



1 **Undertaking JTC1.19**

2
3 To provide the historical data back to 2011 for each customer class, and to do so in an
4 excel spreadsheet.

5
6
7 **Response:**

8
9 Please refer to attachment Att-JTC1.19-A.

10

Average Customers/Connections Geometric Mean

	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Bridge	2016 Test	2017 Test	2018 Test	2019 Test	2020 Test
RESIDENTIAL	275,966	280,254	284,964	289,385	293,366	297,343	301,258	305,144	308,990	312,786
GENERAL SERVICE <50KW	23,616	23,767	23,936	23,968	24,099	24,512	24,626	24,739	24,850	24,959
GENERAL SERVICE 50-1999KW	3,353	3,416	3,408	3,514	3,549	3,296	3,323	3,351	3,380	3,408
GENERAL SERVICE 1500-5000 KW	69	74	76	87	88	75	76	76	76	76
LARGE USER	11	11	11	11	11	11	11	11	11	11
STREETLIGHTING	54,679	55,674	55,757	55,524	55,516	55,516	55,516	55,516	55,516	55,516
UMSL	3,183	3,384	3,376	3,438	3,444	3,477	3,525	3,573	3,621	3,669
SENTINEL LIGHTS	63	61	57	57	57	55	51	47	43	39
STANDBY	2	2	2	2	2	2	2	2	2	2

Geometric Growth Rate	Geometric Growth Rate

	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Bridge	2016 Test	2017 Test	2018 Test	2019 Test	2020 Test
RESIDENTIAL		4,288	4,710	4,421	3,981	3,977	3,915	3,886	3,846	3,796
GENERAL SERVICE <50KW		151	169	32	131	413	114	113	111	109
GENERAL SERVICE 50-1999KW		63	8	106	35	253	27	28	29	28
GENERAL SERVICE 1500-5000 KW		5	2	11	1	13	1	-	-	-
LARGE USER		-	-	-	-	-	-	-	-	-
STREETLIGHTING		995	83	233	8	-	-	-	-	-
UMSL		201	8	62	6	33	48	48	48	48
SENTINEL LIGHTS		-	2	4	-	2	4	4	4	4
STANDBY		-	-	-	-	-	-	-	-	-

Standard Excel
Formula

Geometric Mean	Geometric Mean
4,081.02	4,081.02
123.91	123.91
#NUM!	40.46
#NUM!	#NUM!
#NUM!	#NUM!
#NUM!	#NUM!
#NUM!	36.13
#NUM!	#NUM!
#NUM!	#NUM!



Undertaking JTC1.21

To provide versions of table 1, table 2, table 3, and table 4 in Exhibit C, tab 1, schedule 1, that reflect the updated forecast from the Conference Board of Canada as shown on table 4 to the interrogatory response, with no other changes from the methodology used for the forecast; (B), to provide a table that shows, for each of 2016 through 2020, the change in the kilowatt-hours, kilowatts and customer forecast for each rate class based on the response to my first question, the difference between that and at original forecast; (c), to identify the impact on the revenue deficiency in each of the years, based on the updated forecast shown in the response to 3-VECC-21.

Response:

Please find Tables below using the update economics from the Conference Board of Canada similar to those used in Tables 1 through 4 from Exhibit C-1-1 of Hydro Ottawa's application. Tables comparing Hydro Ottawa's forecast to the requested update are also provided. Please note customer numbers did not change. As a result, no chart showing the difference has been provided.

Please see Table 8 for the updated Revenue Deficiency.



1 **Table 1 – 2016 through 2020 Forecasted Sales Forecast (MWh) by class¹ using**
2 **updated Economics**
3

	2016	2017	2018	2019	2020
RESIDENTIAL	2,183,877	2,167,091	2,173,799	2,180,538	2,181,834
GENERAL SERVICE <50KW	729,827	720,702	713,708	708,735	704,819
GENERAL SERVICE 50-1000KW Non Interval	1,392,406	1,343,888	1,303,260	1,269,546	1,238,911
GENERAL SERVICE 50-1000KW Interval	1,214,518	1,222,024	1,233,766	1,249,392	1,266,610
GENERAL SERVICE 1000-1500KW	361,101	357,637	355,610	354,827	354,564
GENERAL SERVICE 1500-5000 KW	867,358	882,400	900,753	921,348	943,566
LARGE USER	617,587	617,190	616,040	615,002	613,333
STREETLIGHTING	43,833	43,928	44,038	44,152	44,291
MU	16,493	16,527	16,568	16,611	16,664
SENTINEL LIGHTS	48	48	48	48	48
TOTAL MWH SALES	7,427,048	7,371,435	7,357,590	7,360,199	7,364,640

4

5

6 **Table 2 – 2016 through 2020 Original Forecast Sales Forecast (MWh) by class²**
7 **Compared to Updated Economics**
8

	2016	2017	2018	2019	2020
RESIDENTIAL	32,168	31,168	32,612	34,446	35,794
GENERAL SERVICE <50KW	(3,467)	(3,806)	(3,917)	(4,542)	(5,075)
GENERAL SERVICE 50-1000KW Non Interval	(5,429)	(7,061)	(7,696)	(10,149)	(12,397)
GENERAL SERVICE 50-1000KW Interval	(6,572)	(7,262)	(7,672)	(8,840)	(9,837)
GENERAL SERVICE 1000-1500KW	(1,583)	(1,781)	(1,846)	(2,183)	(2,464)
GENERAL SERVICE 1500-5000 KW	(4,049)	(5,000)	(5,384)	(6,779)	(8,012)
LARGE USER	2,631	2,063	2,427	2,034	1,862
STREETLIGHTING	(281)	(275)	(273)	(276)	(276)
MU	158	163	163	161	163
SENTINEL LIGHTS	0	0	0	0	0
TOTAL MWH SALES	13,576	8,209	8,414	3,872	(242)

9

10

11

12

¹ Forecast does not include Dry Core Transformer Charge

² Forecast does not include Dry Core Transformer Charge



Table 3 – 2016 through 2020 Demand Forecast (kW) by class using updated Economics

	2016	2017	2018	2019	2020
GENERAL SERVICE 50-1000KW Non Interval	3,547,211	3,424,382	3,320,706	3,234,572	3,154,954
GENERAL SERVICE 50-1000KW Interval	2,739,968	2,757,130	2,783,614	2,818,770	2,857,190
GENERAL SERVICE 1000-1500KW	772,931	765,387	760,970	759,259	758,626
GENERAL SERVICE 1500-5000 KW	1,856,027	1,888,377	1,927,541	1,971,504	2,018,645
STANDBY	4,800	4,800	4,800	4,800	4,800
LARGE USER	1,116,700	1,116,007	1,113,917	1,112,040	1,108,991
STREETLIGHTING	123,336	123,336	123,336	123,336	123,336
SENTINEL LIGHTS	216	216	216	216	216
TOTAL	10,161,189	10,079,635	10,035,100	10,024,497	10,026,758

Table 4 – 2016 through 2020 Demand Forecast (kW) by class Compared to Updated Economics

	2016	2017	2018	2019	2020
GENERAL SERVICE 50-1000KW Non Interval	(13,857)	(18,028)	(19,642)	(25,990)	(31,663)
GENERAL SERVICE 50-1000KW Interval	(14,785)	(16,325)	(17,239)	(19,880)	(22,114)
GENERAL SERVICE 1000-1500KW	(3,489)	(3,906)	(4,059)	(4,801)	(5,414)
GENERAL SERVICE 1500-5000 KW	(8,662)	(10,686)	(11,497)	(14,495)	(17,120)
STANDBY	0	0	0	0	0
LARGE USER	4,749	3,719	4,383	3,662	3,351
STREETLIGHTING	(192)	(192)	(192)	(192)	(192)
SENTINEL LIGHTS	0	0	0	0	0
TOTAL	(36,236)	(45,418)	(48,246)	(61,696)	(73,152)



1 **Table 5 – 2016 through 2020 Average Number of Customers and Connections by**
2 **class using updated Economics**
3

	2016	2017	2018	2019	2020
RESIDENTIAL	297,343	301,258	305,144	308,990	312,786
GENERAL SERVICE <50KW	24,512	24,626	24,739	24,850	24,959
GENERAL SERVICE 50-1000KW NONI	2,481	2,481	2,481	2,481	2,481
GENERAL SERVICE 50-1000KW INT	758	785	813	841	869
GENERAL SERVICE 1000-1500KW	57	57	57	58	58
GENERAL SERVICE 1500-5000 KW	76	76	76	76	76
STANDBY	2	2	2	2	2
LARGE USERS	11	11	11	11	11
TOTAL CUSTOMERS	325,240	329,296	333,323	337,308	341,243

	2016	2017	2018	2019	2020
STREET LIGHTING	55,516	55,516	55,516	55,516	55,516
SENTINEL LIGHTS	55	51	47	43	39
UNMETERED SCATTERED LOADS	3,477	3,525	3,573	3,621	3,669
TOTAL CONNECTIONS	59,048	59,092	59,136	59,180	59,224

4

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6

7 **Table 6 – Hydro Ottawa 2016 through 2020 Demand Forecast (kW) for Transformer**
8 **Ownership Credit by class using updated Economics**
9

	2016	2017	2018	2019	2020
GENERAL SERVICE 50-1000KW NONI	(886,803)	(856,096)	(830,177)	(808,643)	(788,739)
GENERAL SERVICE 50-1000KW INT	(684,992)	(689,283)	(695,904)	(704,693)	(714,298)
GENERAL SERVICE 1000-1500KW	(193,233)	(191,347)	(190,243)	(189,815)	(189,657)
GENERAL SERVICE 1500-5000 KW	(464,007)	(472,094)	(481,885)	(492,876)	(504,661)
LARGE USER	(279,175)	(279,002)	(278,479)	(278,010)	(277,248)
TOTAL CUSTOMERS	(2,508,209)	(2,487,821)	(2,476,687)	(2,474,036)	(2,474,602)

10

11

12

13



1 **Table 7 – 2016 through 2020 Demand Forecast (kW) for Transformer Ownership**
2 **Credit by class Compared to Updated Economics**
3

	2016	2017	2018	2019	2020
GENERAL SERVICE 50-1000KW NONI	(3,464)	(4,507)	(4,911)	(6,497)	(7,916)
GENERAL SERVICE 50-1000KW INT	(3,696)	(4,082)	(4,310)	(4,970)	(5,529)
GENERAL SERVICE 1000-1500KW	(872)	(977)	(1,015)	(1,200)	(1,354)
GENERAL SERVICE 1500-5000 KW	(2,166)	(2,671)	(2,874)	(3,624)	(4,280)
LARGE USER	1,187	930	1,096	916	838
TOTAL CUSTOMERS	(9,011)	(11,307)	(12,013)	(15,376)	(18,240)

4

5

6

7

Table 8 – 2016 through 2020 Revenue Requirement Impact

	2016	2017	2018	2019	2020
Update with 2014 Actuals	(17,209,490)	(27,670,798)	(37,991,282)	(47,020,791)	(53,049,194)
Updated Economics	(17,762,942)	(28,161,496)	(38,503,240)	(47,514,917)	(53,523,117)
Difference	553,452	490,698	511,957	494,125	473,923

8



1 **Undertaking JTC1.22**

2
3 With reference to OEB no.1, to provide an explanation to the change to the formula and
4 the impact of the change on the calculations done on the cost allocation model.

5 .
6
7
8 **Response:**

9
10 Hydro Ottawa made two changes/corrections to the cost allocation model. One relates
11 to 4086 - SSS Administration Charge and one relates to 4751 Charges – Smart Metering
12 Entity.

13
14 The SSS admin charge is allocated by the model using number of customers. In the
15 case of Street Lighting and Unmetered the model derives the customer number from
16 connections and therefore the customer number is too high. For Street Lighting 3,701
17 customers were derived. As 4086 is billed based on customer numbers an over
18 allocation is being given to the Street Lighting, Unmetered and Sentinel Lights. In order
19 to correct this Hydro Ottawa proposed to use a 3 year average of historical data.

20
21 Hydro Ottawa utilized Tab “I3 TB Data” column I to introduce a new allocator. The new
22 allocator data was incorporated on tab “I6.2 Customer Data” starting on line 43. The
23 new allocator was introduced in tab “E2 Allocators” line 122; the allocator is called
24 Standard Supply Admin Charge Revenue or SSSA.

25
26 The correction in the update to OEB #1 related to incorporating the new allocator.

27
28 Please see the Table 1 below for the dollar value change on the allocation of the
29 Standard Supply Admin Charge Revenue in 2016.



Table 1 - Standard Supply Admin Charge Revenue Allocation

Accounts	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	Large Use	Street Light	Sentinel	USL	Standby
Original Model	(891,797)	(797,568)	(65,750)	(8,839)	(204)	(30)	(9,927)	(148)	(9,326)	(5)
New Allocator	(891,797)	(816,094)	(66,803)	(8,414)	(221)	(30)	(21)	0	(214)	0
Change	0	(18,526)	(1,054)	425	(17)	(1)	9,907	148	9,113	5

The correction to 4751 Charges, Smart Metering Entity, is on sheet "O6 Source Data for E2", Cells D176:W176. The remainder of the analysis is for cell D176 (the error, correction, and nature of the impact are consistent across the rate classes).

The formula in the supplied 2016 model is "='O5 Details by Class & Accounts'!BT131". This formula is consistent with those in cells D167:D174, and appears to intend to pick up the allocated revenues in account 4751 from sheet "O5 Details by Class & Accounts".

The Corrected formula is "='O5 Details by Class & Accounts'!AD130" – in order to correctly reflect two things: Account 4751 is on row 130 in sheet "O5 Details by Class & Accounts". Account 4751 is allocated on the basis of the secondary customer count (Allocator CCS), rather than the other cost of power accounts which are allocated on the basis of energy



1 (Allocators used are CEN and CEN EWMP), and therefore, its allocation is in a different
2 set of columns on "O5 Details by Class & Accounts".
3
4 The impact of the error is that this account is not included in the cost of power allocation,
5 and therefore the allocated Rate Base is missing this amount. The error is indicated in
6 the completed model as sheet O1 will indicate that the "Rate Base Input Does Not Equal
7 Output", while sheet I3 includes the amount in Rate Base, so it will indicate "Rate Base
8 Matches".



Undertaking JTC1.23

With respect to VECC 47, to provide a listing of the 22 expense-related items that are referred to in that undertaking response and the customer classes associated with each of those items; the answer will be given with respect to getting around the issue concerning the vendor-related matter.

Response:

Hydro Ottawa started its analysis with 22 vendors. 5 vendors were considered directly related to metering reading; therefore no weightings were given to these vendors. For the remaining 17 vendors 9 different patterns of customer utilization of vendor services were identifying, Table 1 provides the 9 allocation factors.

Table 1 – Allocation Factors

Allocation Factors	Residential	GS <50KW	GS 50-1000KW Non Interval	GS 50-1000KW Interval	GS 1000-1500KW	GS 1500-5000 KW	Large Users	Street Lighting	Standby Power	USL	Sentinel Lights
Type 1	1	1	1	1	1	1	1	1	1	1	1
Type 2	1	1	1	1	1	1	1	1	1	1	
Type 3				1	1	1	1	1	1		
Type 4	1	1	1								
Type 5	1	1	1	1	1	1	1	1	1		
Type 6	1	1	1	1	1	1	1				
Type 7	1	1	1	1	1	1	1		1		
Type 8	1	1	1	1	1	1					
Type 9				1	1	1	1		1		

As the majority of the larger vendors used unique customer allocation factors Hydro Ottawa combined the vendors into three vendor groups. Hydro Ottawa has provided the three vendor groups weighting factors by class of customer, please refer to Table 2.



1 **Table 2 – Weighting Factors for 3 Vendor Groups**

	Residential	GS <50KW	GS 50- 1499KW Non Interval	GS 1500- 5000 KW	Large Users	Street Lighting	Standby Power	USL	Sentinel Lights
Group 1 Vendors	1.0	1.0	21.0	90.2	90.2	90.2	90.2	0.9	0.9
Group 2 Vendors	1.0	1.1	2.8	0.9	0.7	1.1	1.4	1.4	-
Group 2 Vendors	1.0	1.0	5.7	13.4	13.4	0.7	13.4	-	-

2

3 Group 1 vendors used allocators 1, 3 and 4. Group 2 vendors used allocator 2; some

4 vendors were impacted by e-billing use. Group 3 vendors used allocators 5 through 9.



Undertaking JTC1.27

Provide the calculation of if Hydro Ottawa over-earns by 150 basis point on ROE in each of the five years of your plan, and the sole reason for that over-earning is that Hydro Ottawa's expenses have been forecast too high and, when they come in lower, the result is that Hydro Ottawa over earns.

Response:

Table 1 below sets out the estimated reductions (\$ / %) to revenue requirement if Hydro Ottawa were to over earn by 150bps and the over earned amounts were not subject to earnings sharing.

JTC 1.27 - Table 1

Revenue Requirement and Net Income Impact of ESM Retained Earnings

(\$000s)	2016	2017	2018	2019	2020
Revenue Requirement from Rates	176,694	186,784	197,507	207,120	213,637
Estimated value of 150bps above ROE (after-tax)	\$5,540	\$5,823	\$6,122	\$6,304	\$6,566
Percent decrease from Revenue Requirement from rates	3.14%	3.12%	3.10%	3.04%	3.07%
Estimated Net Income under Custom IR	\$34,347	\$36,106	\$37,955	\$39,087	\$40,707
Net income PLUS value of 150bps	\$39,887	\$41,929	\$44,077	\$45,391	\$47,273



Undertaking JTC1.32

To provide a list of the assets, their value and in-service month to which the in-service month methodology applies for the 2016 and 2017 expenditures

Response:

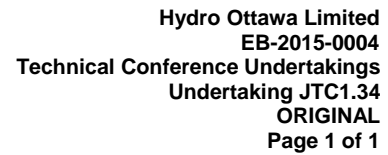
Table 1 and 2 below is a listing of assets capitalized in 2016 and 2017 respectively. The tables show assets by OEB category, their forecasted cost value and in-service period (by Quarter) for 2016 and 2017:

Table 1 – 2016 in service period of discrete assets ('000)

Capitalized amount by project	Q1	Q3	Q4
Albion UA T1, T2 & T3 Replacement	-	-	\$2,970
Longfields T2	\$4,340	-	-
JDE Application Upgrade	-	\$6,500	-
CC&B upgrade	-	\$2,500	-

Table 2 – 2017 in service period of discrete assets ('000)

Capitalized amount by project	Q1	Q2	Q3	Q4
OTN Topology	-	-	-	\$4,390
Stations transformer replacement	-	-	-	\$3,190
Stations switchgear replacement	\$742	-	\$3,091	\$2,648
Stations new capacity	-	\$5,000	\$4,718	-
SCADA Replacement	-	-	\$1,011	-
JDE Application Upgrade	\$6,500	-	-	-
CC&B upgrade	\$2,000	-	-	-



To clarify the difference between distribution and non-distribution pass through charges relating to OEB Staff 2(IV).

Please find attached a revised response to interrogatory OEB Staff # 2 clarifying that Hydro Ottawa does not propose to adjust annually for changes to “distribution-specific” third party pass through charges but that it does intend to adjust as required for non-distribution-specific third party pass through charges. Examples of distribution-specific third party pass through charges include new fees or government levies. Examples of non-distribution third party pass through charges include retail transmission service rates (RTSRs).

Due to the nature of third party costs being outside the control of the utilities, Hydro Ottawa reserves the right to file a Z factor application in the event of an unforeseen cost impact is materially impacting.



Response to OEB Staff Interrogatory Question #2

Reference: A-2-1

Question #2:

1 Staff 2. Custom IR Annual Updates

Hydro Ottawa has proposed a Custom IR in which there will be annual updates as well as a resetting of the inflation factor in the incremental formula for OM&A and the cost of capital for the final two years of the term. OEB staff would like to assemble a comprehensive list of Hydro Ottawa's proposal for annual rate adjustments. Please explain Hydro Ottawa's annual adjustments with respect to:

- i) Changes in the cost of capital
- ii) Changes in working capital
- iii) Changes in tax rates
- iv) Changes in third party pass through charges
- v) Disposition of deferral and variance accounts
- vi) Forecast revenue variances arising from changes in forecast customer count
- vii) Forecast revenue variances arising from changes kWh and kW forecasts
- viii) Cost impact from new or changes to regional or municipal plans
- ix) Changes to OEB or Government policy (load transfers, cost allocation, environment, etc.)
- x) Directives from the ministry or the OEB
- xi) Changes to Ontario Market Rules or OEB codes that would impact costs or revenues
- xii) Changes to the Distribution System Code
- xiii) Changes in accounting policies



1 For each adjustment proposed, including rate riders and deferral accounts, please
2 provide:

- 3
- 4 xiv) A reference to the OEB policy or to a precedent that provides for the
5 adjustment. If no OEB policy or precedent exists for a proposed adjustment,
6 please describe the particular circumstances of Hydro Ottawa that justifies
7 the need for the adjustment.
- 8 xv) A best estimate of the materiality of the variance the adjustment is designed
9 to address.
- 10 xvi) Hydro Ottawa's estimate of the annual time and cost (including intevernor
11 participation) of implementing these annual updates.
- 12 xvii) If Hydro Ottawa considers there are other items that should be considered for
13 annual update, please include them in this list.
- 14

15 **Reference: Exhibit A Tab 2 Schedule 1 Page 10**

16

17 Capital investments made during the IRM years of the OEB's price cap IR plan are
18 recognized in rate base only upon rebasing. Hydro Ottawa indicates in its July 7, 2015
19 presentation that the main reason it is pursuing a custom IR option is that it provides "a
20 timely return on needed capital investments"; it goes on to note that a guiding principle of
21 the application is that it will permit earning "an appropriate rate of return in a timely
22 manner to permit continued investment in capital assets". This approach has evident
23 benefits for the shareholder relative to Price Cap IR.

24

- 25 i) What are the benefits of custom IR for customers?
- 26 ii) Please provide a table that shows forecast annual net income under price cap IR
27 with the forecast capital requirements that Hydro Ottawa anticipates in this plan.
- 28 iii) Are there investments in capital that Hydro Ottawa would not make in reliability
29 and system service if it were not pursuing custom IR from 2016-2020 and instead
30 were on Price Cap IR?
- 31



Response:

Annual Updates

- i. Hydro Ottawa proposes to adjust for all cost of capital parameters once in 2018 to reset for 2019 and 2020.
 - ii. Hydro Ottawa does not propose to adjust annually for changes in working capital.
 - iii. Hydro Ottawa does not propose to adjust annually for changes in tax rates. However, in the event of an unforeseen tax change that is materially impacting, Hydro Ottawa reserves the right to file a Z factor application.
 - iv. Hydro Ottawa does not propose to adjust annually for changes in distribution-specific third party pass through charges. **However, Hydro Ottawa does propose to adjust for non-distribution third party charges as set out in its evidence.**
 - v. Per Exhibit I-1-2, Hydro Ottawa proposes to dispose of Group 1 balances on an annual basis if necessary, as contemplated in Boards Filling Requirements for Electricity Distribution Rate Applications – 2014 Edition for 2015 Rate Applications, Section 3.2.3. On page 10 there is a pre-set disposition threshold of \$0.001 per kWh and consistent with a letter from the Board dated July 25, 2014, distributors may now elect to dispose of Group 1 account balances below the threshold.
- For Group 2 accounts Hydro Ottawa proposes to dispose of these balances when applying for 2019 & 2020 rates, with the exception of Lost Revenue Adjustment Mechanism Variance Account (“LRAMVA”), which may be disposed of on an annual basis using a separate rate rider. This is consistent with the Boards Filling Requirements for Electricity Distribution Rate Applications – 2014 Edition for 2015 Rate Applications Section 3.2.4.1 on page 9, which allows distributors to apply for



1 disposition of the LRAMVA balance on an annual basis, if said balance is deemed
2 significant by the applicant.

3
4 Please refer to Exhibit I-1-1, updated June 29, 2015, Section 2, Tables 1 and 2 for a
5 list of Group 1 and Group 2 accounts.

6
7 Hydro Ottawa will not file an annual Incentive Regulation Mechanism ("IRM") to
8 change distribution rates, however it will file an annual update to Hydro One
9 Transmission and Connection Rates, as per Exhibit H-3-1. To be clear, Hydro Ottawa
10 proposes to update the retail transmission service rates ("RTSRs") on an annual basis,
11 2017 through 2020, based on Board Approved adjustments to the Hydro One Uniform
12 Transmission Rates ("UTRs") using the RTSR model, which is part of the IRM
13 model. Given Hydro One UTRs are not typically approved in time for adjusting Hydro
14 Ottawa's rates on January 1, Hydro Ottawa proposes to set each year's RTSRs using
15 the previous year's UTRs. Hydro Ottawa proposes that the differences from the new
16 yearly rates be captured in Uniform System of Accounts 1584 – RSVA Network and
17 1586 – RSVA Connection for future disposition.

18
19 vi. Hydro Ottawa does not propose to adjust annually for changes in forecast revenue
20 variances arising from changes in forecast customer count.

21
22 vii. Hydro Ottawa does not propose to adjust annually for changes in forecast revenue
23 variances arising from changes kWh and kW forecasts.

24
25 viii. Hydro Ottawa does not propose to adjust annually for changes in cost impact from
26 new or changes to regional or municipal plans. However, in the event of an
27 unforeseen cost impact that is materially impacting, Hydro Ottawa reserves the right
28 to file a Z factor application.

29
30 ix. Hydro Ottawa does not propose to adjust annually for changes in changes to OEB or
31 Government policy (load transfers, cost allocation, environment, etc.) However, in



1 the event of an unforeseen cost impact that is materially impacting, Hydro Ottawa
2 reserves the right to file a Z factor application.

3
4 x. Hydro Ottawa does not propose to adjust annually for changes in directives from the
5 ministry or the OEB. However, in the event of an unforeseen cost impact that is
6 materially impacting, Hydro Ottawa reserves the right to file a Z factor application.

7
8 xi. Hydro Ottawa does not propose to adjust annually for changes in Ontario Market
9 Rules or OEB codes that would impact costs or revenues. However, in the event of
10 an unforeseen cost impact that is materially impacting, Hydro Ottawa reserves the
11 right to file a Z factor application.

12
13 xii. Hydro Ottawa does not propose to adjust annually to recover costs associated with
14 changes to the Distribution System Code.

15
16 xiii. Hydro Ottawa does not propose to adjust annually for changes in accounting
17 policies.

18
19 xiv. Hydro Ottawa does not propose to file annual adjustments to its cost and revenues.

20
21 xv. Hydro Ottawa is not in a position at this time to accurately estimate the materiality
22 associated with any of the variances its one-time adjustments are designed to
23 address.

24
25 xvi. The annual time and cost (including intervenor participation) of implementing the
26 mid-plan updates can be accommodated within the Regulatory Cost budget
27 providing a limited written process is adopted. Hydro Ottawa, however estimates
28 that internal and external costs to review its Y factor application will amount to
29 approximately \$100K.

30
31 xvii. Hydro Ottawa has no other distribution specific items that should be considered for
32 annual update.



Custom IR vs. Price Cap

The principle reason why Hydro Ottawa exercised the Custom IR option made available to it by the Board was in order to recover its large multi-year capital requirements. In Hydro Ottawa's July 7th presentation it indicated that "Custom IR offers a financial sustainability model to provide timely return on needed capital investments"¹, and "... to permit continued investment in capital assets to meet customer expectations".²

- i. The benefits to Hydro Ottawa's customer of approving its Custom IR application arise from sustained or improved reliability resulting from increased investments in Hydro Ottawa's distribution infrastructure.
- ii. See Table # 1 below that shows forecast annual net income (ROE) that Hydro Ottawa might expect to earn under price cap IR compared to Hydro Ottawa's forecast capital requirements. To respond to this question, Hydro Ottawa has assumed a non-adjusted full rebasing for 2016.
- iii. Hydro Ottawa confirms that there are reliability enhancing investments it may not undertake if it were not pursuing custom IR from 2016-2020 and instead were on Price Cap IR. The precise nature of the investments not made would be determined by a re-prioritization process. Hydro Ottawa cautions, however, that the known and likely outcomes of reverting to a price cap model for rate setting may include non-paced investments leading to large rate hikes in the rebasing year.

¹ Slide 25, Hydro Ottawa's July 7, 2015 Presentation.

² Ibid, Slide26.



1 **Table # 1 – Estimated Net Income (Price Cap) vs. Forecasted Capital**

(\$000s)	2016	2017	2018	2019	2020	Total
HOL Custom IR <u>capital</u> funding request only	\$120,168	\$114,245	\$113,344	\$120,983	\$119,537	\$588,277
Estimated Annual Net Income under price cap (ROE)	\$34,347	\$29,197	\$23,560	\$18,375	\$16,834	\$122,313
Net Income as a percent of Capital Requirements	28.6%	25.6%	20.8%	15.2%	14.1%	N/A

2

3



Undertaking JTC1.35

With reference to SIA No. 15, "defective equipment", to show the calculation of the 12 percent.

Response:

Hydro Ottawa would like to correct the Table representing Defective Equipment Contribution to SAIFI submitted in response to SIA Interrogatory 7, as well as include the years included in Table 1.3.6 – Defective Equipment SAIFI per 100 Customers in Exhibit B-1-2. The revised table is below.

Table JTC1.35-1

Asset	2010	2011	2012	2013	2014
U/G Cable - Polymer	5	10	4	2	1.4
Insulator	2	7	0.3	0.1	3
Station Switchgear	2	5	0	3	0.2
O/H Switchgear	4	4	3	6	3
U/G Cable Attachment	2	3	2	5	6
Station Transformer	1.2	1.2	2	0.3	0.2
U/G Switchgear	1	1	7	0.1	0.2
U/G Cable - PILC	0.7	0.6	0.6	2	1.5
O/H Transformer	0	0	1	2	0.0
Pole	0	0	1	4	0.1
U/G Transformer	1	0	3	3	0.6
Other	6	9	6	14	12
Total	25	41	30	42	28

Hydro Ottawa Limited continues to investigate outage causes in order to identify trends that need to be addressed. For example, in 2011 there was an abnormal increase in outages due to insulators failing. Hydro Ottawa Limited had been replacing porcelain insulators with polymer insulators due to the porcelain type failing and in some cases leading to pole fires, but after the increase in failures in 2011 decided to create specific programs at targeting the replacements. Also, in 2012 there were multiple outages on two switchgears that are integral to the distribution system. These switchgears were



- 1 planned for replacement in 2012, but the projects were brought forward instead of
- 2 applying maintenance practices to eliminate the continued failures.
- 3 When comparing the SAIFI contributions per 100 customers in 2014 total (28) to the
- 4 2010 total (25), a 12% change can be calculated.

$$\frac{(0.28 - 0.25)}{0.25} = 0.12$$



1 **Undertaking JTC2.2**

2

3 To provide us with the specific breakdown requested in SEC No. 7

4

5

6 **Response:**

7

8 Please see response to undertaking JTC2.44.

9



Undertaking JTC2.3

To provide a list of what parts of any interrogatories Hydro Ottawa has not yet answered, and when Hydro Ottawa expects to answer them.

Response:

Please find Table 1 with the outstanding interrogatories as of Technical Conference. As noted in the chart, all outstanding parts are being submitted as part of the Technical Conference Questions.

Table 1 – Outstanding Interrogatory Questions

IR References	IR Description	Submitted as part of
SEC#7	Revenue Requirement Impact of Facilities Implementation	JTC2.2
OEB Staff#1 VECC #48 (d) EP #48 (b)	Breakdown of residential customers	JTC1.26
OEB Staff #1 EP #46 (b)	Appendix 2-P - Cost Allocation	JTC1.25
OEB Staff #1	Appendix 2-V - Revenue Reconciliation	JTC1.24
OEB Staff #1 VECC #57	Appendix 2-Z - Tariff - in Excel Format and PDF	JTC2.3

Please find attached ATTJTC2.3-A, Appendix 2-Z, and ATTJTC2.3-B, ATTJTC2.3-C, ATTJTC2.3-D, ATTJTC2.3-E and ATTJTC2.3-F for the PDF of proposed tariff of rates and charges.



- 1 For Attachment A to Undertaking JTC 2.3, please refer to the excel file entitled “ATT-
- 2 JTC2.3-A_App_2-Z Proposed Tariff of Rates and Charges 2016-2020”.



Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2016

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EB-2015-0004

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Further servicing details are available in the

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	13.88
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0207
Low Voltage Service Rate	\$/kWh	0.00007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0047
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2016	\$/kWh	(0.00002)
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2016	\$/kWh	(0.000578)
Rate Rider for Group 2 Accounts - effective until December 31, 2016	\$	1.16
Rate Rider for Global Adjustment Account - effective until December 31, 2016 - Applicable only for Non-RPP Customers	\$/kWh	0.00281

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	23.00
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0216
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2016	\$/kWh	0.00023
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2016	\$/kWh	(0.000593)
Rate Rider for Group 2 Accounts - effective until December 31, 2016	\$/kWh	0.00143
Rate Rider for Global Adjustment Account - effective until December 31, 2016 - Applicable only for Non-RPP Customers	\$/kWh	0.00281

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	290.00
Distribution Volumetric Rate	\$/kW	3.9496
Low Voltage Service Rate	\$/kW	0.02526
Retail Transmission Rate - Network Service Rate	\$/kW	2.8608
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.8267
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2016	\$/kW	(0.07711)
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2016	\$/kW	(0.251407)
Rate Rider for Group 2 Accounts - effective until December 31, 2016	\$/kW	0.5416
Rate Rider for Global Adjustment Account - effective until December 31, 2016 - Applicable only for Non-RPP Customers		
	\$/kWh	0.00281

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 1,500 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	4,700.00
Distribution Volumetric Rate	\$/kW	3.8376
Low Voltage Service Rate	\$/kW	0.02700
Retail Transmission Rate - Network Service Rate	\$/kW	2.9704
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.9522
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2016	\$/kW	(0.07711)
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2016	\$/kW	(0.279477)
Rate Rider for Group 2 Accounts - effective until December 31, 2016	\$/kW	0.59994
Rate Rider for Global Adjustment Account - effective until December 31, 2016 - Applicable only for Non-RPP Customers		
	\$/kWh	0.00281

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	16,900.00
Distribution Volumetric Rate	\$/kW	3.6595
Low Voltage Service Rate	\$/kW	0.03040
Retail Transmission Rate - Network Service Rate	\$/kW	3.2927
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1984
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2016	\$/kW	(0.07711)
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2016	\$/kW	(0.330748)
Rate Rider for Group 2 Accounts - effective until December 31, 2016	\$/kW	0.70983
Rate Rider for Global Adjustment Account - effective until December 31, 2016 - Applicable only for Non-RPP Customers	\$/kWh	0.00281

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Qualification for this

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	4.75
Distribution Volumetric Rate	\$/kWh	0.0233
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2016	\$/kWh	(0.00044)
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2016	\$/kWh	(0.000598)
Rate Rider for Group 2 Accounts - effective until December 31, 2016	\$/kWh	0.00132

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	135.00
General Service 50 to 1,4999 kW customer	\$/kW	1.8153
General Service 1,500 to 4,999 kW customer	\$/kW	1.6651
General Service Large User kW customer	\$/kW	1.8478

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	3.10
Distribution Volumetric Rate	\$/kW	11.9059
Low Voltage Service Rate	\$/kW	0.01877
Retail Transmission Rate - Network Service Rate	\$/kW	2.1118
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3570
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2016	\$/kW	(0.132898)
Rate Rider for Group 2 Accounts - effective until December 31, 2016	\$/kW	0.30556

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	0.80
Distribution Volumetric Rate	\$/kW	5.6872
Low Voltage Service Rate	\$/kW	0.01916
Retail Transmission Rate - Network Service Rate	\$/kW	2.1225
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3853
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2016	\$/kW	(0.24051)
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2016	\$/kW	(0.211508)
Rate Rider for Group 2 Accounts - effective until December 31, 2016	\$/kW	0.45419
Rate Rider for Global Adjustment Account - effective until December 31, 2016 - Applicable only for Non-RPP Customers		
	\$/kWh	0.00281

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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Micro-FIT and Micro-Net-Metering SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	18.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2016

This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2015-0004

FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	119.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

HCI, RESOP, Other Energy Resource SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	259.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month
Primary Metering Allowance for transformer losses – applied to measured demand and energy

SPECIFIC SERVICE CHARGES

APPLICATION

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Customer Administration

Arrears certificate	\$	15.00
Duplicate Invoices for previous billing	\$	15.00
Special Billing Service Per Hour (Min 1 hour, 15 min incremental billing thereafter)	\$	95.00
Credit Reference/credit check (plus credit agency costs)	\$	15.00
Unprocessed Payment Charge (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Reconnect at Meter - Regular Hours (Under Account Administration - New Account)	\$	65.00
Reconnect at Meter - After Regular Hours (Under Account Administration - New Account)	\$	185.00
Interval Meter - Field Reading	\$	347.00
High Bill Investigation - If Billing is Correct	\$	213.00

Non-Payment of Account

Late Payment – per month	%	1.5000
Late Payment – per annum	%	19.5600
Collection of account charge – no disconnection	\$	30.00
Disconnect/Reconnect at meter – during regular hours	\$	65.00
Disconnect/Reconnect at meter – after regular hours	\$	185.00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole – after regular hours	\$	415.00

Other

Temporary Service – Install & remove – overhead – no transformer	\$	797.00
Temporary Service – Install & remove – underground – no transformer	\$	1,156.00
Temporary Service – Install & remove – overhead – with transformer	\$	2,840.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	57.00
Dry core transformer distribution charge		Per Attached Table
Service Call - Customer Missed Appointment - during regular hours	\$	65.00
Service Call - Customer Missed Appointment - after regular hours	\$	185.00
Energy Resource Facility Administration Charge - Without Account Set Up (One Time)	\$	127.00
Energy Resource Facility Administration Charge - With Account Set Up (One Time)	\$	157.00

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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RETAIL SERVICE CHARGES (if applicable)

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	117.00
Monthly Fixed Charge, per retailer	\$	24.00
Monthly Variable Charge, per customer, per retailer	\$/cust.	0.6000
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.3500
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.3500)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.30
Processing fee, per request, applied to the requesting party	\$	0.60
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0335
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0164
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0232
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0062

DRAFT - TARIFF OF RATES AND CHARGES

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EB-2015-0004

Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates			\$ 4.8887	\$ 0.1146		\$ 3.8156	
25 KVA 1 PH, 1.2kV BIL	150	900	\$ 0.79	\$ 10.42	\$ 11.20	\$ 0.61	\$ 11.82
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$ 1.05	\$ 13.89	\$ 14.94	\$ 0.82	\$ 15.76
50 KVA 1 PH, 1.2kV BIL	250	1600	\$ 1.34	\$ 17.48	\$ 18.81	\$ 1.04	\$ 19.85
75 KVA 1 PH, 1.2kV BIL	350	1900	\$ 1.78	\$ 24.09	\$ 25.87	\$ 1.39	\$ 27.26
100 KVA 1 PH, 1.2kV BIL	400	2600	\$ 2.15	\$ 28.01	\$ 30.15	\$ 1.68	\$ 31.83
150 KVA 1 PH, 1.2kV BIL	525	3500	\$ 2.84	\$ 36.86	\$ 39.70	\$ 2.22	\$ 41.91
167 KVA 1 PH, 1.2kV BIL	650	4400	\$ 3.54	\$ 45.71	\$ 49.24	\$ 2.76	\$ 52.00
200 KVA 1 PH, 1.2kV BIL	696	4700	\$ 3.78	\$ 48.93	\$ 52.71	\$ 2.95	\$ 55.66
225 KVA 1 PH, 1.2kV BIL	748	5050	\$ 4.06	\$ 52.58	\$ 56.65	\$ 3.17	\$ 59.82
250 KVA 1 PH, 1.2kV BIL	800	5400	\$ 4.35	\$ 56.24	\$ 60.58	\$ 3.39	\$ 63.98
*15 KVA 3 PH, 1.2kV BIL	125	650	\$ 0.63	\$ 8.57	\$ 9.20	\$ 0.49	\$ 9.69
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$ 1.57	\$ 20.84	\$ 22.41	\$ 1.23	\$ 23.63
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$ 2.09	\$ 27.78	\$ 29.88	\$ 1.64	\$ 31.51
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$ 3.09	\$ 41.45	\$ 44.54	\$ 2.41	\$ 46.95
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$ 3.74	\$ 48.96	\$ 52.70	\$ 2.92	\$ 55.62
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$ 4.69	\$ 62.40	\$ 67.09	\$ 3.66	\$ 70.75
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$ 5.68	\$ 76.07	\$ 81.75	\$ 4.44	\$ 86.19
*500 KVA 3 PH, 95kV BIL	2400	7600	\$ 10.79	\$ 159.11	\$ 169.90	\$ 8.42	\$ 178.32
*750 KVA 3 PH, 95kV BIL	3000	12000	\$ 14.14	\$ 201.68	\$ 215.82	\$ 11.04	\$ 226.86
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$ 15.87	\$ 227.90	\$ 243.77	\$ 12.39	\$ 256.16
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$ 21.21	\$ 302.52	\$ 323.73	\$ 16.56	\$ 340.29
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$ 25.30	\$ 362.36	\$ 387.65	\$ 19.74	\$ 407.40
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$ 30.38	\$ 435.86	\$ 466.24	\$ 23.71	\$ 489.95
*3000 KVA 3PH, 95kV BIL	7700	29000	\$ 35.82	\$ 515.64	\$ 551.47	\$ 27.96	\$ 579.43
*3750 KVA 3PH, 95kV BIL	9500	35000	\$ 43.99	\$ 635.31	\$ 679.31	\$ 34.34	\$ 713.64
*5000 KVA 3PH, 95kV BIL	11000	39000	\$ 50.54	\$ 733.92	\$ 784.46	\$ 39.45	\$ 823.91

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

*For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Further servicing details are available in the

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	18.01
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0164
Low Voltage Service Rate	\$/kWh	0.00007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0047

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

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EB-2015-0004

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	28.00
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0214
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	350.00
Distribution Volumetric Rate	\$/kW	3.9251
Low Voltage Service Rate	\$/kW	0.02526
Retail Transmission Rate - Network Service Rate	\$/kW	2.8608
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.8267

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

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APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	5,000.00
Distribution Volumetric Rate	\$/kW	4.0419
Low Voltage Service Rate	\$/kW	0.02700
Retail Transmission Rate - Network Service Rate	\$/kW	2.9704
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.9522

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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LARGE USE SERVICE CLASSIFICATION

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APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	17,900.00
Distribution Volumetric Rate	\$/kW	3.8651
Low Voltage Service Rate	\$/kW	0.03040
Retail Transmission Rate - Network Service Rate	\$/kW	3.2927
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1984

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

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EB-2015-0004

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Qualification for this

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	5.50
Distribution Volumetric Rate	\$/kWh	0.0235
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

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STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	143.00
General Service 50 to 1,4999 kW customer	\$/kW	1.9206
General Service 1,500 to 4,999 kW customer	\$/kW	1.7617
General Service Large User kW customer	\$/kW	1.9550

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	3.25
Distribution Volumetric Rate	\$/kW	12.6891
Low Voltage Service Rate	\$/kW	0.01877
Retail Transmission Rate - Network Service Rate	\$/kW	2.1118
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3570

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2015-0004

STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	0.90
Distribution Volumetric Rate	\$/kW	5.8846
Low Voltage Service Rate	\$/kW	0.01916
Retail Transmission Rate - Network Service Rate	\$/kW	2.1225
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3853

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

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EB-2015-0004

Micro-FIT and Micro-Net-Metering SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	18.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

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EB-2015-0004

FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	121.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

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EB-2015-0004

HCI, RESOP, Other Energy Resource SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	264.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

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EB-2015-0004

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month
Primary Metering Allowance for transformer losses – applied to measured demand and energy

SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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Customer Administration

Arrears certificate	\$	15.00
Duplicate Invoices for previous billing	\$	15.00
Special Billing Service Per Hour (Min 1 hour, 15 min incremental billing thereafter)	\$	97.00
Credit Reference/credit check (plus credit agency costs)	\$	15.00
Unprocessed Payment Charge (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Reconnect at Meter - Regular Hours (Under Account Administration - New Account)	\$	65.00
Reconnect at Meter - After Regular Hours (Under Account Administration - New Account)	\$	185.00
Interval Meter - Field Reading	\$	355.00
High Bill Investigation - If Billing is Correct	\$	218.00

Non-Payment of Account

Late Payment – per month	%	1.5000
Late Payment – per annum	%	19.5600
Collection of account charge – no disconnection	\$	30.00
Disconnect/Reconnect at meter – during regular hours	\$	65.00
Disconnect/Reconnect at meter – after regular hours	\$	185.00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole – after regular hours	\$	415.00

Other

Temporary Service – Install & remove – overhead – no transformer	\$	813.00
Temporary Service – Install & remove – underground – no transformer	\$	1,180.00
Temporary Service – Install & remove – overhead – with transformer	\$	2,900.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	57.00
Dry core transformer distribution charge		Per Attached Table
Service Call - Customer Missed Appointment - during regular hours	\$	65.00
Service Call - Customer Missed Appointment - after regular hours	\$	185.00
Energy Resource Facility Administration Charge - Without Account Set Up (One Time)	\$	130.00
Energy Resource Facility Administration Charge - With Account Set Up (One Time)	\$	160.00

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

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EB-2015-0004

RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	122.00
Monthly Fixed Charge, per retailer	\$	25.00
Monthly Variable Charge, per customer, per retailer	\$/cust.	0.6000
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.3500
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.3500)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.30
Processing fee, per request, applied to the requesting party	\$	0.60
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0335
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0164
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0232
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0062

DRAFT - TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

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EB-2015-0004

Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates			\$ 4.8887	\$ 0.1146		\$ 3.9440	
25 KVA 1 PH, 1.2kV BIL	150	900	\$ 0.79	\$ 10.42	\$ 11.20	\$ 0.63	\$ 11.84
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$ 1.05	\$ 13.89	\$ 14.94	\$ 0.85	\$ 15.78
50 KVA 1 PH, 1.2kV BIL	250	1600	\$ 1.34	\$ 17.48	\$ 18.81	\$ 1.08	\$ 19.89
75 KVA 1 PH, 1.2kV BIL	350	1900	\$ 1.78	\$ 24.09	\$ 25.87	\$ 1.44	\$ 27.30
100 KVA 1 PH, 1.2kV BIL	400	2600	\$ 2.15	\$ 28.01	\$ 30.15	\$ 1.73	\$ 31.89
150 KVA 1 PH, 1.2kV BIL	525	3500	\$ 2.84	\$ 36.86	\$ 39.70	\$ 2.29	\$ 41.99
167 KVA 1 PH, 1.2kV BIL	650	4400	\$ 3.54	\$ 45.71	\$ 49.24	\$ 2.85	\$ 52.09
200 KVA 1 PH, 1.2kV BIL	696	4700	\$ 3.78	\$ 48.93	\$ 52.71	\$ 3.05	\$ 55.76
225 KVA 1 PH, 1.2kV BIL	748	5050	\$ 4.06	\$ 52.58	\$ 56.65	\$ 3.28	\$ 59.93
250 KVA 1 PH, 1.2kV BIL	800	5400	\$ 4.35	\$ 56.24	\$ 60.58	\$ 3.51	\$ 64.09
*15 KVA 3 PH, 1.2kV BIL	125	650	\$ 0.63	\$ 8.57	\$ 9.20	\$ 0.51	\$ 9.71
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$ 1.57	\$ 20.84	\$ 22.41	\$ 1.27	\$ 23.68
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$ 2.09	\$ 27.78	\$ 29.88	\$ 1.69	\$ 31.57
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$ 3.09	\$ 41.45	\$ 44.54	\$ 2.49	\$ 47.03
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$ 3.74	\$ 48.96	\$ 52.70	\$ 3.02	\$ 55.72
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$ 4.69	\$ 62.40	\$ 67.09	\$ 3.78	\$ 70.87
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$ 5.68	\$ 76.07	\$ 81.75	\$ 4.58	\$ 86.34
*500 KVA 3 PH, 95kV BIL	2400	7600	\$ 10.79	\$ 159.11	\$ 169.90	\$ 8.70	\$ 178.61
*750 KVA 3 PH, 95kV BIL	3000	12000	\$ 14.14	\$ 201.68	\$ 215.82	\$ 11.41	\$ 227.23
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$ 15.87	\$ 227.90	\$ 243.77	\$ 12.80	\$ 256.58
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$ 21.21	\$ 302.52	\$ 323.73	\$ 17.11	\$ 340.85
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$ 25.30	\$ 362.36	\$ 387.65	\$ 20.41	\$ 408.06
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$ 30.38	\$ 435.86	\$ 466.24	\$ 24.51	\$ 490.75
*3000 KVA 3PH, 95kV BIL	7700	29000	\$ 35.82	\$ 515.64	\$ 551.47	\$ 28.90	\$ 580.37
*3750 KVA 3PH, 95kV BIL	9500	35000	\$ 43.99	\$ 635.31	\$ 679.31	\$ 35.49	\$ 714.80
*5000 KVA 3PH, 95kV BIL	11000	39000	\$ 50.54	\$ 733.92	\$ 784.46	\$ 40.78	\$ 825.24

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

*For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

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EB-2015-0004

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Further servicing details are available in the

APPLICATION

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	22.44
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0115
Low Voltage Service Rate	\$/kWh	0.00007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0047

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

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EB-2015-0004

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	33.50
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0209
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

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EB-2015-0004

GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	420.00
Distribution Volumetric Rate	\$/kW	3.8265
Low Voltage Service Rate	\$/kW	0.02526
Retail Transmission Rate - Network Service Rate	\$/kW	2.8608
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.8267

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 1,500 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	5,600.00
Distribution Volumetric Rate	\$/kW	4.0925
Low Voltage Service Rate	\$/kW	0.02700
Retail Transmission Rate - Network Service Rate	\$/kW	2.9704
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.9522

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	21,000.00
Distribution Volumetric Rate	\$/kW	3.8126
Low Voltage Service Rate	\$/kW	0.03040
Retail Transmission Rate - Network Service Rate	\$/kW	3.2927
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1984

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Qualification for this

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	6.75
Distribution Volumetric Rate	\$/kWh	0.0223
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2015-0004

STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	150.00
General Service 50 to 1,4999 kW customer	\$/kW	2.0268
General Service 1,500 to 4,999 kW customer	\$/kW	1.8591
General Service Large User kW customer	\$/kW	2.0631

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

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EB-2015-0004

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	3.75
Distribution Volumetric Rate	\$/kW	12.5148
Low Voltage Service Rate	\$/kW	0.01877
Retail Transmission Rate - Network Service Rate	\$/kW	2.1118
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3570

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

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EB-2015-0004

STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	0.95
Distribution Volumetric Rate	\$/kW	6.3578
Low Voltage Service Rate	\$/kW	0.01916
Retail Transmission Rate - Network Service Rate	\$/kW	2.1225
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3853

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

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EB-2015-0004

Micro-FIT and Micro-Net-Metering SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	19.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

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EB-2015-0004

FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	124.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

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EB-2015-0004

HCI, RESOP, Other Energy Resource SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	270.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

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EB-2015-0004

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month
Primary Metering Allowance for transformer losses – applied to measured demand and energy

SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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Customer Administration

Arrears certificate	\$	15.00
Duplicate Invoices for previous billing	\$	15.00
Special Billing Service Per Hour (Min 1 hour, 15 min incremental billing thereafter)	\$	100.00
Credit Reference/credit check (plus credit agency costs)	\$	15.00
Unprocessed Payment Charge (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Reconnect at Meter - Regular Hours (Under Account Administration - New Account)	\$	65.00
Reconnect at Meter - After Regular Hours (Under Account Administration - New Account)	\$	185.00
Interval Meter - Field Reading	\$	362.00
High Bill Investigation - If Billing is Correct	\$	222.00

Non-Payment of Account

Late Payment – per month	%	1.5000
Late Payment – per annum	%	19.5600
Collection of account charge – no disconnection	\$	30.00
Disconnect/Reconnect at meter – during regular hours	\$	65.00
Disconnect/Reconnect at meter – after regular hours	\$	185.00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole – after regular hours	\$	415.00

Other

Temporary Service – Install & remove – overhead – no transformer	\$	830.00
Temporary Service – Install & remove – underground – no transformer	\$	1,205.00
Temporary Service – Install & remove – overhead – with transformer	\$	2,961.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	58.00
Dry core transformer distribution charge		Per Attached Table
Service Call - Customer Missed Appointment - during regular hours	\$	65.00
Service Call - Customer Missed Appointment - after regular hours	\$	185.00
Energy Resource Facility Administration Charge - Without Account Set Up (One Time)	\$	133.00
Energy Resource Facility Administration Charge - With Account Set Up (One Time)	\$	163.00

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

RETAIL SERVICE CHARGES (if applicable)

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	129.00
Monthly Fixed Charge, per retailer	\$	26.00
Monthly Variable Charge, per customer, per retailer	\$/cust.	0.6500
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.4000
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.4000)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.30
Processing fee, per request, applied to the requesting party	\$	0.65
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0335
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0164
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0232
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0062

DRAFT - TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2018

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EB-2015-0004

Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates			\$ 4.8887	\$ 0.1146		\$ 3.9105	
25 KVA 1 PH, 1.2kV BIL	150	900	\$ 0.79	\$ 10.42	\$ 11.20	\$ 0.63	\$ 11.83
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$ 1.05	\$ 13.89	\$ 14.94	\$ 0.84	\$ 15.78
50 KVA 1 PH, 1.2kV BIL	250	1600	\$ 1.34	\$ 17.48	\$ 18.81	\$ 1.07	\$ 19.88
75 KVA 1 PH, 1.2kV BIL	350	1900	\$ 1.78	\$ 24.09	\$ 25.87	\$ 1.42	\$ 27.29
100 KVA 1 PH, 1.2kV BIL	400	2600	\$ 2.15	\$ 28.01	\$ 30.15	\$ 1.72	\$ 31.87
150 KVA 1 PH, 1.2kV BIL	525	3500	\$ 2.84	\$ 36.86	\$ 39.70	\$ 2.27	\$ 41.97
167 KVA 1 PH, 1.2kV BIL	650	4400	\$ 3.54	\$ 45.71	\$ 49.24	\$ 2.83	\$ 52.07
200 KVA 1 PH, 1.2kV BIL	696	4700	\$ 3.78	\$ 48.93	\$ 52.71	\$ 3.03	\$ 55.74
225 KVA 1 PH, 1.2kV BIL	748	5050	\$ 4.06	\$ 52.58	\$ 56.65	\$ 3.25	\$ 59.90
250 KVA 1 PH, 1.2kV BIL	800	5400	\$ 4.35	\$ 56.24	\$ 60.58	\$ 3.48	\$ 64.06
*15 KVA 3 PH, 1.2kV BIL	125	650	\$ 0.63	\$ 8.57	\$ 9.20	\$ 0.50	\$ 9.70
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$ 1.57	\$ 20.84	\$ 22.41	\$ 1.26	\$ 23.67
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$ 2.09	\$ 27.78	\$ 29.88	\$ 1.68	\$ 31.55
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$ 3.09	\$ 41.45	\$ 44.54	\$ 2.47	\$ 47.01
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$ 3.74	\$ 48.96	\$ 52.70	\$ 3.00	\$ 55.70
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$ 4.69	\$ 62.40	\$ 67.09	\$ 3.75	\$ 70.84
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$ 5.68	\$ 76.07	\$ 81.75	\$ 4.55	\$ 86.30
*500 KVA 3 PH, 95kV BIL	2400	7600	\$ 10.79	\$ 159.11	\$ 169.90	\$ 8.63	\$ 178.53
*750 KVA 3 PH, 95kV BIL	3000	12000	\$ 14.14	\$ 201.68	\$ 215.82	\$ 11.31	\$ 227.13
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$ 15.87	\$ 227.90	\$ 243.77	\$ 12.69	\$ 256.47
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$ 21.21	\$ 302.52	\$ 323.73	\$ 16.97	\$ 340.70
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$ 25.30	\$ 362.36	\$ 387.65	\$ 20.24	\$ 407.89
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$ 30.38	\$ 435.86	\$ 466.24	\$ 24.30	\$ 490.54
*3000 KVA 3PH, 95kV BIL	7700	29000	\$ 35.82	\$ 515.64	\$ 551.47	\$ 28.66	\$ 580.12
*3750 KVA 3PH, 95kV BIL	9500	35000	\$ 43.99	\$ 635.31	\$ 679.31	\$ 35.19	\$ 714.50
*5000 KVA 3PH, 95kV BIL	11000	39000	\$ 50.54	\$ 733.92	\$ 784.46	\$ 40.43	\$ 824.89

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

*For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Further servicing details are available in the

APPLICATION

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	26.98
Distribution Volumetric Rate	\$/kWh	0.0060
Low Voltage Service Rate	\$/kWh	0.00007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0047

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	39.00
Distribution Volumetric Rate	\$/kWh	0.0200
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	490.00
Distribution Volumetric Rate	\$/kW	3.6735
Low Voltage Service Rate	\$/kW	0.02526
Retail Transmission Rate - Network Service Rate	\$/kW	2.8608
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.8267

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 1,500 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	6,600.00
Distribution Volumetric Rate	\$/kW	3.9077
Low Voltage Service Rate	\$/kW	0.02700
Retail Transmission Rate - Network Service Rate	\$/kW	2.9704
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.9522

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	24,500.00
Distribution Volumetric Rate	\$/kW	3.6633
Low Voltage Service Rate	\$/kW	0.03040
Retail Transmission Rate - Network Service Rate	\$/kW	3.2927
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1984

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

This schedule supersedes and replaces all previously
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EB-2015-0004

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Qualification for this

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	7.25
Distribution Volumetric Rate	\$/kWh	0.0227
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	160.00
General Service 50 to 1,4999 kW customer	\$/kW	2.0941
General Service 1,500 to 4,999 kW customer	\$/kW	1.9208
General Service Large User kW customer	\$/kW	2.1316

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	4.25
Distribution Volumetric Rate	\$/kW	12.2397
Low Voltage Service Rate	\$/kW	0.01877
Retail Transmission Rate - Network Service Rate	\$/kW	2.1118
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3570

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	1.00
Distribution Volumetric Rate	\$/kW	6.7566
Low Voltage Service Rate	\$/kW	0.01916
Retail Transmission Rate - Network Service Rate	\$/kW	2.1225
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3853

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

Micro-FIT and Micro-Net-Metering SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	19.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	126.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

HCI, RESOP, Other Energy Resource SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	276.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month
Primary Metering Allowance for transformer losses – applied to measured demand and energy

SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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Customer Administration

Arrears certificate	\$	15.00
Duplicate Invoices for previous billing	\$	15.00
Special Billing Service Per Hour (Min 1 hour, 15 min incremental billing thereafter)	\$	102.00
Credit Reference/credit check (plus credit agency costs)	\$	15.00
Unprocessed Payment Charge (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Reconnect at Meter - Regular Hours (Under Account Administration - New Account)	\$	65.00
Reconnect at Meter - After Regular Hours (Under Account Administration - New Account)	\$	185.00
Interval Meter - Field Reading	\$	370.00
High Bill Investigation - If Billing is Correct	\$	227.00

Non-Payment of Account

Late Payment – per month	%	1.5000
Late Payment – per annum	%	19.5600
Collection of account charge – no disconnection	\$	30.00
Disconnect/Reconnect at meter – during regular hours	\$	65.00
Disconnect/Reconnect at meter – after regular hours	\$	185.00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole – after regular hours	\$	415.00

Other

Temporary Service – Install & remove – overhead – no transformer	\$	848.00
Temporary Service – Install & remove – underground – no transformer	\$	1,230.00
Temporary Service – Install & remove – overhead – with transformer	\$	3,023.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	58.00
Dry core transformer distribution charge		Per Attached Table
Service Call - Customer Missed Appointment - during regular hours	\$	65.00
Service Call - Customer Missed Appointment - after regular hours	\$	185.00
Energy Resource Facility Administration Charge - Without Account Set Up (One Time)	\$	135.00
Energy Resource Facility Administration Charge - With Account Set Up (One Time)	\$	165.00

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	135.00
Monthly Fixed Charge, per retailer	\$	27.00
Monthly Variable Charge, per customer, per retailer	\$/cust.	0.6500
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.4000
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.4000)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.35
Processing fee, per request, applied to the requesting party	\$	0.65
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0335
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0164
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0232
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0062

DRAFT - TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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EB-2015-0004

Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh	Total Monthly cost of power	Cost of Distributio n per kW	Total
Rates			\$ 4.8887	\$ 0.1146		\$ 3.7482	
25 KVA 1 PH, 1.2kV BIL	150	900	\$ 0.79	\$ 10.42	\$ 11.20	\$ 0.60	\$ 11.81
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$ 1.05	\$ 13.89	\$ 14.94	\$ 0.80	\$ 15.74
50 KVA 1 PH, 1.2kV BIL	250	1600	\$ 1.34	\$ 17.48	\$ 18.81	\$ 1.02	\$ 19.84
75 KVA 1 PH, 1.2kV BIL	350	1900	\$ 1.78	\$ 24.09	\$ 25.87	\$ 1.37	\$ 27.23
100 KVA 1 PH, 1.2kV BIL	400	2600	\$ 2.15	\$ 28.01	\$ 30.15	\$ 1.65	\$ 31.80
150 KVA 1 PH, 1.2kV BIL	525	3500	\$ 2.84	\$ 36.86	\$ 39.70	\$ 2.18	\$ 41.88
167 KVA 1 PH, 1.2kV BIL	650	4400	\$ 3.54	\$ 45.71	\$ 49.24	\$ 2.71	\$ 51.95
200 KVA 1 PH, 1.2kV BIL	696	4700	\$ 3.78	\$ 48.93	\$ 52.71	\$ 2.90	\$ 55.61
225 KVA 1 PH, 1.2kV BIL	748	5050	\$ 4.06	\$ 52.58	\$ 56.65	\$ 3.12	\$ 59.76
250 KVA 1 PH, 1.2kV BIL	800	5400	\$ 4.35	\$ 56.24	\$ 60.58	\$ 3.33	\$ 63.92
*15 KVA 3 PH, 1.2kV BIL	125	650	\$ 0.63	\$ 8.57	\$ 9.20	\$ 0.48	\$ 9.68
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$ 1.57	\$ 20.84	\$ 22.41	\$ 1.20	\$ 23.61
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$ 2.09	\$ 27.78	\$ 29.88	\$ 1.61	\$ 31.48
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$ 3.09	\$ 41.45	\$ 44.54	\$ 2.37	\$ 46.91
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$ 3.74	\$ 48.96	\$ 52.70	\$ 2.87	\$ 55.57
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$ 4.69	\$ 62.40	\$ 67.09	\$ 3.59	\$ 70.68
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$ 5.68	\$ 76.07	\$ 81.75	\$ 4.36	\$ 86.11
*500 KVA 3 PH, 95kV BIL	2400	7600	\$ 10.79	\$ 159.11	\$ 169.90	\$ 8.27	\$ 178.18
*750 KVA 3 PH, 95kV BIL	3000	12000	\$ 14.14	\$ 201.68	\$ 215.82	\$ 10.84	\$ 226.66
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$ 15.87	\$ 227.90	\$ 243.77	\$ 12.17	\$ 255.94
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$ 21.21	\$ 302.52	\$ 323.73	\$ 16.26	\$ 340.00
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$ 25.30	\$ 362.36	\$ 387.65	\$ 19.40	\$ 407.05
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$ 30.38	\$ 435.86	\$ 466.24	\$ 23.29	\$ 489.53
*3000 KVA 3PH, 95kV BIL	7700	29000	\$ 35.82	\$ 515.64	\$ 551.47	\$ 27.47	\$ 578.93
*3750 KVA 3PH, 95kV BIL	9500	35000	\$ 43.99	\$ 635.31	\$ 679.31	\$ 33.73	\$ 713.04
*5000 KVA 3PH, 95kV BIL	11000	39000	\$ 50.54	\$ 733.92	\$ 784.46	\$ 38.75	\$ 823.21

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

*For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2015-0004

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Further servicing details are available in the

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	31.29
Distribution Volumetric Rate	\$/kWh	0.0000
Low Voltage Service Rate	\$/kWh	0.00007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0047

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	44.00
Distribution Volumetric Rate	\$/kWh	0.0188
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	550.00
Distribution Volumetric Rate	\$/kW	3.4709
Low Voltage Service Rate	\$/kW	0.02526
Retail Transmission Rate - Network Service Rate	\$/kW	2.8608
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.8267

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2015-0004

GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 1,500 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	7,600.00
Distribution Volumetric Rate	\$/kW	3.6208
Low Voltage Service Rate	\$/kW	0.02700
Retail Transmission Rate - Network Service Rate	\$/kW	2.9704
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.9522

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	27,900.00
Distribution Volumetric Rate	\$/kW	3.4206
Low Voltage Service Rate	\$/kW	0.03040
Retail Transmission Rate - Network Service Rate	\$/kW	3.2927
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1984

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2015-0004

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Qualification for this

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	7.50
Distribution Volumetric Rate	\$/kWh	0.0229
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2015-0004

STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	165.00
General Service 50 to 1,4999 kW customer	\$/kW	2.1407
General Service 1,500 to 4,999 kW customer	\$/kW	1.9635
General Service Large User kW customer	\$/kW	2.1790

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2015-0004

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	4.50
Distribution Volumetric Rate	\$/kW	12.2322
Low Voltage Service Rate	\$/kW	0.01877
Retail Transmission Rate - Network Service Rate	\$/kW	2.1118
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3570

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	1.05
Distribution Volumetric Rate	\$/kW	6.9249
Low Voltage Service Rate	\$/kW	0.01916
Retail Transmission Rate - Network Service Rate	\$/kW	2.1225
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3853

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2015-0004

Micro-FIT and Micro-Net-Metering SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	19.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2015-0004

FIT SERVICE CLASSIFICATION

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APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	129.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2015-0004

HCI, RESOP, Other Energy Resource SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's or Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	281.00
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Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2015-0004

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month
Primary Metering Allowance for transformer losses – applied to measured demand and energy

SPECIFIC SERVICE CHARGES

APPLICATION

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Customer Administration

Arrears certificate	\$	15.00
Duplicate Invoices for previous billing	\$	15.00
Special Billing Service Per Hour (Min 1 hour, 15 min incremental billing thereafter)	\$	104.00
Credit Reference/credit check (plus credit agency costs)	\$	15.00
Unprocessed Payment Charge (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Reconnect at Meter - Regular Hours (Under Account Administration - New Account)	\$	65.00
Reconnect at Meter - After Regular Hours (Under Account Administration - New Account)	\$	185.00
Interval Meter - Field Reading	\$	378.00
High Bill Investigation - If Billing is Correct	\$	232.00

Non-Payment of Account

Late Payment – per month	%	1.5000
Late Payment – per annum	%	19.5600
Collection of account charge – no disconnection	\$	30.00
Disconnect/Reconnect at meter – during regular hours	\$	65.00
Disconnect/Reconnect at meter – after regular hours	\$	185.00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole – after regular hours	\$	415.00

Other

Temporary Service – Install & remove – overhead – no transformer	\$	866.00
Temporary Service – Install & remove – underground – no transformer	\$	1,256.00
Temporary Service – Install & remove – overhead – with transformer	\$	3,087.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	58.00
Dry core transformer distribution charge		Per Attached Table
Service Call - Customer Missed Appointment - during regular hours	\$	65.00
Service Call - Customer Missed Appointment - after regular hours	\$	185.00
Energy Resource Facility Administration Charge - Without Account Set Up (One Time)	\$	138.00
Energy Resource Facility Administration Charge - With Account Set Up (One Time)	\$	168.00

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2015-0004

RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	140.00
Monthly Fixed Charge, per retailer	\$	28.00
Monthly Variable Charge, per customer, per retailer	\$/cust.	0.7000
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.4000
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.4000)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.35
Processing fee, per request, applied to the requesting party	\$	0.70
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0335
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0164
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0232
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0062

DRAFT - TARIFF OF RATES AND CHARGES

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EB-2015-0004

Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates			\$ 4.8887	\$ 0.1146		\$ 3.5041	
25 KVA 1 PH, 1.2kV BIL	150	900	\$ 0.79	\$ 10.42	\$ 11.20	\$ 0.56	\$ 11.77
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$ 1.05	\$ 13.89	\$ 14.94	\$ 0.75	\$ 15.69
50 KVA 1 PH, 1.2kV BIL	250	1600	\$ 1.34	\$ 17.48	\$ 18.81	\$ 0.96	\$ 19.77
75 KVA 1 PH, 1.2kV BIL	350	1900	\$ 1.78	\$ 24.09	\$ 25.87	\$ 1.28	\$ 27.14
100 KVA 1 PH, 1.2kV BIL	400	2600	\$ 2.15	\$ 28.01	\$ 30.15	\$ 1.54	\$ 31.69
150 KVA 1 PH, 1.2kV BIL	525	3500	\$ 2.84	\$ 36.86	\$ 39.70	\$ 2.04	\$ 41.73
167 KVA 1 PH, 1.2kV BIL	650	4400	\$ 3.54	\$ 45.71	\$ 49.24	\$ 2.53	\$ 51.77
200 KVA 1 PH, 1.2kV BIL	696	4700	\$ 3.78	\$ 48.93	\$ 52.71	\$ 2.71	\$ 55.42
225 KVA 1 PH, 1.2kV BIL	748	5050	\$ 4.06	\$ 52.58	\$ 56.65	\$ 2.91	\$ 59.56
250 KVA 1 PH, 1.2kV BIL	800	5400	\$ 4.35	\$ 56.24	\$ 60.58	\$ 3.12	\$ 63.70
*15 KVA 3 PH, 1.2kV BIL	125	650	\$ 0.63	\$ 8.57	\$ 9.20	\$ 0.45	\$ 9.65
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$ 1.57	\$ 20.84	\$ 22.41	\$ 1.13	\$ 23.53
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$ 2.09	\$ 27.78	\$ 29.88	\$ 1.50	\$ 31.38
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$ 3.09	\$ 41.45	\$ 44.54	\$ 2.21	\$ 46.76
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$ 3.74	\$ 48.96	\$ 52.70	\$ 2.68	\$ 55.38
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$ 4.69	\$ 62.40	\$ 67.09	\$ 3.36	\$ 70.45
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$ 5.68	\$ 76.07	\$ 81.75	\$ 4.07	\$ 85.82
*500 KVA 3 PH, 95kV BIL	2400	7600	\$ 10.79	\$ 159.11	\$ 169.90	\$ 7.73	\$ 177.64
*750 KVA 3 PH, 95kV BIL	3000	12000	\$ 14.14	\$ 201.68	\$ 215.82	\$ 10.14	\$ 225.96
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$ 15.87	\$ 227.90	\$ 243.77	\$ 11.37	\$ 255.15
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$ 21.21	\$ 302.52	\$ 323.73	\$ 15.20	\$ 338.94
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$ 25.30	\$ 362.36	\$ 387.65	\$ 18.13	\$ 405.79
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$ 30.38	\$ 435.86	\$ 466.24	\$ 21.77	\$ 488.01
*3000 KVA 3PH, 95kV BIL	7700	29000	\$ 35.82	\$ 515.64	\$ 551.47	\$ 25.68	\$ 577.14
*3750 KVA 3PH, 95kV BIL	9500	35000	\$ 43.99	\$ 635.31	\$ 679.31	\$ 31.53	\$ 710.84
*5000 KVA 3PH, 95kV BIL	11000	39000	\$ 50.54	\$ 733.92	\$ 784.46	\$ 36.23	\$ 820.69

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

*For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard



Undertaking JTC2.5

To check the change in distribution charge as reflected as a percentage increase between the years 2015 and 2020; to confirm whether the numbers put to them for distribution charge for 2015 as 617.73, and for 2020 as 899.30 are correct

Response:

Hydro Ottawa reconfirms its calculation of SEC #9. As discussed at the Technical Conference, Hydro Ottawa agrees with the Fixed and Variable charge as calculated by the Schools Energy Coalition however did not calculate the same dollar from 2016 through 2020. SEC#9 stated five year increase would be \$10,814.56, a 45.6% increase. Hydro Ottawa calculates \$3,378.84, a 45.6% increase. Hydro Ottawa stated the wrong % increase in the original answer. Below in Table 1 is the yearly comparison.

Table 1 – Yearly Rate Impacts - GS 50 to 1,499 KW (100KW/51,100 kWh)

	2015	2016	2017	2018	2019	2020
Distribution Charge - Fixed	\$ 3,129.84	\$ 3,480.00	\$ 4,260.00	\$ 5,040.00	\$ 5,880.00	\$ 6,600.00
Distribution Charge - Variable	\$ 4,282.92	\$ 4,734.48	\$ 4,675.44	\$ 4,595.88	\$ 4,421.04	\$ 4,191.60
Distribution Charge - Total No RA	\$ 7,412.76	\$ 8,214.48	\$ 8,935.44	\$ 9,635.88	\$10,301.04	\$ 10,791.60
Change in Distribution Charge		\$ 801.72	\$ 720.96	\$ 700.44	\$ 665.16	\$ 490.56
% Distribution Increase		10.8%	8.8%	7.8%	6.9%	4.8%
Total Bill - not including taxes	\$85,622.68	\$85,622.68	\$87,023.71	\$87,724.23	\$88,389.41	\$ 88,879.98
Total Bill - including taxes	\$96,762.97	\$96,753.63	\$98,336.80	\$99,128.37	\$99,880.03	\$100,434.38
Change in Total Bill		-\$ 9.35	\$ 1,583.17	\$ 791.58	\$ 751.66	\$ 554.35
% Increase of Total Bill		-0.01%	1.64%	0.80%	0.76%	0.56%



1 **Undertaking JTC2.6**

2

3 To provide a table for the period 2006 to 2020, as set out in SEC-11(b)

4

5

6 **Response:**

7

8 Please refer to Attached ATT-JTC2.6-A for the kWh and kW per customer for each rate
9 class for the period 2006-2020.

kWh and KW per average Customers/Connections

	2006 Actual	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual
RESIDENTIAL								
# of Customers	254,245	258,262	262,786	267,225	271,603	275,966	280,254	284,964
kWh	2,226,415,669	2,234,039,085	2,226,078,653	2,256,567,858	2,272,250,475	2,234,713,436	2,302,188,900	2,256,501,094
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Customers per								
kWh	730	721	706	704	697	675	685	660
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GENERAL SERVICE <50KW								
# of Customers	23,026	23,182	23,306	23,312	23,434	23,616	23,767	23,936
kWh	747,556,928	748,535,000	742,015,251	731,102,854	726,404,260	739,010,962	702,625,952	720,479,340
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Customers per								
kWh	2,705	2,691	2,653	2,613	2,583	2,608	2,464	2,508
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GENERAL SERVICE 50-1499KW								
# of Customers	3,222	3,219	3,258	3,279	3,279	3,353	3,416	3,408
kWh	2,963,912,000	2,993,851,000	3,020,846,000	3,026,785,829	3,017,286,579	3,048,894,932	2,982,426,722	3,006,131,060
kW	7,159,172	7,259,736	7,241,479	7,235,347	7,378,592	7,265,547	7,288,884	7,292,973
Customers per								
kWh	76,658	77,505	77,267	76,923	76,682	75,775	72,756	73,507
kW	185	188	185	184	188	181	178	178
GENERAL SERVICE 1500-5000 KW								
# of Customers	64	66	67	67	66	69	74	76
kWh	821,669,000	843,570,000	845,348,000	850,115,403	829,445,944	858,201,114	870,903,316	857,551,218
kW	1,752,702	1,808,250	1,764,993	1,765,293	1,756,217	1,827,188	1,864,369	1,866,871
Customers per								
kWh	1,069,882	1,065,114	1,051,428	1,057,357	1,047,280	1,036,475	980,747	940,297
kW	2,282	2,283	2,195	2,196	2,217	2,207	2,100	2,047
LARGE USER								
# of Customers	11	11	11	11	12	11	11	11
kWh	654,954,633	666,074,028	665,877,785	633,982,714	685,666,594	662,045,474	646,432,433	613,513,830
kW	1,180,104	1,203,247	1,190,146	1,150,430	1,224,829	1,182,395	1,178,836	1,135,342
Customers per								
kWh	4,961,778	5,046,015	5,044,529	4,802,899	4,761,574	5,015,496	4,897,215	4,647,832
kW	8,940	9,116	9,016	8,715	8,506	8,958	8,931	8,601
STREETLIGHTING								
# of Connections	45,718	47,006	50,784	51,222	54,395	54,679	55,674	55,757
kWh	36,132,554	40,590,919	37,459,213	38,843,816	43,535,081	43,718,587	44,699,159	44,767,415
kW	105,451	109,808	112,373	113,406	120,823	121,360	123,332	123,947
Customers per								
kWh	66	72	61	63	67	67	67	67
kW	0.19	0.19	0.18	0.18	0.19	0.18	0.18	0.19
UMSL								
# of Connections	2,494	3,019	2,862	2,896	2,907	3,183	3,384	3,376
kWh	12,722,000	18,134,000	21,294,526	19,879,033	17,309,021	18,044,101	17,594,132	17,054,550
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Customers per								
kWh	425	501	620	572	496	472	433	421
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SENTINEL LIGHTS								
# of Connections	97	95	80	77	73	65	61	57
kWh	92,512	87,302	83,264	83,095	74,233	64,267	59,894	49,020
kW	257	243	231	231	206	179	166	139
Customers per								
kWh	79	77	87	90	85	82	82	72
kW	0.22	0.21	0.24	0.25	0.24	0.23	0.23	0.20
STANDBY								
# of Customers							2	2
kWh								
kW								
Customers per								
kWh	NA	NA	NA	NA	NA	NA	NA	NA
kW							-	-

	2014 Actual	2015 Bridge	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year	2020 Test Year
RESIDENTIAL							
# of Customers	289,385	293,366	297,343	301,258	305,144	308,990	312,786
kWh	2,241,029,046	2,233,419,000	2,216,045,000	2,198,259,000	2,206,411,000	2,214,984,000	2,217,628,000
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Customers per							
kWh	645	634	621	608	603	597	591
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GENERAL SERVICE <50KW							
# of Customers	23,968	24,099	24,512	24,626	24,739	24,850	24,959
kWh	714,938,854	705,279,000	726,360,000	716,896,000	709,791,000	704,193,000	699,744,000
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Customers per							
kWh	2,486	2,439	2,469	2,426	2,391	2,361	2,336
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GENERAL SERVICE 50-1499K							
# of Customers	3,514	3,549	3,296	3,323	3,351	3,380	3,408
kWh	2,925,639,578	2,957,727,000	2,954,441,000	2,907,445,000	2,875,422,000	2,852,593,000	2,835,387,000
kW	7,052,272	7,070,781	7,027,979	6,908,640	6,824,350	6,761,930	6,711,579
Customers per							
kWh	69,381	69,450	74,698	72,912	71,507	70,330	69,332
kW	167	166	178	173	170	167	164
GENERAL SERVICE 1500-500K							
# of Customers	87	88	76	76	76	76	76
kWh	872,269,484	883,242,000	863,309,000	877,400,000	895,369,000	914,569,000	935,554,000
kW	1,874,998	1,885,562	1,885,562	1,885,562	1,885,562	1,885,562	1,885,562
Customers per							
kWh	835,507	836,403	946,611	962,061	981,764	1,002,817	1,025,827
kW	1,796	1,786	2,068	2,068	2,068	2,068	2,068
LARGE USER							
# of Customers	11	11	11	11	11	11	11
kWh	607,320,659	620,305,000	620,218,000	619,253,000	618,467,000	617,036,000	615,195,000
kW	1,117,860	1,121,629	1,121,449	1,119,726	1,118,300	1,115,702	1,112,342
Customers per							
kWh	4,600,914	4,699,280	4,698,621	4,691,311	4,685,356	4,674,515	4,660,568
kW	8,469	8,497	8,496	8,483	8,472	8,452	8,427
STREETLIGHTING							
# of Connections	55,524	55,516	55,516	55,516	55,516	55,516	55,516
kWh	44,363,900	43,501,000	43,552,000	43,653,000	43,765,000	43,876,000	44,015,000
kW	122,870	123,144	123,144	123,144	123,144	123,144	123,144
Customers per							
kWh	67	65	65	66	66	66	66
kW	0.18	0.18	0.18	0.18	0.18	0.18	0.18
UMSL							
# of Connections	3,438	3,444	3,477	3,525	3,573	3,621	3,669
kWh	16,412,499	16,651,000	16,651,000	16,651,000	16,651,000	16,651,000	16,651,000
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Customers per							
kWh	398	403	399	394	388	383	378
kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SENTINEL LIGHTS							
# of Connections	57	57	55	51	47	43	39
kWh	50,344	48,000	48,000	48,000	48,000	48,000	48,000
kW	175	216	216	216	216	216	216
Customers per							
kWh	74	70	73	78	85	93	103
kW	0.26	0.32	0.33	0.35	0.38	0.42	0.46
STANDBY							
# of Customers	2	2	2	2	2	2	2
kWh							
kW		4,800	4,800	4,800	4,800	4,800	4,800
Customers per							
kWh	NA	NA	NA	NA	NA	NA	NA
kW	-	200	200	200	200	200	200



1 **Undertaking JTC2.9**

2

3 To provide the spreadsheet used to calculate the third and fourth lines of table 1.

4

5

6 **Response:**

7

8 Please see Attachment 1 for the requested excel spreadsheet.

9

AS ORIGINALLY FILED IN OEB # 2

(\$000s)	2016	2017	2018	2019	2020	Total
HOL Custom IR capital funding request only	\$120,168	\$114,245	\$113,344	\$120,983	\$119,537	\$588,277
Estimated Annual Net Income under price cap (ROE)	\$34,347	\$29,197	\$23,560	\$18,375	\$16,834	\$122,313
Net Income as a percent of Capital Requirements	28.60%	25.60%	20.80%	15.20%	14.10%	N/A

Line 1	2016	2017	2018	2019	2020	Total
System access	\$36,263	\$35,156	\$35,132	\$35,835	\$36,551	\$178,937
system renewal	\$41,033	\$31,823	\$36,491	\$35,980	\$35,718	\$181,045
System service	\$22,235	\$33,957	\$29,518	\$30,473	\$33,314	\$149,497
General plant	\$20,637	\$13,309	\$12,203	\$18,695	\$13,954	\$78,798
Total	\$120,168	\$114,245	\$113,344	\$120,983	\$119,537	\$588,277

Line 2	2016	2017	2018	2019	2020	Total
Estimated Revenue Forecast under Price Cap	\$176,694	\$179,875	\$183,112	\$186,408	\$189,764	\$915,853
Hydro Ottawa Revenue Requirement from rates	\$176,694	\$186,784	\$197,507	\$207,120	\$213,637	\$981,742
Revenue deficiency	\$0	-\$6,909	-\$14,395	-\$20,712	-\$23,873	-\$65,889
Estimated Price Cap ROE*	\$34,347	\$34,347	\$34,347	\$34,347	\$34,347	\$171,735
Minus Revenue deficiency		-\$6,909	-\$14,395	-\$20,712	-\$23,873	-\$65,889
Estimated Annual Net Income under Price Cap (ROE)	\$34,347	\$27,438	\$19,952	\$13,635	\$10,474	\$105,846

	2016	2017	2018	2019	2020	Total
HOL Custom IR capital funding request only	\$120,168	\$114,245	\$113,344	\$120,983	\$119,537	\$588,277
Estimated Annual Net Income under price cap (ROE)	\$34,347	\$27,438	\$19,952	\$13,635	\$10,474	\$105,846
Net Income as a percent of Capital Requirements	28.58%	24.02%	17.60%	11.27%	8.76%	17.99%

* Assumes flat growth



NON-CONFIDENTIAL

Undertaking JTC2.14

To provide the calculations for the compensation numbers reflected in table 1, page 6 of 8, response to OEB Staff 7.

Response:

The calculations for the compensation numbers reflected in table 1, page 6 of 8, response to OEB Staff 7 are outlined below. These amounts are forecasts only as the collective bargaining process to renew the current collective agreement which is in effect from April 1, 2013 until March 31, 2017 has not yet commenced and the Board of Directors has not been engaged in the provision of a mandate. The amount forecasted for wages takes into consideration both negotiated and merit increases, as well as annual step progressions for unionized employees only. The benefits amount forecasts include both insured premiums and statutory contributions. The assumptions include a flat headcount, a vacancy allowance of 3%, combined negotiated, merit and unionized step progressions of # # #, and benefits increases consistent with the 2015 and 2016 forecasts. Table 1 below shows the split of the compensation increase between wages and benefits.

Table 1: Compensation Forecasts (in millions)

	2017	2018	2019	2020
Year-over-Year Compensation Increases	\$2.2	\$2.3	\$2.3	\$2.5
i. <i>Wages</i> – negotiated and merit increases, unionized step progressions	\$ #	\$ #	\$ #	\$ #
ii. <i>Benefits</i> – insured, statutory	\$ #	\$ #	\$ #	\$ #

denotes information filed in confidence.



1 **Undertaking JTC2.18**

2
3 With reference to page 15, to break down capital expenditures already made and other
4 cost increases
5

6
7
8 **Response:**
9

10 Hydro Ottawa cannot break down the 7% - 10% increase in rates between capital
11 expenditures and other costs. Hydro Ottawa has not been able to find the detailed
12 working papers that show the calculation contained on page 15 in the Board
13 presentation. The calculation being referred to is in the footnote on page 15 which
14 states; "Of this percentage increase, approximately 7 – 10% is required for payment of
15 capital expenditures in 2012 through 2015 and other cost increases" (This statement is
16 in reference to the Estimated Distribution Rate Impact in 2016 of approx.12% to 15%).
17 Without the detailed information supporting the 7% - 10% calculation Hydro Ottawa is
18 unable to respond to this undertaking.
19



1 **Undertaking JTC2.22**

2
3 With reference to CCC no.8 Figure 1, using the 25-line 2016 budget, identify which
4 category those items are in and, if some of them are in both, what the breakdown is.

5
6 **Response:**

7
8 The 25-line 2016 budget as stated in the undertaking is interpreted as the Appendix 2-
9 JC.

10
11 The pie chart referenced in D-1-2 and Interrogatory Response to CCC #8 was an
12 analysis conducted during the 2014 budget process. The data was based on 2011,
13 2012, and 2013 actual results. The purpose was to set a base level of information for
14 analysis and reviews for productivity improvements and/or cost containment as required.
15 It provided a good estimation of the costs broken down in the four categories and is still
16 relevant to current budget.

17
18 Table 1 below provides the percentage split estimates between Compensation, Non-
19 Discretionary, Controllable and Discretionary for each program listed in Appendix 2-JC.

20
21 Table 2 applies the percentages from Table 1 to the 2016 budget to show the estimated
22 dollars per program per category.



1

Table 1: Program OM&A by Category (%)

	Compensation	Non-Discretionary	Controllable	Discretionary
Collections, Acct & Activities	47%	52%	1%	0%
Corporate Costs	26%	63%	10%	1%
Customer & Community Relations	52%	37%	11%	0%
Customer Billing	33%	66%	1%	0%
Distribution Operations	79%	15%	6%	0%
Engineering & Design	86%	2%	12%	0%
Facilities	12%	34%	51%	3%
Finance	89%	4%	3%	4%
Human Resources & Training	62%	7%	31%	0%
Information Mgt & Technology	60%	24%	13%	3%
Metering	96%	0%	4%	0%
Regulatory Affairs	39%	54%	0%	7%
Safety, Environment & Bus Cont	86%	0%	14%	0%
Supply Chain	75%	14%	9%	2%

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Table 2: Program OM&A by Category (estimated \$)

	Compensation	Non-Discretionary	Controllable	Discretionary	Total
Collections, Acct & Activities	1,914	2,099	47	-	4,059
Corporate Costs	1,310	3,124	513	46	4,993
Customer & Community Relations	4,768	3,350	967	-	9,085
Customer Billing	3,464	6,881	69	-	10,414
Distribution Operations	15,332	2,858	1,215	-	19,405
Engineering & Design	6,987	159	1,015	-	8,160
Facilities	707	2,098	3,122	182	6,109
Finance	4,215	202	157	186	4,760
Human Resources & Training	2,522	295	1,273	2	4,093
Information Mgt & Technology	4,568	1,837	990	221	7,616
Metering	2,436	0	95	-	2,532
Regulatory Affairs	996	1,399	-	186	2,581
Safety, Environment & Bus Cont	1,720	-	281	5	2,006
Supply Chain	969	181	119	23	1,292
Total	51,908	24,481	9,864	853	87,106

2



Undertaking JTC2.29

With respect to the table provided in response to CCC-32, to add two columns to this table showing the in-service date for those that are not currently in service, And the second column would be a yes or a no as to whether they're currently included in rate base .

Response:

The below table has been updated with a column for planned in-service date and the year the project was [forecasted] to be in rate base.

Table JTC2.29 -1

Initial Hydro One Payments	Planned in Service Date	Year in Rate Base	Cost
Merivale DS Rebuild	2019	2019	\$30,000
Marchwood DESN	2014	2014	\$172,339
Hinchey New Switchgear Lineup	2015	2015	\$291,530
Lisgar Transformation Upgrade	2017	2017	\$100,000
Orleans TS Egress	2015	2015	\$1,454,956
True-up Payments			
Cyrville MTS *	2014	2015	\$4,000,000
Hawthorne 115kV Lines CCRA	2015	2015	\$11,700,000
Limebank Transformation upgrade	2015	2015	\$ (67,025)
Total			\$17,681,799

*CCRA true up payments are capitalized in the year payment is made



Undertaking JTC2.30

To provide a historical spending average using three years, four years, and five years.

Response:

Table JTC2.30 – 1: Damage to Plant Expenditures by Year

	Actual 2010	Actual 2011	Actual 2012	Actual 2013	Actual 2014
Damage to Plant	837,021	826,038	798,353	1,348,994	870,197

Table JTC.2.30 – 2: Damage to Plant Expenditure Averages

Years	Average
5 Year 2010 – 2014	936,121
4 Year 2011 – 2014	960,896
3 Year 2012 – 2014	1,005,848
2 Year 2013 – 2014	1,109,596



Undertaking JTC2.37

To provide, on table 4.3 revised, how many of the five apprentice positions shown for 2015 were in place before the April 23rd, 2015 budget.

Response:

None of the five apprentice positions show for 2015 in Table 4.3 Revised were in place before the April 23rd, 2015 Ontario budget. The apprentices started with Hydro Ottawa in June & July 2015.



1 **Undertaking JTC2.41**

2
3 If there is anything beyond that is being proposed to change as a result of the Technical-
4 Conference questions, update the revenue-requirement work forms.
5

6
7
8 **Response:**

9
10 Hydro Ottawa Limited is not proposing changes as a result of the Technical Conference.
11 As a result, no new revenue requirement work forms have been completed.



1 **Undertaking JTC2.43**

2
3 With respect to CCC No. 55, to advise the estimated market value of the properties
4 being replaced, and to provide the full appraisal reports

5
6
7 **Response:**

8
9 The appraisal reports containing the estimated market values of the Bank street, Albion
10 road and Merivale road properties are filed in confidence.