

Exhibit 8 Interrogatories Response to Interrogatories EB-2016-0091

Rates Effective: May 1, 2017

Date Filed: January 17, 2017

London Hydro
111 Horton Street
P.O. Box 2700
London, ON
N6A 4H6



Date Filed: January 17, 2017

Tab 1 of 5

Exh 8 Board Staff Interrogatories



Interrogatories for Exhibit: 8
Tab: 1
Schedule: 1
Page: 1 of 3

Date Filed: January 17, 2017

8-Staff-53

2

1

- 3 Rate design for microFIT and FIT customers
- 4 Ref: E8/T1/S1, p.5-8
- 5 London Hydro is proposing to allocate microFIT and FIT customers to the GS < 50 kW
- and GS > 50 kW based on the generator's nameplate capacity.
 - a) Please explain whether the costs of serving the microFIT customers are being allocated to the GS < 50 kW class.

8 9 10

7

- LH Response:
- 11 London Hydro has not attempted to construct any cost allocation methodology for microFIT
- 12 customers to incorporate into the GS<50 kW class. Rather London Hydro is assuming that the
- microFIT customer is similar in nature to existing GS<50 kW class customers.

14

15

b) Please explain whether the costs of serving the FIT customers are being removed from the GS < 50 kW class and added to the GS > 50 kW class.

16 17

- 18 LH Response:
- 19 London Hydro has not attempted to construct any cost allocation methodology for FIT
- 20 customers to incorporate into the GS>50 kW class and remove from the GS<50 kW Class.
- 21 Rather London Hydro is assuming that the FIT customer is similar in nature to existing GS>50
- 22 kW class customers.

23

24

c) Do microFIT and FIT generation on London Hydro's system reduce costs, such as reducing peak demand and therefore RTSR costs? Please detail any calculations.

2526

- 27 LH Response:
- 28 London Hydro would suggest that the impact of microFIT and FIT generation at the time of
- 29 monthly peak demand is immaterial to the overall system costs of wholesale power.



Interrogatories for Exhibit: 8
Tab: 1
Schedule: 1
Page: 2 of 3

Date Filed: January 17, 2017

Date	System Peak MW	FIT kW	Count FIT	mFIT KW	Count mFIT	Total Gen	% On system Peak
1/8/2015 19:00	9,897.12	0.00	18	0.00	182	0.00	0.00%
2/19/2015 20:00	9,870.13	0.00	20	0.00	184	0.00	0.00%
3/3/2015 20:00	9,659.56	-	20	0.00	186	0.00	0.00%
4/8/2015 11:00	8,717.64	341.56	23	116.06	185	457.62	0.01%
5/26/2015 16:00	11,345.43	2,529.00	24	803.52	194	3,332.51	0.03%
6/15/2015 16:00	12,203.70	1,650.58	27	453.43	197	2,104.01	0.02%
7/29/2015 15:00	14,426.71	4,479.63	32	1,007.78	204	5,487.41	0.04%
8/17/2015 16:00	15,205.10	3,281.42	34	736.78	213	4,018.20	0.03%
9/8/2015 16:00	15,622.79	3,531.37	35	700.36	216	4,231.73	0.03%
10/28/2015 19:00	10,593.41	-	36	0.00	222	0.00	0.00%
11/18/2015 18:00	12,444.90	-	36	1.66	226	1.66	0.00%
12/7/2015 18:00	12,064.84	0.02	36	0.68	230	0.70	0.00%
1/18/2016 19:00	13,315.96	0.02	37	0.00	235	0.02	0.00%
2/11/2016 19:00	13,127.97	0.00	38	0.00	238	0.01	0.00%
3/1/2016 19:00	12,751.32	-	38	0.00	240	0.00	0.00%
4/4/2016 20:00	11,861.24	-	38	0.01	235	0.01	0.00%
5/27/2016 16:00	16,668.73	4,325.78	41	982.06	261	5,307.83	0.03%
6/20/2016 16:00	19,576.27	3,726.66	42	1,023.89	272	4,750.54	0.02%
7/13/2016 16:00	19,978.79	4,796.94	43	1,070.12	274	5,867.06	0.03%
8/12/2016 16:00	20,303.67	3,682.20	43	844.83	275	4,527.03	0.02%
9/7/2016 16:00	21,178.41	3,172.57	44	665.51	275	3,838.08	0.02%
10/6/2016 16:00	14,243.26	3,329.55	44	728.95	275	4,058.50	0.03%
11/21/2016 18:00	14,450.35	-	47	0.01	273	0.01	0.00%
12/14/2016 18:00	14,663.14	0.00	45	0.00	265	0.00	0.00%

d) Did London Hydro discuss these proposals with its microFIT and FIT customers? If so, please provide a summary of feedback received.

LH Response:

6 London Hydro has not discussed this proposal with its microFIT and FIT customers.

e) Please provide a breakdown of the costs composing the estimated \$200k to serve both microFIT and FIT customers.

LH Response:

	Annual Costs		% Spent	Amount
Engineering Staff Support (3)	\$	425,000.00	33%	\$140,250.00
Metering Billing Clerk (1)	\$	100,000.00	15%	\$ 15,000.00
Finance/AP Clerk (1)	\$	100,000.00	10%	\$ 10,000.00
Mailing/Banking Material	\$	32,850.00	100%	\$ 32,850.00
Total				\$198,100.00

1

2

3 4 5

7

8



Interrogatories for Exhibit: 8
Tab: 1
Schedule: 1
Page: 3 of 3

Date Filed: January 17, 2017

f) Please provide an estimate of the revenue from microFIT and FIT customers in 2017 both with and without the proposed customer re-allocation. Assume that the microFIT rate would have been unchanged.

3 4

5

1

LH Response:

	Proposed				Current								
	Count	Class	Rate	Months	Am	ount	Count		Rat	e	Months/kwH	Am	ount
microFIT	300	GS<50 kW	\$ 32.88	12	\$	118,368	300	microFIT	\$	5.40	12	\$	19,440
FIT	50	GS>50 kW	\$ 162.32	12	\$	97,392	50	GS<50 kW	\$	33.52	12	\$	20,112
					\$	215,760	50	GS<50 kW	\$0	0.0108	3600	\$	1,944
												\$	39,552



Date Filed: January 17, 2017

Tab 3 of 5

Exh 8 LPMA Interrogatories



8-LPMA-58

File Number: EB-2016-0091

Interrogatories for Exhibit: 8
Tab: 3
Schedule: 1
Page: 1 of 2

Date Filed: January 17, 2017

3 Ref: Exhibit 8, Tab 1, Schedule 1

4 5

6

1

2

Please provide versions of Tables 8.14.1.3 through 8.14.1.6 for the levels of consumption shown for residential customers only, if the monthly fixed charge were set at the ceiling of \$17.02, as shown in Table 8.1.1.6.

7 8 9

LH Response:

Table 8.1.1.3 Current Fixed/Variable Proportions

Rafe Class	Metrio	Monthly Service Charge Revenue	Distribution Volumetrio Charge Revenue	Total Revenue
Residential	kWh	68.5%	31.5%	63.3%
General Service Less Than 50 kW	kWh	56.1%	43.9%	13.6%
General Service 50 to 4,999 kW	KW	22.9%	77.1%	18.9%
General Service 1,000 To 4,999 kW (co-generation)	kW	29.4%	70.6%	0.6%
Standby Power	kW	0.0%	100.0%	0.6%
Large Use	KW	40.9%	59.1%	0.9%
Street Lighting	KW	60.3%	39.7%	1.8%
Sentinel Lighting	KW	53.3%	45.7%	0.1%
Unmetered Scattered Load	kWh	28.1%	71.9%	0.2%
				100.0%

10

11 Replacement Table 8.1.1.4 Proposed Fixed/Variable Proportions Residential \$17.02

Rate Class	Metric	Monthly Service Charge Revenue	Distribution Volumetric Charge Revenue	Total Revenue
Residential	kWh	67.4%	32.6%	63.3%
General Service Less Than 50 kW	kWh	55.9%	44.1%	13.4%
General Service 50 to 4,999 kW	kW	22.9%	77.1%	19.1%
General Service 1,000 To 4,999 kW (co-generation)	kW	29.4%	70.6%	0.6%
Standby Power	kW	0.0%	100.0%	0.6%
Large Use	kW	40.9%	59.1%	0.9%
Street Lighting	kW	60.5%	39.5%	1.8%
Sentinel Lighting	kW	53.3%	46.7%	0.1%
Unmetered Scattered Load	kWh	28.0%	72.0%	0.2%
				100.0%



Interrogatories for Exhibit: 8
Tab: 3
Schedule: 1
Page: 2 of 2

Date Filed: January 17, 2017

Table 8.1.1.5 Proposed Rates From Cost Allocation

Rate Class	Proposed Base Service Charge G = A / D / 12	Proposed Base Distribution Volumetric Rate kWh H = B / E	Proposed Base Distribution Volumetric Rate kW I = C / F
Residential	17.29	0.0127	-
General Service Less Than 50 kW	33.52	0.0108	-
General Service 50 to 4,999 kW	167.52	-	2.7963
General Service 1,000 To 4,999 kW (co-	gei 2,657.69	-	4.6426
Standby Power	-	-	3.2101
Large Use	21,361.28		2.3169
Street Lighting	1.70	-	8.8279
Sentinel Lighting	3.77		12.4297
Unmetered Scattered Load	2.25	0.0194	

1 2 3

Replacement Table 8.1.1.6 Proposed Fixed Charge before Adjustments

Cost Allocation

Rate Class	Current Monthly Service Charge	Floor	Ceiling	Status Quo Adjustment	Monthly Service Charge Before Adjustments
Residential	16.42	3.47	17.02	17.29	17.02
General Service Less Than 50 kW	32.25	2.93	20.63	33.52	33.52
General Service 50 to 4,999 kW	157.55	11.54	40.84	167.52	167.52
General Service 1,000 To 4,999 kW (co-generation)	2,523.99	415.22	600.35	2,657.69	2,650.00
Standby Power	0.00	0.00	0.00	0.00	0.00
Large Use	20,286.64	315.58	833.49	21,361.28	21,350.00
Street Lighting	1.64	(0.00)	3.97	1.70	1.70
Sentinel Lighting	3.48	0.21	11.73	3.77	3.77
Unmetered Scattered Load	2.08	0.03	8.77	2.25	2.25



Interrogatories for Exhibit: 8
Tab: 3
Schedule: 2
Page: 1 of 1

Date Filed: January 17, 2017

8-LPMA-59

2

1

3 Ref: Exhibit 8, Tab 1, Schedule 1

4 5

6

7

a) Please explain why London Hydro is proposing to put microFIT and FIT customers in the GS<50 and GS>50 rate classes, rather than maintaining the existing rate classes as they are and directly allocating the \$200,000 in costs associated with the microFIT and FIT customers to them?

8 9 10

LH Response:

11

12 Please reference 8-Staff-53.

13

14

b) Has London Hydro engaged any of the microFIT and FIT customers to get their feedback on the proposed changes to their rates?

15 16

17 LH Response:

18

19 Please reference 8-Staff-53.



Date Filed: January 17, 2017

Tab 4 of 5

Exh 8 SEC Interrogatories



Interrogatories for Exhibit: 8
Tab: 4
Schedule: 1
Page: 1 of 2

Date Filed: January 17, 2017

8-SEC-21

[8/1/1, p. 5] With respect to the proposed change to the microFIT and FIT distribution rates classes and charges:

(a) Please advise how many of the affected customers in each of microFIT and FIT are also distribution customers receiving power from the Applicant.

LH Response:

microFIT customers are fully autonomous from distribution customers. For purposes of the IESO contract the owners must be the legal titled owners of the property, but the generation is measured separately from the consumption on the property.

FIT customers are charged for consumption of power, mostly used for the articulation equipment which adjusts the direction and slope of the solar panels for efficiency of generation, normally 300 kWh per month on average.

(b) Please explain why the Applicant is proposing a change in rate classification that has an impact that is less than its materiality threshold.

LH Response:

London Hydro is of the opinion that the rate reclassification proposed is in fairness to all London Hydro customers. London Hydro feels that the consuming customers are unfairly cross subsidizing the generation customers. In reference to materiality threshold London Hydro believes that because the microFIT and FIT contracts have a life span of 20 years the value proposition of the reclassification will far exceed the materiality threshold.

(c) Please provide details on all customer engagement that has taken place with respect to this proposed change.

LH Response:

Please reference 8-Staff-53



Interrogatories for Exhibit: 8
Tab: 4
Schedule: 1
Page: 2 of 2

Date Filed: January 17, 2017

1 2

(d) Please provide further details of the change to boilerplate capacity for microFIT and FIT customers, including the expected impact on those customers of this part of the proposal.

3 4

5

6

7

8 9

LH Response:

London Hydro is only proposing to use the boilerplate capacity as a measure for rate classification only. As microFIT by design are less than or equal to 10 kW they would be deemed as classified as GS<50 kW. As FIT are normally above 50 kW they would be deemed as classified as GS>50 kW.

10 11

Please reference 8-Staff-51 f) for expected impact.



8-SEC-22

File Number: EB-2016-0091

Interrogatories for Exhibit: Tab: 4 Schedule: 2 Page: 1 of 1

Date Filed: January 17, 2017

[8/7/2, p. 4] Rather than add an additional OEB-approved charge, why does London Hydro not simply require the customer that wants to choose the second option to make cellular arrangements with the authorized APN (or another cellular provider that can adhere to London Hydro's specs) and pay them directly? What part of this option makes it necessary, or advantageous to the customer, that London Hydro act as a middleman?

8 9

10

11

1

2

3

4

5

6 7

LH Response:

The advantages London Hydro gains by managing and deploying a private APN service would 12 include all and/or a combination of the following benefits, but not limited to:

- 14 1. Security - Standard cellular plans are public domain that require advance security options to protect London Hydro assets and customer data. The private APN established isolates, and 15 16 encrypts, data from the public domain, thereby, it is inherently more secure to intrusion and/or 17 penetration risks as compared to a public domain network(s).
- 18 2. Cost - Typical cellular data plans available to customers would be greater than what we may 19 offer due to volume and negotiated data rates we have secured.
- 20 3. Customer simplicity - Not all customers are technically savvy and appreciate we take on the 21 account creation, hardware supply, installation, configuration and life-cycle maintenance, at a 22 reasonable rate as compared to what they may secure such service.
- 23 4. Administration/Management - LH team has better control of meter communication option(s) 24 and cellular service plan(s) (eg. prematurely cancelled and/or terminated communication plans). 25 It allows better planning of meter installation(s), by not relying on customer(s) to ensure a 26 service has been setup and/or configured properly, inherently minimizing costly repeat site visits 27 and/or troubleshooting. As an APN administrator we have improved insight of data traffic, 28 diagnostic tools, and status of the network as compared to being on the public carrier service, 29 which aids and/or reduces troubleshooting.



Date Filed: January 17, 2017

Tab 5 of 5

Exh 8 VECC Interrogatories



Interrogatories for Exhibit: 8
Tab: 5
Schedule: 1
Page: 1 of 1

Date Filed: January 17, 2017

8-VECC-59

2

1

3 Reference: E8/T1/S1, page 8 E8/T2/S1, Attachment 1 4 RRWF, Tab 12 5 6 7 a) Please explain why the proposed Residential fixed charge set out at page 8 is \$20.11 while the final adjusted rate in Attachment 1 is \$20.02? 8 9 LH Response: Between the time of writing and completion of the application Board staff model changes 10 occurred link errors were not identified. 11 12 b) Please explain why the final adjusted rate in Attachment 1 is \$20.02 13 whereas in the RRWF, Tab 12 it is \$19.94. 14 15

16 LH Response:

17 See response to a) above.



Interrogatories for Exhibit: 8
Tab: 5
Schedule: 2
Page: 1 of 2

Date Filed: January 17, 2017

8-VECC-60

2

1

3 Reference: E8/T1/S1, pages 5-6

E8/T12/S1, Attachment 2

5

4

a) Please clarify, under London's proposal, will the microFIT customers continue to also pay the \$5.40 per month as well as the \$32.88?

7 8 9

LH Response:

Under London Hydro's proposal, the microFIT customers will not continue to also pay the \$5.40 per month

12 13

10

11

b) If not, how is proposed microFIT adjustment revenue neutral overall?

14 15

16

17

18

LH Response:

The proposed change in rates for microFIT is revenue neutral to the GS<50 kW class as a whole by increasing the customer count by the forecasted microFIT customer count and reducing the final customer charge for the GS<50 kW class as a whole.

19 20

c) If yes, why is the microFIT charge not in the Proposed Tariff of Rates and Charges?

21 22

23

24

LH Response:

See response to a) above.

2526

d) Does London have any microFIT customers that are currently classified as Residential for their main service? If so, how are they affected by the proposed changes?

28 29 30

31

32

27

LH Response:

Most microFIT customers predominantly by nature are residential customers receiving two London Hydro invoices, one for residential consumption and one for microFIT



Interrogatories for Exhibit: 8
Tab: 5
Schedule: 2
Page: 2 of 2

Date Filed: January 17, 2017

generation. The proposed change would only affect the microFIT generation bill replacing the current microFIT fee with a GS<50 kW customer charge.



Interrogatories for Exhibit: 8
Tab: 5
Schedule: 3
Page: 1 of 1

Date Filed: January 17, 2017

8-VECC-61

2

3

4

1

Reference: E8/T1/S1, page 10

E8/T12/S1, Attachment 2

5 6

7

8

a) Please explain why the proposed fixed/variable rates in Table 8.1.1.14 don't match the proposed rates in Attachment 2 for: i) GS<50, ii) GS 50-4,999, and iii) Co-generation.

9 10

11

12

13

LH Response:

London Hydro was challenged with Board staff changes to models and may have mixed up models for submission purposes.



File Number:

EB-2016-0091

Interrogatories for Exhibit: 8
Tab: 5
Schedule: 4
Page: 1 of 1

Date Filed: January 17, 2017

8-VECC-62

2

3

1

Reference: E8/T11/S1, pages 1-2

4 5

6

7

a) How are the loads for the 5 residential and 3 GS<50 current net metered customers treated in the cost allocation set out in Exhibit 7, i.e., are the values used net or gross absolute values?.

8

10

LH Response:

- 11 The loads for the 5 residential and 3 GS<50 kW current net metered customers were treated in
- the cost allocation set out in Exhibit 7 as the values used net.



Interrogatories for Exhibit: 8
Tab: 5
Schedule: 5
Page: 1 of 1

Date Filed: January 17, 2017

8-VECC-63

Reference: E8/T11/S2, page 1

E8/T12/S1, Attachment 2, page 49

a) Please explain how London determines whether or not Standby Power Service has been provided in a given month.

LH Response:

London Hydro has a contract with the customer for the reserved capacity kilowatts (kW) determined within the connection agreement. The Standby Charge is not calculated monthly based on whether or not Standby Power Service has been provided, instead the contracted reserved capacity amount is charged to the customer every month, as set out in Appendix A of the customer's connection agreement.

b) How is the billing determinant for the Rate Riders charged on a \$/kW determined each month for Standby customers?

LH Response:

The billing determinant kilowatts for the Rate Riders charged on \$/kW are equivalent with the contracted monthly kW of reserved capacity determined within the connection agreement for customers to whom the Standby charge applies.