



**EB-2015-0004**

## **Hydro Ottawa Limited**

**Application for electricity distribution rates for the  
period from January 1, 2016 to December 31, 2020**

### **DECISION AND RATE ORDER ON POLE ATTACHMENT CHARGE**

**February 25, 2016**

#### **INTRODUCTION AND SUMMARY**

This is a Decision and Rate Order of the Ontario Energy Board (OEB) approving a pole attachment charge for Hydro Ottawa Limited (Hydro Ottawa). The OEB issued an earlier Decision and Rate Order for Hydro Ottawa on December 22, 2015 approving final rates and charges, excluding the pole attachment charge.

Hydro Ottawa filed a custom incentive rate (Custom IR) application with the OEB seeking approval for changes to the rates that Hydro Ottawa charges for electricity distribution, to be effective January 1, 2016 and for each following year through to December 31, 2020. The application included a proposal to change the pole attachment charge from \$22.35 to \$57.00 per pole per year in 2016 with annual increases of 2.1% in 2017 to 2020.

The OEB has considered the evidence on this matter and the submissions of the parties and approves a pole attachment charge of \$53.00 per pole per year effective January 1, 2016. This charge will be fixed, with no annual inflation adjustments, pending the outcome of the OEB's generic policy review of electricity distributors' miscellaneous rates and charges, as described later in this Decision. The components of the pole attachment charge and associated findings are discussed below.

## BACKGROUND

Since 2005, Ontario electricity distributors have charged a common pole attachment charge of \$22.35 to cable television transmission carriers as approved by the OEB. The \$22.35 is an annual charge for each attacher on a pole. The \$22.35 was established when the Canadian Cable Television Association (CCTA) applied to the OEB to enable pole access for cable television transmission lines by amending electricity distributor licences. The CCTA proposed a standard pole attachment agreement and standard pole rental charge throughout Ontario. The OEB issued its decision in the RP-2003-0249 proceeding on March 7, 2005 (the 2005 Decision), approving the \$22.35 charge. The 2005 Decision indicated that any distributor, who did not consider the province-wide charge appropriate for its circumstances, could apply to the OEB for a different charge based on its own costs.

The OEB approved ten intervenors in the Custom IR proceeding, and the following eight intervenors participated in the pole attachment charge issue:

- Allstream Inc. (Allstream)
- Consumers Council of Canada (CCC)<sup>1</sup>
- Energy Probe Research Foundation (Energy Probe)
- Quebecor Media Inc. (Quebecor)
- Rogers Communications Partnership (Rogers)
- School Energy Coalition (SEC)
- TELUS Communications Company (TELUS)
- Vulnerable Energy Consumers Coalition (VECC)

All issues related to the Custom IR application were examined through written questions and answers and orally in a technical conference. Parties were able to settle on all issues related to the Custom IR application, except the pole attachment charge. The OEB decided to proceed with an oral hearing regarding the pole attachment charge, wherein the application and the evidence of Quebecor, Rogers and TELUS (the Carriers) and Allstream were examined. The Carriers and Allstream expert witnesses were cross examined at the oral hearing.

During the oral hearing phase, the OEB informed parties that it plans to undertake a generic policy review of electricity distributors' miscellaneous rates and charges (the Policy Review).<sup>2</sup> The Policy Review would include the pole attachment charge

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<sup>1</sup> The submission of CCC was largely supportive of the VECC submission

<sup>2</sup> Decision on Motion and Procedural Order No. 9, October 14, 2015

methodology and treatment of third-party revenues.<sup>3</sup> The OEB decided it would hear evidence and submissions on costs incurred by Hydro Ottawa specific to serving pole attachments, however, the OEB would not hear further evidence or submissions related to methodology or cost recovery from third parties by the Carriers (i.e., overlashers).

## PROCEDURAL ISSUE

Following the oral hearing, the OEB made provision for submissions by Hydro Ottawa and the parties on the pole attachment charge, including whether the charge should be interim or final. Reply argument was filed by Hydro Ottawa on November 19, 2015.

While the OEB only made provision for reply argument by Hydro Ottawa, the Carriers in their submission requested the right of reply to any new arguments submitted by the intervenors. The Carriers filed a reply submission on November 18, 2015, citing that the intervenor submissions raised new arguments or issues that were not previously raised.

Both Hydro Ottawa and VECC requested that the Carriers' reply be struck from the record. VECC noted that the Carriers' reply argument was filed without leave of the OEB and that accepting the reply argument would give implicit right of reply to all respondents.

## Finding

The OEB agrees that the schedule outlined did not allow for reply submissions from the parties other than Hydro Ottawa. As an issue of procedural fairness, the OEB would have allowed reply submissions by the other parties if it was considered necessary to address new arguments or issues raised by the parties.

The Carriers in their reply set out four areas which they argued were new and therefore necessitated the need for reply:

- the use of forecast costs to establish a pole attachment charge for future years<sup>4</sup>
- the inclusion of a portion of pole removal crew costs as loss in productivity costs<sup>5</sup>
- the inclusion of costs that are related to power-specific assets on the grounds that there "is insufficient information to determine the basis for a specific exclusion"<sup>6</sup>

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<sup>3</sup> The Review of Miscellaneous Rates and Charges (EB-2015-0304) was announced on November 5, 2015

<sup>4</sup> Carriers Submission (November 12, 2015), page 5

<sup>5</sup> Carriers Submission (November 12, 2015), pages 13-15

<sup>6</sup> Hydro Ottawa Final Argument, page 11

- the ability of Hydro Ottawa at some point in the future, to seek revision of a final pole attachment charge.

The OEB finds that the first three areas had been raised earlier in the proceeding (as indicated by the footnotes to the previous bullet points), such that the Carriers would have been aware of the issues and could have addressed the issues in their original submission. Therefore the Carriers would not be prejudiced by not having a further opportunity to make submissions. The OEB does not find that new arguments or issues were raised such that the need for reply became necessary.

The Carriers raise a fourth point, the ability of Hydro Ottawa at some point in the future, to seek revision of a final pole attachment charge. OEB staff proposed that the OEB could permit Hydro Ottawa the option to include in its mid-term review an opportunity to update its rates on the basis of the outcomes of the OEB's Policy Review.

The OEB will not, as part of this Decision, comment on any direction which might flow from the Policy Review related to pole attachment charges. As a result, the OEB will not consider any submissions on this point in coming to its Decision.

Because the OEB will not consider the Carriers' reply in coming to its Decision, the OEB is ordering the Carriers' November 18, 2015 reply submission be struck from the record.

## JURISDICTIONAL MATTERS

There were two submissions with respect to the jurisdiction of the OEB to approve a revised pole attachment charge:

- (A) The Carriers submitted that the OEB cannot amend Hydro Ottawa's pole rate condition of licence and approve a revised pole attachment charge under section 78 of the *Ontario Energy Board Act, 1998* (the Act).
- (B) Allstream submitted that it is not possible for the OEB to approve a rate that is just and reasonable if there are doubts as to the adequacy of the methodology employed.

Each of these is addressed below.

### (A) Jurisdiction under section 78 of the Act

The Carriers submit that the OEB cannot amend Hydro Ottawa's pole rate condition of licence and approve a revised pole attachment rate pursuant to an application under

section 78 of the Act. The treatment of revenues from activities such as pole access as a revenue offset does not, in the Carriers' submission, confer on the OEB jurisdiction to regulate these activities under section 78 of the Act.<sup>7</sup>

In reply, Hydro Ottawa submits that the Carriers' arguments regarding the constraints of the OEB's jurisdiction are without merit and should accordingly be rejected.<sup>8</sup>

## Finding

Similar arguments were put forward by the carriers (as defined in each of these proceedings) in motions filed with the OEB in EB-2014-0116, and EB-2015-0141. In both of these proceedings, the carriers alleged that the OEB has no jurisdiction to approve an increase to the pole attachment charge under section 78 of the Act. According to the carriers, the pole attachment charge can only be increased through a section 74 application to amend a licence. In both cases the OEB determined that pole attachments are incidental to the distribution of electricity as the poles are an essential facility properly considered under section 78 of the Act.<sup>9</sup> The OEB therefore finds, in this Decision as well, that it does have authority under section 78 of the Act to set the pole attachment charge under the jurisdiction granted by section 78.

(B) Can the OEB approve just and reasonable rates if the methodology for the pole attachment rate is under review?

Allstream submits that it would be inappropriate for the OEB to approve a new rate for Hydro Ottawa that is "just and reasonable" if there are doubts as to the adequacy of the methodology employed in calculating that rate. Allstream notes that the OEB has announced the initiation of a review of the methodology used to establish pole attachment rates.<sup>10</sup> Until the OEB establishes a new methodology or determines that the existing methodology continues to be appropriate, Allstream submits that the OEB is unable to approve or fix a just and reasonable pole attachment rate and that the current province-wide rate should continue to apply to Hydro Ottawa.

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<sup>7</sup> Carriers Submission, page 22

<sup>8</sup> Hydro Ottawa Reply Argument, page 18

<sup>9</sup> Toronto Hydro-Electric System Limited EB-2014-0116 Decision and Procedural Order No. 10, page 4

<sup>10</sup> Review of Miscellaneous Rate and Charges, EB-2015-0304, Board Letter dated November 5, 2015, page 2. "The subsequent review of pole attachments will consider the methodology used for determining charges, including the appropriate treatment of any revenues that carriers may receive from third parties."

## Finding

The OEB rejects the argument that it cannot set just and reasonable rates when there is an ongoing Policy Review of the methodology for determining the pole attachment charge. The current methodology for determining pole attachment charges has been in place since 2005 and the OEB is guided by this methodology until such time that any new methodology is determined through the generic and comprehensive policy review of miscellaneous rates and charges.

As part of the Policy Review the OEB has established a Pole Attachments Working Group (PAWG) to provide advice on the technical aspects and related details to be addressed in respect of pole attachments. The selection of PAWG was based on the nominee's technical expertise in pole attachments, experience with OEB proceedings related to pole attachments and expertise in cost allocation methodologies used for determining service charges. Included in the PAWG are representatives from small and large electricity distributors and a balance between the wireline industry, and ratepayers groups.<sup>11</sup>

The OEB finds that it does have jurisdiction to approve the pole attachment charge and will do so on a final basis as more fully explained on page 15 of this Decision.

## POLE ATTACHMENT CHARGE – COMPONENTS AND FINAL CHARGE

The 2005 Decision established a province-wide pole attachment charge. The calculation of the charge, including the direct costs and indirect costs, is summarized in the appendices to the 2005 Decision. The OEB has followed the format of the 2005 Decision and appendices in this Decision.

### Number of Attachers per Pole

The OEB decided at the oral hearing that the number of attachers per pole was within the scope of the proceeding.<sup>12</sup> Hydro Ottawa's application proposed 2.0 attachers per pole although the most recent data indicated that the average number of attachers in August 2015 was 1.71.<sup>13</sup> When questioned about the number of attachers, the Hydro Ottawa witness stated that the utility was conservative in its proposal.<sup>14</sup>

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<sup>11</sup> Review of Wireline Pole Attachment Charges (EB-2015-0304), Letter – February 9, 2016

<sup>12</sup> Oral Hearing Transcript Vol 2, page 17

<sup>13</sup> Undertaking J2.3

<sup>14</sup> Oral Hearing Transcript Vol 2, pages 101-102

The submissions by the intervenors proposed a range from 1.71 (SEC) to 2.5 (the Carriers and OEB staff). Except for the Carriers and OEB staff, the intervenors submitted that a value less than 2.0 would be appropriate based on the current number of attachers per pole (1.74 at the end of 2013 and 1.71 at the end of August 2015). Energy Probe submitted that the lower number was appropriate due to the anticipated mergers and acquisitions of telecommunications providers in Hydro Ottawa's service area, as well as the lack of evidence in this proceeding of a significant new source of attachers in the Hydro Ottawa distribution system.<sup>15</sup>

The Carriers submitted that the number of attachers is a non-cost input and changing that number is inconsistent with the 2005 Decision consideration of distributor applications for pole attachment charge based on their own costs. The Carriers submitted that it is grossly unfair to vary the 2005 methodology by proposing a different number of attachers, but not permit the Carriers to challenge other aspects of methodology such as equal sharing.

The Carriers' evidence was that 2.5 non-power attachers is a more appropriate value to use than 2.0 or less. The 2.5 attachers is more appropriate given this was the value used in the 2005 Decision, the current and future number of pole attachment customers in the area, the OEB's intention to commence a proceeding to consider the deregulation of rates charged to wireless attachments, and the fibre expansion plans of Bell Canada.<sup>16</sup> OEB staff submitted that the 2.5 attachers per pole used in the 2005 Decision should be used until the completion of the Policy Review (or other OEB process).

## Finding

The 2005 Decision established a province-wide pole attachment rate based on an average number of attachers of 2.5. The 2005 Decision also provided that individual utilities could bring an application to the OEB to vary the provincial pole attachment rate if they choose to do so and could support an alternative rate. Hydro Ottawa chose to file such an application with evidence to support its request that is specific to the utility.

The OEB, in considering this application, is of the view that information specific to the utility is the most useful and as a result will rely on the number of attachers per pole information filed by Hydro Ottawa that reflects its specific circumstances.

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<sup>15</sup> Energy Probe Submission, page 7

<sup>16</sup> Carriers Evidence, August 21, 2015, page 22

Hydro Ottawa's application was based on 2.0 attachers per pole. However, Hydro Ottawa explained in its final argument that the average number of third party attachers on Hydro Ottawa's poles is less than two.

The OEB prefers to rely on actual information when available, rather than a projection. The OEB finds that the use of 1.74 attachers per pole is appropriate. This number is based on the number of attachers per pole specific to Hydro Ottawa at the end of 2013.<sup>17</sup> Using 2013 actual information is consistent with the approach the OEB has taken in the remainder of this Decision.

### **Historical versus Forecast Costs**

The 2005 Decision used historical costs to determine the pole attachment charge, such as the embedded cost of a pole and the associated depreciation. Hydro Ottawa proposed to use its 2013 historical costs to determine the pole attachment rate. OEB staff and the Carriers supported Hydro Ottawa's proposal.

SEC, VECC, and Energy Probe supported the use of forecast costs, not historical costs. These parties expressed concern that setting the pole attachment charge using historical costs while setting distribution rates using forecast costs would result in distribution ratepayers subsidizing pole attachers as Hydro Ottawa's costs rise over time.

In reply, Hydro Ottawa acknowledged that it would be preferable to use forecast costs and indicated that the issue of forecast versus historical costs could be considered in the OEB's Policy Review.<sup>18</sup>

Hydro Ottawa's 2016 proposed pole attachment charge was based on historical costs yet included an annual inflation adjustment of 2.1% in 2017 to 2020. The 2005 Decision did not incorporate an annual adjustment factor; the approved rate of \$22.35 did not change over time.

SEC, Energy Probe and VECC submitted that the approved 2016 rate should be increased annually by inflation as Hydro Ottawa's costs will increase over time. OEB staff submitted that there was no inflation adjustment approved in the 2005 Decision which could be considered part of the methodology. The Carriers submitted that the exclusion of an inflation adjustment was part of the methodology approved in the 2005 Decision.

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<sup>17</sup> Undertaking J2.1

<sup>18</sup> Hydro Ottawa Reply Argument, page 9



## Finding

The OEB finds that the use of historical costs with no annual inflation adjustment is consistent with the methodology in the 2005 Decision. Furthermore, it is contrary to OEB practice to use forecast or projected costs to determine specific service charges. The OEB approves the use of Hydro Ottawa's 2013 historical costs as the basis for determining the pole attachment charge for 2016 to 2020 with no inflation adjustment, subject to any change determined by the OEB subsequent to the Policy Review.

## Direct Costs

Direct costs are incremental costs incurred by the distributor that result directly from the presence of the third-party equipment. The direct costs consist of (A) administration costs and (B) loss in productivity costs.

### ***(A) Administration Costs***

Hydro Ottawa proposed including ongoing operational costs associated with managing and administering third-party attachment permits and occupancy on its poles. Hydro Ottawa included three categories of activities: invoicing, updating its geographic information system and permit processing. The 2005 Decision included administration costs as direct costs. Parties did not take issue with the proposed inclusion of administration costs.

## Finding

The OEB approves Hydro Ottawa's proposed administration costs of \$141,291.<sup>19</sup>

### ***(B) Loss in Productivity Costs***

Hydro Ottawa proposed including Loss in Productivity (LIP) costs associated with maintaining poles with third-party equipment. Hydro Ottawa included two types of LIP costs (field verification cost associated with wires down and tree on wires and pole replacement cost) for a total of \$310,419.<sup>20</sup> The pole replacement cost consists of two components (field verification cost of pole replacement and the cost of returning crew). The 2005 Decision included LIP costs as direct costs.

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<sup>19</sup> Interrogatory Response IR:H-7-1 (Carriers #12) page 4

<sup>20</sup> Interrogatory Response IR:H-7-1 (Carriers #13) page 5

Energy Probe submitted the proposed LIP costs were understated, but there was insufficient evidence to justify an increase. OEB staff submitted that the \$188,988 cost of returning crews associated with pole replacement should be excluded from the LIP calculation. OEB staff indicated that these costs are recovered through distribution rates and would result in double recovery if included as a direct cost in the pole attachment charge. VECC and Allstream took issue with the proposed LIP costs and recommended a reduction. The Carriers also proposed the elimination of returning crew costs as these were not part of the 2005 Decision methodology and should not be added.

### **Finding**

The OEB approves LIP costs of \$121,431 for field verification. The OEB will not include the cost of returning crews for pole replacement (i.e. \$188,988) in the LIP calculation as these costs are currently recovered through distribution rates.

### ***Recovery of Direct Costs***

Hydro Ottawa divided its direct administration and LIP costs by the number of poles at year end 2013, i.e. 35,663,<sup>21</sup> to determine the pole attachment charge. Hydro Ottawa submitted that it did not further divide its direct costs by the number of attachers per pole as the 2005 Decision did not specify that direct costs should be divided by the number of attachers per pole. However, Hydro Ottawa acknowledged in its final argument that there was merit in dividing the administration and LIP costs by the number of attachers even though this approach is not clear from the 2005 Decision.

SEC, VECC and Energy Probe agreed with Hydro Ottawa's determination of the administration cost and the division by 35,663 poles. However, they proposed that the 2013 administration cost be escalated to 2016, and then further escalated each year of the Custom IR term. They submitted the same treatment was appropriate for LIP costs, but that the LIP costs should be divided by the number of attachers per pole. The Carriers, Allstream and OEB staff also submitted that all direct costs should be divided by the number of poles and then by the number of attachers per pole to avoid having Hydro Ottawa over-collect its direct costs.

### **Finding**

The OEB finds it inappropriate to include direct costs on a per pole basis, yet collect the pole attachment charge on a per attacher basis. For any pole with more than one

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<sup>21</sup> Interrogatory Response IR:H-7-1 (Carriers #1) page 5

attacher, Hydro Ottawa would over collect its direct costs associated with that pole. The OEB finds that Hydro Ottawa's direct administration and LIP costs should be determined on a per pole basis and then divided by the number of attachers per pole of 1.74.

The OEB approves the use 35,663 as the number of poles to use in the calculation of Hydro Ottawa's direct costs. As noted above, the OEB has determined that the appropriate number of attachers is 1.74.

### **Indirect Costs**

Indirect costs or common costs are borne by the distributor and the third parties. The 2005 Decision concluded that depreciation, maintenance and carrying costs are representative indirect costs. The determination of the indirect costs starts with the establishment of an appropriate net embedded cost of a pole.

### ***Net Embedded Cost***

Hydro Ottawa proposed a net embedded cost of \$1,678 per pole in its original application.<sup>22</sup> In response to interrogatories, Hydro Ottawa stated that the \$1,678 was based on average net book value based on 2013 financial records for external reporting purposes.<sup>23</sup> Reconciliation of the average cost with the net book value in fixed asset continuity schedules resulted in a net embedded cost of \$1,569 (based on 2013 year end net book value of \$75.3 million and 47,978 poles).<sup>24</sup>

The Carriers submitted that the 2013 average year costs should be used (i.e \$71.5 million) as this was consistent with the filing requirements for cost of service applications. The Carriers also argued that the correct pole inventory is 48,352.<sup>25</sup> Further, as part of the Carriers' evidence, the Carriers' expert, Mr. McKeown, submitted that certain cost elements included in account 1830<sup>26</sup> are power specific assets used for supporting overhead distribution conductors and service wires, which are not needed for

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<sup>22</sup> Hydro Ottawa Application Exh H-7-1

<sup>23</sup> Interrogatory Response IR:H-7-1 (Carriers #7) page 2

<sup>24</sup> Oral Hearing Transcript Vol 2, page 77, "We, you know, had the most data in relation to 2013 in terms of the number of permits processed and the hours of GIS. So from a consistency point of view, we chose to stick with 2013 data in all respects. As a result, we did use the year-end values versus the average. If we were to use 2016-2020, we would obviously use the average values. But using average for 2013 didn't make a lot of sense because it is further away from the period that we are trying to set the rates for."

<sup>25</sup> Hydro Ottawa Application Exh B-1-2, page 93

<sup>26</sup> Account 1830 – Poles, Towers and Fixtures – includes the cost of installed poles, towers and appurtenant fixtures used for supporting overhead distribution conductors and service wires

telecommunications cable attachments. He proposed that 15% of account 1830 is a reasonable proxy for these power-specific assets.

Allstream submitted that Hydro Ottawa's net embedded cost was unreasonably high. Based on an analysis of electricity and telephone companies to whom Allstream pays pole attachment charges, Allstream determined that the average approved net embedded cost is less than \$225 per pole.<sup>27</sup> Allstream also submitted that the Hydro Ottawa net book value determination is based on a period of unusually high investment.<sup>28</sup> Like the Carriers, Allstream supported a 15% reduction in net embedded cost as a proxy for removing power-specific assets.

SEC, VECC and Energy Probe submitted that the net embedded cost should be set based on the average net book value noted in fixed asset continuity schedules for 2016-2020 underpinning the approved settlement proposal. The average 2016 net book value is \$92.8 million. Energy Probe submitted that forecast averages should be used, and that the use of 2013 year end book values would only be appropriate if the OEB were to set the pole attachment charge on a historical cost basis. The intervenors proposed that the number of poles for the determination of net embedded cost should be 48,449, the total number of in-service poles in August 2015.<sup>29</sup> The intervenors agreed with the Carriers, that an appropriate proxy for power specific fixtures was a reduction of 15%.

OEB staff submitted that there was insufficient evidence related to typical poles and costs related to power-specific assets in account 1830. OEB staff submitted that the net embedded cost per pole of \$1,569 was reasonable.

Hydro Ottawa noted OEB staff's support of the proposed \$1,569 net embedded cost in reply argument.<sup>30</sup> Hydro Ottawa disagreed with Mr. McKeown's reasoning and suggested that using a 5% account adjustment value would be more applicable to Hydro Ottawa's specific poles.<sup>31</sup>

## Finding

The OEB finds that a net embedded cost based on 2013 year-end net book value is consistent with the findings in this Decision. The OEB notes that Energy Probe supports the use of year-end values when charges are based on historical costs. While Hydro Ottawa's net embedded cost of \$1,569 was based on 2013 year-end net book value,

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<sup>27</sup> Allstream Submission, page 6

<sup>28</sup> Allstream Submission, page 9

<sup>29</sup> Undertaking J2.3

<sup>30</sup> Hydro Ottawa Reply Argument, page 14

<sup>31</sup> Hydro Ottawa Reply Argument, page 15

the cost was based on 47,978 poles at year end 2013. Hydro Ottawa revised that number to 48,352 during the proceeding,<sup>32</sup> which is consistent with the Carriers' submission. The OEB finds that an adjustment for the updated number of poles is required.<sup>33</sup>

Further, the OEB finds that a 5% reduction in the net embedded cost per pole is reasonable to account for inclusion of power-specific assets. This results in a net embedded cost of \$1,479. The OEB finds that while the 15% proposed by Mr. McKeown may be appropriate in certain circumstances (e.g. use of crossarms and other non-pole related items), the OEB relies on the evidence provided by Hydro Ottawa as to the actual configuration of its assets (i.e. using brackets rather than crossarms in its distribution system construction). Given this evidence, which was canvassed at the technical conference, the OEB finds that the 5% adjustment is more appropriate.

### ***Depreciation, Pole Maintenance and Capital carrying Costs***

Hydro Ottawa proposed depreciation expense of \$43.29 per pole in the original application, but revised the expense to \$41.26 to reflect the fixed asset continuity schedule. A maintenance expense of \$12.61 per pole was proposed and carrying costs were determined based on a rate of 6.7%. OEB staff adopted these costs in its submission, but applied a pre-tax carrying cost of 8.04%, as this is consistent with the 2005 Decision methodology. At the oral hearing, Hydro Ottawa acknowledged that its application should have used 8.04%.<sup>34</sup>

The Carriers submitted that depreciation and maintenance expense should be determined on a bare pole basis and in the absence of detailed information, proposed a 15% deduction and division of overall 2013 expense by 48,352 as the total number of poles. The Carriers' submission also referenced the 2013 pre-tax capital cost of 8.04%.

SEC, VECC and Energy Probe submitted that 2016-2020 amounts for depreciation and maintenance expense set out in the settlement<sup>35</sup> should be used. The intervenors proposed a 15% reduction for power specific fixtures and division by the 48,449 as the total number of poles. SEC and VECC submitted that the pre-tax carrying cost for the 2016-2020 period apply.<sup>36</sup> For 2016, the rate was determined to be 7.04%. Energy Probe submitted that the rate proposed by SEC and VECC does not include updates for

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<sup>32</sup> Undertaking J2.1

<sup>33</sup>  $\$1,569 \times 47,978/48,352 = \$1,556.86$

<sup>34</sup> Oral Hearing Transcript Vol 2, page 102

<sup>35</sup> Settlement Proposal, filed September 18, 2015, amended December 7, 2015

<sup>36</sup> Undertaking J2.4

long term and short term debt. Energy Probe's analysis indicates that the 2016 rate should be 7.06%.

### **Finding**

The OEB finds that the depreciation and pole maintenance expenses proposed by Hydro Ottawa are reasonable. Consistent with the OEB's findings on net embedded cost, it is reasonable to reduce the depreciation and pole maintenance expenses by 5% to account for the inclusion of power-specific assets, and to reflect the update in the number of poles at 2013 year end.

The OEB finds it appropriate to use the pre-tax carrying cost of capital, which is consistent with the methodology in the 2005 Decision. The OEB approves the 2013 pre-tax rate of 8.04%, consistent with the other cost inputs.

### ***Allocation factor***

### **Finding**

As outlined earlier, the OEB finds that 1.74 attachers per pole is a reasonable number. Therefore, the corresponding allocation factor would be 28.8%.<sup>37</sup>

### **Calculation of Pole Attachment Charge**

A table summarizing the development of the charge approved in this Decision is attached at Schedule A.

### **Interim or Final Order**

Hydro Ottawa and most intervenors submitted that the pole attachment charge approved in this Decision should be made final, effective January 1, 2016. Any changes arising from the Policy Review should be applied prospectively within Hydro Ottawa's Custom IR term of 2016-2020.

The Carriers submitted that the OEB should approve an interim pole attachment charge, until the final charge is determined subsequent to the Policy Review. Allstream was less concerned with interim or final, but submitted that any charge established by this proceeding should be subject to change should a new methodology be approved in the Policy Review.

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<sup>37</sup> Formula - Interrogatory Response IR:H-7-1 (Carriers #4) page 2

OEB staff preferred the OEB establish a final charge pending the outcome of the Policy Review, but suggested two other options in which an interim charge could be established pending the outcome of the Policy Review.

## Finding

The OEB finds that new policies should be applied on a prospective basis. This finding is consistent with prior OEB decisions involving new policies such as the working capital policy approved in 2015.<sup>38</sup> In this application, the OEB finds it appropriate to establish the pole attachment charge on a final basis effective January 1, 2016 to provide rate certainty to the third-party wireline attachers and revenue certainty to Hydro Ottawa.

As indicated in the Historical versus Forecast Costs section of this Decision, the OEB does not approve an annual inflation factor applied to either Hydro Ottawa's costs or the final approved charge. The calculation of the approved pole attachment charge of \$53.00 is provided in Schedule A and will remain in effect, subject to any direction from the OEB regarding the implementation of any changes resulting from the Policy Review.

## December 22, 2015 Decision and Rate Order

In the Decision and Rate Order issued on December 22, 2015, the OEB approved final distribution rates for Hydro Ottawa effective January 1, 2016, except for the current pole attachment charge of \$22.35 which was maintained on an interim basis, pending this Decision. The new charge of \$53.00 per pole per year will replace the interim rate on a final basis.

The amended settlement proposal, approved by the OEB on December 22, 2015 included Hydro Ottawa's distribution rates based on the proposed \$57.00 pole attachment charge. The OEB approved a Pole Attachment Charge Variance Account (Variance Account) to record the revenue requirement difference between the final pole attachment charge and the proposed \$57.00. The balance in the Variance Account would be reviewed and disposed as part of Hydro Ottawa's next Custom IR rate adjustment in 2017.

Hydro Ottawa requested direction from the OEB regarding the collection of any foregone revenues arising from an interim pole attachment charge. The OEB finds that the approved pole attachment charge of \$53.00 is an annual rate and should be

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<sup>38</sup> Allowance for Working Capital for Electricity Distribution Rate Applications (June 3, 2015), North Bay Hydro Decision and Order EB-2014-0099 (November 12, 2015), Horizon Corporation Decision on Motion EB-2014-0002 (October 29, 2014)

charged for 2016 services. If Hydro Ottawa has already issued invoices for 2016 based on the interim rate of \$22.35, Hydro Ottawa should issue subsequent invoices for the difference based on the OEB approved final rate.

**THE OEB ORDERS THAT:**

1. Effective January 1, 2016, Hydro Ottawa Limited shall charge \$53.00 for the “Specific Charge for Access to the Power Poles – per pole per year”, on a final basis, as set out in the Tariff of Rates and Charges (Schedule B of this Order). Hydro Ottawa shall notify its customers of the rate change immediately.
2. The Carriers’ November 18, 2015 reply submission be struck from the record of this proceeding.

**DATED** at Toronto, **February 25, 2016**

**ONTARIO ENERGY BOARD**

*Original signed by*

Kirsten Walli  
Board Secretary



**Schedule A – Decision on Pole Attachment Charge  
Hydro Ottawa Limited (EB-2015-0004)  
February 25, 2016**

		RP-2003-0249 - CCTA (2005 Decision)	Hydro Ottawa Limited Application*	EB-2015-0004 Decision	Notes
	Number of Attachers	2.5	2.0	1.74	Year end 2013
	<b>DIRECT COST</b>				
A	Administration	\$0.69	\$3.96	\$2.28	2013 cost per pole adjusted per attacher
B	Loss in Productivity	\$1.23	\$8.70	\$1.96	2013 cost less cost of returning crew, per pole adjusted per attacher
C	<b>TOTAL DIRECT COST (B+C)</b>	<b>\$1.92</b>	<b>\$12.66</b>	<b>\$4.23</b>	
	<b>INDIRECT COST</b>				
D	Net Embedded Cost per pole	\$478.00	\$1,678.00	\$1,479.02	\$1,569 year-end 2013 net book value adjusted by total number of poles, 5% reduction for power-specific assets.
E	Depreciation Expense	\$31.11	\$43.29	\$38.89	\$41.26 adjusted by year-end 2013 total number of poles, 5% reduction for power-specific assets
F	Pole Maintenance Expense	\$7.61	\$12.61	\$11.89	\$12.61 adjusted by year-end 2013 total number of poles, 5% reduction for power-specific assets
G	Capital Carrying Cost	\$54.59	\$112.42	\$118.91	8.04% pre-tax carrying cost (2013)
H	<b>TOTAL INDIRECT COST (E+F+G)</b>	<b>\$93.31</b>	<b>\$168.32</b>	<b>\$169.69</b>	
I	Allocation Factor	21.9%	25.9%	28.8%	
J	Indirect Costs Allocated (HxI)	\$20.43	\$43.60	\$48.80	
K	<b>ANNUAL POLE ATTACHMENT CHARGE (C+J)</b>	<b>\$22.35</b>	<b>\$56.26</b>	<b>\$53.03</b>	

\* Hydro Ottawa applied for a 2016 pole attachment charge of \$57.00. In response to Carriers IR #18, Hydro Ottawa stated that the 2013 rate of \$56.26 was escalated at 2.1% to \$57.46. This amount was rounded down to \$57.00 for 2016.

**SCHEDULE B**  
**DECISION AND RATE ORDER**  
**HYDRO OTTAWA LIMITED**  
**TARIFF OF RATES AND CHARGES**  
**EB-2015-0004**  
**FEBRUARY 25, 2016**

# 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

## 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, triplex 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 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

## MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	12.96
Rate Rider for Smart Metering Entity Charge – effective until October 31, 2018	\$	0.79
Rate Rider for Disposition of Group 2 Accounts (2016) – effective until December 31, 2016	\$	0.32
Distribution Volumetric Rate	\$/kWh	0.0193
Low Voltage Service Rate	\$/kWh	0.00007
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until December 31, 2016		
Applicable only for Non-RPP Customers	\$/kWh	0.00281
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016	\$/kWh	(0.000826)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016		
Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.001509)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM) Costs		
– effective until December 31, 2016	\$/kWh	(0.00002)
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	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Revised February 25, 2016

# 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

## ONTARIO ELECTRICITY SUPPORT PROGRAM RECIPIENTS

In addition to the charges specified on page 1 of this tariff of rates and charges, the following credits are to be applied to eligible residential customers.

### APPLICATION

The application of the credits is in accordance with the Distribution System Code (Section 9) and subsection 79.2 of the Ontario Energy Board Act, 1998.

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

In this class:

“Aboriginal person” includes a person who is a First Nations person, a Métis person or an Inuit person;

“account-holder” means a consumer who has an account with a distributor that falls within a residential-rate classification as specified in a rate order made by the Ontario Energy Board under section 78 of the Act, and who lives at the service address to which the account relates for at least six months in a year;

“electricity-intensive medical device” means an oxygen concentrator, a mechanical ventilator, or such other device as may be specified by the Ontario Energy Board;

“household” means the account-holder and any other people living at the accountholder’s service address for at least six months in a year, including people other than the account-holder’s spouse, children or other relatives;

“household income” means the combined annual after-tax income of all members of a household aged 16 or over;

### MONTHLY RATES AND CHARGES

#### Class A

(a) account-holders with a household income of \$28,000 or less living in a household of one or two persons;

(b) account-holders with a household income of between \$28,001 and \$39,000 living in a household of three persons;

(c) account-holders with a household income of between \$39,001 and \$48,000 living in a household of five persons;

(d) account-holders with a household income of between \$48,001 and \$52,000 living in a household of seven or more persons;

but does not include account-holders in Class E.

OESP Credit \$ (30.00)

#### Class B

(a) account-holders with a household income of \$28,000 or less living in a household of three persons;

(b) account-holders with a household income of between \$28,001 and \$39,000 living in a household of four persons;

(c) account-holders with a household income of between \$39,001 and \$48,000 living in a household of six persons;

but does not include account-holders in Class F.

OESP Credit \$ (34.00)

#### Class C

(a) account-holders with a household income of \$28,000 or less living in a household of four persons;

(b) account-holders with a household income of between \$28,001 and \$39,000 living in a household of five persons;

(c) account-holders with a household income of between \$39,001 and \$48,000 living in a household of seven or more persons;

but does not include account-holders in Class G.

OESP Credit \$ (38.00)

# 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

## ONTARIO ELECTRICITY SUPPORT PROGRAM RECIPIENTS

### Class D

(a) account-holders with a household income of \$28,000 or less living in a household of five persons;  
 (b) account-holders with a household income of between \$28,001 and \$39,000 living in a household of six persons;  
 but does not include account-holders in Class H.

OESP Credit \$ (42.00)

### Class E

Class E comprises account-holders with a household income and household size described under Class A who also meet any of the following conditions:

(a) the dwelling to which the account relates is heated primarily by electricity;  
 (b) the account-holder or any member of the account-holder's household is an Aboriginal person; or  
 (c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit \$ (45.00)

### Class F

(a) account-holders with a household income of \$28,000 or less living in a household of six or more persons;  
 (b) account-holders with a household income of between \$28,001 and \$39,000 living in a household of seven or more persons; or  
 (c) account-holders with a household income and household size described under Class B who also meet any of the following conditions:

i. the dwelling to which the account relates is heated primarily by electricity;  
 ii. the account-holder or any member of the account-holder's household is an Aboriginal person; or  
 iii. the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit \$ (50.00)

### Class G

Class G comprises account-holders with a household income and household size described under Class C who also meet any of the following conditions:

(a) the dwelling to which the account relates is heated primarily by electricity;  
 (b) the account-holder or any member of the account-holder's household is an Aboriginal person; or  
 (c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit \$ (55.00)

### Class H

Class H comprises account-holders with a household income and household size described under Class D who also meet any of the following conditions:

(a) the dwelling to which the account relates is heated primarily by electricity;  
 (b) the account-holder or any member of the account-holder's household is an Aboriginal person; or  
 (c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit \$ (60.00)

### Class I

Class I comprises account-holders with a household income and household size described under paragraphs (a) or (b) of Class F who also meet any of the following conditions:

(a) the dwelling to which the account relates is heated primarily by electricity;  
 (b) the account-holder or any member of the account-holder's household is an Aboriginal person; or  
 (c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit \$ (75.00)

Revised February 25, 2016

# 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

## 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

### MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	17.23
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
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until December 31, 2016		
Applicable only for Non-RPP Customers	\$/kWh	0.00281
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016	\$/kWh	(0.000840)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016		
Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.001509)
Rate Rider for Disposition of Group 2 Accounts (2016) – effective until December 31, 2016	\$/kWh	0.00007
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM) Costs		
– effective until December 31, 2016	\$/kWh	0.00023
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	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Revised February 25, 2016

# 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

## 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

### MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	200.00
Distribution Volumetric Rate	\$/kW	4.0706
Low Voltage Service Rate	\$/kW	0.02526
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until December 31, 2016 Applicable only for Non-RPP Customers	\$/kWh	0.00281
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016	\$/kW	(0.355415)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016 Applicable only for Non-Wholesale Market Participants	\$/kW	(0.634536)
Rate Rider for Disposition of Group 2 Accounts (2016) – effective until December 31, 2016	\$/kW	(0.0290)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM) Costs – effective until December 31, 2016	\$/kW	(0.07711)
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	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Revised February 25, 2016

# 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

## 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

### MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	4,193.93
Distribution Volumetric Rate	\$/kW	3.6541
Low Voltage Service Rate	\$/kW	0.0270
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until December 31, 2016		
Applicable only for Non-RPP Customers	\$/kWh	0.00281
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016	\$/kW	(0.395098)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016		
Applicable only for Non-Wholesale Market Participants	\$/kW	(0.705383)
Rate Rider for Disposition of Group 2 Accounts (2016) – effective until December 31, 2016	\$/kW	(0.03435)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM) Costs		
– effective until December 31, 2016	\$/kW	(0.07711)
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	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25



# 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

## 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

### MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	15,231.32
Distribution Volumetric Rate	\$/kW	3.4742
Low Voltage Service Rate	\$/kW	0.0304
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until December 31, 2016		
Applicable only for Non-RPP Customers	\$/kWh	0.00281
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016	\$/kW	(0.467580)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016		
Applicable only for Non-Wholesale Market Participants	\$/kW	(0.834788)
Rate Rider for Disposition of Group 2 Accounts (2016) – effective until December 31, 2016	\$/kW	(0.04082)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM) Costs		
– effective until December 31, 2016	\$/kW	(0.07711)
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	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Revised February 25, 2016

# 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

## 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

### MONTHLY RATES AND CHARGES – Delivery Component – Approved on an Interim Basis

Service Charge	\$	126.36
Standby Charge – for a month where standby power is not provided. The charge is applied to the contracted amount (e.g. nameplate rating of generation facility):		
General Service 50 to 1,499 kW customer	\$/kW	1.6865
General Service 1,500 to 4,999 kW customer	\$/kW	1.5469
General Service Large Use customer	\$/kW	1.7166

# 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

## 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 classification is at the discretion of Hydro Ottawa as defined in its 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

### MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	4.42
Distribution Volumetric Rate	\$/kWh	0.0219
Low Voltage Service Rate	\$/kWh	0.00006
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016	\$/kWh	(0.000845)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016 Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.001509)
Rate Rider for Disposition of Group 2 Accounts (2016) – effective until December 31, 2016	\$/kWh	(0.00004)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM) Costs – effective until December 31, 2016	\$/kWh	(0.00044)
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	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Revised February 25, 2016

# 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

## 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

### MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	2.98
Distribution Volumetric Rate	\$/kW	11.3998
Low Voltage Service Rate	\$/kW	0.01877
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016	\$/kW	(0.187879)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016 Applicable only for Non-Wholesale Market Participants	\$/kW	(0.335428)
Rate Rider for Disposition of Group 2 Accounts (2016) – effective until December 31, 2016	\$/kW	0.00393
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	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

# 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

## 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 Ontario Energy Board 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)	\$	0.75
Distribution Volumetric Rate	\$/kW	5.3171
Low Voltage Service Rate	\$/kW	0.01916
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until December 31, 2016 Applicable only for Non-RPP Customers	\$/kWh	0.00281
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016	\$/kW	(0.299010)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until December 31, 2016 Applicable only for Non-Wholesale Market Participants	\$/kW	(0.533834)
Rate Rider for Disposition of Group 2 Accounts (2016) – effective until December 31, 2016	\$/kW	(0.02585)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM) Costs – effective until December 31, 2016	\$/kW	(0.24051)
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	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Revised February 25, 2016

# 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

## microFIT and Micro-Net Metering SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the 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

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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

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EB-2015-0004

## FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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## MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	119.00
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# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2016

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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 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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	\$/kW	(0.45)
Primary Metering Allowance for transformer losses – applied to measured demand and energy	%	(1.00)

## SPECIFIC SERVICE CHARGES

### APPLICATION

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No 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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### Customer Administration

Arrears Certificate	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Special Billing Service – per hour (minimum 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
Disconnect/Reconnect at meter – during regular hours (Under Account Administration – New Account)	\$	65.00
Disconnect/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	%	1.50
Late Payment - per annum	%	19.56
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 – per pole/year	\$	53.00
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
Dry core transformer distribution charge	As per Attached Table	

Revised February 25, 2016

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2016

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EB-2015-0004

## RETAIL SERVICE CHARGES (if applicable)

### 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 Ontario Energy Board, and amendments thereto as approved by the Ontario Energy 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	\$	117.00
Monthly Fixed Charge, per retailer	\$	24.00
Monthly Variable Charge, per customer, per retailer	\$/cust.	0.60
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.35
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.35)
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

Revised February 25, 2016

# 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

### 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			\$5.0613	\$0.1204		\$3.7330	
25 kVA 1 PH, 1.2 kV BIL	150	900	\$0.81	\$10.95	\$11.76	\$0.60	\$12.36
37.5 kVA 1 PH, 1.2 kV BIL	200	1200	\$1.08	\$14.59	\$15.68	\$0.80	\$16.48
50 kVA 1 PH, 1.2 kV BIL	250	1600	\$1.38	\$18.36	\$19.74	\$1.02	\$20.76
75 kVA 1 PH, 1.2 kV BIL	350	1900	\$1.84	\$25.31	\$27.15	\$1.36	\$28.51
100 kVA 1 PH, 1.2 kV BIL	400	2600	\$2.22	\$29.42	\$31.65	\$1.64	\$33.29
150 kVA 1 PH, 1.2 kV BIL	525	3500	\$2.94	\$38.72	\$41.66	\$2.17	\$43.83
167 kVA 1 PH, 1.2 kV BIL	650	4400	\$3.66	\$48.02	\$51.68	\$2.70	\$54.38
200 kVA 1 PH, 1.2 kV BIL	696	4700	\$3.92	\$51.40	\$55.32	\$2.89	\$58.21
225 kVA 1 PH, 1.2 kV BIL	748	5050	\$4.21	\$55.24	\$59.45	\$3.10	\$62.55
250 kVA 1 PH, 1.2 kV BIL	800	5400	\$4.50	\$59.08	\$63.58	\$3.32	\$66.90
*15 kVA 3 PH, 1.2 kV BIL	125	650	\$0.65	\$9.00	\$9.65	\$0.48	\$10.13
*45 kVA 3 PH, 1.2 kV BIL	300	1800	\$1.63	\$21.89	\$23.52	\$1.20	\$24.72
*75 kVA 3 PH, 1.2 kV BIL	400	2400	\$2.17	\$29.19	\$31.36	\$1.60	\$32.96
*112.5 kVA 3 PH, 1.2 kV BIL	600	3400	\$3.20	\$43.55	\$46.75	\$2.36	\$49.11
*150 kVA 3 PH, 1.2 kV BIL	700	4500	\$3.88	\$51.43	\$55.31	\$2.86	\$58.17
*225 kVA 3 PH, 1.2 kV BIL	900	5300	\$4.85	\$65.56	\$70.41	\$3.58	\$73.99
*300 kVA 3 PH, 1.2 kV BIL	1100	6300	\$5.88	\$79.92	\$85.80	\$4.34	\$90.14
*500 kVA 3 PH, 95 kV BIL	2400	7600	\$11.17	\$167.16	\$178.33	\$8.24	\$186.57
*750 kVA 3 PH, 95 kV BIL	3000	12000	\$14.64	\$211.89	\$226.53	\$10.80	\$237.32
*1000 kVA 3 PH, 95 kV BIL	3400	13000	\$16.43	\$239.43	\$255.86	\$12.12	\$267.98
*1500 kVA 3 PH, 95 kV BIL	4500	18000	\$21.96	\$317.83	\$339.79	\$16.20	\$355.99
*2000 kVA 3 PH, 95 kV BIL	5400	21000	\$26.19	\$380.69	\$406.88	\$19.32	\$426.20
*2500 kVA 3 PH, 95 kV BIL	6500	25000	\$31.45	\$457.91	\$489.36	\$23.20	\$512.56
*3000 kVA 3 PH, 95 kV BIL	7700	29000	\$37.09	\$541.73	\$578.82	\$27.35	\$606.17
*3750 kVA 3 PH, 95 kV BIL	9500	35000	\$45.55	\$667.45	\$713.00	\$33.59	\$746.60
*5000 kVA 3 PH, 95 kV BIL	11000	39000	\$52.33	\$771.05	\$823.38	\$38.59	\$861.97

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

\*\* Cost of Energy and Wholesale Market per kWh contains November 1, 2015 RPP Tiered Pricing, WMSR and OESP pricing to be effective January 1, 2016

Revised February 25, 2016