

# MRP Implementation: Summary of Interim Alignment Batch Amendments

## Interim Alignment Batch Changes

In order to facilitate the implementation of the market renewal program (MRP), changes are required to both *market rules* and *market manuals*. Due to the volume and complexity of changes anticipated in MRP, the IESO is releasing changes by 'batches'. This document describes the changes in the Interim Alignment Batch.

The Interim Alignment Batch contains changes to both *market rules* and *market manuals*. The amendments proposed in this batch are intended to improve the alignment between the defined terms that have been introduced in this and previous batches, correct for any identified inconsistencies between previously provisionally approved batches, and incorporate *electricity storage resources*, which have not been introduced up to this point in the MRP *market rules* or manuals. This batch contains the following *market rule* amendment proposals:

- MR00461-R03: Defined Terms
- MR00457-R00: Market Manual and Batch Alignment items
- MR00457-R01: Load Resources
- MR00457-R02: Storage Integration
- MR00457-R03: Resource Related Updates

To support these market rule amendments, the following *market manuals* are also being amended:

- MM 1.5: Market Registration Procedures
- MM 5.4: Prudential Support
- MM 14.1: Market Power Mitigation Procedures

- MM 14.2: Reference Level and Reference Quantity Procedures

This document will begin by outlining the *market rule* amendments contained in each proposal, and will then outline the amendments being stakeholdered in each *market manual*.

# Market Rule Amendments

## MR-00461-R03: Defined Terms

The majority of defined terms amended in this proposal are consequential to the introduction of the *resource* term in the first batch of MRP *market rule* amendments. Other amendments to defined terms are related to the incorporation of *electricity storage resources*, as well as the introduction of a few new defined terms to support MRP implementation. Including these amendments in this current batch will reduce the volume of amendments necessary in subsequent batches.

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Defined Term	Purpose of amendment
automatic generation control (AGC)	Regulation services are provided and managed at a <i>resource</i> level, as such the references to <i>facility</i> with this definition are being replaced with the new defined term <i>resource</i> .
called capacity export	Capacity exports are provided at a <i>resource</i> level, and so references to <i>unit</i> are replaced with the new defined term <i>resource</i> .
capacity auction eligible generation resource	The <i>capacity auction</i> defined terms currently use the word <i>resource</i> , these defined terms are now being amended to integrate the new defined term <i>resource</i> . As well, reference is included to the new defined term <i>dispatchable</i> .
capacity auction eligible import resource, capacity auction eligible storage resource, capacity auction resource, capacity dispatchable load resource	The <i>capacity auction</i> defined terms currently use the word <i>resource</i> , these defined terms are now being amended to integrate the new defined term <i>resource</i> .
capacity export request	Capacity exports are provided at a <i>resource</i> level, and so references to unit are replaced with the new defined term <i>resource</i> .
certified black start facility	The defined term <i>registered facility</i> was removed in MR-00461-R00. This proposed amendment will adjust this definition by

Defined Term	Purpose of amendment
	referring to the facility and the provisions in Chapter 9 that outline <i>black start facilities</i> .
combined cycle plant	The current defined term <i>enhanced combined cycle facility</i> includes a definition for combined cycle <i>facilities</i> . Future batches are expected to require a direct reference to combined cycle technologies: this new definition creates this direct reference and allows for the simplification of the <i>enhanced combined cycle facility</i> definition.
constrained off dispatchable load, constrained off event, constrained off facility,  constrained off generation unit,	The defined terms related to the congestion management <i>settlement</i> credits (CMSC) will no longer be required. Many instances of these terms were removed in MR-00455-R00 which deleted appendix 7.6 in its entirety. Any remaining instances of these terms will be removed in subsequent batches.
control centre	The defined term <i>registered facility</i> was removed in MR-00461-R00. This proposed amendment will adjust this definition by referring to a <i>facility</i> and any associated <i>resources</i> .
curtailment	The new <i>resource price responsive load</i> , is to be treated similarly to <i>non-dispatchable load</i> in real time. The addition of <i>price responsive load</i> to the term <i>curtailment</i> facilitates this similar treatment.
demand response contributor	Term is being updated to integrate the defined term <i>load equipment</i> , which is more appropriate than <i>load facility</i> .
A designated constrained-off watch zone	The defined terms related to the congestion management <i>settlement</i> credits (CMSC) will no longer be required. Many instances of these terms were removed in MR-00455-R00 which deleted appendix 7.6 in its entirety. Any remaining instances of these terms will be removed in subsequent batches.
electricity storage station service	The defined term <i>registered facility</i> was removed in MR-00461-R00. This proposed amendment will adjust this definition by referring to the new <i>resource</i> definitions.
electricity storage resource	This new defined term will facilitate the integration of electricity storage into the market renewal market rules.

Defined Term	Purpose of amendment
electricity system	The defined term <i>registered facility</i> was removed in MR-00461-R00. This proposed amendment will adjust this definition by referring to <i>facilities</i> registered with the <i>IESO</i> in accordance with the <i>facility</i> registration requirements in Chapter 7.
embedded load facility	<i>Dispatchable load</i> and <i>non-dispatchable loads</i> are <i>resource</i> types, however this definition is at an equipment level, in that it refers to a <i>facility</i> . As such, the term is re-structured to refer to a <i>facility</i> level rather than a <i>resource</i> level.
enhanced combined cycle facility	Definition is being amended to reference the new defined term <i>combined cycle plant</i> , including the removal of a component of the definition that will now reside in the definition of a <i>combined cycle plant</i> .
Exemption	Definition is being amended to reference the new defined term <i>resource</i> .
flexible nuclear generation, flexible nuclear generator	Definition is being amended to reference the new defined term <i>resource</i> .
generation station service	Definition is being amended to reference the new defined term <i>resource</i> .
historical reference price	The defined terms related to the congestion management <i>settlement</i> credits (CMSC) will no longer be required. Many instances of these terms were removed in MR-00455-R00 which deleted appendix 7.6 in its entirety. Any remaining instances of these terms will be removed in subsequent batches.
hourly demand response resource	The <i>capacity auction</i> defined terms currently use the word <i>resource</i> , these defined terms are now being amended to integrate the new defined term <i>resource</i> .
intermittent generation resource	Definition is being amended to reference the new defined term <i>resource</i> . Additionally, the name of the defined term is being edited to be referred to an <i>intermittent generation resource</i> rather than <i>intermittent generator</i> . As a <i>generator</i> is defined as a <i>market participant</i> , the name <i>intermittent generation resource</i> is more appropriate as the use of this term is applied in a <i>resource</i> context, rather than a <i>market participant</i> context.

Defined Term	Purpose of amendment
investigated facility, investigated price	The defined terms related to the congestion management <i>settlement</i> credits (CMSC) will no longer be required. Many instances of these terms were removed in MR-00455-R00 which deleted appendix 7.6 in its entirety. Any remaining instances of these terms will be removed in subsequent batches.
load equipment	The term <i>load</i> was created as a defined term in Batch 1, MR-00461-R00 to refer to pieces of equipment that consume energy from the <i>integrated power system</i> . It has since been determined that this may lead to confusion with other unrelated uses of the term "load" such as those found in sections related to forecasting. To provide greater clarity, the defined term <i>load</i> is being renamed as <i>load equipment</i> . This will require changes to where the term was used in the Market Entry and Prudential Security batch, which are included in the MR-00457-R00 proposal.
load resource, major dispatchable load facility	Definition is amended to reflect the new defined term <i>load equipment</i> .
major generation facility	Definition is amended to reflect the new defined term <i>resource</i> .
minor dispatchable load facility	Definition is amended to reflect the new defined term <i>load equipment</i> .
non-committed resource	The <i>capacity auction</i> defined terms currently use the word <i>resource</i> , these defined terms are now being amended to integrate the new defined term <i>resource</i> .
non-dispatchable load	Definition is being amended to reflect the new defined term <i>load resource</i> .
operating deviation	The defined term <i>registered facility</i> was removed in MR-00461-R00. This proposed amendment will adjust this definition accordingly.
operating result	The defined term <i>registered facility</i> was removed in MR-00461-R00. This proposed amendment will adjust this definition accordingly.

Defined Term	Purpose of amendment
pre-dispatch day	To improve clarity, references to pre-dispatch day will be replaced with references to the specific day, so this term will no longer be required.
price responsive load	Definition is being amended to be consistent in style and structure with the definitions for other load types, and mirrors the definition for <i>non-dispatchable loads</i>
pseudo-unit	The existing definition, which was updated in MR-00461-R00 to integrate the <i>resource</i> definition, is being amended here to reference the new defined term <i>combined cycle plant</i> . Note that the calculation engine batch also proposed a similar revision to this definition. The version of this definition proposed here replaces the version that was stakeholdered as part of the calculation engine batch.
reference price	The defined terms related to the congestion management <i>settlement</i> credits (CMSC) will no longer be required. Many instances of these terms were removed in MR-00455-R00 which deleted appendix 7.6 in its entirety. Any remaining instances of these terms will be removed in subsequent batches.
reliability must-run contract	The definition is being amended to reference the new defined term <i>electricity storage resource</i> .
reliability must-run resources	The definition is being amended to reference the new defined term <i>resource</i> .
remaining duration of service	The definition is being amended to integrate the defined term <i>electricity storage resource</i> .
request for Segregation	The definition is being amended to reference the new defined term <i>resource</i> .
resource	The definition is being amended to integrate the new defined terms <i>electricity storage resource</i> and <i>load equipment</i> .
segregated mode of operation	The defined term <i>registered facility</i> was removed in MR-00461-R00. This proposed amendment will adjust this definition accordingly.

Defined Term	Purpose of amendment
self-schedule	Scheduling happens on a <i>resource</i> basis, so this definition is being amended to reference the new defined term <i>resource</i>
self-scheduling electricity storage facility	This defined term is being amended to reference the new defined term <i>self-scheduling electricity storage resource</i> . Additional clarity is also being added to the existing requirement that <i>self-scheduling facilities</i> be comprised of entirely <i>self-scheduled resources</i> .
self-scheduling electricity storage resource	Scheduling happens on a <i>resource</i> basis, so this new defined term will support the integration of the <i>resource</i> concept into the <i>market rules</i> .
self-scheduling generation facility	This defined term is being amended to reference the new defined term <i>self-scheduling generation resource</i> . Additional clarity is also being added to the existing requirement that <i>self-scheduling facilities</i> be comprised of entirely <i>self-scheduled resources</i> .
self-scheduling generation resource	Scheduling happens on a <i>resource</i> basis, so this new defined term will support the integration of the <i>resource</i> concept into the <i>market rules</i> .
significant dispatchable load facility	Definition is amended to reflect the new defined term <i>load equipment</i> .
transitional scheduling generator	This defined term is no longer required and is being removed. Instances of its use are being amended in MR-00457-R03.

**MR-00457-R00: Market Manual and Batch Alignment items**

Market Manual 1.5 has been undergoing review as a part of MRP. As part of this review, a number of improvements have been identified, to improve clarity in Market Manual 1.5’s coverage and consistency with the *market rules*. Some of these improvements have required amendments to the *market rules*, which are proposed in this amendment document. Other amendments are proposed to make appropriate references to new, or modified, defined terms and correct typographical errors.

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Chapter	Section	Topic	Purpose of Amendment
2	3.1.1	Application for Authorization	Specified that a completed <i>application for authorization to participate</i> must be filed in accordance with the applicable <i>market manual</i> .
2	3.1.5	Application for Authorization	This section was formerly section 3.1.8. It was moved as part of a reorganization of sections 3 and 4 of Chapter 2.
2	3.1.6	Application for Authorization	This section was formerly section 3.1.10. It was moved as part of a reorganization of sections 3 and 4 of Chapter 2.
2	4 and 4.1	Orders Authorizing Participation	Former sections 3.1.5 and 4 have been amalgamated into section 4 to remove duplicative sections of the <i>market rules</i> .
2	4.1.1	Authorization Orders	This section amalgamates the obligations and authorities found in former sections 3.1.5 and 4.1.1.
2	4.1.2	Authorization Orders	This new section moves IESO authority to amend a conditional order or extend the date by which the applicant must satisfy the conditions from the market manuals to the market rules.
2	4.1.3	Authorization Orders	This new section moves IESO authority to terminate or suspend a conditional order from the market manuals to the market rules.
2	4.1.4	Authorization Orders	This new section moves application authority to request to extend or renew a lapsed order from the market manuals to the market rules.
2	4.1.5	Authorization Orders	This section was formerly section 3.1.6. The reference to section 4.1.1 was removed as it is no longer required.

Chapter	Section	Topic	Purpose of Amendment
2	Former section 3.1.5	Application for Authorization	Former sections 3.1.5 and 4 have been amalgamated into section 4 to remove duplicative sections of the <i>market rules</i> .
2	Former 3.1.5A, 3.1.5B and 3.1.5C	Application for Authorization	With the revision of this section, the intentionally left blanks are no longer required.
2	Former section 3.1.6	Application for Authorization	This section has been moved to new section 4.1.5
2	Former section 3.1.7	Application for Authorization	This section has been moved to new section 4.1.11.
2	Former section 3.1.8	Application for Authorization	This section has been moved to new section 3.1.5.
2	Former section 3.1.9	Application for Authorization	With the revision of this section, the intentionally left blanks are no longer required.
2	Former 3.1.10	Application for Authorization	This section has been moved to new section 3.1.6
2	Former 3A	Intentionally Left Blank	With the revision of this section, the intentionally left blanks are no longer required.
2	Former 4 and 4.1	Conditional Authorization	With the inclusion in the new section 4.1.1 to include "or conditionally authorize" these headings are no longer required.

Chapter	Section	Topic	Purpose of Amendment
2	Former 4.1.1	Conditional authorization	This section has been amalgamated in the new section 4.1.1 by the inclusion of "or conditionally authorize".
2	4.1.6	Authorization Orders	This section, formerly section 4.2.1, has been in part moved and some new content has been included for clarification purposes.
2	4.1.7	Authorization Orders	This section was formerly 4.2.2.2. It has been moved as part of the reorganization of former sections 3 and 4 and the cross references have been updated. Some additional language is added to provide clarity.
2	4.1.8	Authorization Orders	This new section moves applicant authority to request that the <i>IESO</i> extend the date by which a condition must be met from the <i>market manuals</i> to the <i>market rules</i> .
2	4.1.9	Authorization Orders	This new section amalgamates the content from former sections 4.2.1.2 and 4.2.2.1.
2	Former 4.2.1.3	Conditional Authorization	The content of this section has been integrated into new section 4.1.6.2.
2	Former 4.2.2	Conditional Authorization	The content of former section 4.2.2 has been moved to new sections 4.1.7 and 4.1.9.
2	Former 4.2.3 and 4.2.4	Conditional Authorization	These numbering placeholders are no longer required.
2	4.1.10	Authorization Orders	Former section 4.2.5 has been moved to new section 4.1.10. Note a concurrent amendment is being proposed to this section (formerly 4.2.5) in MR-00457-R02.

Chapter	Section	Topic	Purpose of Amendment
2	4.1.11	Authorization Orders	New section 4.1.11 was former section 3.1.7. Section cross references have been updated to reflect the new ordering of the section.
2	Former 4.2.5	Conditional Authorization	Former section 4.2.5 has been moved to new section 4.1.10.
2	5.3.10A	Price bases used for determining minimum trading limit and default protection amount	The Market Entry and Prudential Security batch amended this section to refer to the <i>locational marginal price</i> as the price basis. The Market Power Mitigation batch created a defined term for the <i>locational marginal price</i> , which is reflected in this amendment. Please note concurrent amendment proposed in MR-00457-R01.
2	5.6	Margin call requirements and no margin call option for physical transactions	Amendment to correct a typographical error.
App 2.3	1.7	Prudential support by way of cash or treasury bills	Italicization - "physical transactions" is replaced with the defined term <i>physical transactions</i> .
7	2.1.1	Requirements for operating on the grid.	<p>Section references for market power mitigation have been added in section 2.1.1.4.</p> <p>Section 2.1.1.5 has been modified to remove the references to specific <i>resource</i> types as this is now integrated into section 22.9.</p> <p>In section 2.1.1.6, the two separate defined terms <i>market control entity</i> and <i>physical withholding</i> have been replaced with the single new defined term, <i>market control entity for physical withholding</i>, which was defined in the Market Power Mitigation batch. A cross reference has been updated to reflect a new section created in the Market Power Mitigation batch. Note a</p>

Chapter	Section	Topic	Purpose of Amendment
			<p>concurrent amendment is proposed for this section in MR-00457-R01.</p> <p>Section 2.1.1.7 is new and requires completion of all applicable registration procedures set out in the <i>market manual</i> before the <i>IESO</i> authorizes a <i>market participant</i>.</p>
7	2.2.1	Facility and Associated Resources registration	Specify that the registration of equipment must be completed in accordance with the applicable <i>market manual</i> . Additionally, in the title, Facilities is made singular.
7	2.2.1A	Facilities and Associated Resources registration	Intentionally left blank section is removed as doing so does not impact any subsequent numbering.
7	2.2.2	Facilities and Associated Resources registration	An additional reference to the registration requirements for storage (section 21), is now included to align with the requirements for such registration in Market Manual 1.5. Section 2.2.2.2, currently an intentionally left blank, is removed as doing so does not impact any subsequent numbering.
7	2.2.3.1	Facilities and Associated Resources registration	Integrating the resource term dispatchable load.
7	2.2.6.8	Facilities and Associated Resources registration	Replacing the term load with the new defined term <i>load equipment</i> .
7	2.2.6G	Facilities and Associated Resources registration	Integrating the new defined term <i>combined cycle plant</i> . Additionally, references to the <i>day-ahead market</i> , pre-dispatch scheduling process and <i>real time market</i> are removed as they are now considered unnecessary.

Chapter	Section	Topic	Purpose of Amendment
7	2.3 and 2.3.2A	Aggregated Generation Units or Sets of Load Equipment	Title is being amended to reflect the replacement of <i>load</i> with <i>load equipment</i> . Note the title and the section are also being amended in MR-00457-R01 to integrate storage resources. Reference to <i>load</i> is replaced with the new defined term <i>load equipment</i> , and a reference to scheduling in the <i>day-ahead market</i> is removed as it is considered unnecessary.
7	22.15.11	Conditions for Operating Reserve testing	Registered <i>dispatchable load</i> is replaced with maximum load-active power to be consistent with the <i>market manual</i> .

### MR-00457-R01: Load Resources

*Price Responsive Loads* are a new *resource* type that can submit *bids* in the *day-ahead market*, but are treated as a *non-dispatchable load* in real-time. As it is its own *resource* type, *price responsive loads* will be referred to explicitly in the appropriate sections of the *market rules*. This amendment proposal will focus on including *price responsive loads* in these sections, outside of sections that are likely to be amended in forthcoming batches. It will also clarify the participation requirements for *price responsive loads* in virtual *hourly demand response* portfolios. Other amendments are proposed that will integrate the terms *load equipment* and *load resource* which were established in the Market Entry and Prudentials batch, into the *market rules*.

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Chapter	Section	Topic	Purpose of Amendment
App 2.2	1.2.2.1	Technical Requirements for Monitoring and Control	Modified language that includes both <i>non-dispatchable load</i> and <i>price responsive load</i> .
App 2.2	1.2.2.2	Technical Requirements for Monitoring and Control	Explicit reference to <i>dispatchable</i> and <i>non-dispatchable load facilities</i> is removed, so that the remaining term <i>load facilities</i> includes both as well as <i>price responsive loads</i> .

Chapter	Section	Topic	Purpose of Amendment
App 2.2	1.2.5.1	Technical Requirements for Monitoring and Control	Modified language that includes both <i>non-dispatchable load</i> and <i>price responsive load</i> .
App 4.17		IESO Monitoring Requirements: Connected Wholesale Customers and Distributors	Modified language that includes both <i>non-dispatchable load</i> and <i>price responsive load</i> .
App 4.18		IESO Monitoring Requirements: Embedded Load Consumers	Modified language that includes both <i>non-dispatchable load</i> and <i>price responsive load</i> .
App 4.20		IESO Monitoring Requirements: Transmitter Performance Standards	See Above.
App 4.22		IESO Monitoring Requirements: Distributors and Connected Wholesale Customer Performance Standards	See Above.
App 4.23		IESO Monitoring Requirements: Embedded Load Consumers Performance Standards	See Above.
5	2.3	Emergency operating state	Reference to <i>non-dispatchable load</i> is removed and the defined term <i>curtailment</i> , which has been amended in MR-00461-R03 to include both <i>non-dispatchable loads</i> and <i>price responsive loads</i> .

Chapter	Section	Topic	Purpose of Amendment
5	4.8	Reliability must run resources	The term <i>dispatchable load facilities</i> has been replaced with the defined term <i>dispatchable load</i> , and the defined term <i>price responsive load</i> has been included for consistency in treatment with the <i>non-dispatchable load resource</i> type.
5	5.7	The Management of Violations to Security Limits	<i>Price responsive load</i> is added to section 5.7.3 for consistency in treatment with the <i>non-dispatchable load resource</i> type.
5	10.1.2	Demand control-introduction	<i>Price responsive load</i> is added to the section for consistency in treatment with the <i>non-dispatchable load resource</i> type.
6	10.3.2	Periodic Energy Metering	<i>Price responsive load</i> is added to the section. Note that MR-00457-R03 contains concurrent amendments to this section.
App 6.2	1.1A	Metering Installation Not Comprised of Two Meters	<i>Price responsive load</i> is added to the section for consistency in treatment with the <i>non-dispatchable load resource</i> type.
App 6.2	1.5.1	Functional Requirements	See Above.
7	19.2.4	Eligibility Requirements for Hourly Demand Response Resources	See Above.
7	19.2.5	Eligibility requirements for Hourly Demand Response Resources	The defined term <i>load equipment</i> (established in MR-00457-R00) replaces <i>wholesale consumer</i> and some redundant references to satisfying a <i>capacity obligation</i> are removed. Additional references are added to improve clarity to existing requirements, including connection to the new section 19.2.6.



Chapter	Section	Topic	Purpose of Amendment
7	19.2.6	Eligibility requirements for Hourly Demand Response Resources	The <i>IESO's</i> load aggregation model is zonal which is incompatible with participation in a virtual demand response portfolio by <i>dispatchable loads</i> or <i>price responsive loads</i> whose <i>settlement</i> must be location specific. This proposed amendment will provide clarity to this restriction.
7	19.5.10	Activation testing for capacity dispatchable load resources	Replacing <i>load facility</i> with <i>dispatchable load</i> , the <i>resource</i> term since <i>dispatch</i> occurs at a <i>resource</i> level.
7	21.8	Electricity storage-interpretation	<i>Price responsive load</i> is included in section 21.8.2b as a means to interpreting the appendices in chapter 7 for electricity storage.

**MR00457-R02: Storage Integration**

The MRP design effort took place prior to the Storage Design Project and the development of *market rules* to integrate storage into the *IESO's* markets. As such, neither the MRP design nor the provisionally approved rules contemplate *electricity storage resources*. This amendment proposal will update the provisionally approved rules from both the Market Entry and Prudential Security and Market Power Mitigation batches to integrate *electricity storage resources* and will propose new rules required to integrate the Phase 2 interim storage design, reviewed with stakeholders in December 2021.

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Batch 1- Market Entry and Prudentials			
Chapter	Section	Topic	Purpose of Amendment
7	2.1.1.6	Requirements for operating on the grid	Dispatchable electricity storage resources are included as a resource to designate market control entity for physical withholding. Please note concurrent amendment in MR-00457-R00.

## Batch 1- Market Entry and Prudentials

Chapter	Section	Topic	Purpose of Amendment
7	2.2.6.8	Facilities and associated resources registration	Replaces <i>electricity storage facility</i> with <i>electricity storage resource</i> to reflect this new definition which is more appropriate than <i>facility</i> when referencing minimum size thresholds. An additional edit is made to include a reference <i>electricity storage units</i> , to provide similar treatment as that provided to <i>generation units</i> .
7	2.2.6D	Facilities and associated resources registration	Replaces the requirement at a <i>facility</i> level to the <i>resource</i> level, consistent with previous changes made to <i>generation resources</i> .
7	2.2.9A	Facilities and associated resources registration	A variety of amendments are proposed to this storage section to reflect the changes that were provisionally approved in section 2.2.9 for generation.
7	2.2D.3	Facilities and associated resources registration	Amendment made to the defined term <i>real-time markets</i> to make singular, to reflect a similar edit made to 2.2A.3.
7	2.3	Aggregated Generation Units, Electricity Storage Units, or Loads as Resources	Amendments made to various subsections to include <i>electricity storage units</i> in the ability to aggregate, as is provided for <i>generation units</i> and <i>loads</i> . An amendment to the title is proposed for the same effect. Please note concurrent amendment proposed in MR-00457-R00.
2	5.3.10A	Price bases used for determining minimum trading limit and default protection amount	Includes <i>electricity storage resources</i> . Please note concurrent amendment proposed in MR-00457-R01.

Batch 2- Market Power Mitigation			
Chapter	Section	Topic	Purpose of Amendment
7	22.6.7	Reference quantities	Stipulates the reference quantity the <i>IESO</i> may register for a <i>resource</i> if a <i>market participant</i> fails to provide certain information.
7	22.9	Market control entities	Requires the designation of a person as a <i>market control entity</i> for each <i>dispatchable electricity storage resource</i> , similar to the requirement for <i>dispatchable generation</i> .

Storage Interim Design Phase II			
Chapter	Section	Topic	Purpose of Amendment
7	21.1	Purpose	Replaces electricity storage facilities with the new defined term electricity storage resources.
7	21.2	Market registration	The market registration requirements for electricity storage were determined procedural in nature and better suited for the <i>market manual</i> . As such, much of this content can now be found in Market Manual 1.5, and the specifics originally found in this section of the <i>market rules</i> are deleted. Other edits are made to integrate the term <i>resource</i> .
7	21.3	Provision of regulation service	Edits are made to replace <i>facility</i> with the new defined term <i>resource</i> , to better reflect the registration process. Note that the original content of 21.3.1 was intended to permit the registration of <i>self-scheduling electricity storage resources</i> providing regulation services only, in which case only a registration to inject was required. This same intent is now reflected in Table 3-12 of market manual 1.5.

Storage Interim Design Phase II			
Chapter	Section	Topic	Purpose of Amendment
7	21.4	Day Ahead- Energy Offers and Energy Bids	This section is being removed as the day ahead commitment process will be replaced with the <i>day-ahead market</i> . While the requirement to not submit <i>offers</i> that are lower than the highest <i>bid</i> price will remain, this will be outlined in the following section which will pertain to both the <i>day-ahead market</i> and the <i>real-time market</i> . Note that with the removal of 21.4, all subsequent subsections will be renumbered.
7	21.5	Energy offers and energy bids	To prevent conflicting <i>dispatches</i> , an <i>offer</i> may not be lower than the highest <i>bid</i> . Edits are made so that this section pertains to the <i>day-ahead market</i> as well as the <i>real-time market</i> , and to structure the section at the <i>resource</i> level, which more accurately reflects how dispatch occurs with <i>IESO's</i> systems. Section 21.5.3 is removed as CMSC will not exist post MRP.
7	21.6	Revisions to dispatch data	Revised to structure at the <i>resource</i> level, which more accurately reflects dispatch in <i>IESO's</i> systems.
7	21.7	Operating reserve	Edits made to refer to the <i>resource</i> which is how <i>operating reserve</i> is activated. Further edits are made to clarify the need to have accompanying <i>bids</i> or <i>offers</i> in the <i>energy market</i> to ensure that an activation for <i>operating reserve</i> does not conflict with any potential <i>dispatch instructions</i> .
7	21.8	Interpretation	Edits are proposed to re-number the section.  Edits are also proposed to 21.8.2a and 21.8.3 (former numbers) to refer to the newly defined <i>resource</i> terms.  Please note there are concurrent amendments proposed to this section in MR-00457-R05 and MR-00457-R06.

## MR00457-R03: Resource-Related Updates

The new *resource* definition is being integrated into the *market rules* to better describe interactions between *IESO's* systems and *market participants*. This will require several amendments to sections of the market rules otherwise not impacted by market renewal. This amendment proposal contains these amendments.

Specific changes include replacing the term *registered facility*, which was removed in the Market Entry and Prudential Security batch to align the defined terms with the new definition of *resource*. Some of these amendments will replace references to *registered facility* with the appropriate defined terms. The defined term *self-schedule* will also require amendments to integrate the *resource* term into the *market rules*, and amendments are proposed to integrate the new *self-schedule* terms. The defined term *intermittent generator* has been replaced with the term *intermittent generation resource* in MR-00461-R03. As the name is being changed to the more appropriate resource, this requires changes to all instances of the use of the term. Lastly, the term *transitional scheduling generator* is no longer being used, having been established as a temporary measure while contract negotiations were underway during market opening (see Chapter 7, section 2.2.23). The defined term is being removed in MR-00461-R03 and this amendment will remove all references to this defined term.

Only sections of the market rules that are unlikely to be further amended by MRP are included in this proposal. Specifically, amendments required to more fully integrate the *resource* term in chapters 7 and 9 will be contained in future batches.

### Summary of Market Rule Changes: September 2022

Chapter	Section	Topic	Purpose of Amendment
1	4.4A		As the following section, 4.4B is being removed, this section will no longer require the "intentionally left blank" placeholder to retain the numbering logic. As such, the section will be removed.
1	4.4B	Transitional Scheduling Generator	The section is being removed as it pertains to <i>transitional scheduling generators</i> . As it can be removed without impacting the numbering of subsequent sections, there is no requirement for an "intentionally left blank" placeholder.
2	4.2.5	Effect of term and order	Replaces <i>registered facility</i> with the term <i>facility</i> , in the context of when a person is deemed to be a <i>market participant</i> .

Chapter	Section	Topic	Purpose of Amendment
2	6.3.1	Certification, testing and inspection for registration of facilities	Replaces registered facility with references to resources and boundary entity resources.
2	9.1.1	Withdrawal by a market participant	Replaces <i>registered facilities</i> with <i>facilities</i> where referring to a <i>market participant</i> who wishes to cease being a <i>market participant</i> .
2	9.1.4	Withdrawal by a market participant	Replaces <i>registered facility</i> with <i>resource</i> and also replaces boundary entity with the new defined term <i>boundary entity resource</i> and provides additional clarity to the requirement.
App 2.2	1.1.2 and 1.13	Voice communications	Replaces registered facilities with the equivalent for resources for both generators and electricity storage participants.
3	6.2A	Persistent breaches of the market rules	Replaces registered facilities with resources.
3	6.5	Deregistration of a MP's resources	Replaces the term <i>registered facilities</i> with the equivalent for <i>facilities</i> and <i>resources</i> .
4	6.2.1	Voluntary disconnection	Replaces registered facility with facility.
4	7.3 and 7.3A	Monitoring Information Provided by Generators to the IESO	Intermittent generator is renamed to intermittent generation resource, and the reference to transitional scheduling generator is removed. The term registered facility with resource
App 4.15		Monitoring requirements: Generators	Replaces <i>registered facility</i> with <i>resource</i> and <i>intermittent generator</i> is renamed to <i>intermittent generation resource</i> , and the reference to <i>transitional scheduling generator</i> is

Chapter	Section	Topic	Purpose of Amendment
			removed. As well, an amendment is needed to reflect that regulation is provided at a <i>resource</i> level.
App 4.19		IESO Monitoring Requirements: Generator Performance Standards	Intermittent generator is renamed to intermittent generation resource, and the reference to transitional scheduling generator is removed.
App 4.24		Monitoring requirements: Electricity storage participants	Replaces <i>registered facility</i> with <i>resource</i> . As well, an amendment is needed to reflect that <i>regulation</i> is provided at a <i>resource</i> level.
5	3.5.2	Obligations of wholesale customers	<i>Registered facility</i> is replaced with <i>resource</i> , and some text that was considered redundant is removed.
5	3.7.1.6	Obligations of distributors	Replaces the term “not a <i>registered facility</i> ” with a “portion of a <i>facility</i> that is not associated with a <i>resource</i> ” that has an equivalent meaning. Section 3.7.1.7, which was an [Intentionally left blank] is removed.
5	4.3	Generic Performance Requirements for Ancillary Services	<i>Ancillary services</i> are provided at various different levels ( <i>facility</i> , <i>resource</i> or unit) depending on the service. As such, generic references to <i>ancillary services</i> must be sufficiently broad to capture all levels. The amendments proposed in 4.3 replace <i>registered facility</i> with the appropriate term to allow for such a capture of levels.
5	4.4	Regulation	<i>Regulation services</i> are provided at the <i>resource</i> level, so <i>registered facilities</i> is replaced with <i>resources</i>
5	4.5.1	Operating Reserve	Operating reserve is provided by dispatchable resources, so registered facility is replaced with resource or boundary entity resource. Dispatchable is removed from

Chapter	Section	Topic	Purpose of Amendment
			electricity storage resources to be consistent with reference to generation.
5	4.8.1	Reliability must run resources	For <i>reliability</i> purposes, <i>reliability must run</i> contracts may be provided by the <i>IESO</i> , and these are provided at a <i>resource</i> level.
5	4.9.1	Auditing and Testing of Ancillary Services	Reference to both the <i>resource</i> and <i>facility</i> levels is made to allow for applicability in either case.
5	4.9.2	Auditing and Testing of Ancillary Services	Amendments are proposed to integrate the <i>resource</i> term. Note that black start services are provided at a <i>facility</i> level and as such no amendments are proposed for 4.9.2.4, 4.9.2.4A or 4.9.2.4B.
5	4.10	Consequences of Failure to Pass a Test	<i>Registered facility</i> is replaced with both <i>facility</i> and <i>resource</i> to pertain to various different ancillary services.
5	6.3.7 and 6.3.10	Replacement Energy to Support Planned Outages	Registered facility is replaced with boundary entity resource.
Appendix 5.1	1.1	Regulation	<i>Regulation</i> is provided at a <i>resource</i> level, so all references to <i>registered facility</i> is replaced with <i>resource</i> . Sections 1.1.1 and 1.1.5 refer to a <i>market participant</i> as they refer to actions that only a person can undertake.
Appendix 5.1	1.2	Operating reserve	Operating reserve is provided at a resource level, so registered facility is replaced with resource.
Appendix 5.1	1.3	Reactive Support and Voltage Control (RSVC)	RSVC is provided at a <i>generation unit</i> or <i>electricity storage unit</i> level, so <i>registered facility</i> is replaced with unit.



Chapter	Section	Topic	Purpose of Amendment
6	4.1A	Metering installations for segregated mode of operation	Metering is associated with a <i>facility</i> , so <i>registered facility</i> is replaced with <i>facility</i> .
6	8.1.5	Ownership of and Rights of Access to Data	Metering is associated with a <i>facility</i> , so <i>registered facility</i> is replaced with <i>facility</i> .
6	9.3.2A	Changes to Metering Equipment, Parameters and Settings	Registered facility is replaced with generation resource associated with the facility.
6	10.3.2	Periodic energy metering	<i>Intermittent generator</i> is renamed to <i>intermittent generation resource</i> , and the reference to <i>transitional scheduling generator</i> is removed. The term <i>non-dispatchable load</i> is integrated into the section which is more appropriate than facility. Note proposal MR457.R01 also contains amendments to this section.
6	11.1.6	Performance of Metering Installation	Amendment to integrate in the <i>resource</i> definition and remove redundant language.
App 6.1	1.2.1	Obligations of Metered Market Participants	Registered facility is replaced with resource.
App 6.2	1.1A.1.5	Metering Installation Not Comprised of Two Meters	Intermittent generator is renamed to intermittent generation resource, and the reference to transitional scheduling generator is removed.

Chapter	Section	Topic	Purpose of Amendment
App 6.2	1.5.1.5	Functional requirements	Intermittent generator is renamed to intermittent generation resource, and the reference to transitional scheduling generator is removed.
7	2.2.9 and 2.2.11	Facilities and associated resources registration	The Market Entry and Prudential Security batch included a reference to any associated <i>resources</i> . This reference is now no longer needed with the revised defined term <i>self-scheduling generation facility</i> , which integrates the concept of <i>resources</i> within the definition. As such, the reference to associated <i>resources</i> is removed.
7	2.2	Facilities and associated resources registration	<p>In sections 2.2.13 and 2.2.14 amendments are proposed that replace <i>intermittent generator</i> with a <i>generation facility</i> associated with <i>intermittent generation resources</i>, to reflect that registration takes place at a facility level.</p> <p>Section 2.2.15 replaces <i>intermittent generator</i> with the resource term as it refers to operations which takes place at a resource level. A cross reference is also made to the earlier registration section.</p> <p>Sections 2.2.19 through to 2.2.24 are removed from the rules as they pertain only to <i>transitional scheduling generators</i>.</p> <p>Section 2.2.24 is removed as it was an intentionally left blank.</p> <p>Sections 2.2.25 through to 2.2.27 were provisionally approved in the Market Entry and Prudential Security batch and are now renumbered to make use of the numbers made available from the above deletions.</p>
7	2.2A.2 and 2.2D.2	Registration of commissioning facilities	The reference to a defined term self-scheduling facility is corrected to include <i>self-scheduling generation facility</i> . The reference to a commissioning generation unit (and electricity storage unit) is replaced with the defined term <i>commissioning generation facility</i> (and <i>commissioning electricity storage facility</i> )

Chapter	Section	Topic	Purpose of Amendment
7	2.2A.6 and 2.2D.6	Registration of commissioning facilities	Integrates the new defined terms <i>self-scheduling generation resource</i> and <i>self-scheduling electricity storage resource</i> for the purposes of commissioning <i>resources</i> . Note that a single <i>facility</i> may be comprised of multiple <i>resources</i> , hence the concept of “one or more” is used.
7	2.4	De-registration of facilities	<i>Registered facility</i> is replaced with <i>facilities</i> in most cases. Some proposed edits also include reference to any associated <i>resources</i> registered in accordance with the section. One reference to a boundary entity is replaced with <i>boundary entity resource</i> .
7	2.5	Transfer of registration of facilities	<i>Registered facility</i> is replaced with <i>facility</i> and associated <i>resources</i> and boundary entity is removed as the use of the term <i>facility</i> precludes a boundary entity.
7	3.3.10A	IESO Authorities to Direct Submission or Revision of Dispatch Data	Section is removed as it pertains only to <i>transitional scheduling generators</i> .
7	21.8.3	Electricity storage in the IESO Administered Market	<i>Intermittent generator</i> is renamed to <i>intermittent generation resource</i> , and the reference to <i>transitional scheduling generator</i> is removed. Please note concurrent amendments to this section in proposal MR-00457-R02.
10	4.3.1	Arranging for export transmission service	<i>Registered facility</i> is replaced with <i>boundary entity resource</i> . Additionally, a <i>market participant</i> can use a <i>boundary entity resource</i> , however these <i>resources</i> are managed by the <i>IESO</i> and cannot be registered by <i>market participants</i> . Clarity is provided to this concept by indicating that <i>market participants</i> may “use” a boundary entity.

## Summary of Market Rule Changes: December 2022

MR-00461-R03: Defined Terms				
Chapter	Section	Topic	Type of Change	Description
11	Definitions	Various	Modification	<p>Modified the definition for "self-scheduling electricity storage resource".</p> <p>This definition was edited to provide greater clarity to the ability of a <i>self-scheduling storage resource</i> to participate in the <i>day-ahead market</i> by submitting <i>bids</i>.</p> <p>This content was updated in response to internal feedback.</p>

MR-00457-R00: Market Manual and Batch Alignment Items				
Chapter	Section	Topic	Type of Change	Description
2	1.2.2.3	Participation	Modification	<p>Requiring that the executed <i>participation agreement</i> be filed with the <i>IESO</i> enables this requirement to be removed from section 4.1.1.2.</p>
2	4.1.1	Authorization Orders	Modification	<p>Former Section 4.1.1 from version 1.0 of the MR457.R00 proposal has been reorganized and had content moved to section 4.1.2 to improve readability. The <i>IESO's</i> obligation/authority to issue an order once it is satisfied that certain conditions have been met by an applicant has been separated from the timeline in which the <i>IESO</i> is required to do so, which now appears in section 4.1.2.</p> <p>A reference to Section 1.2.2.2 has been added to correct its omission in response to comments from OPG (comment ID 2).</p>

MR-00457-R00: Market Manual and Batch Alignment Items				
Chapter	Section	Topic	Type of Change	Description
				Section 4.1.1.2.2 was removed as it was duplicative of the requirements in section 1.2.2.
2	4.1.2	Authorization Orders	Editorial	Former Section 4.1.1 from version 1.0 of the MR457.R00 proposal has had content moved to 4.1.2 to improve readability. The <i>IESO's</i> obligation/authority to issue an order once it is satisfied that certain conditions have been met by an applicant now appears in a separate section from the timeline in which the <i>IESO</i> is required to do so.
2	4.1.3	Authorization Orders	Modification/ Editorial	Former Section 4.1.6 from version 1.0 of the MR457.R00 proposal. The effect of a lapsed order previously contained in section 4.1.7 has been included in this section in response to internal stakeholder feedback. It amalgamates content from former sections 4.2.1 and 4.2.2.2.
2	4.1.4	Authorization Orders	Modification	Formerly Section 4.1.2 from version 1.0 of the MR457.R00 proposal. Amended to improve clarity that a condition may be removed from a conditional order, in response to feedback from OPG (comment ID 3). It moves <i>IESO</i> authority to amend a conditional order or extend the date by which the applicant must satisfy the conditions from the <i>market manuals</i> to the <i>market rules</i> .
2	4.1.5	Authorization Orders	Editorial	Formerly Section 4.1.8 from version 1.0 of the MR457.R00 proposal.
2	4.1.6	Authorization Orders	Editorial	Formerly Section 4.1.3 from version 1.0 of the MR457.R00 proposal. Former section

MR-00457-R00: Market Manual and Batch Alignment Items				
Chapter	Section	Topic	Type of Change	Description
				4.2.2.2 has been amalgamated into section 4.1.6.2.
2	4.1.7	Authorization Orders	Editorial	Formerly Section 4.1.4 from version 1.0 of the MR457.R00 proposal.
2	4.1.8	Authorization Orders	Editorial	Formerly Section 4.1.5 from version 1.0 of the MR457.R00 proposal.
2	4.1.9	Authorization Orders	Modification	Reference to any terms and conditions is removed in response to feedback from OPG (comment ID 6).
7	2.1.1.6	Requirements for Operating on the Grid	Editorial	<p>Italicized the defined term "<i>dispatchable load</i>". Cross reference to Appendix 7.8 was replaced with section 22.9.</p> <p>This content was updated in response to stakeholder feedback from OPG (comment ID 17).</p>
7	2.2.2	Facilities and Associated Resources Registration	Editorial	<p>Italicized the defined terms "<i>market participant</i>" and "<i>facility</i>".</p> <p>This content was updated in response to stakeholder feedback from OPG (comment ID 10).</p>
7	2.2.6.8	Facilities and Associated Resources registration	Modification	<p>The words "or units" has been deleted within the phrase "sets of <i>load equipment or units</i>".</p> <p>This content has been modified in response to stakeholder feedback from OPG (comment ID 11).</p>
7	2.2.6G	Facilities and Associated Resources registration	Editorial	Removed an extra space.

<b>MR-00457-R00: Market Manual and Batch Alignment Items</b>				
<b>Chapter</b>	<b>Section</b>	<b>Topic</b>	<b>Type of Change</b>	<b>Description</b>
				<p>This content has been modified in response to stakeholder feedback from OPG (comment ID 12).</p> <p>Inserted the words "intends to" in section 2.2.6G.2.</p> <p>This content has been modified in response to internal feedback.</p>
7	2.3.1	Aggregated Generation Units or Sets of Load Equipment	Editorial	<p>To provide greater clarity that only equipment of the same type may be aggregated together, the word "respectively" has been added.</p> <p>This content has been modified in response to stakeholder feedback from OPG (comment ID 11).</p>

<b>MR-00457-R02: Storage Integration</b>				
<b>Chapter</b>	<b>Section</b>	<b>Topic</b>	<b>Type of Change</b>	<b>Description</b>
7	2.1.1.6	Requirements for Operating on the Grid	Editorial	<p>Cross reference to Appendix 7.8 was replaced with section 22.9.</p> <p>This content was updated in response to stakeholder feedback from OPG (comment ID 17).</p>
7	21.2.1	Market registration	Editorial	<p>Comma added prior to "as further described in the applicable <i>market manual</i>".</p> <p>This content has been modified in response to stakeholder feedback from OPG (comment ID 18).</p>

<b>MR-00457-R03: Resource-Related Updates</b>				
<b>Chapter</b>	<b>Section</b>	<b>Topic</b>	<b>Type of Change</b>	<b>Description</b>
2	6.3.1	Certification, testing and inspection for registration of facilities	Modification	<p>Section re-worded to provide greater clarity to the point that the reference is to the physical aggregation of units into <i>resources</i>.</p> <p>This content has been modified in response to stakeholder feedback from OPG (comment ID 21).</p>
2	9.1.4.5	Withdrawal by a market participant	Editorial/ Modification	<p>Extra line break removed.</p> <p>Replaced "authorized to be used" with "registered to be used".</p> <p>This content has been modified in response to stakeholder feedback from OPG (comment ID 22).</p>
Appendix 5.1	1.2.1, 1.2.4	Operating reserve	Editorial	<p>Comma removed in the phrase "...shall ensure that each <i>resource</i>; that it has scheduled to...".</p> <p>This content has been modified in response to stakeholder feedback from OPG (comment ID 24).</p>
7	2.2.19, 2.2.20	Facilities and associated resources registration	Modification	<p>The term "classification" was replaced with "<i>resource type</i>" to more accurately reflect the nature of the registration change contemplated in the section.</p> <p>This content has been modified in response to internal feedback.</p>



# Market Manual Updates

## Summary of Changes to Market Manual 1.5: Market Registration Procedures: September 2022

Section	Topic	Description of change
Throughout	Clarifying updates throughout	Updated for alignment of defined terms introduced in the Market Entry and MPM Batches
2	Authorize Market and Program Participation	Improve drafting to clarify the authorization process and to remove redundancy with the <i>market rules</i>
3	Register Equipment	Improve drafting to clarify the registration process and to remove redundancy with the <i>market rules</i>
3; 4	Register Equipment; and Maintain IESO Registered Data	Updated to align and clarify existing process requirements based on the new defined term <i>resource</i> and the new <i>price responsive load resource</i> type
3.5	Register Facilities and Resources for Electricity Storage Participants	Update the obligations for registration of <i>electricity storage resources</i>

## Summary of Changes to Market Manual 5.4: Prudential Support: September 2022

Section	Topic	Description of change
Throughout	Clarifying updates throughout	Improve drafting to clarify the <i>prudential support</i> process and to remove redundancy with the <i>market rules</i>

### Summary of Changes to Market Manual 12.0: Capacity Auctions: September 2022

Section	Topic	Description of change
Throughout	Clarifying updates throughout	Update alignment with defined terms introduced in the Market Entry and MPM Batches
5.2.3.2.	Physical C&I HDR Contributors Registration Requirements	Update the obligations regarding <i>price responsive load resource</i> eligibility for delivering on a virtual <i>hourly demand response</i> (HDR) <i>capacity obligation</i> using the contributor management process

### Summary of Changes to Market Manual 14.1: Market Power Mitigation Procedures: September 2022

Section	Topic	Description of change
Throughout	Clarifying updates throughout	Update alignment with defined terms introduced in the Market Entry and MPM Batches

### Summary of Changes to Market Manual 14.2: Reference Level and Reference Quantity Procedures: September 2022

Section	Topic	Description of change
Throughout	Clarifying updates throughout	Updated alignment with defined terms introduced in the Market Entry and MPM Batches
7.6; 7.7.2; 8.1; 9.6	Reference Levels for Financial Dispatch data parameters - Electricity storage; Standby Costs for BTM Generation or Storage; Descriptions of Non-Financial Dispatch Data Parameter Reference Levels; Reference Quantities - Electricity Storage	Update the obligations for registration of <i>electricity storage resources</i>

**Note: Changes made to the market manuals in response to stakeholder feedback, which are described in the tables below, have been highlighted in yellow in the redline versions of each market manual.**

**Summary of Changes to Market Manual 1.5: Market Registration Procedures: December 2022**

Section	Topic	Type of Change	Description of change
Section 2.2.2	Table 2-3 – “Capacity Auction Participant”, “Virtual Trader”, “TR Participant, – “Distributor” and “Electricity Storage Participant	Correction	Added back the exemption for an OEB Licence for a Capacity Auction Participant, Virtual Trader and TR Participant. It had been inadvertently removed during a reorganization of Market Manual 1.5.
Section 3.3	Table 3-4	Correction	Added back “Shared Daily Energy Limits” and “Time Lag” parameters to Table 3-4 as they were inadvertently removed in anticipation of registration parameter changes that were later introduced with the Settlement batch.

**Summary of Changes to Market Manual 5.4: Prudential Support: December 2022**

Section	Topic	Type of Change	Description of change
Section 1.3	Prudential Support Overview	Editorial	Added an apostrophe for grammatical accuracy. Changed “The IESO uses the information submitted by the <i>market participants</i> to calculate the <i>market participants...</i> ” “The IESO uses the information submitted by the <i>market participants</i> to calculate the <i>market participants’...</i> ”

### Summary of Changes to Market Manual 12.0: Capacity Auctions: December 2022

Section	Topic	Type of Change	Description of change
Section 3.1	Pre-Auction Reporting Obligations	Editorial	Updated cross-references to relevant <i>market rules</i> as per stakeholder feedback.
Section 5.2.3.2	Physical C&I HDR Contributors Registration Requirements	Editorial	Corrected two instances of " <i>non-dispatchable</i> " to apply italics formatting.

### Summary of Changes to Market Manual 14.1: Market Power Mitigation Procedures: December 2022

Section	Topic	Type of Change	Description of change
No changes			

### Summary of Changes to Market Manual 14.2: Reference Level and Reference Quantity Procedures: December 2022

Section	Topic	Type of Change	Description of change
Section 7.2.5.1	Registering Energy Offer Reference Levels for Hydroelectric Resources that are Part of Cascade Groups	Modification	Updated the language in the section to better reflect the registration process for resources within a <i>cascade group</i> .
Section 7.7.2	Standby Costs for BTM Generation or Storage	Editorial	Updated instances of only "unit" to " <i>generation unit</i> or <i>electricity storage unit</i> " or " <i>generation unit</i> ", as applicable, for consistency