in allocated costs) and therefore the resulting rates would not change at all.

For the six new acquired rate classes, the differences between the two approaches are small. For the classes that are already within the OEB R/C ranges (i.e. 85% to 115% for residential classes and 80% to 120% for non-residential classes), there would be no change to the resulting rates. For the two classes that are outside the OEB R/C ranges in the CAM (i.e. AUGd and AGSd), the differences in allocated costs are small and would have an immaterial impact on the resulting rates.

Table 5 –Comparison of R/C Ratios and Allocated Costs in 2023 CAM

	R/C Ratios			Allocated costs			
	VECC Scenario	HONI proposed	Difference	VECC Scenario	HONI proposed	Difference	
UR	1.04	1.04	0.00	$105,995,426	$105,970,159	$25,268	0.0%
R1	1.14	1.14	0.00	$362,643,378	$362,503,100	$140,278	0.0%
R2	0.95	0.95	0.00	$667,148,858	$666,772,887	$375,971	0.1%
GSe	1.02	1.02	0.00	$164,027,245	$163,951,018	$76,227	0.0%
GSd	0.93	0.93	0.00	$148,478,028	$148,373,858	$104,170	0.1%
UGe	0.97	0.97	0.00	$23,896,771	$23,889,378	$7,392	0.0%
UGd	0.97	0.97	0.00	$27,692,286	$27,673,817	$18,469	0.1%
St Lgt	0.98	0.98	0.00	$9,606,474	$9,600,572	$5,902	0.1%
Sen Lgt	1.12	1.12	0.00	$4,711,353	$4,709,845	$1,508	0.0%
USL	1.19	1.19	0.00	$2,911,126	$2,910,175	$951	0.0%
DGen	0.82	0.82	0.00	$6,860,262	$6,864,007	-$3,745	-0.1%
ST	0.86	0.86	0.00	$71,368,626	$71,378,291	-$9,665	0.0%
AUR	0.98	0.95	0.03	$5,898,404	$6,102,216	-$203,812	-3.5%
AUGe	0.82	0.80	0.03	$1,252,016	$1,298,684	-$46,668	-3.7%
AUGd	0.75	0.74	0.01	$1,452,206	$1,482,751	-$30,545	-2.1%
AR	0.88	0.86	0.02	$19,912,280	$20,405,817	-$493,537	-2.5%
AGSe	0.94	0.94	0.00	$4,308,329	$4,315,152	-$6,823	-0.2%
AGSd	0.72	0.73	-0.01	$4,213,404	$4,174,748	$38,657	0.9%

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CURRICULUM VITAE OF ANDREW SPENCER

EDUCATION:

Queen's University

Kingston, Ontario, (2002)

B.Sc., Applied Science (Electrical Engineering)

INDUSTRY EXPERIENCE:

2002 - Present:	**Hydro One Networks Inc.**
2017-Present	Vice President, Transmission & Stations
2017-2017	Vice President, Engineering
2014-2017	Director, Engineering Services
2011-2014	Sr. Manager, Stations Sustainment Investment Planning
2009-2011	Manager, Investment Integration & Maintenance Planning
2006-2009	Manager, Maintenance Technical Services
2002-2006	Maintenance Engineer/Specialist, Maintenance Technical Services

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082:	Hydro One Networks Inc. 2020-2022 Transmission Rates Revenue Requirement Application
EB-2017-0364:	Hydro One Networks Inc. Lake Superior Link Leave to Construct Application
EB-2014-0140:	Hydro One Networks Inc. 2015&2016 Electricity Transmission Revenue Requirement Application
EB-2012-0031:	Hydro One Networks Inc. 2013&2014 Electricity Transmission Revenue Requirement Application
EB-2010-0002:	Hydro One Networks Inc. 2011&2012 Electricity Transmission Revenue Requirement Application

CURRICULUM VITAE OF ANTHONY NAVA

EDUCATION:

Brock University

St. Catharines, Ontario, (2009)

Honours Bachelor of Business Administration, (Finance)

Chartered Professional Accountant, Certified Management Accountant, (2012)

INDUSTRY EXPERIENCE:

2010 - Present:	**Hydro One Networks Inc.**
2018 - Present	Sr. Manager, Strategic Business Planning
2015 - 2018	Senior Financial Analyst, Business Planning
2014 - 2015	Senior Financial Analyst, Revenue Management
2010 - 2014	Financial Analyst, Revenue Management

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2018-0275:	Niagara Reinforcement Limited Partnership 2020-2024 Settlement Conference
EB-2019-0178:	B2M Limited Partnership's 2020-2024 Settlement Conference

CURRICULUM VITAE OF BIJAN ALAGHEBAND

EDUCATION:

CFA Institute

Charlottesville, Virginia (2001)

Charted Financial Analyst designation

McGill University

Montreal, Quebec (1988)

Ph.D. in Economics, with specialization in Economics, Econometrics, and Economic Development

McGill University

Montreal, Quebec (1981)

Master of Arts in Economics, major field Econometrics, minor field Economic Development

Tehran University

Tehran, Markazi (1975)

Bachelor of Arts in Economics

INDUSTRY EXPERIENCE:

1989 – Present	**Hydro One Networks Inc. (Ontario Hydro Services Company) / Ontario Hydro**
2016-Present	Manager, Economics & Load Forecasting
2015-2016	Acting Manager, Economics & Load Forecasting
2005-2014	Senior Advisor, Load Forecasts
1999-2005	Strategic Planner, Load Forecasts
1996-1999	Advisor, Load Forecasting & Analysis
1989-1996	Energy Economist, Load Forecasting & Analysis

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082:	Hydro One Networks Inc. 2020-2022 Transmission Rates Revenue Requirement Application
EB-2017-0049:	Hydro One Networks Inc. 2018-2022 Electricity Distribution Revenue Requirement & Rate Application
EB-2016-0160:	Hydro One Networks Inc. 2017-2018 Electricity Transmission Revenue Requirement & Charge Determinants Application

CURRICULUM VITAE OF BRUNO JESUS

EDUCATION:

University of Toronto

Toronto, Ontario (1987)

Bachelor of Applied Science, Electrical Engineering

Professional Engineer in the Province of Ontario

INDUSTRY EXPERIENCE:

1987 – Present:	**Hydro One Networks Inc./ Ontario Hydro Networks Company Inc. / Ontario Hydro**
2019-Present	Vice President, Planning
2017-2019	Director, Strategy & Integrated Planning
2014-2016	Manager, Transmission Capital Investment Planning
2012-2014	Project Director, Asset Analytics
2008-2012	Manager, Asset Strategies & Standards
1999-2008	Senior Advisor, Network Strategies
1997-1999	Senior Advisor, OPEX 2000
1987-1997	Section Head - East, System Development

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082:	Hydro One Networks Inc. 2020-2022 Transmission Rates Revenue Requirement Application
EB-2017-0049:	Hydro One Networks Inc. 2018-2022 Distribution Rate Application – Technical Conference

CURRICULUM VITAE OF CHONG KIAT NG

EDUCATION:

University of Manitoba

Winnipeg, Manitoba,

2000, M.Sc. (Electrical Engineering)

1998, B.Sc. (Electrical Engineering)

INDUSTRY EXPERIENCE:

2010 - Present:	**Hydro One Networks Inc.**
2020-Present	Vice President, Distribution
2018-2020	Director, Station Services
2015-2018	Director, Transmission Asset Management
2014-2015	Director, Project Deliver
2013-2014	Sr. Manager, Lines Technical Services
2012-2013	Sr. Manager, Transmission Engineering
2010-2012	Sr. Manager, Lines Engineering
2000 - 2010:	**Manitoba Hydro**
2008-2010	Section Head, Transmission Line Design
2000-2008	Design engineer, various areas

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2016-0160:	Hydro One Networks Inc. 2017-2018 Transmission Cost-of-Service Application

CURRICULUM VITAE OF CLEMENT LI

EDUCATION:

Technical University of Nova Scotia

Halifax, Nova Scotia (1991)

Master of Applied Science (Mechanical Engineering)

Technical University of Nova Scotia

Halifax, Nova Scotia (1988)

Bachelor of Applied Science (Mechanical Engineering)

INDUSTRY EXPERIENCE:

1992 – Present:	**Hydro One Networks Inc. / Ontario Hydro Services Company / Ontario Hydro**
2016-present	Manager, Transmission & Distribution Pricing
2015-2016	Manager, Business Development & Support
2010-2015	Senior Regulatory Advisor
2008-2010	Manager, Business & Regulatory Support
2006-2008	Senior Advisor, Billing & Settlement
1999-2006	Senior Advisor, Load Forecast & Management
1992 – 1999	Analyst/Senior Analyst/Advisor, Load Forecast, Load Analysis, Conservation & Demand Management – Ontario Hydro

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082:	Hydro One Networks Inc. 2020-2022 Transmission Revenue Requirement Application
EB-2017-0049:	Hydro One Networks Inc. 2018-2022 Distribution Rate Application

CURRICULUM VITAE OF DAVE PAISH

EDUCATION:

Colgate University	**Honeywell Institute for Continuing Studies**
Hamilton, NY (1980)	Toronto, ON (1986)
B.A., Geology	Computer Science Certificate

INDUSTRY EXPERIENCE:

2016 - Present:	**Hydro One Networks Inc.**
2020-Present	Director, AMI Operations
2017-2020	Sr. Manager, AMI Network & Data
2016-2017	AMI Team Lead
2006-2016	**Capgemini Canada Inc.**
20014-2016	Sr. Manager, Project Delivery Group
2006-2014	Head End Systems Workstream Lead, Hydro One Smart Meter Project
1996-2006	**Siemens Canada Inc.**
2003-2006	Solutions Architect, Senior Systems Consultant
1996-2003	SAP Basis Consultant, Systems Consultant

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

N/A

CURRICULUM VITAE OF DONNA K.S. JABLONSKY P.ENG

EDUCATION:

Ryerson Polytechnic University

Toronto, Ontario (1993)

Bachelor of Electrical Engineering

Major: Power Systems

INDUSTRY EXPERIENCE:

1999 - Present:	**Hydro One Networks Inc. / Ontario Hydro**
2018 - Present	Director, Transmission Asset Management
2015 - 2018	Senior Manager, Transmission Stations Engineering
2012 - 2014	Senior Manager, Power Equipment and Stations Engineering
2007 - 2012	Senior Manager of Conceptual & Equipment Engineering
1999 – 2007	Equipment Engineer Specialist

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082: Hydro One Networks Inc. 2020-2022 Transmission Rates Revenue Requirement Application

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082: Hydro One Networks Inc. 2020-2022 Transmission Rates Revenue Requirement Application

CURRICULUM VITAE OF GODFREY HOLDER

EDUCATION:

University of Guyana

1996, B.Sc. Economics

INDUSTRY EXPERIENCE:

2010 - Present:	**Hydro One Networks Inc.**
2018-Present	Director, System Operations Support
2016 -2017	Sr. Manager, Business Strategy, and Investment Planning
2013-2017	Grid Operations Manager Business Strategy and Investment Planning
2010-2013	Grid Operations Manager, Distribution System Control
2006 – 2010	**Rowan Williams Davies & Irwin Inc.**
2008 -2010	Project Manager, Microclimate Studies
2006 – 2007	Project Coordinator, Microclimate Studies
1987 - 2004:	**Guyana Power & Light Inc.**
2003-2004	Regional Manager, Berbice
1995 -2002	Sr. Manager, System Control
1993 – 1995	Manager, System Operations and Planning
1989 – 1993	Shift Manager, System Control

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082:	Hydro One Networks Inc. 2020-2022 Transmission Rates Revenue Requirement Application

Greg Lyle
President
Innovative Research Group Inc.

Greg Lyle is the founder of Innovative Research Group Inc. (INNOVATIVE), a national public opinion research and consultation firm with offices in Toronto and Vancouver.

As a former Principal Secretary, Greg has built a career at the intersection of public policy, communications and public opinion. With over 30 years of communications and opinion research experience, Greg uses a full range of research tools for a variety of government and corporate clients across industries such as financial services, healthcare and the energy and infrastructure sector.

Greg's research has been highlighted in media across the country. He has been featured in many media outlets including Global TV, the Globe and Mail, the Hill Times, the National Post and various other PostMedia Newspapers.

Work Experience

1998 - Present

Innovative Research Group Inc. – Vancouver, BC and Toronto, ON
President

- In 1998, Mr. Lyle incorporated his strategic counsel and research practice. Initially incorporated as Lyle Public Affairs Corporation, Innovative was re-branded in the summer of 2004 to better reflect the collegial nature of the firm and the goal of being at the cutting edge of research development.
- Through Innovative, Mr. Lyle has expanded the research and strategic counsel practice he established in B.C. in 1994. While remaining active in the BC market place, Mr. Lyle has expanded to a national focus with a second office launched in Toronto in 2004.
- While managing a team of full-time and associated consultants, Mr. Lyle remains active in client services. Since rebranding as Innovative, Mr. Lyle has been involved in a wide array of projects over the past 14 years utilizing the full range of his consulting tools in projects ranging from a handful of omnibus questions to designing and tracking multi-media communications campaigns.

2000 - 2004

Navigator Ltd. – Toronto, ON
President

- In the winter of 2000, Lyle Public Affairs Corporation formed a joint venture with two other consultants to form Navigator Ltd, a strategic communications practice based in Toronto.
- Mr. Lyle was the founding President of Navigator and focused on an issue management practice working with the federal and provincial governments, industry associations and major corporations.
- Most of the Navigator campaigns run by Mr. Lyle either involved working with government to manage issues including strikes, environmental controversies and funding disputes or with industry groups seeking to build public support for policy change.
- Navigator grew from the initial group of three principals to a team of more than a dozen senior consultants during the four years Mr. Lyle served as President.

1994 - 1998

Agincourt Research and Communications/Lyle Risk Management Strategies *– Roberts Creek, BC*
Sole Proprietor

- In January 2004, Mr. Lyle left Decima and Hill Knowlton to start his own strategic counsel practice. For the first year and a half, Mr. Lyle worked in partnership with ***Angus Reid Group*** and then proceeded to operate on his own
- During this period Mr. Lyle was involved in advising several public and private sector campaigns while maintaining an active research practice. Mr. Lyle also established a land claims consultation practice and represented forest licensees in the Sechelt and Nisga'a treaty negotiations.

1991 – 1993	***Hill and Knowlton and Decima Research*** *– Vancouver, BC* **Concurrent Vice Presidencies** ▪ Mr. Lyle was the first Decima employee in Western Canada, and was responsible for establishing a new business unit. During this period, Mr. Lyle began conducting his own focus groups and public opinion surveys over a wide range of topics in both marketing and public affairs. Mr. Lyle also provided strategic communications counsel as part of the Hill and Knowlton team.
1988 – 1991	***Office of the Premier*** *– Winnipeg, Manitoba* **Principal Secretary** ▪ At 25 years old, Mr. Lyle was the youngest Principal Secretary in Canada. Despite his youth, Mr. Lyle was a key architect of the government's strategy in a minority government which led to its election to a majority in 1990. Mr. Lyle managed the Premier's Office, participated at a senior level in the Meech Lake round of constitutional negotiations, served as a Cabinet Officer acting as Cabinet Secretary in the absence of the Clerk of Executive Council and as lead drafter of the government's Throne Speeches
1987 - 1988	***Leader of the Opposition*** *– Winnipeg, Manitoba* **Special Assistant** ▪ Sole Political staffer to the Leader of the Opposition, handled a variety of tasks including question period preparations, policy development, leader's representative on party executive and campaign committee, and leader's tour.

Education

June 2008	**York University** (Institute for Social Research) – Toronto, ON ▪ Summer Program in Data Analysis: Structural Equation Modeling and Mixed Models Hierarchical and Longitudinal Data.
April 2002	**Harvard University** (Executive Education Program) ▪ Leading a Professional Service Firm
August 2001	**Essex University (**Summer School in Social Science Data Analysis and Collection**)** – Essex, UK ▪ Sorting, Q Methodology and Multidimensional Scaling
July 1997	**Essex University** (School In Social Science Data Analysis and Collection) – Essex, UK ▪ Time Series Analysis
1997 - 1998	**University of British Columbia** (Graduate Course Work) – Vancouver, BC
1989	**University of British Columbia –** Vancouver, BC Bachelor of Arts, Political Science

Awards

June 2016	**Public Affairs Association of Canada Award of Distinction**

BIOGRAPHY
IAIN MORRIS

- **ABOUT**
  - Iain is a Senior Consultant and business leader in Mercer's Career Business in Toronto. He advises large and complex organizations on the development and implementation of total rewards and EVP strategies and programs
- **EXPERIENCE/CLIENTS**
  - Iain's primary areas of expertise include incentive plan design, global job levelling and EVP consulting. He also has substantial experience in rewards compliance and complex cost analyses and benchmarking to support business decision making
  - Iain has worked with organizations across most industry sectors including: energy, development, financial services, high tech manufacturing, and professional services
  - Iain has more than 35 years of rewards consulting experience with global consulting firms
- **EDUCATION**
  - Iain is a graduate of Queen's University. He is frequently quoted in industry and business publications on total rewards and other human resource issues

CURRICULUM VITAE OF JOEL JODOIN

EDUCATION:

Chartered Professional Accountant

Toronto, ON (2012)

CPA, CMA

Brock University

St. Catharines, ON (2008)

Bachelor of Business Administration, concentration in Finance

INDUSTRY EXPERIENCE:

2010 - Present:	**Hydro One Networks Inc.**
2018 - Present	Director, Strategic Finance
2016 - 2018	Senior Financial Advisor, Business Planning
2014 - 2016	Senior Financial Analyst, Business Planning
2013 - 2014	Senior Financial Advisor, Decision Support
2009 - 2013	Accounting & Financial Analyst, Business Planning

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082	Hydro One Networks Inc. 2020-2022 Transmission Rate Application: Technical Conference & Oral Hearings
EB-2017-0049	Hydro One Networks Inc. 2018-2022 Distribution Rate Application: Technical Conference & Oral Hearings
EB-2016-0160	Hydro One Networks Inc. 2017-2018 Transmission Rate Application: Technical Conference & Oral Hearings

CURRICULUM VITAE OF KEVIN MARCOTTE

EDUCATION:

Queen's University

Kingston, Ontario, (2008)

B.Sc. Eng, Applied Science (Engineering Chemistry)

INDUSTRY EXPERIENCE:

2018 - Present:	**Hydro One Networks Inc.**
2020-Present	Director, Portfolio Management, Information Solutions Division
2018-2020	Sr. Manager, AMI Center of Excellence, AMI Operations
2014 - 2018:	**PricewaterhouseCoopers LLP.**
2017-2018	Director, Consulting: Operations - Power & Utilities
2014-2017	Manager, Consulting: Operations - Power & Utilities
2008 – 2014:	**Capgemini Canada Inc.**
2013-2014	Manager, Project Delivery
2010-2012	Senior Consultant, Project Delivery
2008-2010	Consultant, Project Delivery

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

N/A

CURRICULUM VITAE OF NANCY TRAN

EDUCATION:

CPA Association

Toronto, ON (1994)

Chartered Professional Accountant, Chartered Accountant, CPA, CA

Completed CICA Part I to III In-depth Tax Course (2001) and Corporate Reorganization Course (2003)

University of Waterloo

Waterloo, ON (1993)

Master of Accounting

University of Waterloo

Waterloo, ON (1992)

Honours Bachelor of Arts in Accounting

INDUSTRY EXPERIENCE:

2017 – Present:	**Hydro One Networks Inc.**
	Vice President, Corporate Tax
2004 – 2017:	**Norbord Inc.**
	Director – Head of Tax
1997 – 2004:	**KPMG LLP (Toronto)**
	Senior Manager Tax
1995 – 1997:	**KPMG LLP (London, UK)**
	Seconded as Audit Manager
1993 – 1995:	**KPMG LLP (Toronto)**
	Audit Manager /Audit Senior

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082 Hydro One Networks Inc. 2020-2020 Electricity Transmission Revenue Requirement Application

CURRICULUM VITAE OF PETER FALTAOUS

EDUCATION:

University of Waterloo

Waterloo, Ontario, (2011)

Masters of Electrical Power Engineering

University of Toronto

Toronto, Ontario, (2005)

Bachelor of Applied Science (Engineering Science – Electrical Engineering Option)

INDUSTRY EXPERIENCE:

2005 - Present: Hydro One Networks Inc.

2018-Present	Director, Distribution Asset Management
2014-2018	Senior Manager, Distribution Investment Planning
2011-2014	Sustainment Manager, Transmission Lines Sustainment Planning
2009-2011	Network Management Planner, Stations Sustainment Investment Planning
2007-2009	Assist. Network Management Officer, Stations Sustainment Investment Planning
2005-2007	New Graduate Trainee, Stations Sustainment Investment Planning

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2018-0242:	Application for approval to amalgamate Peterborough Distribution Inc. and Peterborough Utilities Services Inc. and to transfer the electricity distribution system to Hydro One Networks Inc.
EB-2018-0270:	Application for approval to purchase all issued and outstanding shares of Orillia Power Distribution Corporation

CURRICULUM VITAE OF ROB BERARDI

EDUCATION:

CPA Association

Toronto, ON (2004)

Chartered Professional Accountant, Certified Management Accountant, CPA, CMA

York University

Toronto, ON (1989)

Bachelor of Arts in Political Science

INDUSTRY EXPERIENCE:

1989 - Present:	**Hydro One Networks Inc. / Ontario Hydro**
2017-Present	Vice President, Shared Services
2014 – 2017	Director, Supply Chain
2009 - 2013	Director, Management Accounting & Reporting
2008 - 2009	Finance Lead for Enterprise ERP Project/Sr. Manager, Cost Accounting
2005 - 2007	Manager/Financial Advisor
2002 - 2005	Senior Controllership Advisor
2000 - 2002	Senior Accounting & Financial Analyst
1989 - 2000	Analyst & Clerical

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082	Hydro One Networks Inc. 2020-2020 Electricity Transmission Rates Revenue Requirement Application
EB-2017-0049	Hydro One Networks Inc. 2018-2022 Distribution Rate Application
EB-2013-0416	Hydro One Networks Inc. 2015-2019 Distribution Rate Application

CURRICULUM VITAE OF ROBERT REINMULLER

EDUCATION

Polytechnic University of Timisoara Romania, 1991

Degree in Power Systems - Accreditation completed by University of Toronto to a recognized degree between Masters and Bachelor from University of Toronto.

PROFESSIONAL REGISTRATION

Senior Member of IEEE since 2002

Professional Engineers Ontario Member since 2003

NPCC Taskforce for Coordination of Operations Member since 2014

NERC Planning Committee and Reliability and Security Technical Committee Member since 2017

NATF Resiliency Transmission Advisory Group Member since 2017

CEA Transmission Council Member since 2018

IESO Technical Panel Member since 2019

INDUSTRY EXPERIENCE

2007 – Present: Hydro One Networks Inc.

2017 - Present	Director, Transmission System Planning
2013 - 2017	Senior Manager, Grid Operations
2009 - 2013	Grid Operations Manager Control Room
2007 - 2009	Grid Operations Outage Planning Engineer, NMO
1999 - 2007	K-Line, Toronto - Project Development Engineer / Project Manager
1997 - 1999	Celestica Inc., Toronto - Failure Analysis Team Leader
1996 - 1997	Ultinet Computers, Toronto – Computer Technician
1984 - 1996	Works and Utilities, Romania
1991 - 1996	Electrical Utility Manager
1984 - 1991	Automation Electrician

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2017-0364:	Hydro One Networks Inc. Lake Superior Link Leave to Construct Application
EB-2018-0117:	Hydro One Networks Inc. Application for leave to upgrade existing transmission line facilities in the Barrie-Innisfil area

CURRICULUM VITAE OF SABRIN LILA

EDUCATION:

University of Toronto

Toronto, ON (2011)

Masters in Industrial Relations and Human Resources

Wilfird Laurier University

Toronto, ON (2006)

Honours Bachelor of Arts in Political Science

INDUSTRY EXPERIENCE:

2009 – Present:	**Hydro One Networks Inc.**
2017 - Present	Director, Compensation & HR Analytics
2016 - 2017	Manager, Compensation & HR Systems
2014 - 2016	Manager, Talent Management
2009 - 2014	Human Resources Business Partner
2008 – 2009:	**VHA Home Healthcare**
2008 - 2009	Human Resources Analyst
2006 – 2008:	**Family Service Toronto**
2006 - 2008	Human Resources Administrator

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082	Hydro One Networks Inc. 2020-2022 Transmission Rates Revenue Requirement Application

CURRICULUM VITAE OF SAMIR CHHELAVDA

EDUCATION:

McGill University

Montreal, QC (1997)

Graduate Diploma in Public Accountancy

McGill University

Montreal, QC (1995)

Bachelor of Commerce – Accounting

PROFESSIONAL QUALIFICATION(S):

Institute of Internal Auditors (2011)

Certification in Risk Management Assurance

Institute of Internal Auditors (2006)

Certified Internal Auditor Certification

Canadian Institute of Chartered Professional Accountants (2000)

Chartered Professional Accountant

INDUSTRY EXPERIENCE:

2014 – Present:	**Hydro One Networks Inc.**
2019 – Present	Vice President, Corporate Controller
2014 – 2019	Director, Corporate Accounting and Reporting
2005 - 2014:	**Enbridge Gas Distribution Inc.**
2012 - 2014	Assistant Controller
2011 - 2012	Senior Manager, Strategy Execution and Performance Management
2010 - 2011	Chief Auditor
2005 - 2010	Manager, Audit Services

2003 - 2005:	**Duffy, Allain & Rutten, LLP**
	Senior Audit Manager
2002 - 2003:	**AXA Canada Inc.**
	Senior Financial Analyst
1999 - 2002:	**Ernst & Young LLP**
2001 - 2002	Audit Manager
1999 - 2001	Senior Staff Accountant
1997 - 1999:	**Schwartz, Levitsky, Feldman LLP**
	Staff Accountant

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2021- 0110	Hydro One Networks Inc. 2023-2027 Joint Distribution and Transmission Rate Application – Technical Conference
EB-2019-0082	Hydro One Networks Inc. 2020-2020 Electricity Transmission Revenue Requirement Application
EB-2017-0049	Hydro One Networks Inc. 2018-2022 Distribution Rate Application
EB-2016-0160	Hydro One Networks Inc. 2017-2018 Transmission Rate Application – Oral Hearings
EB- 2015-0040	Consultation on the Regulatory Treatment of Pension and Other Post-Employment Benefit Costs
EB- 2014-0140	Hydro One Networks Inc. 2015-2017 Distribution Rate Application – Oral Hearings
EB- 2012-0459	Enbridge Gas Distribution Inc. 2014-2018 Rate Application

CURRICULUM VITAE OF SPENCER GILL

EDUCATION:

University of Ontario Institute of Technology

Oshawa, ON (2008)

Bachelor of Engineering - Nuclear

Durham College

Oshawa, ON (1999)

Diploma - Electro-mechanical Technology

INDUSTRY EXPERIENCE:

2009 – Present:	**Hydro One Networks Inc.**
2020 – Present	Vice President of Customer Service
2019 - 2020	Strategic Advisor to President & CEO
2016 - 2019	Director - Customer Solutions & Key Account Management
2013 - 2016	Director - External Relations
2011 - 2013	Manager - External Relations
2009 - 2010	Senior Advisor - External Relations
Fall 2008:	**Ministry of Energy and Infrastructure**
Sept 2008 -Dec 2008	Senior Policy Advisor, Minister's Office

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082	Hydro One Networks Inc. 2020-2020 Electricity Transmission Revenue Requirement Application

CURRICULUM VITAE OF STEPHEN VETSIS

EDUCATION:

McMaster University

Hamilton, ON (2009)

Master of Applied Science

McMaster University

Hamilton, ON (2006)

Bachelor of Electrical Engineering and Management

INDUSTRY EXPERIENCE:

2017 – Present:	**Hydro One Networks Inc.**
2021 – Present	Director, Pricing and Regulatory Policy, Regulatory Affairs
2021	Manager of Regulatory Strategy, Regulatory Affairs
2019 - 2021	Sr. Regulatory Advisor, Pricing and Load Forecasting, Regulatory Affairs
2017 - 2019	Sr. Regulatory Advisor, Major Applications, Regulatory Affairs
2010 – 2016:	**Ontario Energy Board**
2014 - 2016	Advisor, Electricity Rates and Prices, Applications
2011 - 2014	Analyst, Electricity Rates and Prices, Applications
2010 - 2011	Analyst, Regulatory Policy

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

EB-2019-0082	Hydro One Networks Inc. 2020-2020 Electricity Transmission Revenue Requirement Application
EB-2018-0218:	Hydro One Sault Ste. Marie LP - 2019 Electricity Transmission Revenue Requirement Application

STEVEN A. FENRICK, Principal

SUMMARY OF EXPERIENCE AND EXPERTISE

- I have directed project teams and engaged in research in the fields of performance based regulation, performance benchmarking, DSM, load research and forecasting, and survey design and implementation
- I have been a expert witness in a number of cases involving performance-based ratemaking and incentive regulation, load forecasting, and peak time rebates.

PROFESSIONAL EXPERIENCE

Clearspring Energy Advisors, LLC (2019 to Present)
Principal Consultant

Responsible for providing consulting services and expert witness testimony to utilities and regulators in the areas of reliability and cost benchmarking, productivity studies and other empirical aspects of performance-based ratemaking and incentive regulation. Direct activities in the areas of demand-side management programs, peak time rebate programs, load forecasting, and market research.

Power System Engineering, Inc.– Madison, WI (2009 to 2018)
Director of Economics

Responsible for providing consulting services to utilities and regulators in the areas of reliability and cost benchmarking, incentive regulation, value-based reliability planning, demand-side management including demand response and energy efficiency, ran peak time rebate programs, load research, load forecasting, end-use surveys, and market research.

Pacific Economics Group – Madison, WI (2001 - 2009)
Senior Economist

Co-authored research reports submitted as testimony in numerous proceedings in several states and in international jurisdictions. Research topics included statistical benchmarking, alternative regulation, and revenue decoupling. Managed and supervised PEG support staff in research and marketing efforts.

EDUCATION

University of Wisconsin - Madison, WI
Bachelor of Science, Economics (Mathematical Emphasis)

University of Wisconsin - Madison, WI
Master of Science, Agriculture and Applied Economics

Publications & Papers

- "Peak-Time Rebate Programs: A Success Story", *TechSurveillance,* July 2014 (with David Williams and Chris Ivanov).

- "Demand Impact of a Critical Peak Pricing Program: Opt-In and Opt-Out Options, Green Attitudes and other Customer Characteristics:, *The Energy Journal*, January 2014. (With Lullit Getachew, Chris Ivanov, and Jeff Smith).
- "Evaluating the Cost of Reliability Improvement Programs", *The Electricity Journal*, November 2013. (With Lullit Getachew)
- "Expected Useful Life of Energy Efficiency Improvements", Cooperative Research Network, 2013 (with David Williams).
- "Cost and Reliability Comparisons of Underground and Overhead Power Lines", *Utilities Policy*, March 2012. (With Lullit Getachew).
- "Formulating Appropriate Electric Reliability Targets and Performance Evaluations, *Electricity Journal*, March 2012. (With Lullit Getachew)
- "Enabling Technologies and Energy Savings: The Case of EnergyWise Smart Meter Pilot of Connexus Energy", Utilities Policy, November 2012. (With Chris Ivanov, Lullit Getachew, and Bethany Vittetoe)
- "The Value of Improving Load Factors through Demand-Side Management Programs", Cooperative Research Network, 2012 (with David Williams and Chris Ivanov).
- "Estimation of the Effects of Price and Billing Frequency on Household Water Demand Using a Panel of Wisconsin Municipalities", *Applied Economics Letters*, 2012, 19:14, 1373-1380.
- "Altreg Rate Designs Address Declining Average Gas Use", *Natural Gas & Electricity*. April 2008. (With Mark Lowry, Lullit Getachew, and David Hovde).
- "Regulation of Gas Distributors with Declining Use per Customer", *Dialogue*. August 2006. (With Mark Lowry and Lullit Getachew).
- "Balancing Reliability with Investment Costs: Assessing the Costs and Benefits of Reliability-Driven Power Transmission Projects." April 2011. *RE Magazine*.
- "Ex-Post Cost, Productivity, and Reliability Performance Assessment Techniques for Power Distribution Utilities". Master's Thesis.
- "Demand Response: How Much Value is Really There?" *PSE whitepaper*.
- "How is My Utility Performing" *PSE whitepaper*.
- "Improving the Performance of Power Distributors by Statistical Performance Benchmarking" *PSE whitepaper*.
- "Peak Time Rebate Programs: Reducing Costs While Engaging Customers" *PSE whitepaper*.
- "Performance Based Regulation for Electric and Gas Distributors" *PSE whitepaper*.
- "Revenue Decoupling: Designing a Fair Revenue Adjustment Mechanism" *PSE whitepaper*.

Expert Witness Experience

- Case No. 2020-00299, Big Rivers Electric Corporation, Integrated Resource Plan. Econometric load forecasting research.
- Docket EB-2019-0261, Hydro Ottawa, Custom Incentive Regulation Application. Econometric Benchmarking research.
- Docket EB-2019-0082, Hydro One Networks Transmission, TFP and Econometric Benchmarking research.
- Docket EB-2018-0165, Toronto Hydro Electric System Limited, Econometric Benchmarking research.
- Docket EB-2018-0218, Hydro One Transmission Sault St. Marie, TFP and Econometric Benchmarking research.
- Docket EB-2017-0049, Hydro One Distribution, Custom Incentive Regulation Application. TFP and Benchmarking research.
- Docket EB-2015-0004, Hydro Ottawa, Custom Incentive Regulation Application. Econometric benchmarking research.
- Docket 15-SPEE-357-TAR, Application for Southern Pioneer Electric Cooperative, Inc., Demand Response Peak Time Rebate Pilot Program.
- Docket EB-2014-0116, Toronto Hydro, Custom Incentive Regulation Application. Econometric benchmarking research.
- Docket EB-2010-0379, The Coalition of Large Distributors in Ontario regarding "Defining & Measuring Performance". 4th Generation Incentive Regulation proceeding.
- Docket No. 6690-CE-198, Wisconsin Public Service Corporation, "Application for Certificate of Authority for System Modernization and Reliability Project".
- Expert Witness presentation to Connecticut Governors "Two Storm Panel", 2012.
- Docket No. EB-2012-0064, Toronto Hydro's Incremental Capital Module (ICM) request for added capital funding.
- Docket No. 09-0306, Central Illinois Light rate case filing.
- Docket No. 09-0307, Central Illinois Public Service Company rate case filing.
- Docket No. 09-0308, Illinois Power rate case filing.

Recent Conference Presentations

- Institute of Public Utilities Advanced Rate Conference at Michigan State University, "Performance Benchmarking". October 2019.
- Institute of Public Utilities Advanced Rate Conference at Michigan State University, "Performance Benchmarking". October 2018.
- Panel Moderator at WPUI conference on cost allocation and innovative rate designs at Madison WI. June 2018.
- Institute of Public Utilities Advanced Rate Conference at Michigan State University, "Performance Benchmarking". October 2017.
- Wisconsin Manager's Meeting, "Reliability Target Setting Using Econometric Benchmarking". November 2016.
- Institute of Public Utilities Advanced Rate Conference at Michigan State University, "Performance Benchmarking". October 2016.

- Wisconsin Electric Cooperative Association (WECA) Conference, "An Introduction to Peak Time Rebates". September 2016.
- Institute of Public Utilities Advanced Rate Conference at Michigan State University, "Performance Benchmarking". October 2015.
- EUCI conference chair, 2015. "Evaluating the Performance of Gas and Electric Distribution Utilities."
- Institute of Public Utilities Advanced Rate Conference at Michigan State University, "Performance Benchmarking". October 2014.
- Cooperative Exchange Conference, Williamsburg VA. "Smart Thermostat versus AC Direct Load Control Impacts". August 2014.
- EUCI conference chair in Chicago. "The Economics of Demand Response". February 2014.
- Institute of Public Utilities Advanced Rate Conference at Michigan State University, "Performance Benchmarking". October 2013.
- EUCI conference chair in Chicago. "Evaluating the Performance of Gas and Electric Distribution Utilities." August 2013.
- Presentation to the Ontario Energy Board, "Research and Recommendations on 4th Generation Incentive Regulation".
- Presentation to the Canadian Electricity Association's best practice working group. 2013
- Conference chair for EUCI conference in March 2013 titled, "Performance Benchmarking for Electric and Gas Distribution Utilities."
- Presentation to the board of directors of Great Lakes Energy on benchmarking results, December 2012.
- Presentation on making optimal infrastructure investments and the impact on rates, Electricity Distribution Association, Toronto, Ontario. November 2012.
- Conference chair for EUCI conference in August 2012 titled, "Performance Benchmarking for Electric and Gas Distribution Utilities."
- 2012 presentation in Springfield, IL to the Midwest Energy Association titled, "Reliability Target Setting and Performance Evaluation".
- 2012 presentation in Springfield, IL to the Midwest Energy Association titled, "Making the Business Case for Reliability-Driven Investments".
- Conference chair for EUCI conference in 2012 titled, "Balancing, Measuring, and Improving the Cost and Reliability Performance of Electric Distribution Utilities". St. Louis.
- Conference chair for EUCI conference in 2012 titled, "Demand Response: The Economic and Technology Considerations from Pilot to Deployment". St. Louis.
- 2012 Presentation in the Missouri PSC Smart Grid conference entitled, "Maximizing the Value of DSM Deployments". Jefferson City.
- 2011 conference chair on a nationwide benchmarking conference for rural electrical cooperatives. Madison.
- 2011 presentation on optimizing demand response program at the CRN Summit. Cleveland.
- Conference chair for EUCI conference in 2011 titled, "Balancing, Measuring, and Improving the Cost and Reliability Performance of Electric Distribution Utilities". Denver.
- 2010 presentation on cost benchmarking techniques for REMC. Wisconsin Dells.

CURRICULUM VITAE OF TERI FRENCH

EDUCATION:

Simon Fraser University

Vancouver, BC

1995, B. Arts (Psychology)

2003, Certified Professional Accountant (CPA)

2021, Fellow of Certified Professional Accounts (FCPA)

INDUSTRY EXPERIENCE:

2020 - Present:	**Hydro One Networks Inc.**
2021-Present	Vice President, Forestry Services and LDC Integration
2012 - 2020	**Enercare Home Services**
2018-2020	Vice President, Procurement and Franchise Operations
2016-2018	Vice President, Supply Chain, and Support Operations
2012-2016	Sr. Director, Customer Billing and Call Centre
2004 - 2012:	**Direct Energy**
2008-2012	Sr. Director of Operations and Projects, various areas
2004-2008	Director of US North Operations
1999-2004:	**ATCO ITEK**
1999-2004	Director of Billing and Customer Care

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

N/A

CURRICULUM VITAE OF URI AKSELRUD

EDUCATION:

DeGroote School of Business, McMaster University

Hamilton, Ontario, (2011)

Master of Business Administration, Management Accounting

York University

Toronto, Ontario, (2006)

Bachelor of Arts, Specialized Honours Economics

INDUSTRY EXPERIENCE:

2011 - Present:	**Hydro One Networks Inc.**
2019-Present	Sr Regulatory Advisor, Regulatory Affairs
2016-2019	Regulatory Analyst, Regulatory Affairs
2015-2016	Senior Advisor, Treasury
2014-2015	Senior Pricing Analyst, Regulatory Affairs
2011-2014	Financial Analys, Business Planning and Decision Support

APPEARANCE(S) BEFORE THE ONTARIO ENERGY BOARD:

N/A