Toronto Hydro

Metering Services and Charges

Conditions of Service, Section 6 – Reference #9

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Organization: Toronto Hydro Electric System Ltd.

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# Document Revision History

## Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 14, 2016</td>
<td></td>
<td>Original Release</td>
</tr>
<tr>
<td>August 30, 2019</td>
<td>1</td>
<td>Updates throughout to reflect changes to metering service and connections.</td>
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1.1 Introduction

Where identified and agreed to by Toronto Hydro, Toronto Hydro will in whole or in part as defined by Toronto Hydro, supply, install, own, and maintain all meters, instrument transformers, ancillary devices, and secondary wiring that are required for revenue metering. Note that this document does not cover metering associated with generation connections.

Toronto Hydro will determine, at its sole discretion, the Customer’s type of service connection, and metering configuration, based on factors that include, but are not limited to, reliability, capacity, operational and system design considerations.

The Electricity Act, 1998 requires that buildings receiving electricity from Toronto Hydro be connected to the distribution grid. Toronto Hydro’s general practice is to provide separate service connections for separate buildings. Customers should consult with Toronto Hydro as early as possible to assess project specific service connection and metering configuration requirements.

Metering configurations based upon service connection types are outlined below.

1.2 Metering Charges Table

The following table outlines the metering charges that would apply to different metering scenarios based upon the type of metering, number of metering points, and source connection. Metering charges shall include all associated labour, material, and installation costs. The associated costs from the table below shall be factored into the metering costs of a Customer connection.

<table>
<thead>
<tr>
<th>Refer to Diagrams in Section 1.3</th>
<th>Type of Metering</th>
<th>Number of Metering Points</th>
<th>Associated Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Secondary</td>
<td>1</td>
<td>No metering charges to the Customer.</td>
</tr>
<tr>
<td>2</td>
<td>Secondary</td>
<td>2 or More</td>
<td>No metering charges to Customer.</td>
</tr>
<tr>
<td>3</td>
<td>Secondary</td>
<td>2 or More in MURB or Prescribed Party*</td>
<td>No charge for first common meter – Customer required to pay only for additional common meters including installation costs, current transformers (CTs), potential transformers (PTs), Fuse Supports, and Fuses.</td>
</tr>
<tr>
<td>4</td>
<td>Primary</td>
<td>1</td>
<td>Customer pays Material Costs for current transformers (CTs), potential transformers (PTs), Fuse Supports, and Fuses only. No charge for the Meter or Labour for installation.</td>
</tr>
<tr>
<td>5</td>
<td>Primary</td>
<td>2 or More</td>
<td>All Metering Points: Customer pays Material Costs for CTs, PTs, Fuse Supports and Fuses only. No charge for Meter or Labour for installation.</td>
</tr>
</tbody>
</table>

* Developers of new multi-unit residential rental buildings and new and existing condominiums (collectively, "MURBs"), or boards of directors of condominiums, or authorized persons in charge of any other applicable class of unit under Ontario Regulation 389/10.
1.3 Metering Configuration and Associated Costing Diagrams

The following diagrams represent the different scenarios listed in the Section 1.2 Metering Charges table. These are based upon the type of metering, number of metering points, source connection, and the associated metering charges including labour, material, and installation.

Costing Nomenclature for Diagrams 1, 2, 3, 4, and 5

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Associated Metering Costs</th>
<th>Customer Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>Material Cost of Meter and Labour for Installation</td>
<td>No Charge</td>
</tr>
<tr>
<td>M</td>
<td>Material Cost of Meter and Labour for Installation</td>
<td>Full Cost</td>
</tr>
<tr>
<td></td>
<td>Material Costs for CTs, PTs, Fuse Supports, and Fuses</td>
<td>No Charge</td>
</tr>
<tr>
<td></td>
<td>Material Costs for CTs, PTs, Fuse Supports, and Fuses</td>
<td>Full Cost</td>
</tr>
</tbody>
</table>

Note: Requirements for CTs, PTs, Fuse, Fuse Supports, and Fuses will be determined by Toronto Hydro.

Diagram 1: Secondary Metering, Non-Totalized, 1 Metering Point (Typical Toronto Hydro Metering Configuration)
Diagram 2: Secondary Metering, Non-Totalized, 2 or More Metering Points

- Each meter is billed separately

Single Building

Building A

Same Customer

<table>
<thead>
<tr>
<th>Account A</th>
<th>Account B</th>
<th>Account C</th>
</tr>
</thead>
</table>

| M₁ | M₂ | M₃ |

Different Customers

<table>
<thead>
<tr>
<th>Account D</th>
<th>Account E</th>
<th>Account F</th>
</tr>
</thead>
</table>

| M₄ | M₅ | M₆ |

Secondary

Multiple Buildings

Building A

Same Customer

<table>
<thead>
<tr>
<th>Account A</th>
<th>Account B</th>
<th>Account C</th>
</tr>
</thead>
</table>

| M₁ | M₂ | M₃ |

Different Customers

<table>
<thead>
<tr>
<th>Account D</th>
<th>Account E</th>
<th>Account F</th>
</tr>
</thead>
</table>

| M₄ | M₅ | M₆ |

Secondary

Building B

Same Customer

<table>
<thead>
<tr>
<th>Account G</th>
<th>Account H</th>
</tr>
</thead>
</table>

| M₁ | M₂ |

Different Customers

<table>
<thead>
<tr>
<th>Account I</th>
<th>Account J</th>
<th>Account K</th>
</tr>
</thead>
</table>

| M₃ | M₄ | M₅ | M₆ | M₇ |

Secondary

Secondary
Diagram 3: Secondary Metering, 2 or More Common Element Metering Points in a MURB, or *Prescribed Party’s, with Totalized Common Element Metering

Single Building

Typical Common Element Metering Configuration

Totalized Common Element Metering Only
Account A

M₁ M₂ M₃

Typical Toronto Hydro Metering Configuration (refer to Diagram 2)

Account B
Account C
Account D

M₁ M₂ M₃

Secondary

Multiple Buildings

Building A

Typical Common Element Metering Configuration

Totalized Common Element Metering Only
Account A

M₁ M₂ M₃

Typical Toronto Hydro Metering Configuration (refer to Diagram 2)

Account B
Account C
Account D

M₁ M₂ M₃

Secondary

Building B

Typical Common Element Metering Configuration

Totalized Common Element Metering Only
Account E

M₁ M₂ M₃

Typical Toronto Hydro Metering Configuration (refer to Diagram 2)

Account F
Account G
Account H

M₁ M₂ M₃

Secondary

Secondary
1.4 Totalization

This section outlines the meter Totalization methods that Toronto Hydro has established and any additional costs associated with the Totalization of meter points if applicable.

Totalization is the process of aggregating, within Toronto Hydro’s meter data management system, interval data from two or more interval meters that serve separate delivery points for the purpose of creating a virtual meter point whose peak load is less than the sum of the individual interval meters. This allows the electricity demand and energy of two or more individually metered points of service to be totalized or consolidated into one billing account.

Totalization (aggregate billing) of individually metered accounts is not allowed.

However, a building that is Toronto Hydro unit smart metered may have an option of totalized billing for the common element meters in that building only. This applies to new multi-unit residential rental buildings and new and existing condominiums (collectively, “MURBs”), or boards of directors of condominiums, or authorized persons in charge of any other applicable class of unit under Ontario Regulation 389/10.