

PROCEDURE

Market Manual 5: Settlements

Part 5.6: Non-Market Settlement Programs

Issue 16.2
June 7, 2024

This *market manual* is provided for stakeholder engagement purposes. Please note that additional changes to this document may be incorporated as part of future engagement in MRP or other *IESO* activities prior to this *market manual* taking effect.

This procedure describes the *settlement amounts* associated with non-market *settlement* programs, as mandated by *applicable law*, administered by the *IESO*.

Document Change History

Issue	Reason for Issue	Date
This version of MM 5.6 has been repurposed from “Physical Markets Settlement Invoicing” to “Non-Market Settlement Programs” and contains new content to reflect the <i>settlement process</i> under the Market Renewal Program (MRP). The previous version of MM 5.6 will be obsolete post-MRP. For history prior to MRP, refer to version 16.0 and prior.		
16.1	New document for stakeholder engagement To reflect: Market Renewal Project	September 7, 2023
16.2	Updated for MRP – Final Alignment	June 7, 2024

Related Documents

Document ID	Document Title

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List of Figures

No table of figures entries found.

Table of Changes

Reference (Paragraph and Section)	Description of Change
Throughout	Changes made to conform to the new MRP style and convention for <i>market manuals</i> .
References	Removed references to MM 2.1, MM 5.2, MM 5.7 and MM 5.8 as they are not referenced in this <i>market manual</i> .

Market Transition

- A.1.1 This *market manual* is part of the *renewed market rules*, which pertain to:
- A.1.1.1 the period prior to a *market transition* insofar as the provisions are relevant and applicable to the rights and obligations of the *IESO* and *market participants* relating to preparation for participation in the *IESO administered markets* following commencement of *market transition*; and
 - A.1.1.2 the period following commencement of *market transition* in respect of all the rights and obligations of the *IESO* and *market participants*.
- A.1.2 All references herein to chapters or provisions of the *market rules* or *market manuals* will be interpreted as, and deemed to be references to chapters and provisions of the *renewed market rules*.
- A.1.3 Upon commencement of the *market transition*, the *legacy market rules* will be immediately revoked and only the *renewed market rules* will remain in force.
- A.1.4 For certainty, the revocation of the *legacy market rules* upon commencement of *market transition* does not:
- A.1.4.1 affect the previous operation of any *market rule* or *market manual* in effect before the *market transition*;
 - A.1.4.2 affect any right, privilege, obligation or liability that came into existence under the *market rules* or *market manuals* in effect prior to the *market transition*;
 - A.1.4.3 affect any breach, non-compliance, offense or violation committed under or relating to the *market rules* or *market manuals* in effect prior to the *market transition*, or any sanction or penalty incurred in connection with such breach, non-compliance, offense or violation
 - A.1.4.4 affect an investigation, proceeding or remedy in respect of,
 - (a) a right, privilege, obligation or liability described in subsection A.1.4.2, or
 - (b) a sanction or penalty described in subsection A.1.4.3.
- A.1.5. An investigation, proceeding or remedy described in subsection A.1.4.3 may be commenced, continued or enforced, and any sanction or penalty may be imposed, as if the *legacy market rules* had not been revoked.

Market Manual Conventions

The standard conventions followed for *market manuals* are as follows:

- The word 'shall' denotes a mandatory requirement;
- References to *market rule* sections and sub-sections may be abbreviated in accordance with the following representative format: '**MR Ch.1 ss.1.1-1.2**' (i.e. *market rules*, Ch. 1, sections 1.1 to 1.2);
- References to *market manual* sections and sub-sections may be abbreviated in accordance with the following representative format: '**MM 1.5 ss.1.1-1.2**' (i.e. *market manual* 1.5, sections 1.1 to 1.2);
- Internal references to sections and sub-sections within this manual take the representative format: 'sections 1.1 – 1.2';
- Terms and acronyms used in this *market manual* in its appended documents that are italicized have the meanings ascribed thereto in **MR Ch.11**;
- All user interface labels and options that appear on the *IESO* gateway and tools are formatted with the bold font style;
- Data fields are identified in all capitals.

– End of Section –

1. Introduction

1.1. Purpose

This *market manual* provides administrative and procedural details to the *market rules* governing the *settlement process*, including supplementary information relevant to understanding the rights and obligations of the *IESO* and *market participants*.

Market manuals must be read in conjunction with the applicable *market rules*. Where there is a conflict between a *market manual* and the *market rules*, the *market rules* shall prevail.

1.2. Scope

This *market manual* describes the non-market *settlement* programs as mandated by *applicable law*, administered by the *IESO*.

This *market manual* supplements the following *market rules*:

- MR Ch.6 s.4.5: Alternative Metering Installation Standards for Embedded Generation Facilities
- MR Ch.9 s.1: Introductory Rules
- MR Ch.9 s.2: Settlement Data Collection and Management
- MR Ch.9 s.6: Settlement Statements

This *market manual* also includes a listing of each hourly and non-hourly *settlement amount* by *charge type* that will appear on a *market participant's settlement statement* and *invoice*.

For *settlement amounts* associated with the *IESO-administered markets*, refer to **MM 5.5**.

1.3. Overview

The following non-market *settlement* programs are covered in this *market manual*:

- Transmission Service Charges for Embedded Generation
- Regulated Price Plan, Regulated Generation, Non-Utility Generator (NUG) Payments and Newly Contracted Generation
- Standard Offer Program (SOP)
- Other Contracted Generation
- Electricity Support Programs
- Smart Metering Charge

For the tax treatment of the *settlement amounts* in this *market manual*, refer to IESO Charge Types and Equations.

1.4. Contact Information

Changes to this *market manual* are managed via the [IESO Change Management process](#). Stakeholders are encouraged to participate in the evolution of this *market manual* via this process.

As part of the authorization and registration process¹, *market participants* are required to identify a Settlements Contact. If a *market participant* has not identified a specific contact, the *IESO* will seek to contact the Primary Contact for activities within this procedure, unless alternative arrangements have been established between the *IESO* and the *market participant*.

To contact the *IESO*, *market participants* can email *IESO* Customer Relations at customer.relations@ieso.ca or use telephone or mail. Telephone numbers and the mailing address can be found on the [IESO website](#). *IESO* Customer Relations staff will respond as soon as possible.

Market participants with a specific inquiry regarding a *settlement amount* on any *settlement statement* can refer to **MM 5.10** for further details.

– End of Section –

¹ Refer to **MM 1.5** for adding and updating contact roles with the *IESO*.

2. Submission of Data to the IESO

Unless otherwise specified, submission of data by *market participants* for non-market *settlement* programs will be made to the *IESO* via the appropriate *settlement* form available within Online IESO. Refer to training guide [Guide to Settlement Claims and Data Submissions via Online IESO](#) on the [Participant Tool Training](#) webpage for information on how to submit this data to the *IESO* and for further information regarding submission timelines.

2.1. Submission of Data – Monthly Claims

Settlement data for monthly claims can be submitted for three submission types as per Table 2-1.

Table 2-1: Submission of Data – Monthly Claims

Submission Type	Submission Window
Preliminary Settlement Submission	<p>During the 1st to 4th <i>business day</i> of the month</p> <ul style="list-style-type: none"> <i>Settlement</i> will be reflected on the <i>preliminary settlement statement</i> of the last <i>trading day</i> of the current <i>settlement</i> month
Final Settlement Submission	<p>During the 11th to 14th <i>business day</i> of the month</p> <ul style="list-style-type: none"> <i>Settlement</i> will be reflected on the <i>final settlement statement</i> of the last <i>trading day</i> of the current <i>settlement</i> month
Post Final Adjustment	<p>During the 1st to 4th <i>business day</i> of the month</p> <ul style="list-style-type: none"> Reflects any changes required to: <ul style="list-style-type: none"> the amounts submitted during the preliminary <i>settlement</i> submission, and to the amounts submitted for a previous <i>settlement</i> period. <p><i>Settlement</i> will be reflected on the <i>preliminary settlement statement</i> on the last <i>trading day</i> of the current <i>settlement</i> month.</p>

2.2. Submission of Data – Annual Claims

Annual submissions of data to the *IESO* will be made in accordance with the timelines specified in this *market manual* and include:

- Transmission services charges for embedded generation (refer to [section 3](#)); and

- Coincident peak data for Class A consumer consumption and embedded generation (refer to [section 4.5](#))

– End of Section –

3. Transmission Services Charges for Embedded Generation

If, as a host *transmission customer*, a *market participant* has an *embedded generation facility* that:

- was approved after October 30, 1998;
- is not separately registered as a *generation facility* in the *IESO-administered markets*;
- meets the applicable Ontario Transmission Rate Schedule requirement; and
- is rated at greater than or equal to 1 megawatt (MW) (2 MW for renewable *generators*²), and less than 20 MW

then the host *transmission customer* may choose to meet the existing wholesale *metering installation* standards or to use the alternative standard detailed in **MR Ch.6 s.4.5**. The alternative standard allows the host *transmission customer* to register a *meter point* for the *embedded generation facility* without a corresponding wholesale physical *meter*.

A *transmission customer* that chooses the alternative *metering installation* standard for embedded generation must determine the annual adjustment dollar value for the applicable *transmission services charges*. The adjustment amount must be agreed to by the *transmitter* and submitted to the *IESO* annually as per Table 3-1 below. In the event that the *IESO* does not receive this information in a timely manner, the installed *maximum continuous rating* (as registered) for the *embedded generation facilities* to determine an adjustment amount will be used by the *IESO*.

3.1. Calculation Methodology

Line and *transformation connection service* charges are calculated monthly for all *delivery points* with *embedded generation facilities* registered under the Alternative Metering Installation Standards for Embedded Generation Facilities per **MR Ch.6 s.4.5**.

On a monthly basis, the host *transmission customer* will:

1. download the participant *transmission tariff* data file;
2. add the hourly generation values for the *embedded generator* to the hourly *demand* data for the *delivery point* associated with the embedded generation; and

² Renewable generation refers to electricity produced by wind, solar, small hydroelectric, biomass, bio-oil, bio-gas, and landfill gas.

3. determine the new monthly maximum hourly peak value for the *delivery point* and compare it to the *settled* monthly maximum hourly peak value. If the new peak is higher, then:
 - calculate the incremental *line connection service* charges (if applicable) by multiplying the line connection tariff by the incremental peak value; and
 - calculate the incremental *transformation connection service* charges (if applicable) by multiplying the transformation connection tariff by the incremental peak value.

Annually, the host *transmission customer* must sum all monthly line and *transformation connection service* charges and obtain agreement of the *transmitter* to the proposed adjustment, if any. These totals are to be submitted to the *IESO* according to Table 3-1.

Table 3-1: Submission – Transmission Service Charges for Embedded Generation

Submission Information	Details
Submission Timeline	Annually, within three months of the calendar year end. If not received by the <i>IESO</i> within the required timeline, the <i>IESO</i> will use the installed <i>maximum continuous rating</i> (as registered) for the <i>embedded generation facilities</i> to determine the adjustment amount.
Settlement Form – Online IESO	Submission of Transmission Service Charges for Embedded Generation

– End of Section –

4. Regulated Price Plan, Regulated Generation, Non-Utility Generator (NUG) Payments and Newly Contracted Generation

The *Electricity Restructuring Act, 2004* introduced a number of important changes to the electricity market that affect both the *IESO* and *market participants*. These changes include:

- the establishment of the former *Ontario Power Authority (OPA)*;
- a regulated payment to *generators* prescribed by regulations;
- payments to *Ontario Electricity Finance Corporation (OEFC)* for non-utility *generator* (NUG) contract amounts;
- payments to the *IESO* (former *OPA*) for renewable generation and for clean generation and demand-side projects awarded as a result of a Request for Proposal (RFP) process;
- the establishment of regulated *consumer* prices beginning in April 2005, known as the Regulated Price Plan (RPP) (RPP prices are set by the *Ontario Energy Board (OEB)* from time to time); and
- the creation of a “Global Adjustment” amount, which is the difference between the contract amounts and market payments for Ontario Power Generation (OPG) regulated generation, NUG generation and RFP contracted generation and *demand-side* management.

4.1. Regulated OPG Nuclear and Baseload Hydroelectric Generation

Under the *Electricity Restructuring Act, 2004* and subsequent regulations, OPG’s nuclear and baseload hydroelectric assets will receive a regulated price. A list of OPG’s regulated assets can be found in Ontario Regulation 53/05, Payments Under Section 78.1 of the Act.

The adjustments for nuclear generation and for baseload hydroelectric generation are the differences between:

- the *market prices* paid to regulated hydroelectric generation and nuclear generation; and
- the regulated fixed rate that the regulated nuclear generation and a portion of output of the regulated hydroelectric generation should receive.

In essence, the adjustment is the difference between the amount OPG would have received at *market prices* and the amount calculated at regulated prices. The *settlement* of the

hydroelectric generation assets includes an adjustment based on the average *market prices* for the month.

The *IESO* will adjust payments to OPG and will determine a *settlement amount* under the following *charge types*, which will be included on OPG's *settlement statements*.

Table 4-1: Regulated OPG Nuclear and Baseload Hydroelectric Generation Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement
144	Regulated Nuclear Generation Adjustment Amount	Detail Record (DP)
145	Regulated Hydroelectric Generation Adjustment Amount	Manual Line Item (MP)

The *IESO* will determine a balancing *settlement amount* under the following *charge types*, which will be included on the *IESO's settlement statements*.

Table 4-2: Regulated OPG Nuclear and Baseload Hydroelectric Generation Balancing Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement
194	Regulated Nuclear Generation Balancing Amount	Detail Record (DP)
195	Regulated Hydroelectric Generation Balancing Amount	Manual Line Item (MP)

4.2. Ontario Electricity Financial Corporation (OEFC) Adjustment

Under section 78.2 of *Ontario Energy Board Act, 1998*, the *OEFC* will be paid contract amounts for all NUG output.

The *IESO* will pay *OEFC* at wholesale *market prices* for all NUG output delivered to the *IESO-controlled grid*. The difference between the monies paid out by *OEFC* to all NUGs and the monies received from the *IESO* and *distributors* (embedded NUGs) for all NUG output is submitted by *OEFC*, monthly to the *IESO* according to Table 4-3.

Table 4-3: Submission – NUG Adjustment Amount Information

Submission Information	Details
Settlement Form – Online IESO	NUG Adjustment Amount Information

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 4-4: NUG Contract Adjustment Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
143	NUG Contract Adjustment Settlement Amount	Manual Line Item (MP)	<i>OEFC</i>
193	NUG Contract Adjustment Balancing Amount	Manual Line Item (MP)	<i>IESO</i>

4.3. Renewable Generation, Clean Generation and Demand-Side Projects

4.3.1. Clean Generation and Demand-Side Projects Settlement

The *IESO* has entered into procurement contracts with certain suppliers for clean *energy* supply and *demand*-side management or *demand* response, to promote the use of clean *energy* and to assist the government in achieving its goals in electricity conservation.

The *IESO* will settle the difference between the contracted price and the wholesale *market price*, with respect to the clean generation or load reduction contracts.

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 4-5: OPA Contract Adjustment Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1400	OPA Contract Adjustment Settlement Amount	Manual Line Item (MP)	<i>IESO</i>
1450	OPA Contract Adjustment Balancing Amount	Manual Line Item (MP)	<i>IESO</i>

4.3.2. Renewable Generation Settlement

The *IESO* has entered into procurement contracts for renewable generation with certain suppliers. The *IESO* will settle the difference between the contracted price and the wholesale *market price* with respect to the renewable generation contracts.

4.3.3. Renewable Generation Connection Compensation

The cost recovery framework established by the *Green Energy Act, 2009* is set out in Ontario Regulation 330/09 under the *Ontario Energy Board Act, 1998* and allows local distribution companies (LDCs) to recover certain costs associated with the connection of

new renewable generation to their local *distribution system* from all electricity *consumers* in Ontario (i.e. renewable generation contracted after the *OEB* issued its revised cost responsibility rules on October 21, 2009). These costs are approved by the *OEB*.

The portion of aggregate renewable generation connection compensation that each eligible *distributor* receives is determined by the *OEB*.

The portion of aggregate renewable generation connection compensation that a *market participant* is charged is determined by the *market participant's* net volume of electricity withdrawn (AQEW) from the *IESO-controlled grid* during the month. For a licensed *distributor*, this will also include the volume of embedded generation submitted to the *IESO*, divided by the sum of all amounts (net electricity withdrawn and embedded generation) for every *market participant*.

Note: The volume of electricity supplied to Fort Frances Power Corporation Distribution Inc. by Abitibi-Consolidated Inc. is excluded from the calculation.

The licensed *distributor* will submit the embedded generation values monthly to the *IESO* according to Table 4-6.

Table 4-6: Submission – Renewable Generation Connection Compensation

Submission Information	Details
Settlement Form – Online IESO	Embedded Generation, Energy Storage and Class A Load Information

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 4-7: Renewable Generation Connection Compensation Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1413	Renewable Generation Connection – Monthly Compensation Settlement Credit	Manual Line Item (MP)	Eligible LDC
1463	Renewable Generation Connection – Monthly Compensation Settlement Debit	Manual Line Item (MP)	Load customers

4.3.4. Conservation and Demand Management Programs

Under section 78.5 of the *Ontario Energy Board Act, 1998*, the *IESO* must make payments to a *distributor* or LDC for amounts approved by the *OEB* for conservation and *demand management* (CDM). Specifically, these payments relate to the recovery of costs for Board-

approved CDM initiatives that are undertaken by LDCs to meet the CDM targets set out in their licenses, and to associated performance initiatives.

The *IESO* will make these payments as directed by the *OEB*, and will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 4-8: Conservation and Demand Management Programs Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1416	Conservation and Demand Management – Compensation Settlement Credit	Manual Line Item (MP)	Eligible LDC
1466	Conservation and Demand Management – Compensation Balancing Amount	Manual Line Item (MP)	<i>IESO</i>

4.4. Regulated Price Plan (RPP)

The Regulated Price Plan (RPP) is an *OEB*-mandated pricing mechanism for low-volume and designated *consumers*. There are three Regulated Price Plans:

- a tiered pricing structure with conventional meters; and
- two time-of-use (TOU) pricing structures with TOU meters (also known as “smart meters”).

The tiered pricing structure sets a lower fixed price for *energy* consumption up to a monthly threshold amount, with consumption above this level at a higher price. The *OEB* adjusts both the threshold amount and prices once a year, for the period November 1 (year X) to October 31 (year X+1).

The time-of-use (TOU) pricing structures, which include the standard TOU and the ultra-low overnight (ULO), establish prices for *energy* based on when the *energy* is consumed. As with the tiered RPP, the *OEB* adjusts TOU prices once a year.

The categories for prices and consumption times under the standard TOU are as follows:

Category	Times
On-peak	<p>On-peak reflects times when average <i>demand</i> is highest.</p> <p>The on-peak periods are:</p> <ul style="list-style-type: none"> from 7 a.m. to 11 a.m. and from 5 p.m. to 7 p.m. on winter weekdays³ from 11 a.m. to 5 p.m. on summer weekdays.
Mid-peak	<p>Mid-peak reflects the shoulder periods between on-peak and off-peak times.</p> <p>The mid-peak periods are:</p> <ul style="list-style-type: none"> from 11 a.m. to 5 p.m. on winter weekdays from 7 a.m. to 11 a.m. and from 5 p.m. to 7 p.m. on summer weekdays.
Off-peak	<p>Off-peak reflects times when average <i>demand</i> is lowest.</p> <p>The off-peak periods are:</p> <ul style="list-style-type: none"> from 7 p.m. to midnight and midnight to 7 a.m. on winter and summer weekdays 24 hours (all day) on winter and summer weekends and holidays.

The categories for prices and consumption times under the ultra-low overnight (ULO) are as follows:

Category	Times
On-peak	<p>On-peak reflects times when average <i>demand</i> is highest.</p> <p>The on-peak period is:</p> <ul style="list-style-type: none"> from 4 p.m. to 9 p.m. on weekdays, all year
Mid-peak	<p>Mid-peak reflects the shoulder periods between on-peak and weekend off-peak times.</p> <p>The mid-peak period is:</p> <ul style="list-style-type: none"> from 7 a.m. to 4 p.m. and from 9 p.m. to 11 p.m. on weekdays, all year
Weekend off-peak	<p>Reflects times:</p> <ul style="list-style-type: none"> between 7 a.m. and 11 p.m. on weekends and holidays, all year.
Ultra-low overnight	<p>Reflects times:</p> <ul style="list-style-type: none"> between 11 p.m. and 7 a.m. everyday, all year.

³ Summer and winter periods are as defined by the OEB and can be found on their website (Electricity rates | Ontario Energy Board (oeb.ca))

Distributors must calculate the difference between the payments received from regulated *consumers* subject to RPP and the wholesale cost of power, including the amount of the Global Adjustment allocated to the RPP portion of a *distributor's* load. RPP eligible *consumers* are defined by regulation.

Distributors that are *market participants* must submit this information monthly basis to the *IESO* noting the amount of the claim for each category. The respective *settlement* form in Table 4-9 is used to submit all information required from the *distributor*, embedded *distributor* or participating *retailer* to balance the *IESO-administered market*.

Table 4-9: Submission – Regulated Price Plan

Submission Information	Details
Settlement Form – Online IESO	<ul style="list-style-type: none"> Regulated Price Plan vs. Market Price – Variance for Conventional Meters Regulated Price Plan vs. Market Price – Variance for Smart Meters

The *IESO* adjusts *settlement amounts* for directly-connected *consumers* who are eligible for the RPP for the net volume of electricity withdrawn from the *IESO-controlled grid* not covered by *physical bilateral contracts*.

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 4-10: Regulated Price Plan Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
142	Regulated Price Plan Settlement Amount	Manual Line Item (MP)	LDC
192	Regulated Price Plan Balancing Amount	Manual Line Item (MP)	<i>IESO</i>

4.4.1. Declaration Required for Designated Consumers

The *Ontario Energy Board Act, 1998* and the regulations thereunder define 'designated consumer'. Wholesale *market participants* who qualify as 'designated consumers', must inform the *IESO* by submitting the online form "Declaration of Designated Consumer" located on the *IESO* Gateway.

Market participants who satisfy the *IESO* that they qualify as designated *consumers* are *settled* at the RPP rate.

4.4.2. Opt Out Provisions

Eligibility of *market participants* to opt out of the RPP is based on the following provisions:

- directly-*connected* load-consuming *market participants* meeting the regulated definition of “low-volume *consumers*” or “designated *consumers*” may opt out of RPP for all *registered facilities* for which they play the role of a *metered market participant*, provided the *facilities* have interval metering.

Market participants must inform the *IESO* in writing if they wish to exercise this option.

4.5. Global Adjustment

Ontario Regulation 398/10 made under the *Electricity Act, 1998* which amended Ontario Regulation 429/04 significantly changed the Global Adjustment, creating two classes of *market participants* with different approaches to the distribution of the global adjustment costs. The regulation further added the costs related to *distributor* developed conservation and demand management programs to the Global Adjustment pool.

The *IESO* makes monthly adjustments to *settlement amounts* to reflect the portion of the Global Adjustment allocated to each *market participant* with load in Ontario. The total Global Adjustment for a month is the sum of the *charge types* shown in Table 4-11.

For further certainty, and without otherwise affecting its interpretation, for the purposes of this [section 4.5](#), references to load facilities, as defined in Ontario Regulation 429/04, includes the withdrawing component of *electricity storage facilities*.

Table 4-11: Global Adjustment Charge Types

Charge Type #	Charge Type Name
143	NUG Contract Adjustment Settlement Amount
144	Regulated Nuclear Generation Adjustment Amount
145	Regulated Hydroelectric Generation Adjustment Amount
1400	OPA Contract Adjustment Settlement Amount
1410	Renewable Energy Standard Offer Program Settlement Amount
1411	Clean Energy Standard Offer Program Settlement Amount
1412	Feed-In Tariff Program Settlement Amount
1414	Hydroelectric Contract Initiative Settlement Amount
1416	Conservation and Demand Management – Compensation Settlement Credit
1418	Biomass Non-Utility Generation Contracts Settlement Amount

Charge Type #	Charge Type Name
1419	Energy from Waste (EFW) Contracts Settlement Amount
1425	Hydroelectric Standard Offer Program Settlement Amount

4.5.1. Market Participant Load Facility Classification

The *market participant's* portion of the Global Adjustment depends on the amount of load that they have withdrawn from the *IESO-controlled grid* at each of its load facilities, as defined in Ontario Regulation 429/04. There are two methods for the distribution of the Global Adjustment.

4.5.1.1 Method 1A – Class A Market Participant Load Facilities

Class A *market participant* load facilities are defined by the following criteria:

- The *market participant* is neither a licensed *distributor* nor a regulated *consumer*.
- The *market participant* was a *market participant* throughout the applicable Base Period.
- The load facility meets the definition of load facility in Ontario Regulation 429/04.
- The total volume of electricity, as determined by the *IESO*, supplied by the *market participant* to the *IESO-controlled grid* or to the *distribution systems* of licensed *distributors* during the applicable Base Period did not exceed the total volume of electricity the *market participant* withdrew from the *IESO-controlled grid* or the *distribution systems* of licensed *distributors* during that Base Period.
- The maximum hourly demand⁴ for electricity for each load facility, as defined in Ontario Regulation 429/04, in a month, determined independently, exceeds an average of 5 MW for the applicable Base Period.

4.5.1.2 Method 1B – Optional Class A Market Participant Load Facilities

For Adjustment Periods commencing on or after July 1, 2017, optional Class A *market participant* load facilities are defined by the following criteria:

- The *market participant* is neither a licensed *distributor* nor a regulated *consumer*.
- The *market participant* was a *market participant* throughout the applicable Base Period.
- The *market participant* elects to be a Class A *market participant* for the load facility for the applicable Adjustment Period, or has made such an election for a prior

⁴ Demand in these references refers to Allocated Quantity of Energy Withdrawn (AQEW) from the *IESO-controlled grid*.

Adjustment Period and the election has not been revoked. Written notice of the election must be made to the *IESO* no later than June 15 of the calendar year in which the Adjustment Period begins.

- The load facility meets the definition of load facility in Ontario Regulation 429/04.
- The total volume of electricity, as determined by the *IESO*, supplied by the *market participant* to the *IESO-controlled grid* or to the *distribution systems* of licensed *distributors* during the applicable Base Period did not exceed the total volume of electricity the *market participant* withdrew from the *IESO-controlled grid* or the *distribution systems* of licensed *distributors* during that Base Period.
- The maximum hourly demand for electricity for each load facility, as defined in Ontario Regulation 429/04, in a month, determined independently, exceeds an average of 1 MW but is less than or equal to an average of 5 MW for the applicable Base Period.

4.5.1.3 Global Adjustment – Base Period and Adjustment Period for Class A Market Participant Load Facilities

There are two periods that relate to the eligibility and *settlement* of the Global Adjustment for Class A *market participant* load facilities:

1. Base Period is the period during which the load pattern of the *market participant* will determine potential Class A qualification.
2. Adjustment Period is the *settlement* period over which that Class A qualification will be applied.

The Base Periods and related Adjustment Periods for 2012 and beyond are shown in Table 4-12.

Table 4-12: Global Adjustment Base Period and Adjustment Period

Base Period	Adjustment Period
May 1, 2011 to April 30, 2012	July 1, 2012 to June 30, 2013
May 1, 2012 to April 30, 2013	July 1, 2013 to June 30, 2014
May 1, (Year X) to April 30, (Year X+1)	July 1, (Year X+1) to June 30, (Year X+2)

4.5.1.4 Method 2 – Class B Market Participant Load Facilities

All other *market participant* load facilities, as defined in Ontario Regulation 429/04, that consume electricity, excluding licensed *distributors* are considered Class B load.

Exception

All registered load facilities, as defined in Ontario Regulation 429/04, associated with *market participants* that were deemed to be Class A in the May 1, 2011 to April 30, 2012 Base Period will be treated as Class A if the aggregated maximum hourly demand for electricity of all registered load facilities, as defined in Ontario Regulation 429/04, in a month exceeds an average of 5 MW in future Base Periods.

Opt Out

Market participant load facilities, as defined in Ontario Regulation 429/04, eligible for Class A treatment based on the eligibility criteria noted above for any Base Period may elect to deem the load facility as Class B for the related Adjustment Period. This election must be made annually via written notice to the IESO on or before June 15 in any year.

4.5.2.Global Adjustment – Settlement

4.5.2.1 Class A Market Participant Load Facilities and Distributors with Class A Consumers

Class A *market participant* load facilities, as defined in Ontario Regulation 429/04, and *distributors* with Class A *consumers* will be apportioned their share of the total Global Adjustment amount for each month in a defined Adjustment Period based on a “Peak Demand Factor” calculation based on their load pattern in the related Base Period.

The IESO will determine, for the appropriate Base Period, the five hours during which the greatest volume of electricity was dispatched through the *IESO-administered markets* for the purposes of supplying Ontario demand. The five peak hours shall occur on different days during the Base Period.

The Ontario demand is defined as the Ontario generation dispatched into the *IESO-controlled grid* plus any imports, net of the following adjustments:

- a) the total *energy* injected into the *IESO-controlled grid* from *generators* that have not submitted *offers*;
- b) the total *energy* dispatched outside of Ontario from the *IESO-controlled grid*;
- c) the total *energy* associated with off-market transactions such as the *segregated mode of operation*, emergency *energy* acquired or provided to meet system *reliability* needs, simultaneous activation of *operating reserve* and inadvertent interchange as a result of differences between scheduled and actual *intertie* flow; and
- d) the total *energy* resulting from over or under generation in the event of differences during the balancing of supply and *demand*.

$$\begin{aligned}
 \text{Ontario Demand} &= \text{Total Energy} \\
 &+ \text{Total Generation Without Offers} \\
 &- \text{Total Exports} \\
 &+ \text{Total Off Market} \\
 &+/- \text{Over/Under Generation}
 \end{aligned}$$

The Peak Demand Factor (PDF) for a Class A *market participant* will be based on their consumption coincident with the five peak hours identified for the Base Period. The Peak Demand Factor will be calculated as follows:

$$\begin{aligned}
 \text{Peak Demand Factor} &= \frac{\sum_{\text{Peak Hours}} \text{Coincident Class A Market Participant Consumption}}{\sum_{\text{Peak Hours}} \text{Peak System Consumption}}
 \end{aligned}$$

The Peak System Consumption for the Peak Hour is the hourly AQEW from the *IESO-controlled grid*, net of several adjustments, including:

- the net volume of *embedded generation* offsetting the load of licensed *distributors*;
- the net volume of *energy* withdrawn at the Sir Adam Beck Pump Generating Station;
- the net volume of *energy* withdrawn by Fort Frances Power Corporation under its *physical bilateral contract* with Abitibi-Consolidated Hydro Limited Partnership; and
- the net volume of *energy* withdrawn by *market participants* in the course of providing *ancillary services* in accordance with the *market rules*.

The coincident peak consumption amounts for Class A *market participants* or for *distributors* with Class A *consumers* will be determined from AQEW values derived for *settlement* in the Base Period. Annually, *distributors* will submit the amount of Class A *consumer* load coincident with peak hours at the end of the appropriate Base Period along with the *embedded generation* that has offset the load in their distribution territory coincident with the peak hours. Refer to Table 4-13.

Note:

- Injections to the *IESO-controlled grid* during the peak hours should not be included in the *distributor's embedded generation* data submission to the *IESO*.

- *Distributors* are not required to provide the *IESO* with peak hour volumes for *generation facilities* that are eligible for net metering (Ontario Regulation 541/05) if that volume has offset the related load. If the volume is greater than the related load, the amount injected to the *distribution system* should be submitted to the *IESO*.
- The submission includes *embedded generation* volumes for all non-contracted *generation facilities* and all contracted *generation facilities* (Renewable Energy Standard Offer Program (RESOP), Hydroelectric Contract Initiative (HCI) and Feed-In Tariff (FIT) Program). The contracted *embedded generation* volumes are reported for the peak hour they are metered, regardless of the contract approval status.

The Global Adjustment assigned to a Class A *market participant* load facility, as defined in Ontario Regulation 429/04, or *distributors* with Class A *consumers* for a month in the Adjustment Period will be determined by multiplying the Peak Demand Factor by the total Global Adjustment for the month.

Table 4-13: Submission – Coincident Peak Data for Class A Consumer Consumption and Embedded Generation

Submission Information	Details
Submission Timeline	Annually – April, 1 st to 15 th <i>business day</i> . Revisions for special form fields – June 15 th to 23 rd
Settlement Form – Online IESO	Coincident Peak Data for Class A Consumer Consumption, Embedded Generation and Energy Storage

4.5.2.2 Class B Market Participant Load Facilities and Distributors

Class B *market participant* load facilities, as defined in Ontario Regulation 429/04, will be assigned a portion of the total Global Adjustment for any month based on the net volume of electricity withdrawn from the *IESO-controlled grid* for the month.

All *generators* will be considered Class B *market participant* load facilities, as defined in Ontario Regulation 429/04, when consuming electricity from the *IESO-controlled grid*. Some *generators* that consume electricity either when providing *ancillary services* or for consumption related to the Beck Pump Generating Station will have this amount netted off their total consumption.

Distributors will be assigned a portion of the Global Adjustment based on the net volume of electricity withdrawn from the *IESO-controlled grid* for the month plus *embedded generation* that has offset the load in their territory less Class A *consumer* consumption in the month.

The *distributor* data submission includes *embedded generation* offsetting load, total *embedded generation*, Class A *consumer* consumption, and electricity storage injections/withdrawal. The data must be submitted monthly to the *IESO* according to Table 4-14.

Table 4-14: Submission – Embedded Generation, Energy Storage and Class A Load Information

Submission Information	Details
Settlement Form – Online IESO	Embedded Generation, Energy Storage and Class A Load Information

Note:

- *Distributors* should not submit injections/generation or withdrawal/load from *IESO market participants*.
- The submission must include embedded generation volumes for all non-contracted *generation facilities* and all contracted *generation facilities* (RESOP, HCI and FIT Program). The contracted embedded generation volumes are reported for the month they are metered, regardless of the contract approval status.
- *Distributors* are not required to provide the *IESO* with volumes for *generation facilities* that are eligible for net metering (Ontario Regulation 541/05) if that volume has offset the related load. If the volume is greater than the related load, the amount injected to the *distribution system* should be submitted to the *IESO*. This applies to the submission of *embedded generation* offsetting load, total embedded generation and electricity storage injections/withdrawals.
- Injections to the *IESO-controlled grid* should not be included in the *distributor's* embedded generation offsetting load data submission to the *IESO*.

The total amount of Global Adjustment assigned to all Class B *market participants* and licensed *distributors* will exclude the Global Adjustment allocated to Class A *market participants* and licensed *distributors* with Class A *consumers*.

The total Class B consumption for the month will be calculated as follows:

$$\begin{aligned}
 \text{Total Class B Load} &= \text{Total AQEW} \\
 &+ \text{Embedded generation offsetting the load of licensed distributors} \\
 &- \text{Beck Pump Generating Station AQEW} \\
 &- \text{Fort Frances Power Corporation under its physical bilateral contract amount} \\
 &- \text{AQEW related to the providing ancillary services} \\
 &- \text{AQEW of Class A market participant load facilities and LDC Class A consumers} \\
 &- \text{Electricity Storage Injections from Class B market participant and consumer electricity storage facilities}
 \end{aligned}$$

4.5.2.3 Class B Rates

The *IESO* will be calculating and posting a Class B Global Adjustment rate for *distributors* to use in *settling* with their Class B *consumers*. This rate will be published three times in a given month as follows:

Rate Published	Calculation Date
First Estimate	Calculated on the last <i>business day</i> of the previous month.
Second Estimate	Calculated on the last <i>business day</i> of the month.
Actual Class B Rate	Calculated on the 10 th <i>business day</i> of the following month.

The estimated rates will be based on estimates of the Class B Global Adjustment amounts and Class B Consumption. The final rate will be calculated based on actual values for the month.

Corrections from a prior period due to *embedded generation* or Class A load amounts will be recovered from the *IESO-administered market* using Class B current *settlement* month load quantities. The prior period Class B load quantities relating to the period of correction are not being used for recovery.

First Estimate

The estimated Class B Global Adjustment amount and Class B Consumption will be calculated as shown in Table 4-15 for the First Estimate.

Table 4-15: First Estimate – Class B Global Adjustment Amount and Class B Consumption

Class B Global Adjustment Amount	Class B Consumption
Estimated Global Adjustment for the previous month (e.g. for March use estimate for February)	Estimated load for the month
Plus/Minus corrections for the estimates used in previous month calculations	
Multiplied by [1- Total Peak Demand Factors for current Adjustment Period]	Plus <i>embedded generation</i> values used in the <i>settlement</i> of the month two months prior (e.g. estimate for March based on submissions for January)

Class B Global Adjustment Amount	Class B Consumption
	Minus Class A <i>market participant</i> load facility and <i>consumer</i> load used in the <i>settlement</i> of the month two months prior
	Minus Fort Frances load for the month
	Minus Sir Adam Beck PGS load used in the <i>settlement</i> of the month two months prior
	Minus load associated with the provision of <i>ancillary services</i> used in the <i>settlement</i> of the month two months prior
	Minus Class B <i>market participant</i> and <i>consumer electricity storage facility</i> injections used in the <i>settlement</i> of the month two months prior

The rate will be calculated (to the nearest cent) as:

Class B Global Adjustment Amount ÷ Class B Consumption

Second Estimate

The estimated Class B Global Adjustment amount and Class B Consumption will be calculated as shown in Table 4-16 for the Second Estimate.

Table 4-16: Second Estimate – Class B Global Adjustment Amount and Class B Consumption

Class B Global Adjustment Amount	Class B Consumption
Estimated Global Adjustment for the month	Estimated load for the month
Plus/Minus final adjustment of previous months Global Adjustment	
Plus/Minus corrected Global Adjustment for prior periods (results from Global Adjustment distributions corrections related to revenue metering adjustments for prior periods)	Plus embedded generation values used in the <i>settlement</i> of the previous month

Class B Global Adjustment Amount	Class B Consumption
Multiplied by [1 – Total Peak Demand Factors for current Adjustment Period]	Minus Class A <i>market participant</i> load facility and <i>consumer</i> load used in the <i>settlement</i> of the previous month
	Minus Fort Frances load for the month
	Minus Sir Adam Beck PGS load used in the <i>settlement</i> of the previous month
	Minus load associated with the provision of <i>ancillary services</i> used in the <i>settlement</i> of the previous month
	Minus Class B <i>market participant</i> and <i>consumer electricity storage facility</i> injections used in the <i>settlement</i> of the previous month

The rate will be calculated (to the nearest cent) as:

Class B Global Adjustment Amount ÷ Class B Consumption

Actual Rate

The Class B Global Adjustment amount and Class B Consumption will be calculated as shown in Table 4-17 for the Actual rate.

Table 4-17: Actual Rate – Class B Global Adjustment Amount and Class B Consumption

Class B Global Adjustment Amount	Class B Consumption
Preliminary Global Adjustment for the month	Preliminary <i>settlement</i> load for the month
Plus/Minus final adjustment of previous months Global Adjustment	
Plus/Minus corrected Global Adjustment for prior periods (results from Global Adjustment distributions corrections related to revenue metering adjustments for prior periods)	Plus <i>embedded generation</i> values used in the <i>settlement</i> of the month
Multiplied by [1 – Total Peak Demand Factors for current Adjustment Period]	Minus Class A <i>market participant</i> load facility and <i>consumer</i> load used in the <i>settlement</i> of the month
	Minus Fort Frances load for the month
	Minus Sir Adam Beck PGS load used in the <i>settlement</i> of the month
	Minus load associated with the provision of <i>ancillary services</i> used in the <i>settlement</i> of the month

Class B Global Adjustment Amount	Class B Consumption
	Minus Class B <i>market participant</i> and <i>consumer electricity storage facility</i> injections used in the <i>settlement</i> of the month

The rate will be calculated (to the nearest cent) as:

Class B Global Adjustment Amount ÷ Class B Consumption

4.5.2.4 Electricity Storage Injection Reimbursement

As per Ontario Regulation 516/17 (amending Ontario Regulation 429/04), effective July 1, 2018, Class B *market participants* and *consumers* with *electricity storage facilities* are to be reimbursed Class B Global Adjustment amounts each month based on the amount of *energy* they inject into the *IESO-controlled grid* (for *market participants*) or the grid of their *distributor* (for *consumers*) in that month.

Distributors are compensated based on the volume of *energy* storage injections they submit monthly basis to the *IESO* according to Table 4-18.

Table 4-18: Submission – Energy Storage Injections

Submission Information	Details
Settlement Form – Online IESO	Embedded Generation, Energy Storage and Class A Load Information

4.5.2.5 Class A Market Participant/Consumer Changes in the Adjustment Period

There are a number of potential situations that can impact the classification of Class A *consumers* and Class A *market participant* load facilities, as defined in Ontario Regulation 429/04, and their Global Adjustment treatment over the Adjustment Period. These include:

1. Class A customer or load facility ceases operation.
2. Class A load facility moves either from being a *market participant* to a *distributor* customer or vice-versa.
3. A Class A load facility changes ownership.
4. A Class A load facility elects to become a Class B customer due to “Extraordinary Circumstances” under provisions set out in the regulation.

In the event that any of these situations occur, the owner of the Class A load facility must inform the *IESO* or their licensed *distributor*. Depending on the situation, the *distributor* must inform the *IESO*, or alternatively, the *IESO* must inform the *distributor*, as soon as possible so the proper treatment of the Global Adjustment can be determined.

4.5.2.6 Monthly Settlement

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *market participant's settlement statement* for the last *trading day* of the month.

Table 4-19: Global Adjustment Settlement Amount

Charge Type Number	Charge Type Name	Applicability/ Settlement Statement	
147	Class A Global Adjustment Settlement Amount	Detail Record (DP) Manual Line Item (MP)	<i>Market participants</i> with eligible Class A load facilities, as defined in Ontario Regulation 429/04, or <i>distributors</i> with Class A <i>consumers</i> .
148	Class B Global Adjustment Settlement Amount	Detail Record (DP) Manual Line Item (MP)	Class B <i>market participants</i> or <i>distributors</i> .
1148	GA Energy Storage Injection Reimbursement	Detail Record (DP) Manual Line Item (MP)	Electricity storage injection reimbursement for Class B <i>market participants</i> or <i>distributors</i> .
2148	Class B Global Adjustment Prior Period Correction Settlement Amount	Manual Line Item (MP)	For the impacted <i>market participant</i> , any prior period corrections for <i>charge type</i> 148 resulting from post-final changes to input data (e.g. embedded generation, electricity storage or load quantities) for a <i>settlement</i> month prior to the <i>RSS commencement date</i> .
6148	Class B Global Adjustment Deferral Recovery Amount	Manual Line Item (MP)	For the impacted <i>market participant</i> , post-final changes to input data impacting <i>charge type</i> 6148. The corrective <i>settlement</i> will be balanced to the Class B <i>market</i> using Class B current <i>settlement</i> month load quantities.

The *IESO* will determine a balancing *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 4-20: Global Adjustment Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
196	Global Adjustment Balancing Amount	Detail Record (DP)	<i>IESO</i>
197	Global Adjustment – Special Programs Balancing Amount	Detail Record (DP)	<i>IESO</i> (for special programs relating to conservation and demand management)

– End of Section –

5. Standard Offer Program (SOP)

5.1. Renewable Energy Standard Offer Program (RESOP)

The *OPA*, as predecessor to the *IESO*, and the *Ontario Energy Board (OEB)* developed a RESOP for small *generators* that use renewable *resources*. These *generators* connect to electricity *distribution systems* at *distribution* voltages that are 50kV or less. Standard Offer Program (SOP) projects have a maximum size of 10 MW, and may include any renewable *resource* type that qualifies as a renewable *resource* in the Renewable Energy Supply II RFP including wind, small hydroelectric, solar, and some bio-mass. No minimum project size was proposed.

As of October 1, 2009, the RESOP was replaced by the FIT Program under the *Green Energy Act, 2009*⁵. New renewable *energy* supply projects will come under this umbrella of the new FIT Program and the *IESO* will no longer accept new RESOP applications. Projects that have already been approved under RESOP will continue according to their contracts. The terms and conditions of executed contracts, including the rates, will be unaffected by the new FIT Program. Refer to [section 5.2](#) for further details.

To the extent of any inconsistency between the provisions of the RESOP rules and this section, the RESOP rules shall govern.

The SOP provides a “standard price” which eligible *generators* receive by simply complying with the eligibility criteria. Contract terms are typically for 20 years. For the first year of commercial operation, all eligible renewable *resource* type projects (except solar photovoltaic) will be paid a base rate of 11.13 cents per kilowatt hour for all kilowatt hours delivered. Projects that can demonstrate *generation* control are eligible for an additional 3.52 cents per kilowatt hour for all electricity delivered during on-peak hours. For solar photovoltaic projects, a price of 42.0 cents per kilowatt hour is established to conduct price discovery on this technology.

Under the SOP, *generators* are paid directly for every kilowatt hour of electricity produced at the price set out in their standard offer contract.

Distributors must calculate the difference between the contracted payments to SOP participants and the wholesale *market price* for the same volume of electricity and submit this difference, noting the amount of the claim for each category, monthly to the *IESO* according to Table 5-1. Information required from the *distributor* and embedded *distributor* is indicated on the *settlement* form.

⁵ The *Green Energy Act, 2009* was introduced in the Ontario Legislature on February 23, 2009.

Table 5-1: Submission – Renewable Energy Standard Offer Program

Submission Information	Details
Settlement Form – Online IESO	Renewable Energy Standard Offer Program (RESOP) – LDC & Embedded LDC

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 5-2: Renewable Energy Standard Offer Program Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1410	Renewable Energy Standard Offer Program Settlement Amount	Manual Line Item (MP)	LDC
1460	Renewable Energy Standard Offer Program Balancing Amount	Manual Line Item (MP)	<i>IESO</i>

5.2. Feed-in Tariff Program (FIT)

The *IESO* has entered into procurement contracts under the Feed-in Tariff (FIT) Program with certain suppliers to encourage renewable generation to participate in a variety of technologies and their respective applications. The FIT Program will support renewable *energy* generation alternatives including wind, biomass, small hydro and solar photovoltaic. For suppliers that are directly *connected* to the *IESO-controlled grid*, the *IESO* will settle these contracts directly. For suppliers (i.e. *generators*) embedded within a *distribution system*, the *distributors* will settle these contracts with the *embedded generators*.

To the extent of any inconsistency between the provisions of the FIT Program Rules and this section, the FIT Program Rules shall govern.

Distributors must calculate the difference between the amount paid to the supplier for electricity produced calculated at wholesale *market prices*, and the amount calculated at the contract price. The adjustment can be either positive or negative, charged or paid to the *distributors* who will settle the contracts with the individual suppliers. *Distributors* must submit this difference monthly to the *IESO* according to Table 5-3.

Table 5-3: Submission – Feed-In Tariff Program

Submission Information	Details
Settlement Form – Online IESO	Feed-In Tariff Program – LDC & Embedded LDC

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 5-4: Feed-in Tariff Program Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1412	Feed-in Tariff Program Settlement Amount	Manual Line Item (MP)	LDC
1462	Feed-in Tariff Balancing Amount	Manual Line Item (MP)	<i>IESO</i>

5.3. Hydroelectric Contract Initiative (HCI)

The *IESO* has entered into procurement contracts under the Hydroelectric Contract Initiative (HCI) with qualified existing hydroelectric *generation facilities* to increase Ontario's supply of clean, renewable generation. The HCI supports new contracts for hydroelectric *facilities* that are *connected* to the *IESO-controlled grid* but not owned by OPG. For large *facilities* (generally ≥ 10 MW) that are directly *connected* to the *IESO-controlled grid*, the *IESO* will *settle* these contracts directly. For small *facilities* (generally < 10 MW) embedded within a *distribution system*, the *distributors* will *settle* these contracts with the participating *embedded generators*.

To the extent of any inconsistency between the provisions of the HCI rules and this section, the HCI rules shall govern.

Distributors must calculate the difference between the amount paid to the participating *embedded generators* for electricity produced calculated at wholesale *market prices*, and the amount calculated at the contract price. The adjustment can be either positive or negative, charged or paid to the *distributors* who will settle the contracts with the individual *generators*. *Distributors* must submit this difference monthly to the *IESO* according to Table 5-5.

Distributor who have a participating *generation facility* can contact *IESO* Customer Relations for instructions on submitting HCI claims at customer.relations@ieso.ca.

Table 5-5: Submission – Hydroelectric Contract Initiative

Submission Information	Details
Settlement Form – Online IESO	Hydroelectric Contract Initiative

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 5-6: Hydroelectric Contract Initiative Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1414	Hydroelectric Contract Initiative Settlement Amount	Manual Line Item (MP)	LDC
1464	Hydroelectric Contract Initiative Balancing Amount	Manual Line Item (MP)	<i>IESO</i>

5.4. Hydroelectric Standard Offer Program (HESOP)

The *IESO* has entered into agreements under the Hydroelectric Standard Offer Program (HESOP) to support the continued development of hydroelectric capacity in Ontario. Procurements under HESOP have concluded. The HESOP program has been developed in two separate streams:

- Municipal Stream: new-build waterpower projects larger than 500 kilowatts (kW) that were the subject of an application to the Feed-in Tariff Program submitted before June 5, 2010.
- Expansion Stream: incremental hydroelectric capacity projects at non-utility generation (NUG) *facilities* under contract with the *OEFC*, and incremental hydroelectric capacity projects at *facilities* under contract with the *IESO* as part of the Hydroelectric Contract Initiative (HCI).

Distributors must calculate the difference between the amount paid to the supplier for electricity produced calculated at wholesale *market prices*, and the amount calculated at the contract price. The adjustment can be either positive or negative, charged or paid to the *distributors* who will settle the contracts with the individual suppliers. *Distributors* must submit this difference monthly to the *IESO* according to Table 5-7.

Table 5-7: Submission – Hydroelectric Standard Offer Program

Submission Information	Details
Settlement Form – Online IESO	Hydroelectric Standard Offer Program (HESOP)

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 5-8: Hydroelectric Standard offer Program Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1425	Hydroelectric Standard Offer Program Settlement Amount	Manual Line Item (MP)	LDC
1475	Hydroelectric Standard Offer Program Balancing Amount	Manual Line Item (MP)	<i>IESO</i>

– End of Section –

6. Other Contracted Generation

6.1. Biomass NUG and Energy from Waste (EFW) Contracts

The *IESO* has entered into individual procurement contracts for renewable generation supplied by Biomass Non-Utility Generation (NUG) and Energy from Waste (EFW) suppliers.

These contracts are not part of any pre-existing *IESO* programs. Each contract will be settled directly by the respective licensed *distributor* (LDC).

The LDC must submit the difference between the contracted price and the wholesale *market price* monthly to the *IESO* according to Table 6-1.

Table 6-1: Submission – Biomass NUG and Energy from Waste Contracts

Submission Information	Details
Settlement Form – Online IESO	Procurement Contracts

The contract payments will be recovered through the global adjustment.

For Biomass NUG, the *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 6-2: Biomass NUG Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1418	Biomass Non-Utility Generation Contracts Settlement Amount	Manual Line Item (MP)	LDC
1468	Biomass Non-Utility Generation Contracts Balancing Amount	Manual Line Item (MP)	<i>IESO</i>

For Energy from Waste, the *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 6-3: Energy From Waste Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1419	Energy from Waste (EFW) Contracts Settlement Amount	Manual Line Item (MP)	LDC

Charge Type Number	Charge Type Name	Settlement Statement	
1469	Energy from Waste (EFW) Contracts Balancing Amount	Manual Line Item (MP)	<i>IESO</i>

– End of Section –

7. Electricity Support Programs

7.1. Ontario Electricity Support Program

The Ontario Electricity Support Program (OESP) was established by the Ministry of Energy to provide assistance to eligible low-income electricity *consumers* following the conclusion of the Ontario Clean Energy Benefit (OCEB) on December 31, 2015. Based on income level and household size, the qualified low-income electricity *consumer* will receive a predetermined credit on their electricity bills.

As described in [Ontario Regulation 314/15](#), the *IESO* will distribute funds to *distributors* and unit sub-meter providers (USMPs) for the OESP credits they have applied to eligible *consumers'* bills and compensate service providers⁶ for the administrative costs of OESP.

Claims are submitted monthly to the *IESO* according to Table 7-1.

Note:

- *Distributors* and USMPs that are *market participants* will submit OESP claims. Licensed *distributors* will submit OESP claims both for themselves and also on behalf of the embedded *distributors*.
- Service providers must be registered as program participants in order to obtain reimbursement from the *IESO*.

Table 7-1: Submission – Ontario Electricity Support Program (OESP)

Submission Information	Details
Settlement Form – Online IESO	<p><i>Distributors</i> and USMP that are <i>market participants</i> and licensed <i>distributors</i>:</p> <ul style="list-style-type: none"> • Ontario Electricity Support Program (OESP) – LDC & USMP <p>Service providers:</p> <ul style="list-style-type: none"> • Ontario Electricity Support Program (OESP) – Service Providers

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

⁶ The service providers are the entities as defined by OESP regulation, O. Reg. 314/15.

Table 7-2: Ontario Electricity Support Program Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1420	Ontario Electricity Support Program Settlement Amount	Manual Line Item (MP)	LDC, USMPs, service providers
2470	MOE - Ontario Electricity Support Program Balancing Amount	Manual Line Item (MP)	<i>Ministry of Energy</i>

7.2. Ontario Rebate for Electricity Consumers Act, 2016

The *Ontario Rebate for Electricity Consumers Act, 2016* (“OREC”) was enacted to provide financial assistance for certain Ontario electricity *consumers* in respect of electricity costs. As described in the Act and Ontario Regulations 363/16 and 364/16, *consumers* with eligible accounts receive a reduction in the amount payable before tax under their electricity accounts for each *billing period*. The Act and the regulations have been in force as of January 1, 2017.

Ontario Regulation 363/16 requires the *IESO* to reimburse licensed *distributors* that are *market participants* for the financial assistance they have provided to *consumers* that have eligible accounts with:

- the *distributor*;
- any wholly-embedded *distributors* of which the licensed *distributor* is the host *distributor*; and
- any licensed retailers that use retailer-consolidated billing for financial assistance and that conduct business in the licensed *distributor’s* service area or the service area of a wholly-embedded *distributor* for whom the licensed *distributor* is the host *distributor*.

The regulations also require the *IESO* to reimburse USMPs⁷ for the financial assistance they have provided to *consumers* that are entitled to receive financial assistance. A *consumer* who is a *market participant* and has an eligible account is entitled to have a credit equal to the applicable financial assistance appear on their *invoice* for each *billing period*.

Licensed *distributors* and USMPs that are *market participants* must submit their claims for reimbursement monthly to the *IESO* according to the subsections that follow.

⁷ “Unit sub-meter provider” is defined in the Ontario Rebate for Electricity Consumers Act, 2016.

7.2.1. Settlement of Ontario Rebate for Electricity Consumers (OREC) Claims

The 8% reduction of the base *invoice* amount under the OREC for eligible *consumers* was in effect for the *billing periods* from January 1, 2017 to October 31, 2019.

Licensed *distributors* and USMPs that are *market participants* must submit their OREC claims monthly to the *IESO* as a post-final adjustment according to Table 7-3.

Table 7-3: Submission – Ontario Rebate for Electricity Consumers (OREC)

Submission Information	Details
Settlement Form – Online IESO	Ontario Rebate for Electricity Consumers (OREC) – LDC & USMP

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 7-4: Ontario Rebate for Electricity Consumers (OREC) Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
9982	Ontario Rebate for Electricity Consumers (8% Provincial Rebate) Settlement Amount	Manual Line Item (MP)	LDC, USMPs
1467	Ontario Rebate for Electricity Consumers (8% Provincial Rebate) Balancing Amount	Manual Line Item (MP)	Ministry of Energy, Northern Development and Mines

7.2.2. Settlement of Ontario Rebate for Electricity (OER) Claims

The 33.2% reduction of the base *invoice* amount under the OER for eligible *consumers* is in effect for the *billing periods* beginning November 1, 2020.

Licensed *distributors* and USMPs that are *market participants* must submit their OER claims monthly to the *IESO* according to Table 7-5.

Table 7-5: Submission – Ontario Rebate for Electricity (OER)

Submission Information	Details
Settlement Form – Online IESO	Ontario Electricity Rebate (OER) – LDC & USMP

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 7-6: Ontario Rebate for Electricity (OER) Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
9983	Ontario Electricity Rebate Settlement Amount	Manual Line Item (MP)	LDC and USMPs
1457	Ontario Electricity Rebate Balancing Amount	Manual Line Item (MP)	Ministry of Energy, Northern Development and Mines

7.2.3. Settlement of OREC-OESP Variance

USMPs that submitted both OREC and OESP claims for the *billing periods* from January 1, 2017 to October 31, 2019 on behalf of eligible *consumers* must remit OREC-OEP variance monthly to the *IESO* as a post-final adjustment according to Table 7-7.

Table 7-7: Submission – OREC-OESP Variance

Submission Information	Details
Settlement Form – Online IESO	OREC-OESP Variance – USMP

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 7-8: OREC-OESP Variance Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
9982	Ontario Rebate for Electricity Consumers (8% Provincial Rebate) Settlement Amount	Manual Line Item (MP)	USMPs
1467	Ontario Rebate for Electricity Consumers (8% Provincial Rebate) Balancing Amount	Manual Line Item (MP)	Ministry of Energy, Northern Development and Mines

7.2.4. Settlement of OER-OESP Variance

USMPs that submitted both OER and OESP claims for the *billing periods* effective November 1, 2019 on behalf of eligible *consumers* must remit OER-OESP variance monthly to the *IESO* as a post-final adjustment according to Table 7-9.

Table 7-9: Submission – OREC-OESP Variance

Submission Information	Details
Settlement Form – Online IESO	OER-OESP Variance – USMP

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 7-10: OER-OESP Variance Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
9983	Ontario Electricity Rebate Settlement Amount	Manual Line Item (MP)	USMPs
1457	Ontario Electricity Rebate Balancing Amount	Manual Line Item (MP)	Ministry of Energy, Northern Development and Mines

7.3. Fair Hydro Act, 2017

The *Fair Hydro Act, 2017* makes amendments to the *Electricity Act, 1998*, and the *Ontario Energy Board Act, 1998*, implementing a variety of initiatives broadly targeting residential customers along with some small businesses and farms. Additional programs being implemented under the *Act* specifically relate to residential customers in rural or remote areas and First Nations reserves.

7.3.1. First Nations On-reserve Delivery Credit

As part of the *Fair Hydro Act, 2017*, the First Nations On-reserve Delivery Credit (FNDC) provides a credit to a customer of a licensed *distributor* that occupies residential premises located on or within a reserve and has a residential-rate account with that *distributor*. The amount of the delivery credit is prescribed in Ontario Regulation O. Reg. 197/17.

Licensed *distributors* must submit their claims for reimbursement of the FNDC credits paid to their eligible customers, monthly to the *IESO* according to Table 7-11.

Table 7-11: Submission – First Nations On-reserve Delivery Credit

Submission Information	Details
Settlement Form – Online IESO	First Nations On-reserve Delivery Credit (FNDC)

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 7-12: First Nations On-reserve Delivery Credit Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
705	Ontario Fair Hydro Plan First Nations On-reserve Delivery Credit	Manual Line Item (MP)	LDC
755	MOE – Ontario Fair Hydro Plan First Nations On-reserve Delivery Balancing Amount	Manual Line Item (MP)	Ministry of Energy

7.3.2. Distribution Rate Protection (DRP)

As part of the *Fair Hydro Act, 2017*, the Distribution Rate Protection (DRP) program sets maximum monthly base distribution charges for eligible residential customers of certain utilities. The eligibility requirements can be found in Ontario Regulation O. Reg. 198/17. The maximum monthly base distribution rate is set at least once a year by the *OEB*. As the *DRP* program caps the base distribution charges, *distributors* must calculate the actual total base distribution charge and compare this to the maximum charge approved by the *OEB* and charge no more than the maximum amount.

Licensed *distributors* must submit their claims for reimbursement of the *DRP* credits paid to their eligible customers, monthly to the *IESO* according to Table 7-13.

Table 7-13: Submission – Distribution Rate Protection

Submission Information	Details
Settlement Form – Online IESO	Distribution Rate Protection (DRP)

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 7-14: Distribution Rate Protection Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
706	Ontario Fair Hydro Plan Distribution Rate Protection Amount	Manual Line Item (MP)	LDC
756	MOE – Ontario Fair Hydro Plan Distribution Rate Protection Balancing Amount	Manual Line Item (MP)	Ministry of Energy

7.4. COVID-19 Energy Assistance Program (CEAP and CEAP-SB)

The COVID-19 Energy Assistance Program was established by the Ministry of Energy, Northern Development and Mines (ENDM) as an expansion of the Low Income Energy Assistance Program (LEAP) to provide assistance to residential customers, small business customers, and registered charities who are struggling to pay their *energy* bills or are in arrears on their bills as a result of COVID-19. This program has been extended for the fiscal year 2021-22 by the ENDM. Refer to [section 7.4.3](#) and the letter [OEB CEAP and CEAP-SB Funding Allocation](#) for further details.

The Ministry has entered into a transfer agreement with the *IESO* to reimburse, up to a cap specified by the *OEB*, licensed *distributors* and USMPs for CEAP credits that they have provided to *consumers* that have eligible accounts with:

- the licensed *distributor*;
- wholly embedded *distributors* of which the licensed *distributor* is the host *distributor*; and
- USMPs that are serving residential customers under CEAP and small business customers and registered charities under CEAP-SB.

Licensed *distributors* and USMPs registered with the *IESO* must submit their claims monthly to the *IESO* for reimbursement according to the applicable subsections that follow.

7.4.1. Settlement of COVID-19 Energy Assistance Program (CEAP) Claims

In order to maximize the ability of CEAP to provide the intended benefits, the *OEB* has determined that CEAP must be available to residential electricity customers prior to the end of the winter disconnection ban July 31. Therefore, licensed *distributors* and USMPs must start accepting applications for CEAP as of July 13, 2020.

Licensed *distributors* and USMPs must submit their CEAP forms monthly to the *IESO* according to Table 7-16

Table 7-15: Submission – COVID-19 Energy Assistance Program (CEAP)

Submission Information	Details
Settlement Form – Online IESO	COVID-19 Energy Assistance Program (CEAP)

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 7-16: COVID-19 Energy Assistance Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1477	COVID-19 Energy Assistance Program (CEAP) Settlement Amount	Manual Line Item (MP)	LDC and USMP
9984	COVID-19 Energy Assistance Program (CEAP) Balancing Amount	Manual Line Item (MP)	Ministry of Energy

7.4.2. Settlement of COVID-19 Energy Assistance Program – Small Business (CEAP-SB) Claims

Licensed *distributors* and USMPs must submit their CEAP-SB claims monthly to the *IESO* according to Table 7-17.

Table 7-17: Submission – COVID-19 Energy Assistance Program – Small Business (CEAP-SB)

Submission Information	Details
Settlement Form – Online IESO	COVID-19 Energy Assistance Program - Small Business

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 7-18: COVID-19 Energy Assistance Program – Small Business (CEAP-SB) Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1477	COVID-19 Energy Assistance Program (CEAP) Settlement Amount	Manual Line Item (MP)	LDC and USMP
9984	COVID-19 Energy Assistance Program (CEAP) Balancing Amount	Manual Line Item (MP)	Ministry of Energy

7.4.3. COVID-19 Energy Assistance Program 2021-22 (CEAP 2021-22)

The *IESO* will begin accepting CEAP 2021-22 submissions by licensed *distributors* and USMPs beginning May 1, 2021.

Licensed *distributors* and USMPs must submit their residential and small business claims monthly to the *IESO* according to Table 7-19.

Table 7-19: Submission – COVID-19 Energy Assistance Program 2021-22

Submission Information	Details
Settlement Form – Online IESO	COVID-19 Energy Assistance Program 2021-22 (CEAP 2021-22)

The *IESO* will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 7-20: COVID-19 Energy Assistance Program 2021-22 Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
1477	COVID-19 Energy Assistance Program (CEAP) Settlement Amount	Manual Line Item (MP)	LDC and USMP
9984	COVID-19 Energy Assistance Program (CEAP) Balancing Amount	Manual Line Item (MP)	Ministry of Energy

7.5. Northern Energy Advantage Program (NEAP)

The Ministry of Northern Development, Mines, Natural Resources and Forestry (MNDMNRF) has created and administers the Northern Energy Advantage Program (NEAP) to assist Northern Ontario's largest industrial electricity *consumers* by providing a rebate incentive to the development and implementation of long term efficiency and sustainability measures.

NEAP is a rebate incentive program which will be paid quarterly at a rate of \$20/MWh for electricity consumed and individual rebates are capped at 2017 to 2020 average consumption levels, subject to the terms and conditions of the program rules and the NEAP funding agreements between the MNDMNRF and the participant. The program rules, as amended from time to time, apply to the NEAP, previously known as the Northern Industrial Electricity Rate Program (NIERP), effective April 1, 2022.

The *IESO* is contracted by MNDMNRF to provide *settlement* services and will determine a *settlement amount* under the following *charge types*, which will appear on the respective *settlement statement* for the last *trading day* of the quarter.

Table 7-21: Northern Energy Advantage Program (NEAP) Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
121	Northern Energy Advantage Program Settlement Amount	Manual Line Item (MP)	NEAP program participants

Charge Type Number	Charge Type Name	Settlement Statement	
171	Northern Energy Advantage Program Balancing Amount	Manual Line Item (MP)	Ministry of Northern Development-Mines and Forestry

Refer to the NEAP program rules for eligibility requirements and payment conditions available on the [MNDMNR](#) website.

– End of Section –

8. Smart Metering Charge

The Smart Metering Entity (SME) manages the meter data management/repository (MDM/R) to collect, manage, store and retrieve information related to the metering of electricity use in Ontario.

Effective May 1, 2013, the costs of developing and operating the MDM/R will be recovered by a Smart Metering Entity charge levied and collected from all licensed *distributors* (LDCs) identified in the *OEB's* annual "Yearbook of Electricity Distributors". The Smart Metering Entity charge is the *OEB* approved rate per month for each LDC's Residential and General Service (<50 kW) customers. The latest Yearbook of Electricity Distributors, available on January 1st, is used to determine the Residential and General Service (<50 kW) customers for each LDC for that calendar year.

The Smart Metering Entity charge is applied monthly and includes the charges for the following month.

The *IESO* will determine a *settlement amount* under the following *charge type*, which will appear on the respective *settlement statement* for the last *trading day* of the month.

Table 8-1: Smart Metering Charge Settlement Amount

Charge Type Number	Charge Type Name	Settlement Statement	
9980	Smart Metering Charge	Manual Line Item (MP)	LDC
9980	Smart Metering Charge	Manual Line Item (MP)	<i>IESO</i>

– End of Section –

Appendix A: Forms

This appendix contains a list of forms associated with this procedure, which are available on the [IESO website](#). The forms included are listed in Table A-1 below:

Table A-1: Forms

Form Name	Form Number
Declaration of Designated Consumer	IMO_FORM_1507

Note: *Electricity storage participants* are required to use the above form. This form is expected to be updated if and as necessary to include language specific to *electricity storage facilities* and *electricity storage participants*. Until such time, any questions from *electricity storage participants* relating to how to fill out the form correctly may be addressed by *IESO Customer Relations*.

– End of Section –

References

Document ID	Document Title
MDP_RUL_0002	Market Rules for the Ontario Electricity Market
PRO-408	Market Manual 1: Connecting to Ontario's Power System, Part 1.5: Market Registration Procedures
PRO-665	Market Manual 5: Settlements, Part 5.10: Settlement Disagreements
IMP_LST_0001	IESO Charge Types and Equations
	Guide to Settlement Claims and Data Submissions via Online IESO
	<i>Electricity Act, 1998</i>
	Regulation 398/10
	Regulation 429/04
	Regulation 430/04
	Regulation 516/17
	<i>Electricity Restructuring Act, 2004</i>
	<i>Fair Hydro Act, 2017</i>
	<i>Green Energy Act, 2009</i>
	<i>Ontario Energy Board Act, 1998</i>
	Regulation 541/05
	Regulation 197/17
	Regulation 198/17
	Regulation 330/09
	OEB Retail Settlement Code
	<i>Ontario Rebate for Electricity Consumers Act, 2016</i>
	Regulation 363/16

Document ID	Document Title
	Regulation 364/16
IMO_AGR_0013	Settlement Agreement between Ontario Power Generation Inc. and the Independent Electricity Market Operator
	Order-in-Council 141/2006

– End of Document –