

MRP Implementation: Summary of Market and System Operations

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 in 'batches'. This document describes the changes in the Market and System Operations batch.

Market and System Operations Changes

Changes to Market Rules

Chapter 5 – Power System Reliability

Amendments to Chapter 5 of the *market rules* are relatively minor in nature, and include edits to include new MRP defined terms (e.g. *resource*), changes related to *operating reserve*, and consequential changes to timelines related to *outages* in order to align with the timing of the *day-ahead market*.

Chapter 7 – System Operations and Physical Markets

Amendments to the body of Chapter 7 of the *market rules* are extensive, and include comprehensive rewrites of section 3 – Data Submissions for the Day-Ahead Market and the Real-Time Markets. New sections 4 – The Day-Ahead Market, 5- The Pre-Dispatch Process, and 6 – The Real-Time Market specify the scheduling processes, administration and publication requirements for the three respective market timeframes. Other notable new sections include section 10 – Instructions for Generator Offer Guarantee Eligible Resources.

Chapter 7 – Appendices

Amendments to the Chapter 7 Appendices include:

1. Appendix 7.1 Energy Offer, Schedule or Forecast Information – additional submission requirements where applicable, minor edits for clarity, and addition of *resource* specific submission requirements;
2. Appendix 7.2 Energy Bid Information – additional submission requirements where applicable, minor edits for clarity, and addition of *resource* specific submission requirements;
3. Appendix 7.3 Operating Reserve Offer Information – additional submission requirements where applicable and minor edits for clarity;

4. Appendix 7.4 Transmission Information Required for Scheduling and Dispatching – minor edit to include reference to the *DAM calculation engine, pre-dispatch calculation engine and real-time calculation engine*;
5. Appendix 7.7 Scheduling and Scheduling Approval – edits to incorporate the defined term “*resource*” and modifications related to *segregated mode of operations*;
6. Appendix 7.8 Economic Operating Points (new) – appendix to define the variables and calculations used for economic operating point.

Chapter 11 – Definitions

A series of new definitions were added to Chapter 11 of the *market rules* to facilitate the new procedures related to Market and System Operations. Some existing definitions were modified to align with market design under MRP. Some existing definitions were deleted as they were associated with procedures that are being superseded.

Summary of Market Rule Changes: July 2023

Chapter	Section	Topic	Type of Change	Description
Chapter 5	Throughout	General Changes Throughout Chapter 5	Modified	The following changes have been made throughout Chapter 5: <ul style="list-style-type: none"> • Minor, stylistic wording changes; • Replaced “<i>facility</i>” related defined terms with “<i>resource</i>” related defined terms, where required; • As a matter of clean-up, deleted certain instances of “intentionally left blank – section deleted”; • Replaced EST with EPT where applicable - EPT is used for activities occurring to run and <i>publish</i> information for the <i>day-ahead market</i>.
Chapter 5	4.5	Operating Reserve	Modified New Deleted	Modified the following: <ul style="list-style-type: none"> • Section 4.5.2A (new) - New section enables the <i>IESO</i> to apply voltage reductions and/or reduce the 30-min <i>operating reserve</i> requirement under <i>operating reserve</i> deficiency conditions; • Existing section 4.5.6A – Deleted as control action <i>operating reserve</i> (CAOR) will no longer be represented as standing offers in the <i>operating reserve market</i> - CAOR will no longer be scheduled to meet <i>operating reserve</i> requirements.
Chapter 5	6.2	Outage Planning	Modified	Modified the following: <ul style="list-style-type: none"> • Section 6.2.3 – clarified the obligation to include all <i>planned outages</i> as part of

Chapter	Section	Topic	Type of Change	Description
				published daily assessments. Updated the time horizon (replaced 33 calendar days with 34 calendar days) to align with section 7.3.1.4.
Chapter 5	6.4	Submission of Outage Schedules and IESO Approval of Outage Schedules	Modified	Modified sections 6.4.1E and 6.4.4.5A to reflect changes to the timelines in the <i>one-day advance approval process</i> . These changes will align with the timing of the <i>day-ahead market</i> .
Chapter 5	7.3	Forecast and Assessments	Modified	Section 7.3.1.4 – deadline to issue advance assessments on a daily basis has been changed from 17:00 to 20:30 EST.
Chapter 5	8.4	Responsibilities of Market Participants Whose Facilities Form Part of an RAS	Modified	Section 8.4.1 – modified the conditions for compensation that is permitted to a <i>market participant</i> should their <i>resource</i> be activated as a result of a <i>remedial action scheme (RAS)</i> .
Chapter 5	10	Demand Control	Modified	Modified the following: <ul style="list-style-type: none"> • Section 10.1.1 – replaced “load” with the defined term “<i>demand</i>”; • Section 10.2.2 – minor clarification of language; • Sections 10.2.3, 10.2.4 – updated notification timelines to EPT from EST – EPT is used for activities occurring to run and <i>publish</i> information for the <i>day-ahead market</i>; • Section 10.3.7 – clarified that the obligation for the <i>IESO</i> is to <i>publish</i> the aggregate load <i>curtailed</i>.
Chapter 7	Throughout	General Changes Throughout Chapter 7	Modified	The following changes have been made throughout Chapter 7: <ul style="list-style-type: none"> • Minor, stylistic wording changes; • Replaced “<i>facility</i>” related defined terms with “<i>resource</i>” related defined terms, where required; • Incorporated the <i>day-ahead market</i> where applicable; • As a matter of clean-up, deleted certain instances of “intentionally left blank – section deleted”; • Renumbered sections/subsections and updated cross-references accordingly; • Expanded acronyms;

Chapter	Section	Topic	Type of Change	Description
				<ul style="list-style-type: none"> Replaced EST with EPT, where applicable - EPT is used for activities occurring to run and <i>publish</i> information for the <i>day-ahead market</i>; Revised <i>market rules</i> section numbering convention – new convention will be uniform throughout the <i>market rules</i> and <i>market manuals</i>; For consistency with prior batches, amended references to “<i>real-time market</i>” and “<i>day-ahead market</i>” in their singular forms.
Chapter 7	Former 1.1	Introductory Rules - Purpose	Deleted	Deleted section 1.1 – “Purpose”, which summarizes the purpose of the chapter. This section is redundant and unnecessary.
Chapter 7	1.1	Application	Deleted	Deleted section 1.2.2 which specifies that “the rules in this Chapter apply to both the 60 Hz and the 25 Hz portions of the <i>electricity system</i> ” – 25Hz is no longer applicable, and this section is no longer required.
Chapter 7	1.2	Scope of the Physical Markets	Modified	Modified the following: <ul style="list-style-type: none"> Section 1.2.1, 1.2.2 – Expanded the scope of <i>physical markets</i> to be inclusive of the <i>day-ahead market</i>.
Chapter 7	1.6	IESO Authorities and Obligations Regarding the Operation of the IESO-Administered Markets	Modified New Deleted	<ul style="list-style-type: none"> Former sections 1.7.1 to 1.7.5 - Deleted all sections pertaining to the day-ahead commitment process; Section 1.6.1 (move) – Inserted section obligating the <i>IESO Board</i> to specify parameters of the <i>day-ahead market calculation engine, pre-dispatch calculation engine</i> and <i>real-time calculation engine</i>. This obligation currently exists in section 4.4.6 of Chapter 7 of the <i>market rules</i> and has been relocated here. Language has been updated to incorporate MRP defined terms and the <i>settlement floor price</i> for <i>energy</i> has been added to the list; Section 1.6.2 (move) – Inserted section obligating the <i>IESO Board</i> to establish floor prices for <i>variable generation resources</i> and <i>flexible nuclear generation</i>. This obligation currently exists in section 3.5.4A of Chapter 7 of the <i>market rules</i> and has been relocated here. Language has been updated to incorporate MRP defined terms and simplified;

Chapter	Section	Topic	Type of Change	Description
				<ul style="list-style-type: none"> • Section 1.6.3 (new) – Added new section obligating the <i>IESO</i> to establish limits for <i>virtual transactions</i> for any <i>virtual transaction zone</i>; • Section 1.6.4 (new) – Added new section specifying the <i>IESO's</i> obligations if the <i>IESO</i> suspends the <i>day-ahead market</i> or <i>real-time market</i> for a given <i>dispatch day</i>; • Section 1.6.5 (move) – Inserted section obligating the <i>IESO Board</i> to commission and <i>publish</i> the results of an independent review of the operation and application of the calculation engines and the related <i>dispatch</i> processes. This obligation currently exists in section 4.2.4 of Chapter 7 of the <i>market rules</i> and has been relocated here. Language has been updated for MRP; • Section 1.6.6 (move) – inserted section allowing the <i>IESO</i> to limit the release of specific types of information that may facilitate anti-competitive behaviour. This authority currently exists in section 5.5.4 of Chapter 7 of the <i>market rules</i> and has been relocated here. Language has been updated for MRP.
Chapter	2.1	Requirements for Operating on the Grid	Modified	<ul style="list-style-type: none"> • Section 2.1.3 – as a matter of clean-up, deleted cross reference to section 10.2.6.
Chapter 7	2.2	Facility and Associated Resources Registration	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> • Section 2.2.0 (new) – Added new section obligating the <i>IESO</i> to establish and maintain <i>boundary entity resources</i> and <i>virtual zonal resources</i>; • Sections 2.2.9.2 and 2.2.9A.2 – Deleted sections in their entirety. These deletions are consequential to the amendments to section 2.2A – “Registration of Commissioning Generation Facilities” specified below; • Section 2.2.19.1 – for requests to change <i>resource</i> types from a <i>non-dispatchable load</i> to a <i>dispatchable load</i>, replaced “six months” with “180 calendar days” – these changes were made in MM 1.5 with the Interim Alignment batch – the timing in the <i>market rules</i> have been aligned;

Chapter	Section	Topic	Type of Change	Description
				<ul style="list-style-type: none"> Section 2.2.19.2 – for requests to change <i>resource</i> types from a <i>non-dispatchable load</i> to a <i>price responsive load</i>, replaced “one month” with “75 calendar days” – these changes were made in MM1.5 with the interim Alignment batch – the timing in the <i>market rules</i> have been aligned; Section 2.2.21 – Replaced “as further specified in Chapter 9” with “required for a <i>GOG-eligible resource</i>” – GOG eligibility components have been specified within the chapter 11 definition for <i>GOG-eligible resource</i>.
Chapter 7	2.2A	Registration of Commissioning Generation Facilities	Modified	<p>To support the registration process for all resource types, <i>market participants</i> will register for the commissioning process based on their intended <i>dispatchability</i>, rather than only as a <i>self-scheduling generation resource</i>.</p> <p>Modified the following:</p> <ul style="list-style-type: none"> Deleted references to “as a <i>self-scheduling generation facility</i>”; Updated language to incorporate the defined term “<i>resource</i>”; other consequential wording changes.
Chapter 7	2.2D	Registration of Commissioning Electricity Storage Facilities	Modified	<ul style="list-style-type: none"> Modified this section consistent with the changes made in section 2.2A – Registration of Commissioning Generation Facilities.
Chapter 7	3	Data Submissions for the Day-Ahead Market and Real-Time Market	New Modified	Existing section 3 – “Data Submissions for the Real-Time Markets” has been substantially amended and reorganized. New section 3 has been renamed - “Data Submissions for the Day-Ahead and Real-Time Market”.
Chapter 7	3.1	General Dispatch Data Submission Requirements		
		Dispatch Data Submission Process	New Modified	<p>Sections 3.1.1 – 3.1.8 – specify the process to submit <i>dispatch data</i> to the <i>IESO</i> and the obligations of the <i>IESO</i> to accept, confirm or reject the submission.</p> <p>A majority of content has been moved from existing <i>market rules</i> with minor revisions, except for sections 3.1.3, 3.1.4A and 3.1.7 which are new:</p>

Chapter	Section	Topic	Type of Change	Description
				<ul style="list-style-type: none"> • Section 3.1.1(move) – currently section 3.2.1; • Section 3.1.2(move) – currently section 3.2.2; • Section 3.1.3(new) – specify that “<i>dispatch data</i> submitted on a <i>resource</i> with the latest time stamp shall replace any <i>dispatch data</i> previously submitted on the <i>resource</i> for the corresponding <i>dispatch day</i> or <i>dispatch hour</i>, subject to section 3.1.4”. • Section 3.1.4(move) – currently section 3.2.3; inserted “or shall be construed as an <i>IESO</i> determination under MR Ch.3 s.6”; • Section 3.1.4A(new) – specify that “for the purposes of this section 3, where the <i>IESO</i> has approved the submission of <i>dispatch data</i>, such approval shall not be construed as the <i>IESO’s</i> determination that the <i>dispatch data</i> is compliant with any applicable obligations under these <i>market rules</i>, and shall not prejudice the <i>IESO’s</i> rights or remedies under MR Ch.3 s.6”; • Section 3.1.5(move) – currently section 3.2.4; • Section 3.1.6(move) – currently section 3.2.5; • Section 3.1.7(new) – sets out that “for the purposes of this section 3, <i>dispatch data</i> that is submitted to the <i>IESO</i> through the electronic information system or by other means and that the <i>IESO</i> has rejected pursuant to section 3.1.4, or is otherwise not valid, shall be deemed not to have been submitted to the <i>IESO’</i>”; • Section 3.1.8(move) – currently section 3.3.7.
		General Submission Requirements	New	Sections 3.1.9 – 3.1.10 – obligates the <i>registered market participants</i> to submit <i>dispatch data</i> and how <i>dispatch data</i> submitted into the <i>day-ahead market</i> is converted into <i>dispatch data</i> for the <i>real-time market</i> .
		Establishing an Availability	New	Sections 3.1.11 – 3.1.14 –obligates the <i>registered market participant</i> for certain

Chapter	Section	Topic	Type of Change	Description
		Declaration Envelope		<i>dispatchable resources</i> to establish an <i>availability declaration envelope</i> to enable participation in the <i>real-time market</i> .
Chapter 7	3.2	Dispatch Data Submissions in the Day-Ahead Market		
		Submissions During the DAM Submission Window	New	Sections 3.2.1 – 3.2.3 – obligates the <i>registered market</i> to submit <i>dispatch data</i> into the <i>day-ahead market submission window</i> .
		Submissions During the Day-Ahead Market Restricted Window	New	Sections 3.2.4 – 3.2.6 – authorizes the <i>IESO</i> to approve the submission of <i>dispatch data</i> during the <i>day-ahead market restricted window</i> and specify which <i>dispatch data</i> will be used in the <i>day-ahead market calculation engine</i> .
Chapter 7	3.3	Dispatch Data Submissions in the Real-Time Market	New	Sections 3.3.1 – 3.3.2 – specify the types of <i>dispatch data</i> used in the determination of the <i>pre-dispatch schedule</i> and which submissions are deemed to constitute a revision of <i>dispatch data</i> .
	3.3.3	Submissions During the RTM Unrestricted Window for Hourly Dispatch Data	New Modified	This section of 3.3.3 authorizes, subject to certain restrictions, a <i>registered market participant</i> to revise hourly <i>dispatch data</i> during the <i>real-time market unrestricted window</i> . Section 3.3.3.1 (move) – currently section 3.3.18.
Chapter 7	3.3.4	Replacement Energy Offers	Modified New	This existing section (currently section 3.3.4B) has been modified to reflect the new defined terms for “ <i>resource</i> ” and “ <i>combined cycle plant</i> ”. New section 3.3.4.3 specifies that a <i>generation resource</i> utilized for the replacement <i>energy offer</i> is ineligible for the <i>day-ahead market</i> or <i>real-time market generator offer</i> guarantee.
Chapter 7	3.3.5 – 3.3.6	Revisions During the RTM Mandatory Window for Hourly Dispatch Data Parameters	New Modified	These sections authorize, subject to certain restrictions, a <i>registered market participant</i> to submit revised <i>dispatch data</i> during the <i>real-time market mandatory window</i> .
Chapter 7	3.3.7	Revisions During the RTM Restricted Window for	New	This section authorizes a <i>registered market participant</i> to submit revisions to daily <i>dispatch data</i> during the <i>real-time market restricted window</i> .

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		Daily Dispatch Data		
Chapter 7	3.3.8	Obligation to Revise Dispatch Data	Modified	<p>This existing section has been modified to reflect the new defined term "<i>resource</i>," and a minor clarification to specify that the difference being assessed are "in the <i>dispatch hour</i>."</p> <p>Section 3.3.8.1 - replaced "<i>market schedule</i>" with "schedule".</p>
Chapter 7	3.3.9	Standing Dispatch Data	Modified	<p>This existing section has been modified to specify that the standing <i>dispatch data market rules</i> are inclusive of hourly and daily <i>dispatch data</i>. The language in this section has also been simplified.</p>
Chapter 7	3.3.10 – 3.3.18	IESO Authorities to Direct Submission or Revision of Dispatch Data	Modified	<p>This existing section has been modified to incorporate the new defined terms "<i>resource</i>" and "<i>day-ahead schedule</i>".</p> <p>Existing section 3.3.18 has been relocated to new section 3.3.3.1.</p>
Chapter 7	3.3A	Dispatch Data Submissions for the Day-Ahead Commitment Process	Deleted	<p>Section 3.3A has been deleted in its entirety. Required content has been incorporated into section 3.3.3 as amended.</p>
Chapter 7	3.4	The Form of Dispatch Data	New Modified	<p>This section specifies the type of <i>dispatch data</i> (<i>offer</i> or <i>bid</i>) submitted by each <i>resource</i> and a description of the service the <i>dispatch data</i> represents. The section has been modified to capture additional <i>resource</i> types, deletes unnecessary descriptive content, and aligns <i>market rule</i> language across <i>resource</i> types.</p> <p>The following sections are largely based on existing <i>market rule</i> section 3.4:</p> <ul style="list-style-type: none"> • Section 3.4.2 – based on existing section 3.4.3; • Section 3.4.3 – based on existing section 3.4.4; • Section 3.4.4 – based on existing section 3.4.4A; • Section 3.4.5 – based on existing section 3.4.4B; • Section 3.4.6 – based on existing section 3.4.4C;

Chapter	Section	Topic	Type of Change	Description
				<ul style="list-style-type: none"> Section 3.4.7 – based on existing section 3.4.5.
Chapter 7	3.5	Energy Offer and Energy Bids	Modified	<p>Section 3.5 specifies the content of <i>dispatch data</i> submissions from <i>registered market participants</i>, which include hourly and daily <i>dispatch data</i> parameters and the requirements for the submission of each parameter.</p> <p>Sections 3.5.1 and 3.5.2 – these sections are largely based on existing <i>market rule</i> sections 3.5.1 and 3.5.2, with minor language changes.</p>
Chapter 7	3.5.3 – 3.5.18	Hourly Dispatch Data Parameters	New Modified	<p>These modified and new sections specify the required and optional hourly <i>dispatch data</i> parameters and the related submission requirements for each parameter.</p> <p>The following sections are largely based on existing <i>market rule</i> section 3.5:</p> <ul style="list-style-type: none"> Section 3.5.5, 3.5.5.1, 3.5.5.2, 3.5.5.3, 3.5.5.4 - based on existing section 3.5.3; Section 3.5.5.8 – based on existing section 3.5.4A; Section 3.5.6 – based on existing section 3.5.4; Section 3.5.7 – based on existing section 3.5.5; Section 3.5.9 – based on existing section 3.5.6; Section 3.5.10 – based on existing section 3.5.6A; Section 3.5.11 – based on existing section 3.5.6B; <p>The following sections are new:</p> <ul style="list-style-type: none"> Sections 3.5.3, 3.5.4, 3.5.8, 3.5.12 to 3.5.18.
Chapter 7	3.5.19 – 3.5.20	Linked Wheeling Through Transactions	Modified	<p>These existing sections have been modified to incorporate the new defined terms for “<i>linked wheeling through transactions</i>” and “<i>resource</i>”.</p> <p>The section has been updated to specify that the <i>IESO</i> shall assess <i>linked wheeling through transactions</i> together as linked transactions.</p>

Chapter	Section	Topic	Type of Change	Description
Chapter 7	3.5.21 – 3.5.35	Daily Dispatch Data Parameters	New	These new sections sets out the optional and mandatory daily <i>dispatch data</i> parameters and the related submission requirements for each parameter.
Chapter 7	3.6	Operating Reserve Offers	Modified New	<p>This section sets out the requirements for <i>registered market participants</i> to submit <i>operating reserve offers</i>.</p> <p>The section has been modified to clarify the obligations for certain <i>resource</i> types to submit <i>operating reserve offers</i>. The section has also added the requirements related to the submission of a <i>reserve loading point</i> for each class of <i>operating reserve</i> offered.</p>
Chapter 7	3.7 – 3.9	Self-Scheduling & Intermittent Resources	Modified Deleted	<p>These sections set out the requirements for <i>registered market participants</i> for the <i>self-scheduling</i> and <i>intermittent generation resource</i> types to submit <i>dispatch data</i>. The sections have been modified to include the obligation for the <i>resources</i> to submit into the <i>day-ahead market</i>.</p> <p>References to the <i>day-ahead commitment process</i> and <i>dispatch data</i> requirements have been deleted.</p> <p>Section 3.8.A for <i>transitional scheduling generators</i> has been deleted in its entirety, as they no longer exist.</p>
Chapter 7	3.10	Virtual Zonal Resources	New	This new section sets out the requirement for <i>virtual traders</i> when submitting <i>energy offers</i> or <i>bids</i> into the <i>day-ahead market</i> .
Chapter 7	3.11	Price Responsive Loads	New	This new section sets out the requirements for <i>registered market participants</i> to submit <i>energy bids</i> for <i>price responsive loads</i> in the <i>day-ahead market</i> .
Chapter 7	3.12	Transmission System Information	Modified	<p>The section specifies the obligations for <i>transmitters</i> to submit information to the <i>IESO</i>.</p> <p>Minor changes have been made to:</p> <ul style="list-style-type: none"> • Update submission timelines from EST to EPT, where applicable; • replace “<i>pre-dispatch day</i>” with “the day prior to the relevant <i>dispatch day</i>”.
Chapter 7	3A	The Scheduling Process	New	This section obligates the <i>IESO</i> to determine certain inputs used to establish schedules and prices, and the <i>IESO’s</i> use of the outputs of the

Chapter	Section	Topic	Type of Change	Description
				<i>pre-dispatch calculation engine and real-time calculation engine.</i>
Chapter 7	Existing Sections 4, 5 and 6	The Dispatch Algorithm, The Pre-Dispatch Scheduling Process and The Real-Time Scheduling Process	Deleted	Existing Sections 4, 5 and 6 have been deleted in their entirety and replaced with the following new sections further described below: <ul style="list-style-type: none"> • Section 4 – The Day-Ahead Market; • Section 5 – The Pre-Dispatch Process; and • Section 6 – The Real-Time Market.
Chapter 7	4, 5, 6	The Day-Ahead Market The Pre-Dispatch Process The Real-Time Market	New	These new sections establish the scheduling process of the <i>day-ahead market, pre-dispatch process and real-time market</i> timeframes, and sets out the requirements to issue or <i>publish</i> related scheduling information (e.g. schedules, commitments and prices).
Chapter 7	7	IESO Dispatch Instructions	Modified Deleted	Section 7 – IESO Dispatch Instructions specifies the obligations for the <i>IESO</i> related to the issuance of <i>dispatch instructions</i> and the obligations for <i>market participants</i> to comply with <i>dispatch instructions</i> . Relatively minor modifications have been made throughout section 7, including the incorporation of new MRP related defined terms. Other changes are further specified below.
Chapter 7	7.1	Purpose and Timing of Dispatch Instructions	Modified	Section 7.1.1A has been modified to specify the <i>resources</i> the <i>IESO</i> will send <i>dispatch instructions</i> to. References to section 7.1.1A have been added throughout section 7 to identify these <i>resources</i> . The section has been modified to place the two existing conditions required for the <i>IESO</i> to issue a <i>dispatch instruction</i> as subsections 7.1.1A.1 and 7.1.1A.2.
Chapter 7	7.2	Information Used to Determine Dispatch Instructions	Modified	Existing section 7.2.1 has been separated into two <i>market rules</i> for clarity: <ul style="list-style-type: none"> • Section 7.2.1 specifies the obligation of the <i>IESO</i> to issue <i>dispatch instructions</i> consistent with the <i>real-time schedule</i>; and • new section 7.2.1A adds that in the limited scenarios specified in existing section 7.2.1 of the <i>market rules</i>, that the <i>IESO</i> shall not be required to issue <i>dispatch instructions</i>.

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				<ul style="list-style-type: none"> The existing language of "the <i>IESO</i> may, however issue <i>dispatch instructions</i> that depart from the <i>real-time schedule</i>" has been replaced with "in the event that the <i>IESO</i> does issue <i>dispatch instructions</i>, shall not be required to satisfy the requirements of section 7.2.1." Sections 7.2.5 and 7.2.5A, which mirror sections 7.2.1 and 7.2.1A for <i>boundary entity resources</i> and the <i>pre-dispatch schedule</i>, have been amended in a similar manner.
Chapter 7	7.3	The Content of Dispatch Instructions	Modified	Sections 7.3.2.3 and 7.3.5.2 relating to the calculation of congestion management <i>settlement credits</i> , have been deleted. The calculation of make-whole payments and the inputs into the calculation have been specified in Chapter 9 of the <i>market rules</i> .
Chapter 7	7.4	IESO Dispatch of Operating Reserve	No Change	<p>No substantive changes – sections updated to reflect MRP defined terms.</p> <p>Note: Section 7.4 will be further modified upon completion of MRP integration of Improving Accessibility of Operating Reserve.</p>
Chapter 7	7.5	Compliance with Dispatch Instructions	Modified	<p>As a matter of clean-up, obsolete sections 7.5.5 and 7.5.5A have been deleted.</p> <p>Section updated to reflect MRP defined terms.</p>
Chapter 7	7.6	Dispatch Scheduling Errors	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Section 7.6.4, related to compensation for a <i>dispatch scheduling error</i> – "congestion management <i>settlement credit</i>" has been replaced with "applicable <i>day-ahead market</i> and <i>real-time market</i> make-whole payment <i>settlement amounts</i>"; Section 7.6.5 – as a matter of clean-up, corrected cross-reference.
Chapter 7	7.8	Publication of Real-Time Dispatch Information	Deleted	Existing section 7.8 has been deleted in its entirety to remove redundant content from the <i>market rules</i> . The obligations to <i>publish</i> real-time information and issue <i>market participant</i> specific information can be found in sections 6.6 and 6.7.
Chapter 7	8	Determining Market Prices and Economic	Modified Deleted	This section has been modified to delete redundant content in the <i>market rules</i> . The processes described in section 8.1 and 8.2 are

Chapter	Section	Topic	Type of Change	Description
		Operating Points		included in sections 4 – 6 of Chapter 7 and the calculation engine appendices. Where applicable, sections 8.1 and 8.2 reference the appropriate <i>market rules</i> and processes that describe the determination of <i>market prices</i> .
Chapter 7	8.1 – 8.2	Market Prices		
Chapter 7	Existing section 8.3	Uniform Ex-Post Prices for Each Hour	Deleted	This section has been deleted as sections 8.1 and 8.2 include the appropriate price determination content.
Chapter 7	8.3	Ex-Post Determination of Economic Operating Points	New	This section specifies the <i>IESO's</i> obligation to determine economic operating points which support the calculation of make-whole payment <i>settlement amounts</i> in Chapter 9 of the <i>market rules</i> .
Chapter 7	8.4A	Administrative Pricing	Modified Deleted	<p>Modified the following:</p> <ul style="list-style-type: none"> • Section 8.4A – Throughout: <ul style="list-style-type: none"> ○ Specified references to the <i>real-time market</i> - i.e. <i>energy</i> and <i>operating reserve</i> for the <i>real-time market</i>; ○ Included reference to the <i>day-ahead market</i>, where applicable; ○ Removed references to "<i>market schedules</i>" which are no longer required; • Section 8.4A.2 – Modified section to include the <i>IESO</i> obligation to establish <i>administrative prices</i> within four <i>business days</i> (rather than two); • Section 8.4A.2.3 – The <i>IESO Board</i> approved acceptable causal events have been relocated to the <i>market rules</i> in new section 8.4A.3B, which will enable the removal of "approved by the <i>IESO Board</i>"; • Section 8.4A.2.4 (new) – consistent with existing section 8.4A.2.3 for the <i>real-time market</i>, new section obligates the <i>IESO</i> to determine <i>administrative prices</i> under specific <i>day-ahead market</i> pricing errors that meet <i>IESO</i> determined price error materiality thresholds. The acceptable causal events applicable to the <i>day-ahead market</i> have been included in new section 8.4A.3C; • Section 8.4A.3 - Modified section to specify the <i>IESO</i> is not required to established <i>administrative prices</i> beyond four <i>business days</i> in certain circumstances;

Chapter	Section	Topic	Type of Change	Description
				<ul style="list-style-type: none"> • Section 8.4A.3A – added new section number to separate existing language from section 8.4A.3 into its own section; • Section 8.4A.3B (new) – new section specifying the conditions when a published <i>energy</i> or <i>operating reserve market price</i> will be subject to administrative prices if it is incorrect due to an input in the <i>real-time calculation engine</i>; • Section 8.4A.3C (new) – new section sets out the conditions when a published <i>energy</i> or <i>operating reserve market price</i> will be subject to <i>administrative prices</i> if it is incorrect due to an input in the <i>day-ahead market calculation engine</i>; • Section 8.4A.4 – inserted “use the best available <i>dispatch data</i> to”, deleted references to “<i>market schedules</i>”, inserted “<i>day-ahead market</i>”, updated cross references’; • Section 8.4A.5 - amended section to include the three new types of <i>administrative pricing</i> methods included in the detailed design and to provide the <i>IESO</i> authority to use one or a combination of the listed methods; • Section 8.4A.5.6 (new) – new section that specifies the <i>administrative pricing</i> methodology from existing section 8.4A.6. Methodology remains unchanged but has been redrafted to clarify how prices will be administered; • Existing section 8.4A.6 – applicable content moved to section 8.4A.5.6; • Existing section 8.4A.7 – section on congestion management <i>settlement</i> credit payments deleted, no longer applicable; • Sections 8.4A.6 – section number repurposed and now includes market suspension administrative pricing information; • Section 8.4A.7 – section number repurposed and now includes <i>IESO</i> obligation to calculate applicable make-whole payments when an <i>administrative price</i> has been established; • Section 8.4A.8 – section number repurposed. Existing section 8.4A.17 has been relocated here, section 8.4A.8. Section has been modified to include the <i>day-ahead market</i>;

Chapter	Section	Topic	Type of Change	Description
				<ul style="list-style-type: none"> Section 8.4A.9 – 8.4A.16 – sections covering the process to request additional compensation (8.4A.9 – 8.4A.11) and settlement adjustments (8.4A.13 – 8.4A.16) as a result of <i>administrative pricing</i>, have been deleted and are no longer required under MRP.
Chapter 7	9	IESO Procurement Markets	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Incorporated new MRP related defined terms and specified <i>facility, resource, or unit</i> level applicability of obligations related to <i>ancillary services</i>; Section 9.4.5 – replaced “congestion management <i>settlement credit</i>” with “<i>day-ahead market or real-time market make-whole payment settlement amount</i>”; Section 9.6.2 – replaced constrained-on and constrained-off facility terminology (no longer applicable) with detail on how a <i>reliability must-run resource</i> is <i>dispatched</i>.
Chapter 7	Existing Section 10	Intentionally Left Blank	Deleted	Existing section 10 - “Intentionally Left Blank” has been deleted in its entirety with the section number repurposed with new section 10 - “Instructions for <i>GOG Eligible Resources</i> ”.
Chapter 7	10.1	Start-Up Notice	New	This section sets out the requirements of the IESO and <i>registered market participants</i> for a <i>GOG-eligible resource</i> , in relation to issuing and receiving <i>start-up notices</i> .
Chapter 7	10.2	Notice of De-commitment	New	This section sets out the requirements of the IESO and <i>registered market participants</i> for a <i>GOG-eligible resource</i> in relation to issuing and receiving a notice of de-commitment.
Chapter 7	10.3	Day-Ahead Operational Commitment and Pre-Dispatch Operational Commitment	New	This section sets out the requirements of the IESO and <i>registered market participants</i> for a <i>GOG-eligible resource</i> in relation to the cancellation or withdrawal of a <i>day-ahead operational commitment</i> or a <i>pre-dispatch operational commitment</i> .
Chapter 7	11	Synchronization Procedures	Modified	<ul style="list-style-type: none"> Incorporated new MRP related defined terms and specified <i>market participant, resource</i> and <i>unit</i> obligations for generation and electricity storage throughout section 11, where applicable. Introduced distinct provisions for <i>quick start resources</i> and <i>non-quick start resources</i> to

Chapter	Section	Topic	Type of Change	Description
				specify the process for synchronization and desynchronization.
Chapter 7	11.2	Process for synchronization	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> • Section 11.2.1 - Added sub-title "Quick Start Resources". Deleted existing language requiring two-hour notice to be provided to the <i>IESO</i>; • Section 11.2.2 (new) – Deleted existing provision and replaced with a new provision setting out requirements for <i>registered market participants</i> for a <i>GOG-eligible resource</i> that receives a <i>start-up notice</i>; • Section 11.2.2A (new) - Added new provision to set out requirements for a <i>non-quick start resource</i> that intends to synchronize; • Section 11.2.3 – replaced "<i>generator or electricity storage participant</i>" with "<i>non-quick start resource</i>"; • Section 11.2.4A (new) - Added new provision to establish <i>IESO's</i> authority to approve synchronization for <i>security</i> and <i>adequacy</i> reasons when approval is not requested in advance; • Section 11.2.6 – inserted "without limiting the obligation to provide notice under section 10.1.5" - Clarified the interaction with the required notice for synchronization and the notice required in relation to a <i>start-up notice</i>.
Chapter 7	11.3	Process for De-synchronization	Modified New	<p>Modified the following:</p> <ul style="list-style-type: none"> • Section 11.3.1 (new) - Replaced existing provision with a new five-minute notification requirement for a <i>quick start resources</i> intending to de-synchronize; • Section 11.3.1A (new) - Added a new provision to set out requirements for the de-synchronization procedure for a <i>GOG-eligible resource</i>; • Section 11.3.2 (new) - Replaced existing provision with a new provision that establishes a one-hour notification requirement for a <i>non-quick start resource</i> intending to de-synchronize; • Section 11.3.4A (new) – Added a new provision to authorize the <i>IESO</i> to approve de-synchronization in certain instances when

Chapter	Section	Topic	Type of Change	Description
				<p>a <i>generation resource</i> or <i>electricity storage resource</i> does not request prior approval;</p> <ul style="list-style-type: none"> Section 11.3.7 - inserted "without limiting the obligation to provide notice under section 10.2.4" - Clarified the interaction with the required notices for de-synchronization and the notices for de-commitment pursuant to section 10.2.4.
Chapter 7	11.4	Reliability	New	<ul style="list-style-type: none"> Section 11.4.1 (new) - new provision based on existing <i>market rule</i> section 5.8.6 of Chapter 7, which establishes <i>IESO</i> authority to direct a <i>resource</i> to de-synchronize, or to not synchronize, in order to maintain <i>reliability</i>.
Chapter 7	12.1	IESO System Status Reports and Advisory Notices	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Replaced "<i>pre-dispatch day</i>" with a reference to the "day prior to the relevant <i>dispatch day</i>"; Updated "EST" to "EPT" only for activities occurring to run and <i>publish</i> information for the <i>day-ahead market</i>; Section 12.1.1.6 – added "projected <i>energy shortfalls</i>" to the list of forecasts; Section 12.1.1.8 – updated the frequency for the forecasts of expected transmission limits with <i>outages</i> to be <i>published</i> from "hourly" to "twice each hour"; Section 12.1.5 – deleted redundant section.
Chapter 7	12.2	Over-Generation and Under-Generation Advisories	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Replaced "system notice" with "advisory notice"; Updated section to incorporate MRP related defined terms related to "<i>resource</i>"; For sections related to soliciting and accepting additional <i>bids</i>, or soliciting and accepting <i>offers</i> – removed reference to specific <i>resource</i> types as the language was unnecessary.
Chapter 7	13.1	Introduction	Modified	<p>Section 13.1.1 – the definition for "<i>market operations</i>" has been deleted from the body of this section and added to the defined terms in Chapter 11 of the <i>market rules</i>.</p>
Chapter 7	13.2	Market Suspension Events	Modified	<p>Section 13.2.4 – incorporated new defined term for "<i>electrical island</i>".</p>

Chapter	Section	Topic	Type of Change	Description
Chapter 7	13.3	Insufficient Reasons for Market Suspension	Modified	Modified the following: <ul style="list-style-type: none"> Deleted "Insufficient" from the title of the section; Section 13.3.1 – replaced "has become substantially impaired" with "has or will become substantially impaired"; Replaced "MMCP" acronym with "<i>maximum market clearing price</i>".
Chapter 7	13.4	IESO Declaration of Market Suspension	Modified	Section 13.4.2 – replaced " <i>dispatch</i> " with " <i>dispatch interval</i> ".
Chapter 7	13.5	IESO Responsibilities During Market Suspension	Modified New	Modified the following: <ul style="list-style-type: none"> Section 13.5.1.4 (new) - Replaced "intentionally left blank" with new section "suspend the <i>day-ahead market</i> when a suspension of the <i>real-time market</i> is expected to be in effect for future business days";
Chapter 7	13.6	Participant Responsibilities and Compensation	Modified	Italicized " <i>market operations</i> " – new defined term added to Chapter 11 of the <i>market rules</i> .
Chapter 7	13.7	Ending and Reporting on Market Suspension	Modified	Modified the following: <ul style="list-style-type: none"> Section 13.7.3.2 (new) - Added new provision for "the date and time period of the suspension of <i>market operations</i>."
Chapter 7	18	Capacity Auctions	No Change	Note: Section 18 will be further modified upon completion of the Capacity Auction Enhancements – Streams 1 and 2. No substantive changes.
Chapter 7	19	Capacity Market Participants with Capacity Obligations	Modified	Note: Section 19 will be further modified upon completion of the Capacity Auction Enhancements – Streams 1 and 2.
Chapter 7	19.2	Eligibility Requirements for Hourly Demand Response Resources	Modified	Section 19.2.4.1 – as a matter of clean-up, deleted cross reference to section 5A of Chapter 2. Section was deleted as part of the deletion of capacity based demand response program.
Chapter 7	19.3	Eligibility Requirements for Capacity	Modified	Modified the following: <ul style="list-style-type: none"> Section 19.3.1.3 - Added "<i>load</i>" before facilities, added "as a <i>dispatchable load</i>",

Chapter	Section	Topic	Type of Change	Description
		Dispatchable Load Resources		<p>added "applicable" – language consistent with section 19.6.1.3;</p> <ul style="list-style-type: none"> Deleted "for <i>wholesale consumers</i> that are <i>dispatchable loads</i>".
Chapter 7	19.4	Energy Market Participation for Hourly Demand Response Resources	Modified New	<p>Modified the following:</p> <ul style="list-style-type: none"> Section 19.4.2 – replaced "day-ahead <i>schedule of record</i>" with "<i>day-ahead schedule</i>", and replaced "shadow price" with "<i>locational marginal price</i>"; Section 19.4.4 – Inserted "Subject to 19.4.4B"; replaced "ahead of" with "no later than 2 hours before" the activation period; inserted "for the <i>pre-dispatch calculation engine</i> run three hours before the activation period"; Sections 19.4.4A and 19.4.4B (new) - Added new provisions related to <i>IESO</i> obligations for the issuance of activation notices – these obligations have been taken from existing <i>market manuals</i> and inserted into the <i>market rules</i> with minor <i>amendments</i>. This change also provides further alignment and consistency of language with updates to the <i>dispatch instruction</i> sections 7.2.1 and 7.2.5.
Chapter 7	20	Capacity Exports in the <i>IESO</i> -Administered Markets	Modified New	<p>Modified the following:</p> <ul style="list-style-type: none"> Section 20.4.1 (new) - Added new provision allowing only the <i>registered market participant</i> for the <i>resource</i> approved by the <i>IESO</i> to submit export <i>bids</i> for called <i>capacity exports</i>.
Chapter 7	21.2	Market Registration	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Sections 21.2.1 and 21.2.3 – replaced "fulfill" with "satisfy" – change made in response to stakeholder comments for more consistency in language between section 21.2.1 and 21.2.3; Section 21.2.3 – inserted "the <i>electricity storage participant</i> shall satisfy" – change made in response to stakeholder comments for more consistency in language between section 21.2.1 and 21.2.3; Section 21.2.4 - revised to be consistent with the approach used in sections 21.2.2 and 21.3.3. Specifically, <i>resources</i> 'participate' in markets, and 'provide'

Chapter	Section	Topic	Type of Change	Description
				<i>ancillary services</i> . Inserted "to" to correct grammatical error.
Chapter 7	21.4	Energy Offers and Energy Bids	Modified	Existing section 21.5.3 of the <i>market rules</i> , which had been deleted as part of MR-00457-R02 – Interim Alignment – Storage Integration has been re-inserted into section 21.4.3 (new). The <i>IESO</i> has modified the existing language by replacing "congestion management <i>settlement credit</i> " with "the <i>day-ahead market</i> make-whole payment or <i>real-time market</i> make-whole payment"; cross references to the applicable sections in Chapter 9 have been updated.
Chapter 7	21.5	Revisions to Dispatch Data	Modified	Modified the following: <ul style="list-style-type: none"> Section 21.5.1 – Deleted "notwithstanding section 3.3.5" for redundancy; Replaced "2 hours of a given <i>dispatch hour</i>" with the new defined term "<i>real-time market mandatory window</i>".
Chapter 7	21.6	Operating Reserve	Modified	Modified the following: <ul style="list-style-type: none"> Section 21.6.3.2 – Updated language for consistency with language in section 21.6.2.2.
Chapter 7	21.7	Interpretation	Modified	Section 21.7.3 - Corrected cross-reference.
Chapter 7	22	Market Power Mitigation		Note: The March 16, 2023 edits to section 22 – Market Power Mitigation have been shown as tracked changes. Only three <i>market rule</i> cross referencing style changes to conform to the new format have been made.
Chapter 7 Appendix 7.1-7.3	Throughout	Energy Offer, Schedule or Forecast Information Energy Bid Information Operating Reserve Offer Information	Modified	The following changes have been made throughout Chapter 7, Appendix 7.1-7.3: <ul style="list-style-type: none"> Revised to incorporate minor, stylistic wording changes; As a matter of clean-up, deleted instances of "intentionally left blank – section deleted"; Renumbered section/subsections and updated cross-references accordingly; Incorporated the new defined term '<i>resource</i>' where applicable; Deleted uses of previously defined term "<i>registered facility</i>" and replaced with the appropriate defined term e.g. "<i>facility</i>", "<i>resource</i>" or "<i>generation resource</i>" as the case may be;

Chapter	Section	Topic	Type of Change	Description
				<ul style="list-style-type: none"> Replaced instances of "Contact information" with "<i>Registered market participant</i>"; Replaced instances of "Hour(s)" with "<i>dispatch day</i> and <i>dispatch hour(s)</i>"; Replaced instances of "category" with "class"; Updated references to <i>NERC</i> transactions and incorporated "e-Tag"; Added instances of "<i>operating reserve class</i>" as part of an <i>offer</i> submission; Replaced instances of "by <i>boundary entity resource</i> as created by the <i>IESO</i>" with "<i>interconnection</i> and <i>boundary entity resource</i>".
Chapter 7 Appendix 7.1	1.1	Energy Offers/Schedules/Forecasts from Generation Resources	Modified New	<p>Modified the following:</p> <ul style="list-style-type: none"> Section title – Replaced "Within the IESO Control Area" with "Energy Offers/Schedules/Forecasts from Generation Resources". Section 1.1.1 (new) - Added a new introductory clause for this section. Section 1.1.7 (new) – Added new provision to specify additional, mandatory <i>dispatch data</i> parameters for a <i>dispatchable generation resource</i> other than a <i>quick-start resource</i> or a nuclear <i>generation resource</i>.
Chapter 7 Appendix 7.1	1.2	Energy Offers from Imports	Modified New	<p>Modified the following:</p> <ul style="list-style-type: none"> Section title – Replaced "Offers Outside the IESO Control Area" with "Energy Offers from Imports"; Section 1.2.1 (new) - Added new introductory clause for this section; Previous section 1.2.6 – Deleted "daily <i>energy</i> limit (if applicable)" as a minimum requirement; Section 1.2.9 – inserted "notwithstanding section 3.3 of Chapter 7"; Section 1.2.10 (new) - Added new provision for "capacity transaction parameter, if applicable".
Chapter 7 Appendix 7.1	1.3	Energy Offers for Virtual Zonal Resources	New	This new section has been added to set out requirements for <i>registered market participants</i> participating as <i>virtual traders</i> when submitting <i>offers</i> for a <i>virtual zonal resource</i> .
Chapter 7 Appendix	1.1	Energy Bids from Load Resource	Modified	Modified the following:

Chapter	Section	Topic	Type of Change	Description
7.2				<ul style="list-style-type: none"> Section title - Replaced "Within the IESO Control Area" with "Energy Bids from Load Resources". Section 1.1.1 (new) - Added new introductory clause for this section; Section 1.1.2 - Replaced "Unique <i>load</i> identifier" with "<i>Resource</i> name".
Chapter 7 Appendix 7.2	1.2	Energy Bids from Exports	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Section 1.2 - Section title – Replaced "Bids Outside the Control Area" with "Energy Bids from Exports" Section 1.2.1 (new) - Added new introductory clause for this section; Section 1.2.9 – inserted "notwithstanding section 3.3 of Chapter 7"; Section 1.2.10 - Added new provision for "Capacity transaction parameter, if applicable".
Chapter 7 Appendix 7.2	1.3	Energy Bid Information	New	This new section has been added to set out requirements for <i>registered market participants</i> participating as <i>virtual traders</i> when submitting <i>bids</i> for a <i>virtual zonal resource</i> .
Chapter 7 Appendix 7.3	1.1	Operating Reserve Offers from Generation Resources	Modified New	<p>Modified the following:</p> <ul style="list-style-type: none"> Section title - Replaced "Generators Within the IESO Control Area" with "Operating Reserve Offers from Generation Resources"; Section 1.1.1 (new) - Added new introductory clause for this section.
Chapter 7 Appendix 7.3	1.2	Operating Reserve Offers from Imports	Modified New	<p>Modified the following:</p> <ul style="list-style-type: none"> Section title – Replaced "Offers Outside the Control Area" with "Operating Reserve Offers from Imports"; Section 1.2.1 (new) - Added new introductory clause for this section.
Chapter 7 Appendix 7.3	1.3	Operating Reserve Offers from Dispatchable Loads	Modified New	<p>Modified the following:</p> <ul style="list-style-type: none"> Section title - Replaced "Within the IESO Control Area" with "Operating Reserve Offers from Dispatchable Loads"; Section 1.3.1 - Added new provision to establish the minimum <i>offer</i> requirements for a <i>dispatchable load</i> to provide <i>operating reserve</i>.
Chapter 7 Appendix 7.3	1.4	Operating Reserve Offers from Exports	Modified New	<p>Modified the following:</p> <ul style="list-style-type: none"> Section 1.4 - Section title – Updated existing title from "Loads Outside the Control Area" to "Operating Reserve Offers from Exports";

Chapter	Section	Topic	Type of Change	Description
				<ul style="list-style-type: none"> Section 1.4.1 (new) - Added new introductory clause for this section.
Chapter 7 Appendix 7.4	1.1	Transmission Information Required for Scheduling and Dispatching	Modified	Modified the following: <ul style="list-style-type: none"> Section 1.1.3.1 - Replaced "scheduling <i>dispatch</i> and pricing algorithm" with "<i>day-ahead market calculation engine, pre-dispatch calculation engine and real-time calculation engine</i>".
Chapter 7 Appendix 7.7	1.1	Applicable Configurations	Modified	Updated to reflect new " <i>resource</i> " related defined terms.
Chapter 7 Appendix 7.7	1.2	Dispatch Data	Modified	Updated to reflect new " <i>resource</i> " related defined terms.
Chapter 7 Appendix 7.7	1.3	Scheduling & Scheduling Approval	Modified	Modified the sections related to <i>segregated mode of operations</i> , and the requirements for a <i>registered market participant</i> when submitting a <i>request for segregation</i> .
Chapter 7 Appendix 7.7	1.4	Dispatch Data	No Change	No substantive changes.
Chapter 7 Appendix 7.8	1	Introduction	New	Appendix 7.8 (new) – Economic Operating Point Identifies the purpose of the appendix.
Chapter 7 Appendix 7.8	2	Day-Ahead Market (DAM) Lost Cost (LC) Economic Operating Point (EOP)	New	Identifies the procedure of calculating the lost cost economic operating point for eligible <i>resources</i> in the <i>day-ahead market</i> (DAM LC EOP).
Chapter 7 Appendix 7.8	2.1	Purpose	New	Identifies the purpose of calculating the DAM LC EOP.
Chapter 7 Appendix 7.8	2.2	Sets, Indices and Parameters used by the Day-Ahead Market Lost Cost Economic Operating	New	Section defines the mathematical notations, used by the DAM LC EOP and that correspond to <i>resource</i> specific data, <i>IESO</i> input data, and data derived by the DAM LC EOP.

Chapter	Section	Topic	Type of Change	Description
		Point Calculation		
Chapter 7 Appendix 7.8	2.3	Objective Function	New	Section identifies the optimization variables used to calculate the DAM LC EOP and describe the DAM LC EOP optimization problem.
Chapter 7 Appendix 7.8	2.4	Constraints	New	Section describes the constraints that govern the DAM LC EOP optimization problem and that correspond to scheduling variable bounds, <i>regulation</i> requirements, <i>market participant</i> requirements, <i>operating reserve</i> ramping, <i>pseudo-units</i> and <i>resources</i> with <i>linked forebays</i> .
Chapter 7 Appendix 7.8	2.5	Calculation of DAM LC EOP for Resources with a Linked Forebay Under Certain Conditions	New	Section describes the calculation of DAM LC EOP for <i>resources</i> with a <i>linked forebay</i> under certain constraints that correspond to constraint violation prices, <i>resource</i> hourly and daily constraints and <i>reliability</i> .
Chapter 7 Appendix 7.8	2.6	Outputs	New	Section describes the final calculations of the DAM LC EOP used for <i>settlement</i> for each <i>resource</i> type.
Chapter 7 Appendix 7.8	3	Real-Time (RT) Lost Cost (LC) Economic Operating Point (EOP)	New	Section identifies the procedure of calculating the real-time lost cost economic operating point (RT LC EOP).
Chapter 7 Appendix 7.8	3.1	Purpose	New	Section identifies the purpose of calculating the RT LC EOP.
Chapter 7 Appendix 7.8	3.2	Sets, Indices and Parameters used by the Real-Time Lost Cost Economic Operating Point Calculation	New	Section defines the mathematical notations, used by the RT LC EOP and that correspond to resource-specific data, <i>IESO</i> input data, and data derived by the RT LC EOP.

Chapter	Section	Topic	Type of Change	Description
Chapter 7 Appendix 7.8	3.3	Objective Functions	New	Section identifies the optimization variables used to calculate the RT LC EOP and describe the RT LC EOP optimization problem.
Chapter 7 Appendix 7.8	3.4	Constraints	New	Section describes the constraints that govern the RT LC EOP optimization problem and that correspond to scheduling variable bounds, <i>regulation</i> requirements, <i>market participant</i> requirements, <i>operating reserve</i> ramping and <i>pseudo-units</i> .
Chapter 7 Appendix 7.8	3.5	Outputs	New	Section describes the final calculations of the RT LC EOP used for <i>settlement</i> for each <i>resource</i> type.
Chapter 7 Appendix 7.8	4	Real-Time (RT) Lost Opportunity Cost (LOC) Economic Operating Point (EOP)	New	Section identifies the procedure of calculating the RT LOC EOP.
Chapter 7 Appendix 7.8	4.1	Purpose	New	Section identifies the purpose of calculating the RT LOC EOP.
Chapter 7 Appendix 7.8	4.2	Sets, Indices and Parameters used by the Real-Time Lost Opportunity Cost Economic Operating Point Calculation	New	Section defines the mathematical notations, used by the RT LOC EOP and that correspond to <i>resource</i> -specific data, <i>IESO</i> input data, and data derived by the RT LOC EOP.
Chapter 7 Appendix 7.8	4.3	Objective Function	New	Section identifies the optimization variables used to calculate the RT LOC EOP and describe the RT LOC EOP optimization problem.
Chapter 7 Appendix 7.8	4.4	Constraints	New	Section describes the constraints that govern the RT LOC EOP optimization problem and that correspond to scheduling variable bounds, <i>regulation</i> requirements, <i>market participant</i> requirements, <i>operating reserve</i> ramping and <i>pseudo-units</i> .

Chapter	Section	Topic	Type of Change	Description
Chapter 7 Appendix 7.8	4.5	Outputs	New	Section describes the final calculations of the RT LOC EOP used for <i>settlement</i> for each type of <i>resources</i> .
Chapter 11	n/a	All	New Modified Deleted	Various – new defined terms are proposed to support amendments made for the Market and Systems Operations Batch. Defined terms that were introduced to stakeholders but have not been through the <i>Technical Panel</i> process are re-introduced here as new changes. Changes that have been made to defined terms that have been through the <i>Technical Panel</i> process and provisionally approved by the <i>IESO Board</i> are explained below. Some defined terms are deleted where they are no longer required.
Chapter 11	n/a	<i>binding pre-dispatch advisory schedule</i>	Modified	This defined term was introduced in the Settlements batch. Further refinements have been made to add clarity to the definition.
Chapter 11	n/a	<i>cascade group</i>	Modified	This defined term was introduced in the Settlements batch. Further refinements have been made to remove the requirement for the same owner across <i>forebays</i> .
Chapter 11	n/a	<i>day-ahead operational commitment</i>	Modified	This defined term was introduced in the Settlements batch. The section reference has been updated.
Chapter 11	n/a	<i>day-ahead operational schedule</i>	Modified	This defined term was introduced in the Settlements batch. An update has been made to improve clarity.
Chapter 11	n/a	<i>dispatch data</i>	Modified	This defined term was introduced in the Market Entry and Prudentials batch. The section reference has been updated.
Chapter 11	n/a	<i>dispatchable load</i>	Modified	Load resource was added to this existing term in the Market Entry and Prudentials batch. The definition has been further refined to include the <i>day-ahead market</i> .
Chapter 11	n/a	<i>elapsed time to dispatch</i>	Modified	This existing term was amended in the Market Entry and Prudentials batch to integrate the term <i>resource</i> . Additional refinements have been made to specify the relationship with market registration.
Chapter 11	n/a	<i>extended pre-dispatch</i>	Modified	This defined term was introduced in the Settlements batch. The section reference has been updated.

Chapter	Section	Topic	Type of Change	Description
		<i>operational commitment</i>		
Chapter 11	n/a	<i>generation station service</i>	Modified	This existing term was amended in the Interim Alignment batch to integrate the term <i>resource</i> . Further amendments correct a reference to the defined term <i>generation facility</i> , with updates to conform to the new convention for <i>market rule</i> cross references.
Chapter 11	n/a	<i>intertie border price</i>	Modified	This defined term was amended in both the Market Power Mitigation and Calculation Engine batches. As the Market Power Mitigation batch has been provisionally board-approved, changes are tracked against that version. The definition has been refined to be more specific in the various references to prices.
Chapter 11	n/a	<i>lead time reference level</i>	New	This definition was introduced in the March update to the Market Power Mitigation batch. Since this occurred after the batch received provisional <i>IESO Board</i> approval, it is presented here as a new definition.
Chapter 11	n/a	<i>linked wheeling through transaction</i>	Modified	The section reference is updated from the draft introduced in the Settlements batch.
Chapter 11	n/a	<i>maximum daily energy limit</i>	Modified	This definition was introduced in the Market Power Mitigation batch and was amended in the Calculation Engines batch. Further refinements specify its application for different <i>resource</i> types. As well, the reference to hydro <i>resources</i> is no longer needed because the detail is included in Chapter 7 section 3.5.25.1. Both the Calculation Engines batch changes along with those proposed here are shown.
Chapter 11	n/a	<i>maximum daily trading limit</i>	Modified	The definition that was proposed in the Market Entry and Prudentials batch is amended to update the references to conform to the new convention for <i>market rule</i> cross references.
Chapter 11	n/a	<i>maximum number of starts per day reference level</i>	New	This definition was introduced in the March update to the Market Power Mitigation batch. Since this occurred after the batch received provisional <i>IESO Board</i> approval, it is presented here as a new definition.
Chapter 11	n/a	<i>minimum daily energy limit</i>	Modified	Part of the definition that was included in the Settlements batch has been removed consistent with the edits to the defined term <i>maximum daily energy limit</i> . As well, the reference to hydro

Chapter	Section	Topic	Type of Change	Description
				<i>resources</i> is no longer needed because the detail is included in Chapter 7 section 3.5.26.1.
Chapter 11	n/a	<i>minimum generation block down-time reference level</i>	New	This definition was introduced in the March update to the Market Power Mitigation batch. Since this occurred after the batch received provisional <i>IESO Board</i> approval, it is presented here as a new definition.
Chapter 11	n/a	<i>minimum generation block run-time reference level</i>	New	This definition was introduced in the March update to the Market Power Mitigation batch. Since this occurred after the batch received provisional <i>IESO Board</i> approval, it is presented here as a new definition.
Chapter 11	n/a	<i>minimum loading point reference level</i>	New	This definition was introduced in the March update to the Market Power Mitigation batch. Since this occurred after the batch received provisional <i>IESO Board</i> approval, it is presented here as a new definition.
Chapter 11	n/a	<i>non-committed resource</i>	Modified	This existing term, which was modified in the Interim Alignment, has been further refined to correct for a typographical error.
Chapter 11	n/a	<i>non-dispatchable generation resource</i>	Modified	This term was introduced in the Market Power Mitigation batch and is being amended here to remove redundancy and to delete reference to <i>transitional scheduling generators</i> , which no longer exist.
Chapter 11	n/a	<i>non-dispatchable load</i>	Modified	This term was amended in the Interim Alignment batch and is further amended here to include reference to the <i>day-ahead market</i> .
Chapter 11	n/a	<i>offer</i>	Modified	This existing defined term was amended in the Market Power Mitigation batch and is further amended here to improve clarity and revise the cross-reference to conform to the new convention for <i>market rule</i> cross references.
Chapter 11	n/a	<i>speed no-load offer</i>	Modified	This term was introduced in the Market Power Mitigation batch and is refined here to improve clarity. The latest revisions are closely aligned with how existing term "speed no-load cost" is defined.
Chapter 11	n/a	<i>stand-alone pre-dispatch operational commitment</i>	Modified	This term was introduced in the Settlements batch and is updated here to revise the cross reference.
Chapter 11	n/a	<i>time lag</i>	Modified	This term was introduced in the Market Registration and Prudentials batch and is revised here to integrate other newly defined terms.

Summary of Market Rule Changes: March 2024

Chapter	Section	Topic	Type of Change	Description
Chapter 7	Throughout	All	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> • Minor, stylistic wording and punctuation changes; • For clarification, replaced "combustion turbines" with "combustion turbine <i>resources</i>"; replaced "steam turbine" with "steam turbine <i>resources</i>"; replaced "steam turbine unit/gas turbine unit" with "steam turbine <i>resource</i>/gas turbine <i>resource</i>"; • Revised <i>market rule</i> cross-references to new convention. <p>These changes were made in response to internal feedback.</p>
Chapter 7	2.2	Facility and Associated Resource Registration - Load Participation Types	Modified New	<p>Modified the following:</p> <ul style="list-style-type: none"> • SS.2.2.19 & 2.2.20 – replaced "<i>resource type</i>" with "<i>resource's load participation type</i>"; • Section 2.2.19.3 – for a request to change from a <i>dispatchable load</i> or <i>price responsive load</i> to a <i>non-dispatchable load</i>, changed effective date of the change from 'seven <i>business days</i>' to '75 calendar days'. This change will align the timelines with those established in Market Manual 1.5; • Section 2.2.19.4 (new) – timeline to change from a <i>dispatchable load</i> to a <i>price responsive load</i> – 75 calendar days; The corresponding Market Manual 1.5 updates will be included as part of Final Alignment; • Section 2.2.19.5 (new) – timeline to change from a <i>price responsive load</i> to a <i>dispatchable load</i> – 180 calendar days. The corresponding Market Manual 1.5 updates will be included as part of Final Alignment. <p>These changes were made in response to internal feedback.</p> <p>Section 2.2.20 – Changed the timeline from '12 months' to '180 calendar days' in response to stakeholder feedback [ID#12 - AMPCO].</p>
Chapter 7	3.3.3	Submissions During the Real-Time Market Unrestricted Window for	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> • Sections 3.3.3.9a, 3.3.3.11a & 3.3.3.13a – replaced "has not received an <i>extended pre-dispatch operational commitment</i>" with the following clarifying language "has received a

Chapter	Section	Topic	Type of Change	Description
		Hourly Dispatch Data Parameters		<p>notice of de-commitment in accordance with section 10.2.1";</p> <ul style="list-style-type: none"> Section 3.3.3.9b, 3.3.3.11b & 3.3.3.13b – replaced "combustion turbine <i>generation unit</i>" with "<i>single cycle mode</i> of operation". <p>These changes were made in response to internal feedback.</p>
Chapter 7	3.3.5	Revisions to Hourly Dispatch Data – Mandatory Window	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Inserted "<i>real-time market</i>" prior to "<i>mandatory window</i>"; For clarification, replaced "Notwithstanding the foregoing, <i>IESO</i> approval is not required in the following circumstances" with "Notwithstanding the foregoing, the <i>IESO</i> shall approve revisions to hourly <i>dispatch data</i> during the <i>real-time market mandatory window</i> in the following circumstances" - There is no process change for <i>market participants</i> related to the changes described above. The modification clarifies the approval process undertaken by the <i>IESO</i> during the <i>mandatory window</i>. <p>These changes were made in response to internal feedback.</p>
Chapter 7	3.3.7	Revisions to Daily Dispatch Data	New	<p>Introduced new section 3.3.7.4 to provide <i>market participants</i> more flexibility to revise various daily <i>dispatch data</i> parameters during the <i>real-time market restricted window</i> for reasons prescribed in the applicable <i>market manual</i>.</p> <p>With the addition of this section, section 3.3.7 will now also be subject to section 3.3.7.4.</p> <p>This change was made in response to internal feedback.</p>
Chapter 7	3.4	The Form of Dispatch Data	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Section 3.4.1.6 – inserted "or a <i>capacity dispatchable load resource</i>" to list of <i>resources</i> that submit <i>demand response energy bids</i>; Section 3.4.6 – corrected grammatical error – deleted duplicative instance of "<i>energy</i>".

Chapter	Section	Topic	Type of Change	Description
				This change was made in response to internal feedback.
Chapter 7	3.5	Energy Offers and Energy Bids: Price-Quantity Pairs	Editorial	<p>Within the context of <i>price-quantity pairs</i>, modified the following in section 3.5.5.7:</p> <ul style="list-style-type: none"> • Replaced "include" with "submit"; • Replaced "in its <i>price-quantity pair</i> a quantity" with "in one of its <i>price-quantity pairs</i> a quantity". Under this change, <i>market participants</i> will be obligated to submit a quantity equal to its <i>minimum loading point</i> in one of its <i>price-quantity pairs</i>, rather than being obligated to submit its <i>minimum loading point</i> in its second <i>price-quantity pair</i>. <p>This change was made in response to stakeholder feedback [ID#54 - OPG].</p>
Chapter 7	3.5	Energy Offers and Energy Bids: Dispatch Data Parameters	Editorial	<p>Sections 3.5.15.1, 3.5.17.1, 3.5.24.2 & 3.5.29.2 – replaced "MWs" with "MW".</p> <p>This change was made in response to stakeholder feedback [ID#27 - OPG].</p>
Chapter 7	3.5.23	Energy Offers and Energy Bids: Linked Forebay	Modified	<p>Sections 3.5.23 – added "<i>registered market participant</i> reasonably expects that the".</p> <p>This change was made in response to stakeholder feedback [ID#28 - OPG].</p>
Chapter 7	3.6.2	Operating Reserve Offers	Modified	<p>Included the word "submitted" to clarify that the limit of five <i>price-quantity pairs</i> is applicable to <i>offers for operating reserve</i> that are submitted.</p> <p>This change was made in response to internal feedback.</p>
Chapter 7	3.6.5	Operating Reserve Offers	Editorial	<p>Replaced 'intends' with 'proposes' for greater consistency of language with other sections of the rules pertaining to <i>electricity storage resources</i>.</p> <p>This change was made in response to internal feedback.</p>
Chapter 7	3.6.7	Reserve Loading Point	Modified	<p>Section 3.6.7 – for clarity, replaced "cannot provide <i>operating reserve</i>" with "cannot provide the scheduled <i>operating reserve</i>".</p> <p>This change was made in response to stakeholder feedback [ID#2 - Atura].</p>

Chapter	Section	Topic	Type of Change	Description
Chapter 7	3A.1.4.2	Intertie Flow Limits	Modified	Amended section to integrate <i>IESO Board</i> approved MR-00478: Corrections to Intertie Flow Limits. This change was made in response to internal feedback.
Chapter 7	4.7.3	Publishing Day- Ahead Market Information	Deleted	Year-to-date information on cumulative hourly <i>energy</i> and <i>operating reserve</i> prices will no longer be produced due to technical barriers arising from the resulting file size. This change was made in response to internal feedback.
Chapter 7	4.8	Issuing Market Participant Specific Day-Ahead Information	Modified	The timing for the release of the Dispatch Data Report for the Day-Ahead Market Scheduling Process has been changed to occur following completion of the <i>day-ahead market</i> . Since the timing of the report is now equivalent to the subsequent section, the two sections (4.8.1 and 4.8.2) can be combined, resulting in a re-numbering of the section. This change was made in response to internal feedback.
Chapter 7	5.7.3	Other Information - Dispatch Deviation Report	Deleted	Section has been deleted as a comparison of <i>dispatch instructions</i> and the outcomes of the <i>pre-dispatch calculation engine</i> is not applicable. MR Ch.7 s.6.6.5 provides the obligation for the <i>IESO</i> to <i>publish</i> the dispatch deviation report based on the results of the <i>real-time calculation engine</i> . The deletion was made in response to stakeholder feedback [ID#34 - OPG].
Chapter 7	7.4	IESO Dispatch of Operating Reserve - Operating Reserve Accessibility	Modified	Section was amended to integrate MR-00467-R00: Improving Accessibility of Operating Reserve. Modified the following: <ul style="list-style-type: none"> Sections 7.4.2.1 and 7.4.6 – included a reference to, and aligned terminology with, MR Ch.9 s.3.10; Ch.9 s.3.10 specifies the <i>operating reserve</i> non-accessibility charge and was <i>published</i> as part of the January 29th, 2024 update to MRP Settlements. The revised Chapter 9 content

Chapter	Section	Topic	Type of Change	Description
				<p>will be brought forward to the Technical Panel as part of Final Alignment.</p> <p>These changes were made in response to internal feedback.</p>
Chapter 7	8.4A.3C	Administrative Pricing	Modified	<p>Section 8.4A.3C was amended to clarify that <i>market prices</i> in the <i>day-ahead market</i> will be considered incorrect due to loss or corruption of "data."</p> <p>This change was made in response to internal feedback.</p>
Chapter 7	9.4.1	Ancillary Services	Modified	<p>Section was amended to include a reference to "<i>facility</i>" in alignment with the rest of section 9.4.</p> <p>This change was made in response to internal feedback.</p>
Chapter 7	10.3.3	Day-Ahead Operational Commitment and Pre-Dispatch Operational Commitment	Editorial	<p>Corrected typographical error - replaced "operation" with "operational".</p> <p>This change was made in response to internal feedback.</p>
Chapter 7	10.3.5	Operational Commitments	New	<p>New section has been added to specify the obligation for <i>registered market participants</i> to ensure <i>offers</i> are submitted to reflect a <i>resources</i> hourly ramping capabilities associated with operational commitments.</p> <p>This change was made in response to stakeholder feedback [ID#39 - OPG].</p>
Chapter 7	11.3	Process for De-Synchronization	Editorial	<p>Section 11.3.1A – corrected typographical error by replacing "desynchronize" with "de-synchronize".</p> <p>This change was made in response to internal feedback.</p>
Chapter 7	18	Capacity Auctions	Modified	<p>Note: Capacity Auction Enhancements – MR-00476: 2023 Capacity Auction Enhancements – Stream 1 and MR-00477: 2023 Capacity Auction Enhancements – Stream 2 have been integrated into sections 18 & 19 as approved by the <i>IESO Board</i>. Tracked changes have been shown for incremental MRP-related amendments.</p>

Chapter	Section	Topic	Type of Change	Description
				<p>Modified the following:</p> <ul style="list-style-type: none"> • Section 18.2.1.1 – corrected a typographical error. Replaced “MR Ch.3” with “MR Ch.2”; • Section 18.3.2 – corrected references to the defined term <i>capacity prudential support</i> by deleting “auction” from the term; • Section 18.4.4 – replaced reference to MR Ch.9 s.4.7J.3 with MR Ch.9 s.4.13.9; • Section 18.8.1.4 – as a matter of clean-up, deleted “[Intentionally left blank – section deleted]”. <p>These changes were made in response to internal feedback.</p>
Chapter 7	19	Capacity Market Participants with Capacity Obligations	Modified	<p>Note: Capacity Auction Enhancements – MR-00476: 2023 Capacity Auction Enhancements – Stream 1 and MR-00477: 2023 Capacity Auction Enhancements – Stream 2 have been integrated into sections 18 & 19 as approved by the <i>IESO Board</i>. Tracked changes have been shown for incremental MRP related amendments.</p> <p>Modified the following:</p> <ul style="list-style-type: none"> • Throughout – replaced references to MR Ch.9 s.4.7J with reference to new section MR Ch.9 s.4.13; • Throughout – replaced reference to section 3.5.6 with reference to 3.5.9 as the section was relocated as part of the July 14th MSO publication; • Throughout – within the context of non-performance charges, replaced cross references to the “applicable <i>market manual</i>” with a cross reference to MR Ch.9 s.4.13; • Section 19.4.4B.3 – replaced “<i>registered facility</i>” with “<i>resource</i>”; • Section 19.4.20 – replaced “prudential support” with the defined term “<i>capacity prudential support</i>”; • Section 19.5.10 – replaced “<i>dispatchable load</i>” with “<i>capacity dispatchable load resource</i>”; • Sections 19.8.1.4 & 19.9A.1.3 – corrected cross references related to <i>prudential support/capacity prudential support</i> from MR Ch.2 s.5 to MR Ch.2 s.5B.

Chapter	Section	Topic	Type of Change	Description
				<ul style="list-style-type: none"> Section 19.9A.1.2 – replaced “<i>boundary entity</i>” with “<i>boundary entity resource</i>”. <p>These changes were made in response to internal feedback.</p>
Chapter 7	21.4	Electricity Storage in the IESO-Administered Markets – Energy Offers and Energy Bids	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Section 21.4.2 - The existing ‘no-overlap’ rule that requires <i>electricity storage participants</i> to not submit <i>offer</i> prices that are lower than any <i>bid</i> prices has been modified to integrate an <i>electricity storage resource’s energy offer reference level value</i>. Similar in intent to the original section, this is to prevent conflicting <i>dispatch instructions</i> being created as a result of the application of ex-ante mitigation; Section 21.4.3 – reworded this section to refer to section 21.4.2, including therefore the <i>reference level value</i>, and avoid having to re-stipulate the conditions. <p>These changes were made in response to internal feedback.</p>
Chapter 7	21.6.1	Electricity Storage in the IESO-Administered Markets-Operating Reserve	Modified	<p>Corrected an inconsistency between sections 21.6.1 and 21.6.2 (and 21.6.3).</p> <p>These changes were made in response to internal feedback.</p>
Chapter 7	22	Market Power Mitigation		<p>Note: Section 22 – Market Power Mitigation (MPM) has been left blank within the Market and System Operations set of <i>market rule</i> amendments. The latest version of the MPM rules based on the most recent December, 2023 posting will be included within the Final Alignment batch of <i>market rule</i> amendments.</p>
Chapter 11	n/a	<i>availability declaration envelope</i>	Editorial	<p>Updated cross-reference from section 4.8.2 to section 4.8.1 of Chapter 7. The change was made to align with the modification above under Chapter 7 section 4.8.</p>
Chapter 11	n/a	<i>day-ahead market expiration</i>	Editorial	<p>Updated cross-reference from section 4.8.2 to section 4.8.1 of Chapter 7. The change was made to align with the modification above under Chapter 7 section 4.8.</p>

Chapter	Section	Topic	Type of Change	Description
Chapter 11	n/a	<i>demand response bid price threshold</i>	Modified	<p>Modified the term to remove reference to the <i>day-ahead market</i>. The <i>IESO</i> is removing the obligation for <i>hourly demand response resources</i> to bid above this threshold in the <i>day-ahead market</i>. The threshold will only be applicable for the <i>real-time market</i>.</p> <p>The change was made in response to stakeholder feedback (ID#13 - AMPCO)</p>
Chapter 11	n/a	<i>demand response energy bid</i>	Modified	<p>The term has been updated to reflect the removal of the obligation for <i>hourly demand response resources</i> to bid above this threshold in the <i>day-ahead market</i>.</p> <p>The change was made in response to stakeholder feedback (ID#13 - AMPCO)</p>
Chapter 11	n/a	<i>ramp up energy to minimum loading point</i>	Editorial	<p>Modified the following:</p> <ul style="list-style-type: none"> Replaced "produce" with "inject". The use of the word "inject" is aligned with the proposed definition as part of calculation engine definitions. <p>The change was made in response to internal feedback.</p>
Chapter 11	n/a	<i>reserve loading point</i>	Modified	<p>Added "<i>offered</i>" to specify the "<i>maximum offered amount</i>".</p> <p>The change was made in response to stakeholder feedback (ID#2 - Atura) and is aligned with an update to MR Ch.7 s.3.6.7.</p>

Summary of Market Rule Changes: May 2024

Chapter	Section	Topic	Type of Change	Description
Chapter 7	1.2	Scope of the Physical Markets	Modified	<p>Modified section 1.2.2 to remove unnecessary language, "in an integrated fashion."</p> <p>This change was made in response to written comments from Vlad Urukov [ID #1].</p>
Chapter 7	1.6	IESO Authorities and Obligations Regarding the Operation of the IESO Administered Markets	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Sections 1.6.1.1 and 1.6.1.2 – removed the redundancy language describing the defined terms <i>MMCP</i> and <i>MORP</i>; Section 1.6.1.4 – corrected a typographical error. Replaced `;` with `.`; Section 1.6.4 – removed "for a given <i>dispatch day</i>"; Section 1.6.4.1 – inserted a missing comma after "suspension"; Section 1.6.4.3 – replaced "<i>administrative pricing</i>" with "<i>administrative price</i>" to align with the defined term. This change was also made in MR Ch.7 ss.8.4A.5, 8.4A.5.6 and 8.4A.6.2; Section 1.6.6 – replaced "issuance" with the defined term "<i>publication</i>". <p>This change was made in response to written comments from Vlad Urukov [ID #2, 6 & 7].</p>
Chapter 7	2.2	Facility and Associated Resources Registration	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Section 2.2.11 – for clarity, re-inserted "any associated" before <i>resources</i>. <p>This change was made in response to written comments from Vlad Urukov [ID #14].</p>
Chapter 7	2.2A & 2.2.D	Registration of Commissioning Generation Facilities/ Electricity Storage Facilities	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> Section 2.2A.1 – Added reference to the "day-ahead market" to align with section 2.2.A.3; Section 2.2D.1 – Added reference to the "day-ahead market" to align with section 2.2.D.3. <p>This change was made in response to written comments from Vlad Urukov [ID #18].</p>
Chapter 7	3.2	Submissions During the	Modified	<p>Modified section 3.2.6 to clarify that if a submission during the DAM restricted window is</p>

Chapter	Section	Topic	Type of Change	Description
		Day-Ahead Market Restricted Window		<p>not approved by the IESO per section 3.2.4/3.2.5, the dispatch data submitted prior to the close of the DAM submission window (10:00 EPT) will be used as inputs into the DAM calculation engine for the relevant dispatch day.</p> <p>This change was made in response to written comments from Vlad Urukov [ID #22].</p>
Chapter 7	3.3	Dispatch Data Submissions in the Real-Time Market	Editorial	<p>Modified section 3.3.1 to replace `;"` with `:'`.</p> <p>This change was made in response to written comments from Vlad Urukov [ID #24].</p>
Chapter 11	n/a	<i>real-time market mandatory window</i>	Editorial	<p>Inserted the word "of" after "the period" to correct a typographical error.</p> <p>This change was made in response to written comments from Jennifer Jayapalan [ID #29].</p>
Chapter 11	n/a	<i>settlement floor price</i>	Modified	<p>Removed "and is established by the <i>IESO Board</i>" as the language is redundant with MR Ch.7 s.1.6.1.4.</p> <p>This change was made in response to written comments from Vlad Urukov [ID #2].</p>
Chapter 11	n/a	<i>start indication value</i>	Modified	<p>For clarity, replaced "the <i>generation units associated</i> with the <i>resource</i> have" with "it has."</p> <p>This change was made in response to internal feedback.</p> <p>Italicized, within the definition of "<i>start indication value</i>", the defined term "<i>maximum number of starts per day</i>."</p> <p>This change was made in response to written comments from Vlad Urukov [ID #10].</p>

Market Manuals – Market and System Operations

The following *market manuals* are part of the Market and System Operations batch, released on July 14, 2023:

- Market Manual 4: Market Operations, Part 4.1: Submitting Dispatch Data in the Physical Markets
- Market Manual 4: Market Operations, Part 4.2: Operation of the Day-Ahead Market
- Market Manual 4: Market Operations, Part 4.3: Operation of the Real-time Markets
- Market Manual 4: Market Operations, Part 4.5: Market Suspension and Resumption
- Market Manual 7: System Operations, Part 7.1: IESO-Controlled Grid Operating Procedures
- Market Manual 7: System Operations, Part 7.2: Near-term Assessments and Reports
- Market Manual 7: System Operations, Part 7.3: Outage Management
- Market Manual 7: System Operations, Part 7.4: IESO-Controlled Grid Operating Policies

The following *market manuals* relating to Market and System Operation will be deleted under MRP:

- Market Manual 4: Market Operations, Part 4.6: Real-Time Generation Cost Guarantee Program
- Market Manual 9: Day-Ahead Commitment Process, Part 9.0: DACP Overview
- Market Manual 9: Day-Ahead Commitment Process, Part 9.2: Submitting Operational and Market Data for the DACP
- Market Manual 9: Day-Ahead Commitment Process, Part 9.3: Operation of the DACP
- Market Manual 9: Day-Ahead Commitment Process, Part 9.4: Real-time Integration of the DACP

Market Manual 4: Market Operations

Summary of Changes to Market Manual Part 4.1: Submission of Data in the Physical Markets - July 2023

The existing *market manual* Part 4.2 has been restructured under MRP, renumbered to Part 4.1, and renamed from “Submission of Data in the Real-time Markets” to “Submission of Dispatch Data in the Physical Markets”.

The content has been updated to describe the obligations and requirements for dispatch data parameters and dispatch data submission processes.

Market Manual Section	Type of Change	Description
1. Introduction	Modified	This section contains the purpose of the <i>market manual</i> and <i>IESO</i> contact information.
2. Dispatch Data to Supply and Consumer Energy	Modified	Header section for <i>energy bids</i> and <i>offers</i> , equivalent to section 2.1 of Market Manual 4.2.

Market Manual Section	Type of Change	Description
2.1. Dispatchable Generation and Dispatchable Electricity Storage Resource	New	This section contains an overview of <i>dispatch data</i> for <i>energy</i> submitted by <i>dispatchable generation</i> and <i>dispatchable electricity storage resources</i> .
2.1.1. Price-Quantity Pairs	Modified	This section describes the additional submission requirements and information for specific <i>resource</i> types, for during planned testing, and the revision restrictions applicable to <i>GOG-eligible resources</i> . This section originated from section 2.4.1 of Market Manual 4.2 and section 5.1.2.3 of Market Manual 9.2.
2.1.2. Start-Up Offer	Modified	This section sets out the default value for the parameter, the process pertaining to the submission of the <i>start-up offer</i> for <i>pseudo-units</i> , and includes additional instructions for submission in <i>day-ahead market</i> and submission of escalating <i>start-up offers</i> . This section originated from section 5.1.2.1 of Market Manual 9.2 and incorporated content from section 5.1.3.6 of the same manual.
2.1.3. Speed No-Load Offer	Modified	This section sets out the default value for the parameter and the process pertaining to the submission of the <i>speed no-load offer</i> for <i>pseudo-units</i> . This section originated from section 5.1.2.2 of Market Manual 9.2.
2.1.4. Energy Ramp Rate	Modified	This section sets out additional submission requirements pertaining to the submission of the <i>energy ramp rates</i> for <i>pseudo-units</i> and additional instructions on the alignment with the <i>price-quantity pairs</i> . This section originated from section 2.4.1 of Market Manual 4.2.
2.1.5. Minimum Hourly Output	New	This section sets out the default for the parameter.
2.1.6. Hourly Must-Run	New	This section sets out the default for the parameter.
2.1.7. Variable Generation Forecast Quantity	New	This section sets out the effect of a submission to the <i>registered market participant</i> and the default for the parameter.
2.1.8. Linked Forebays	New	This section sets out additional submission requirements for establishing <i>linked forebays</i> .
2.1.9. Forbidden Regions	Modified	This section contains additional instructions on the <i>forbidden region</i> identifier used in the

Market Manual Section	Type of Change	Description
		submission. A reference to <i>forbidden regions</i> is contained in section 2.4.1 of Market Manual 4.2.
2.1.10. Maximum Daily Energy Limit	Modified	This section sets out the process pertaining to the submission of the <i>maximum daily energy limit</i> for <i>forebays</i> and <i>pseudo-units</i> and the default for the parameter, and includes additional requirements for submitting reason codes for the <i>maximum daily energy limit</i> . This section originated from section 2.4.1 of Market Manual 4.2.
2.1.11. Minimum Daily Energy Limit	New	This section sets out the process pertaining to the submission of the <i>minimum daily energy limit</i> for <i>forebays</i> and the default value for the parameter, and includes additional requirements for revisions during the <i>dispatch day</i> .
2.1.12. Maximum Number of Starts Per Day (MNSPD)	Modified	This section sets out the default for the parameter and the process pertaining to the submission of the MNSPD for <i>pseudo-units</i> , and includes additional requirements for the submission. This section originated from section 5.2.4 of Market Manual 9.2.
2.1.13. Minimum Loading Point	Modified	This section sets out the process pertaining to the submission of the <i>minimum loading point</i> for <i>pseudo-units</i> , and includes additional instructions for the submission including revisions to the <i>minimum loading point</i> . This section originated from section 5.2.1 of Market Manual 9.2 and has been updated to reflect the removal of the <i>minimum loading point</i> limit in the submission.
2.1.14. Minimum Generation Block Run-Time	Modified	This section sets out additional requirements for submitting the <i>minimum generation block run-time</i> for <i>pseudo-units</i> . This section originated from section 5.2.2 of Market Manual 9.2 and has been updated to reflect the removal of the <i>minimum generation block run-time</i> limit in the submission.
2.1.15. Minimum Generation Block Down Time	Modified	This section sets out additional requirements for submitting the <i>minimum generation block down-time</i> for <i>pseudo-units</i> . This section originated from section 5.2.3 of Market Manual 9.2.

Market Manual Section	Type of Change	Description
2.1.16. Single Cycle Mode	Modified	This section sets out additional requirements for submitting the single cycle mode for <i>pseudo-units</i> . This section originated from section 5.2.5.1 of Market Manual 9.2.
2.1.17. Lead Time	New	This section sets out the process pertaining to the submission of the <i>lead time</i> for <i>pseudo-units</i> .
2.1.18. Ramp Up Energy to MLP	New	This section sets out additional requirements for submitting the <i>ramp up energy to minimum loading point</i> , including for <i>pseudo-units</i> .
2.1.19. Thermal State	New	This section sets out additional requirements for submitting the <i>thermal state</i> for <i>pseudo-units</i> .
2.2. Computed Pseudo-Unit Technical Parameters	Modified	This section contains an overview of computed <i>pseudo-units dispatch data</i> . This section originated from section 5.2.5 of Market Manual 9.2.
2.2.1. Single Cycle Mode for a Combustion Turbine of a Pseudo-Unit	Modified	This section contains additional information on the <i>single cycle mode</i> selection, including the effect, applicability, and computation of <i>single cycle mode</i> for the <i>pseudo-units</i> . This section originated from section 5.2.5.1 of Market Manual 9.2.
2.2.2. Computed Pseudo-Unit Technical Parameters	Modified	This section describes the computations for <i>pseudo-units dispatch data</i> . This section originated from section 5.2.5.2 of Market Manual 9.2 and has been updated to reflect the submission of daily <i>dispatch data</i> under MRP.
2.2.3. Computed Steam Turbine Portion of Pseudo-unit Operating Regions	Modified	This section describes the computations for steam turbine <i>generation resource</i> operating region data. This section originated from section 5.2.5.3 of Market Manual 9.2 and has been updated to reflect the submission of daily <i>dispatch data</i> under MRP.
2.3. Non-Dispatchable Generation	Modified	This section contains the additional instructions for non- <i>dispatchable variable generation resources</i> . This section originated from section 2.2 of Market Manual 4.2.
2.4. Dispatchable Loads, Dispatchable Electricity Storage Resources, and Hourly Demand Response Resources	New	This section contains an overview for <i>dispatch data</i> submitted for <i>dispatchable loads, dispatchable electricity storage resources, and hourly demand response resources</i> .

Market Manual Section	Type of Change	Description
2.4.1. Price-Quantity Pairs	Modified	This section contains additional requirements for changing the status of a <i>dispatchable load</i> , submitting <i>operating reserve</i> , and requirements pertaining to the <i>bid</i> price threshold for <i>demand response resources</i> . This section originated from section 2.4.1 of Market Manual 4.2.
2.4.2. Energy Ramp Rate	Modified	This section contains additional requirements for submitting the <i>energy</i> ramp rate for <i>hourly demand response resources</i> . This section originated from section 2.4.1 of Market Manual 4.2.
2.5. Price Responsive Loads	New	This section contains additional requirements for <i>price responsive loads bids</i> after <i>day-ahead market expiration</i> .
3. Dispatch Data to Supply Operating Reserve	Modified	Header section sets out general requirements for submitting <i>operating reserve offers</i> , equivalent to content in section 2.1 of Market Manual 4.2.
3.1. Dispatchable Generation and Dispatchable Load Resource	New	This section sets out additional requirements for submitting <i>operating reserve offers</i> for <i>pseudo-units</i> .
3.1.1. Supply Operating Reserve Price-Quantity Pairs	Modified	This section contains additional requirements for submitting <i>operating reserve offers</i> for <i>GOG-eligible resources</i> . This section originated from section 2.4.2 of Market Manual 4.2.
3.1.2. Operating Reserve Class	New	This section sets out the <i>operating reserve</i> classes that can be selected.
3.1.3. Operating Reserve Ramp Rate	New	This section sets out additional requirements for submitting the <i>operating reserve</i> ramp rate.
3.1.4. Reserve Loading Point	New	This section sets out additional requirements for submitting the <i>reserve loading point</i> for <i>dispatchable loads</i> , includes additional information on the effect of such submissions.
3.2 Operating Reserve Offers for Electricity Storage Resources	Modified	This section sets out the duration requirements for <i>electricity storage resources</i> for the provision of <i>operating reserve</i> . This section originated from section 3.2 of Market Manual 4.2.
4. Dispatch Data for Boundary Entity Resources	Modified	This section sets out an overview of <i>physical transactions</i> that conducted on <i>boundary entity resources</i> . This section originated from section 2.5 of Market Manual 4.2.

Market Manual Section	Type of Change	Description
4.1. Energy Import, Energy Export, and Supply Operating Reserve Transactions	New	This section contains an overview of <i>dispatch data</i> for <i>boundary entity resources</i> .
4.1.1. Boundary Entity Resource and Tie Point ID	Modified	This section sets out additional requirements for submitting <i>dispatch data</i> on <i>boundary entity resources</i> , including in respect of the <i>boundary entity resource</i> type, <i>operating reserve</i> , capacity imports, and imports via the Beauharnois <i>boundary entity</i> . This section originated from section 2.5.1 of Market Manual 4.2.
4.1.2. Interjurisdictional Capacity Transactions	New	This section sets out additional requirements for interjurisdictional capacity transactions.
4.1.3. e-Tags	Modified	This section sets out requirements for submitting e-Tags. This section originated from section 2.5.3 of Market Manual 4.2.
4.1.4. Operating Reserve Class	New	This section sets out the classes of <i>operating reserve</i> that may be submitted for <i>boundary entity resources</i> .
4.2 Linked Wheeling Through Transactions	Modified	This section contains an overview of <i>linked wheeling through transactions</i> . This section originated from section 2.5.4 of Market Manual 4.2.
4.2.1. Linked Wheeling Through Transactions as Independent Import and Export	Modified	This section sets out additional requirements for submitting <i>linked wheeling through transactions</i> as independent transactions. The content originated from section 2.5.4 of Market Manual 4.2.
4.2.2. Linked Wheeling Through Transactions as Linked Import and Export	Modified	This section sets out additional requirements for submitting <i>linked wheeling through transactions</i> as linked transactions. The content originated from section 2.5.4 of Market Manual 4.2.
4.3. Capacity Exports	Modified	This section sets out the eligibility requirements for <i>capacity exports</i> .
4.3.1. Dispatch Data Requirements for Scheduling a Called Capacity Export	Modified	This section sets out the <i>dispatch data</i> requirements for a <i>called capacity export</i> . This section originated from section 2.6.1 of Market Manual 4.2.
4.3.2. Changes/Updates to Called Capacity Exports or Capacity Resources	Modified	This section sets out the communication requirements when conducting <i>called capacity exports</i> . This section originated from section 2.6.2 of Market Manual 4.2.
4.4. Validation of Bids and Offers for Imports and Exports	Modified	This section was updated with references to the applicable <i>market rules</i> . This section

Market Manual Section	Type of Change	Description
		originated from section 2.5.5 of Market Manual 4.2.
4.4.1. Requirements for Bids and Offers	Modified	This section sets out the process for validating <i>dispatch data</i> for <i>boundary entity resources</i> . The content originated from section 2.5.5 of Market Manual 4.2.
4.4.2. Validation Process	Modified	This section sets out the timing for validating <i>dispatch data</i> for <i>boundary entity resources</i> and the outcome from the validation. The content originated from section 2.5.5 of Market Manual 4.2.
5. Dispatch Data for Virtual Transactions	New	This section contains additional requirements for submitting <i>dispatch data</i> for <i>virtual zonal resources</i> , including details of the calculation used in validating <i>dispatch data</i> for prudentials.
6. Standing Dispatch Data	Modified	This section contains an overview of standing <i>dispatch data</i> . This section originated from section 2.4.5 of Market Manual 4.2.
6.1. Submitting Standing Dispatch Data	New	This section contains additional requirements for submitting standing <i>dispatch data</i> .
6.1.1. Procedure for Submitting and Revising Standing Dispatch Data	New	This section describes the process for the submission of <i>standing dispatch data</i> .
7. Submitting Dispatch Data	New	This section contains an overview on the process for submitting <i>dispatch data</i> , and the submission timelines for daily and hourly <i>dispatch data</i> .
7.1. Dispatch Data Submissions by Resource Type	Modified	This section sets out the <i>dispatch data</i> submitted by each <i>resource</i> type, and the applicable timelines. This section originated from section 2.3 of Market Manual 4.2.
7.2. Dispatch Data Submissions or Revisions for the Day-Ahead Market	New	This section sets out additional requirements for submitting <i>dispatch data</i> into the <i>day-ahead market</i> .
7.2.1. Dispatch Data Submission or Revisions During the Day-Ahead Market Submission Window	Modified	This section outlines the process for submitting <i>dispatch data</i> during the <i>day-ahead market submission window</i> . This section originated from section 5.1.9 of Market Manual 9.2.
7.2.2. Dispatch Data Submission or Revisions During the Day-Ahead Market Restricted Window	Modified	This section sets out additional requirements for submitting <i>dispatch data</i> during the <i>day-ahead market restricted window</i> . This

Market Manual Section	Type of Change	Description
		section originated from section 5.5 of Market Manual 9.2.
7.3. Dispatch Data Submissions or Revisions for the Real-Time Market	New	This section sets out additional requirements for submitting <i>dispatch data</i> during the <i>real-time market</i> .
7.3.1. Hourly Dispatch Data Submissions or Revisions during the Unrestricted Window	Modified	This section sets out additional requirements and outlines the process for <i>registered market participants</i> for <i>GOG-eligible resources</i> to submit <i>dispatch data</i> during the <i>real-time market unrestricted window</i> . This section originated from section 2.3.3 of Market Manual 4.2.
7.3.2. Hourly Dispatch Data Submissions or Revisions during the Real-Time Market Mandatory Window	Modified	This section sets out additional requirements and outlines the process for <i>registered market participants</i> for <i>hourly demand response resources</i> to submit <i>dispatch data</i> during the <i>real-time market mandatory window</i> . This section originated from section 2.3.4 of Market Manual 4.2.
7.3.3. Daily Dispatch Data Submissions or Revisions during the Real-Time Market Restricted Window	New	This section sets out additional requirements and outlines the process for <i>registered market participants</i> to submit daily <i>dispatch data</i> during the <i>real-time market restricted window</i> .
7.4 Alternate Means of Submitting or Revising Dispatch Data during a Tool Failure	Modified	This section describes the <i>IESO's</i> process for receiving <i>dispatch data</i> during a tool failure. The content originated from Appendix C.1 of Market Manual 4.2 and section 5.5 of Market Manual 9.2.
7.4.1. Overriding Concerns/Principles for a Tool Failure	Modified	This section contains the overriding concerns and principles for a tool failure. This section originated from Appendix C.2 of Market Manual 4.2.
7.4.2. IESO Actions During Tool Failure	Modified	This section contains additional information on the actions that may be taken by the <i>IESO</i> during a tool failure. This section originated from Appendix C.4 of Market Manual 4.2.
7.4.3. Dispatch Data Submissions and Revisions by Telephone	Modified	This section outlines the process and sets out additional requirements for submitting <i>dispatch data</i> via telephone during a tool failure. The content originated from Appendix C.3 of Market Manual 4.2 and section 5.5.3 of Market Manual 9.2.

Market Manual Section	Type of Change	Description
7.4.4. Dispatch Data Submissions and Revisions by Email	Modified	This section outlines the process and sets out additional requirements for submitting <i>dispatch data</i> via e-mail during a tool failure. The content originated from Appendix C.3.1 of Market Manual 4.2 and section 5.5.3 of Market Manual 9.2.
7.5. Availability Declaration Envelope	Modified	This section was updated with reference to the applicable <i>market rules</i> . This section originated from section 4.5.5 of Market Manual 9.4.
7.5.1. Enforcement of the Availability Declaration Envelope (ADE)	Modified	This section contains additional requirements for submitting <i>dispatch data</i> that expands the <i>availability declaration envelope</i> and the enforcement of the <i>availability declaration envelope</i> . This section originated from section 4.5.5.2 of Market Manual 9.4.
7.5.2. Dispatch Data Submissions or Revisions that Expand the Availability Declaration Envelope (ADE)	New	This section outlines the process and additional requirements for submitting <i>dispatch data</i> that expand the <i>availability declaration envelope</i> .
8. Accessing Submitted Dispatch Data	New	Header section for accessing submitted <i>dispatch data</i> .
8.1. Dispatch Data Reports	New	This section contains a list of the reports related to <i>dispatch data</i> .
8.2. Retrieval of Submitted Dispatch Data	Modified	This section sets out the process for retrieving <i>dispatch data</i> submitted to the <i>IESO</i> . This section originated from section 5.1.6 of Market Manual 9.4.
9. Replacement Energy Offers Program	Modified	This section sets out additional requirements relating to the replacement <i>energy offer</i> program. This section originated from section 2.3.2 of Market Manual 4.2.
10. Requests for Segregated Mode of Operation	Modified	This section sets out additional requirements relating to <i>segregated mode of operation</i> requests. This section originated from section 2.7 of Market Manual 4.2.
10.1. Segregated Mode of Operation Inadvertent Accounting	Modified	This section sets out additional requirements relating to inadvertent accounting. This section originated from section 2.7.1 of Market Manual 4.2.
11. Submitting Regulation Offers	Modified	This section outlines the process and sets out additional requirements for submitting <i>regulation offers</i> . This section originated from section 5.4 of Market Manual 9.2.

Market Manual Section	Type of Change	Description
Appendix A: Content of Dispatch Data	Modified	This section contains additional information on the requirements that <i>registered market participants</i> must follow when submitting <i>dispatch data</i> . This section originated from Appendix A of Market Manual 4.2.
Appendix B: Dispatch Data Submission and Revision Reasons and Reason Codes	New	This section sets out additional requirements for revising <i>dispatch data</i> , including with respect the submission of reason codes. Part of the content in the appendix related to short notice submissions originated from Appendix B of Market Manual 4.2.
Appendix C: Boundary Entity Resources	Modified	This section contains additional information related to the submission of <i>dispatch data</i> on <i>boundary entity resources</i> . This section originated from Appendix E of Market Manual 4.2.
Appendix D: Ontario Specific e-Tag Requirements	Modified	This section sets out the requirements for the submission of e-Tags. This section originated from Appendix F of Market Manual 4.2.
Appendix E: Virtual Transaction Zonal Trading Entity Resource	New	This section contains additional information related to the submission of <i>dispatch data</i> on <i>virtual zonal resources</i> .
Appendix F: Submission of Dispatch Data in the IESO Tools	New	This section contains additional information on how the <i>IESO</i> tool processes <i>dispatch data</i> submissions and functions to support the submission process.

Summary of Changes to Market Manual Part 4.1: Submission of Data in the Physical Markets – March 2024

Market Manual Section	Type of Change	Description
2.1	Modified	Replaced storage ‘intending to inject’ with ‘registered to inject’ to be consistent with other <i>market manuals</i> and the <i>market rules</i> , with the equivalent edit being made on the withdraw side. The change was made in response to internal feedback.
2.1.1.2	Modified	Included storage to the ability to participate in the <i>operating reserve market</i> in cases where a planned test is instantly recallable. This reflects what is permitted under the current baseline.

Market Manual Section	Type of Change	Description
		The change was made in response to internal feedback.
2.1.2 Start-Up Offer	Modified	Updated information regarding escalating <i>start-up offer</i> submissions over midnight. The change was made in response to stakeholder feedback (ID#3 - Atura)
2.1.4 Energy Ramp Rate	Modified	Missing reference added. The change was made in response to stakeholder feedback (ID#55 - OPG)
2.1.10 Maximum Daily Energy Limit	New	Updated section to include direction on how <i>electricity storage resources</i> can reflect their state of charge constraints in the <i>day-ahead market calculation engine</i> . The change was made in response to internal feedback.
2.1.13.1 Minimum Loading Point after Day-Ahead Market Submission	Modified	Updated title and added specificity to timing. The change was made in response to internal feedback.
2.1.18.1 Energy per Ramp Hour	Modified	Added clarification. The change was made in response to stakeholder feedback (ID#58 - OPG).
2.2 Computed Pseudo-Unit Technical Parameters	Modified	Added Daily Energy Ramp Rate to Table 2-2. The change was made in response to internal feedback.
2.4	Modified	Replaced ' <i>electricity storage resources</i> intending to withdraw' with ' <i>electricity storage resources</i> proposing to withdraw' for consistency with the <i>market rules</i> . The change was made in response to internal feedback.
2.4.1 Price-Quantity Pairs	Modified	Clarified options for a <i>dispatchable load</i> to present themselves as a <i>non-dispatchable load</i> . The change was made in response to stakeholder feedback (ID#19 - OPG)
3.1.2	Modified	Corrected references to the defined terms.

Market Manual Section	Type of Change	Description
		The change was made in response to internal feedback.
3.1.4	Modified	<p>Modified the following:</p> <ul style="list-style-type: none"> • Included <i>electricity storage resources</i> registered to withdraw in the note that the <i>reserve loading point</i> is not applicable. • Corrected references to the defined terms. • Added storage capacity along with generation capacity as the submission applies to <i>electricity storage resources</i> registered to inject. • Added example in the footnote of an <i>operating reserve</i> schedule that is prorated based on the <i>energy</i> schedule. <p>These changes were made in response to internal feedback.</p>
4.1.4	Modified	<p>Corrected references to the defined terms.</p> <p>The change was made in response to internal feedback.</p>
4.3.1	Editorial	<p>Corrected a cross reference and typographical error.</p> <p>The change was made in response to stakeholder feedback (ID#66 - OPG)</p>
6.1	Modified	<p>Included the withdrawals from self-scheduling storage in the <i>day-ahead market</i> only data for additional clarity.</p> <p>The change was made in response to internal feedback.</p>
7.1 Dispatch Data Submissions by Resource Type	Modified	<p>Additional details provided throughout table 7-2.</p> <p>The change was made in response to stakeholder feedback (ID#68 - OPG)</p>
7.2.2 Dispatch Data Submission or Revisions During the Day-Ahead Market Restricted Window	Modified	<p>Added details for reason code for clarity.</p> <p>The change was made in response to stakeholder feedback.</p>

Market Manual Section	Type of Change	Description
8.1 Dispatch Data Reports	Modified	<p>Modified the publication timing of the Dispatch Data report for Day-Ahead Scheduling Process to be published after <i>DAM</i> completion to account for all updates and revisions to <i>dispatch data</i>.</p> <p>The changes were made in response to internal feedback.</p>
8.1 Dispatch Data Reports Table 8.1	New	<p>Day-Ahead Operating Reserve Bid Offer Report:</p> <p>New <i>market participant</i> confidential report added to report the <i>operating reserve offer</i> data as used by the <i>day-ahead market calculation engine</i>.</p> <p>The changes were made in response to internal feedback.</p>
8.1 Dispatch Data Reports	Modified	<p>Dispatch Data Report for the Real-time Scheduling Process as listed in Table 8-1 is being split into two reports:</p> <ol style="list-style-type: none"> 1. Dispatch Data Report for Real Time Scheduling Process for Resources: contains <i>dispatch data</i> as used by the <i>real-time calculation engine</i> for all <i>resources</i>. 2. Dispatch Data Report for Real Time Scheduling Process for Forebays: contains <i>dispatch data</i> for <i>forebays</i> as used by the <i>real-time calculation engine</i>. <p>The changes were made in response to internal feedback.</p>
8.1 Dispatch Data Reports	Editorial	<p>In Table 8-1: report names to be consistent with updated report names.</p> <p>Included electricity storage where applicable.</p> <p>The changes were made in response to internal feedback.</p>
11 Submitting Regulation Offers	Modified	<p>Submission deadline for <i>regulation offers</i> revised from 08:00 EPT to 09:00 EPT. Accordingly, the time that <i>IESO</i> scheduling of <i>regulation</i> will be completed by has been updated from 9:00 EPT to 10:00 EPT.</p>

Market Manual Section	Type of Change	Description
		The change was made in response to stakeholder feedback (ID#7 - Evolgen)
		Included electricity storage where applicable. The changes were made in response to internal feedback.
Appendix B.3 Dispatch Data Submissions or Revisions the Expand the Availability Declaration Envelope	Modified	Clarified details on resubmitting <i>dispatch data</i> after <i>IESO</i> rejection of resubmission request. The change was made in response to stakeholder feedback (ID#78 - OPG)
Appendix B.4	Modified	Updated to provide clarity on when the <i>IESO</i> will approve revisions within the <i>mandatory window</i> for <i>electricity storage resources</i> . Updated to correct cross references to storage section 21 of chapter 7. The changes were made in response to internal feedback.
Appendix B.7	Modified	Included SOC as an example of the text that should be added as a reason code for a revision to <i>dispatch data</i> . The changes were made in response to internal feedback.
Appendix F.7 Revision Restrictions for GOG-eligible Resources	Modified	Clarified stipulation on <i>OR offer</i> price increases during the first 30 minutes of the hour. The change was made in response to stakeholder feedback (ID#76 - OPG)
List of Acronyms	Modified	Updated the list of acronyms. The change was made in response to stakeholder feedback (ID#79 - OPG)

Summary of Changes to Market Manual Part 4.2: Operation of the Day-Ahead Market - July 2023

The existing *market manual* Part 9.3 has been restructured under MRP, renumbered to Part 4.2, and renamed from “Operation of the DACP” to “Operations of the Day-Ahead Market”.

The content has been updated to describes the timing and inputs into the day-ahead market as well as day-ahead market results and outcomes.

Market Manual Section	Type of Change	Description
N/A	New	This <i>market manual</i> outlines the timing, inputs, process and results of the <i>day-ahead market</i> .
1. Introduction	New	This section contains the purpose of the <i>market manual</i> and <i>IESO</i> contact information.
2. Operation of the Day-Ahead Market	New	This section describes the timing of <i>IESO</i> and <i>market participant</i> activities related to the <i>day-ahead market</i> process, and initializing conditions of the <i>day-ahead market calculation engine</i> .
3. Day-Ahead Market Data Inputs	New	This section describes <i>IESO</i> and <i>market participant</i> inputs into the <i>day-ahead market calculation engine</i> .
4. Day-Ahead Market Scheduling Process	New	This section describes the validation process used by the <i>IESO</i> to establish <i>day-ahead market</i> results. It also describes the criteria and process to rerun or delay the <i>day-ahead market calculation engine</i> , or declare a failure of the <i>day-ahead market</i> .
5. Day-Ahead Reliability Commitments for GOG-Eligible Resources	New	This section describes the principles and process used by the <i>IESO</i> to establish day-ahead <i>reliability</i> commitments.
6. Results from the Day-Ahead Market	New	This section describes the scheduling and pricing results from the <i>day-ahead market</i> . It also describes <i>day-ahead operational commitments</i> and constraint coding for <i>GOG-eligible resources</i> .
7. Publishing and Issuing Day-Ahead Market Results	New	This section describes the public and <i>market participant</i> confidential reports produced as part of the <i>day-ahead market</i> process. This includes reports that will provide <i>market participants</i> to inform participation in the <i>day-ahead market</i> as well as the scheduling and pricing outcomes. This section also describes the advisory notices and standby notices for <i>hourly demand response resources</i> related to the <i>day-ahead market</i> .
8. Decommitment and Withdrawal of Day-Ahead Operational Commitments	New	This section describes the process and sets the additional requirements for <i>market participants</i> to withdraw a <i>day-ahead operational commitment</i> , and for the <i>IESO</i>

Market Manual Section	Type of Change	Description
		to cancel a <i>day-ahead operational commitment</i> .
9. Day-Ahead Market Remediation	New	This section sets out additional requirements relating to market remediation for the <i>day-ahead market</i> . It also describes the actions taken by the <i>IESO</i> in the event that market remediation is required.
Appendix A: Day-Ahead Market Calculation Engine	New	This section provides an overview of the <i>day-ahead market calculation engine</i> .
Appendix B: Detailed IHO Calculation	New	This section describes the process to determine the initial hour of operation (IHO) that is used by the <i>day-ahead market calculation engine</i> , which is used to facilitate the scheduling of <i>resources</i> over midnight.
Appendix C: Constraint Violation Penalty Curve	New	This section describes the penalty functions for the violation of constraints in the <i>day-ahead market calculation engine</i> . It lists the penalty functions used in the scheduling and pricing results produced by the <i>day-ahead market calculation engine</i> .

Summary of Changes to Market Manual Part 4.2: Operation of the Day-Ahead Market – March 2024

Market Manual Section	Type of Change	Description
Throughout	Editorial	<p>Minor wording improvements for clarity and corrections to defined terms references.</p> <p>Replaced references to “advisory notice” with references to “DAM notification,” “administrative pricing notification,” or “dispatch scheduling error notification,” as applicable.</p> <p>The changes were made in response to internal feedback.</p>
2.2 Day-Ahead Market Process Timeline	Modified	<p>Submission deadline for <i>regulation offers</i> revised from 08:00 EPT to 09:00 EPT.</p> <p>The change was made in response to stakeholder feedback (ID#7 - Evolgen)</p>
2.3.3.1	Modified	Removing italics from energy ramp rate which is not a defined term.

Market Manual Section	Type of Change	Description
		The change was made in response to internal feedback.
2.3.3 Treatment of MGBRT over Midnight	Modified	Corrected <i>market rule</i> reference to Ch.7 s 10.3.4 Corrected Table 2-1 to reflect that a <i>start-up offer</i> will be considered when there is no constraint in HE 24 of Day 0. The changes were made in response to internal feedback.
3.2.5	Modified	Included <i>electricity storage resources</i> where applicable. The changes were made in response to internal feedback.
6.3.1 GOG-Eligible Resource Constraints for Combined Cycle Plants	Modified	Corrected that combustion turbines associated with steam turbines must be committed for steam turbine constraint logic to apply. The change was made in response to internal feedback.
7 Publishing and Issuing Day-Ahead Market Results	Modified	The following changes to section 7 were made in response to internal review.
7.1 Day-Ahead Market Reports	Modified	Updated Table 7-1 and Table 7-2 for: <ul style="list-style-type: none"> report names to be consistent with updated report names
7.1 Day-Ahead Market Reports Table 7-1	Modified	Corrected the cross reference to MM 7.2 under the Adequacy Reports. Section 3.1 also refers to the Day 2-34 Adequacy Report which is beyond day-ahead. Section 3.1.1 refers specifically to the Adequacy Report pertinent to the <i>day-ahead market</i> .
7.1 Day-Ahead Market Reports Table 7-1	Modified	Day-Ahead Area Reserve Constraints Report: Report description modified to include that the report will typically be <i>published</i> daily at approximately 13:30 EPT. Incorrect <i>market rule</i> reference removed.
7.1 Day-Ahead Market Reports Table 7-1	Modified	Day-Ahead Intertie Scheduling Limits Report: Report description modified to include that report will typically be <i>published</i> daily at approximately 13:30 EPT.

Market Manual Section	Type of Change	Description
7.1 Day-Ahead Market Reports Table 7-1	Modified	Day-Ahead Market Hourly Energy LMP Report: Report description modified to remove <i>energy</i> reference price as it will not be published for each <i>delivery point</i> .
7.1 Day-Ahead Market Reports Table 7-1		Day-Ahead Market Hourly Operating Reserve LMP Report: Report description modified to remove <i>operating reserve</i> reference price as it will not be <i>published</i> for each <i>delivery point</i> .
7.1 Day-Ahead Market Reports Table 7-1	Remove	Yearly Day-Ahead Market Hourly Energy and Operating Reserve Price Report has been removed from MRP scope due to limitations on resulting file sizes.
7.1 Day-Ahead Market Reports Table 7-2	Modified	Dispatch Data Report for Day-Ahead Market Scheduling Process: Report description modified to revise that report will typically be <i>published</i> daily at approximately 13:30 EPT instead of 10:00 EPT. Update to include the <i>availability declaration envelope</i> . Reference has been updated to include the appropriate ADE rule.
7.1 Dispatch Data Reports Table 7.2	New	Day-Ahead Operating Reserve Bid Offer Report: New <i>market participant</i> confidential report added to report the <i>operating reserve offer</i> data as used by the <i>day-ahead market calculation engine</i> .
7.1 Day-Ahead Market Reports Table 7-2	Remove	Day-Ahead Check Source / Availability Declaration Envelope Report has been removed from MRP scope. The <i>availability declaration envelope publication</i> requirement under MR Ch.7 s.4.8.1.7 is now contained in the Dispatch Data Report for Day-Ahead Market Scheduling Process above.
7.1 Day-Ahead Market Reports Table 7-2	Modify	Report name has been updated.

Market Manual Section	Type of Change	Description
9.2 Day-Ahead Market Remediation for Publication Errors	Remove	This section formerly referenced price administration in accordance with MR Ch.7 s.8.4A.2.4, which is already covered by MM 4.2 section 9.1.
Appendix A	Modified	Changes made to section A.2 to integrate <i>self-scheduling electricity storage</i> , which when referring to their withdrawals, are treated similarly to <i>price responsive loads</i> . The changes were made in response to internal feedback.
Appendix B	Modified	Updated Table B-1 to reflect initial status calculation. The change was made in response to internal feedback.
Appendix C.2	Modified	For daily energy limits, deleted reference to <i>real-time calculation engine</i> .

Summary of Changes to Market Manual Part 4.3: Real-Time Scheduling of the Physical Markets - July 2023

The existing *market manual* Part 4.3 has been restructured under MRP and renamed from “Real-time Scheduling of the Physical Markets” to “Operations of the Real-time Markets” to reflect its applicability to scheduling and pricing of the real-time market timeframes.

The content has been updated to describe the timing and inputs into the pre-dispatch process and real-time markets as well as results.

Market Manual Section	Type of Change	Description
1. Introduction	New	This section contains the purpose of the <i>market manual</i> and <i>IESO</i> contact information.
2. The Pre-Dispatch Scheduling Process	New	Information regarding pre-dispatch was previously included in Market Manual 4.2. This section outlines <i>the pre-dispatch process</i> , including its timelines, inputs, optimization, results, and outputs.
3. The Real-Time Scheduling Process	Modified	Sections 3 to 5 from the existing <i>market manual</i> have been reorganized into section 3. This describes the real-time scheduling process, including its timelines, inputs, optimization, results, and outputs.
4. Determining Dispatch Instructions	Modified	This section describes the process of determining various <i>dispatch instructions</i> to be sent to <i>market participants</i> . Moved

Market Manual Section	Type of Change	Description
		existing <i>market manual</i> section 6 to this section 4.
4.1. Dispatchable Generation Resources, Dispatchable Loads and Dispatchable Storage Resources	Modified	Removed redundant <i>market rules</i> material from this section. Added additional information regarding <i>pseudo-unit dispatches</i> .
4.2. Boundary Entity Resources	Modified	Removed redundant <i>market rules</i> material from this section.
4.3. Interchange Scheduling Protocol	Modified	This section describes the different interchange protocols between the <i>IESO</i> and external <i>reliability</i> co-ordinators.
4.3.1. IESO/NYISO Protocol: NY90	Modified	Added detail in the <i>day-ahead market</i> timeline.
4.3.1.1. Curtailed and Failed Interchange Schedules	Modified	Deleted requirements regarding transaction coding, which are included in table 4-1 and 4-2 in section 4.5.
4.3.2 MISO Protocol: MISO Protocol		Editorial changes were made to improve readability.
4.3.3. Hydro-Quebec: Bilateral Capacity Agreements	Deleted	Removed the winter period of the agreement. Reworded summer period to improve readability.
4.4. Pre-Emptive Curtailments	Modified	Editorial changes to improve readability.
4.5.1. Modifying Interchange Schedule	Modified	Deleted former principle 2, 4, 5 and 6 governing the modification of <i>interchange schedules</i> . Added section 4.5.1.1 which sets out requirements for coding adjustments and curtailments to <i>intertie schedules</i> . Streamlined Table 5-2 (previously 6-1).
4.5.2. Methodology for Assigning Failure Codes	Modified	Removed redundant material with table 4-1. Editorial changes were made to improve readability.
4.6.1. Capacity Export Delivery	Modified	Editorial changes were made to improve readability.
4.6.2. Curtailment Provisions		Editorial changes were made to improve readability.
4.7. Capacity Import Scheduling	Modified	Editorial changes were made to improve readability. Reference change.
4.7.1. Capacity Import Call for Generator-Backed Capacity Import Resources		Editorial changes were made to improve readability.
5 Issuing Dispatch Instructions and Operational Notices		This section describes the process of issuing <i>dispatch instructions</i> to <i>market participants</i> . Moved existing <i>market manual</i> section 7 to this section 5.

Market Manual Section	Type of Change	Description
5.1. Dispatchable Generation Resources, Dispatchable Loads or Dispatchable Storage Resources	Modified	Editorial changes were made to improve readability.
5.2. Hourly Demand Response Resources	Modified	Sets out additional requirements and the process for issuing activation notices for <i>hourly demand response resources</i> . Removed redundant <i>market rules</i> material from this section. Also removed redundant <i>market manual</i> material from section 5 of the existing Market Manual 4.3.
5.3. Boundary Entities	Modified	Removed the requirement for the linked wheeling <i>interchange schedule</i> cancellation minimum price of -\$50 from step 9 of table 6-4. Editorial changes were made to improve readability.
5.4. Dispatch of Operating Reserve (Operating Reserve Activation)	Modified	Sets out additional requirements for <i>operating reserve</i> activations on <i>pseudo-units</i> and <i>boundary entity resources</i> . Editorial changes were made to improve readability.
5.5. Manual Procurement of Operating Reserve during Forced or Planned Tools Outages	Modified	Editorial changes were made to improve readability.
5.6. Resource Commitment Notices	New	New section setting out the process and additional requirement for notices issued in regards to operational and <i>reliability commitments</i> (e.g., <i>start-up notices</i> , commitment extensions, and de-commitment notices).
5.7. Compliance with Dispatch Instructions	Modified	Editorial changes were made to improve readability.
5.8. Compliance Aggregation	New	Editorial changes were made to improve readability. Moved existing <i>market manual</i> section 10 to this section 5.8.
5.9 Withdraw from Commitment	New	New section on <i>market participant</i> withdrawal from pre-dispatch or <i>day-ahead operational commitments</i> .
5.10. IESO Cancellation of Commitment for Generator Offer Guarantee Eligible Resources	New	New section setting out the circumstances of the IESO cancelling <i>GOG-eligible resources</i> operational commitments for <i>reliability</i> .
5.11 Pre-Dispatch Operational Commitment Cancellation Cost Recovery	New	Sets out additional information on financial consequences of cancelling <i>pre-dispatch operational commitments</i> .

Market Manual Section	Type of Change	Description
6. Publishing and Issuing Pre-dispatch and Real-Time Reports	New	This section describes the public and <i>market participant</i> confidential reports produced as part of the <i>real-time market</i> processes. This includes reports that will provide <i>market participants</i> with information regarding scheduling and pricing outcomes.
7. Real-Time Market Remediation	New	Sets out additional requirements for market remediation in the <i>real-time market</i> .
Appendix A: Constraint Violation Penalty Curves	New	New appendix section providing details on penalty price curves used in the various algorithms of the engine optimization.
Appendix B: Coding of Commitments and Constraints	New	New appendix section providing details on different constraint codes applicable to operational commitments.

Summary of Changes to Market Manual Part 4.3: Real-Time Scheduling of the Physical Markets – March 2024

Market Manual Section	Type of Change	Description
Throughout	Editorial	<p>The following changes have been made throughout the <i>market manual</i>:</p> <ul style="list-style-type: none"> • A <i>registered market participant</i> is a <i>market participant</i> that is registered to submit <i>dispatch data</i>. A number of occurrences of <i>market participant</i> have been changed to <i>registered market participant</i> in cases where submission of <i>dispatch data</i> is required; • Corrections to other defined terms; • Minor wording changes to correct typographical errors; • Minor wording improvements for clarity; and; • Updates to <i>market rule</i> cross-references. <p>The changes were made in response to internal feedback.</p>
2.3.3.2 Advancing Day-Ahead Operational Commitments	Modified	<p>Corrected description of evaluation of <i>start-up offers</i> during the advancement period.</p> <p>The changes were made in response to internal feedback.</p>

Market Manual Section	Type of Change	Description
2.5.1.2 Scheduling Discrepancies due to Inaccurate Initial Conditions	Modified	<p>Added "inaccurate" to section title to explicitly indicate that sub-section deals with cases of inaccurate initial conditions. Added reference to MR Ch. 7 ss.3.3.7.4.</p> <p>The changes were made in response to internal feedback.</p>
2.5.1.3 Hydroelectric Generation Resources with Linked Forebays	Modified	<p>Added cascade management adjustments as this differs from incorrectly reported output of upstream <i>resources</i>. Added reference to MR Ch. 7 s.3.3.7.4.</p> <p>Corrected references to defined term <i>linked forebays</i>.</p> <p>The changes were made in response to internal feedback.</p>
2.5.1.4 Scheduling Discrepancies due to Thermal States	Modified	<p>Added revising <i>thermal states</i> for <i>pseudo-units</i>.</p> <p>This change was identified when developing the <i>IESO</i> response to stakeholder feedback [ID#5, Atura].</p> <p>Added reference to MR Ch. 7 ss.3.3.7.4.</p>
2.5.1.5 Scheduling Discrepancies due to Turnaround Time	Modified	<p>Added scenario where pre-dispatch commitments do not respect <i>minimum generation block down-time</i>.</p> <p>The change was made when developing a response to stakeholder feedback [ID #81, OPG]</p> <p>Corrected the reliability constraint code referenced in section 2.5.1.5. The IESO will apply the "PDRCMT" code, not the "REL" code.</p> <p>This change was made in response to internal feedback.</p>
2.5.1.6 GOG-Eligible Resource Scheduling after Isolated State	Modified	<p>Changes made to section based on change in pre-dispatch logic. Previously, the logic would allow a <i>resource</i> to be scheduled to its <i>minimum loading point</i> once its warm ramp hours to its <i>minimum loading point</i> duration had elapsed following a grid</p>

Market Manual Section	Type of Change	Description
		<p>isolated state or <i>outage</i>. Given the potential for <i>resources</i> returning in a cold state, this could have resulted in infeasible schedules. As a result, the logic has been changed to use the <i>resource's cold ramp hours</i> to its <i>minimum loading point</i> duration. Added reference to MR Ch. 7 ss.3.3.7.4.</p> <p>Corrected references to defined term <i>ramp hours to minimum loading point</i>.</p> <p>The changes were made in response to stakeholder feedback and internal review.</p>
2.5.1.9 Increase in Fuel Availability	New	<p>Added section to enable a <i>market participant</i> to increase its <i>maximum daily energy limit</i> when additional fuel becomes available.</p> <p>The changes were made in response to internal feedback.</p>
2.5.3.1 GOG-Eligible Resource Constraints for Combined Cycle Plants	Modified	<p>Added requirement that a steam turbine that is not using the <i>pseudo-unit</i> mode must be committed independently.</p> <p>Corrected wording to indicate that a steam turbine constraint is based on the number of combustion turbines that are committed rather than scheduled.</p> <p>The changes were made in response to internal feedback.</p>
4.5.1.1 Reason Code Application for Interchange Scheduled Adjustment	Modified	<p>Changed Column Heading for Table 4-1 to change real-time failure exempt to both DAM & RT Interchange failure exempt.</p> <p>The changes were made in response to internal feedback.</p>
5.3	Modified	<p><i>Boundary entity resources</i> are created by the <i>IESO</i> for <i>energy traders</i> to use. The revised language is intended to better reflect this.</p> <p>The change was made in response to internal feedback.</p>
5.6.2 Procedural Steps for Start-up Notices for GOG-Eligible Resources	Modified	<p>Modified Table 5-5 to separate cases where the <i>market participant</i> rejects the <i>start-up notice</i> from cases where the <i>market</i></p>

Market Manual Section	Type of Change	Description
		<p><i>participant</i> accepts the <i>start-up notice</i> and later determines that its <i>resource</i> cannot comply.</p> <p>The changes were made in response to internal feedback.</p>
<p>6.1 Pre-Dispatch Reports</p> <p>Tables 6-1 and 6-2</p>	<p>Modified</p>	<p>Updated Table 6-1 and 6-2 for:</p> <ul style="list-style-type: none"> • report names to be consistent with updated report names. <p>The changes were made in response to internal feedback.</p>
<p>6.2 Real-Time Reports</p> <p>Tables 6-3 and 6-4</p>	<p>Modified</p>	<p>Updated Table 6-3 and Table 6-4 for:</p> <ul style="list-style-type: none"> • report names consistent with updated report names • inclusion of <i>electricity storage resources</i> in the Generator Output and Capability report <p>The changes were made in response to internal feedback.</p>
<p>6.2 Real-Time Reports</p> <p>Table 6-3</p>	<p>Modified</p>	<p>Real-Time 5-min Energy LMP Report</p> <ul style="list-style-type: none"> • Report description modified to remove <i>energy</i> reference price as it will not be <i>published</i> for each <i>delivery point</i>. <p>The change was made in response to internal feedback.</p>
<p>6.2 Real-Time Reports</p> <p>Table 6-3</p>	<p>Remove</p>	<p>The Hourly Uplift and Intertie Offer Guarantee Estimates Report is not directly related to the scheduling process and hence detracts from the purpose of the table.</p> <p>The change was made in response to internal feedback.</p>
<p>6.2 Real-Time Reports</p> <p>Table 6-4</p>	<p>Modified</p>	<p>Dispatch Data Report for the Real-time Scheduling Process as listed in Table 6-4 is being split into two reports:</p> <ol style="list-style-type: none"> 1. Dispatch Data Report for Real Time Scheduling Process for Resources: contains <i>dispatch data</i> as used by the <i>real-time</i>

Market Manual Section	Type of Change	Description
		<p><i>calculation engine</i> for all <i>resources</i> except <i>forebays</i>.</p> <p>2. Dispatch Data Report for Real Time Scheduling Process for Forebays: contains <i>dispatch data</i> for <i>forebays</i> as used by the <i>real-time calculation engine</i>.</p> <p>The changes were made in response to internal feedback.</p>
7 Real-Time Market Remediation	Modified	<p>Replaced reference to “advisory notice” with reference to “administrative pricing notification,” or “dispatch scheduling error notification,” as applicable.</p> <p>The changes were made in response to internal feedback.</p>
Appendix A-2 Table A-2	Modified	For daily energy limits, deleted reference to <i>real-time calculation engine</i> .

Summary of Changes to Market Manual Part 4.5: Market Suspension and Resumption - July 2023

The existing *market manual* Part 4.5 has been updated to describe IESO obligations surrounding the declaration of a market suspension, operation during market suspension, and resumption of normal market activities.

Market Manual Section	Type of Change	Description
2. Market Suspension	Modified	Updated to include reference to the <i>day-ahead market</i> operation during <i>market suspension</i> and clarification that a <i>day-ahead market</i> failure does not constitute a <i>market suspension</i> .
2.2. Operations during Market Suspension	Modified	Updated to indicate that the <i>day-ahead market</i> schedules will be followed to the extent possible during <i>market suspension</i>
2.2.3. Administrative Pricing	Modified	Renamed section to Administrative Pricing. Updated to reflect reference to new <i>market rule</i> sections for <i>administrative pricing</i> , MR Ch.7 s. 8.4A.6.
2.5. Compensation	Removal	Removed Section 2.5 detailing compensation to <i>market participants</i> as these details are included in MR Ch. 7 s. 8.4A.9 and MR Ch. 7 s. 8.4A.10.

Market Manual Section	Type of Change	Description
3.1. Market Resumption Advisory Notices	Modified	Updated to include reference to the timeline for the resumption of normal operations of the <i>day-ahead market</i> . Updated to refer to MM 4.1: Submitting Dispatch Data in the Physical Markets, Appendix B: Short Notice Change Criteria instead of MM 4.2: Submission of Dispatch Data in the Real-Time Energy and Operating Reserve Markets, Appendix B: Short Notice Change Criteria).
3.2.1. Preliminary and Final Market Suspension Reports, 3.2.2. Implementing Corrective Measures	Modified	Merged previous sections 3.2.1 Preliminary Market Suspension Report and 3.2.2: Final Market Suspension Report.
3.2.4. Compensation for Corrective Actions	Removal	Removed Section 3.2.4 detailing <i>market participant</i> compensation during <i>market suspension</i> .
Appendix and References	Modified	Removed Appendix on Administrative Pricing. Added reference to MM 4.2: Operation of the Day Ahead Market and removed hyperlink to Administrative Pricing Quick Take.

Market Manual 7: System Operations

Summary of Changes to Market Manual Part 7.1: IESO-Controlled Grid Operating Procedures - July 2023

The existing *market manual* Part 7.1 has been updated to describes the changes to synchronization/desynchronization of GOG-Eligible resources and pseudo units, SBG procedures, and the EOSCA list.

Market Manual Section	Type of Change	Description
4.2.2.2. Synchronization / Desynchronization of GOG-eligible Resources	New	Synchronization process depends on receipt of a <i>start-up notice</i> from pre-dispatch. Desynchronization process depends on receipt of notice of decommitment from pre-dispatch.

Market Manual Section	Type of Change	Description
4.2.2.3. Synchronization / Desynchronization of GOG-eligible Pseudo-Units	New	Added synchronization and desynchronization processes for <i>pseudo-units</i> that are operating in combined cycle mode, including the process for associated steam turbine units.
Section 10. Grid Control Actions: Nuclear Manoeuvres Forecasted or Occurring	Modified	Relocated section 10 from Market Manual 7.3. Added Incremental Transactions beyond T+2 as a control action. This will be implemented when there are reductions forecast in the pre-dispatch time frame.
Appendix B1: Emergency Operating State Control Actions	Modified	Included 3% and 5% voltage reductions as <i>operating reserve</i> due to the removal of control action <i>operating reserve</i> from the market. Added constraining on <i>non-quick start resources</i> as per pre-dispatch results, including Incremental Transactions beyond T+2.

Summary of Changes to Market Manual Part 7.1: IESO-Controlled Grid Operating Procedures – March 2024

Market Manual Section	Type of Change	Description
Throughout		Added italics to correctly refer to the defined term <i>remedial action schemes (RAS)</i> . Load is not a defined term - removed italics where needed. Corrected references to defined terms and italics throughout.
2.1.2	Modified	Broadening the examples of <i>resources</i> that could be subject to <i>IESO</i> orders. The change was made in response to internal feedback.
2.2.1		Added "where applicable" to clarify when certain information must be provided to the <i>IESO</i> . This change was made in response to stakeholder feedback (ID# 82 - OPG)
3.2.1	Modified	Communication facilities are not a part of the defined term <i>facilities</i> - removed italics. The change was made in response to internal feedback.

Market Manual Section	Type of Change	Description
5.1	Modified	<p>Clarified the method of communication is “by telephone” for informing participants of restrictions to auxiliaries and equipment.</p> <p>This change was made in response to stakeholder feedback (ID# 96 - OPG)</p>
Appendix B	Modified	<p>Defined term <i>curtailment</i> refers to the involuntary reduction in consumption by <i>NDLs</i> and <i>PRLs</i>. It does not pertain to <i>linked wheeling through transactions</i>, so this is corrected.</p> <p>Reference to <i>non-dispatchable load</i> in section B.2.1 refers to load outside of Ontario, so should not be italicized.</p> <p>The changes were made in response to internal feedback.</p>

Summary of Changes to Market Manual Part 7.2: Near-Term Assessments and Reports - July 2023

The existing *market manual* Part 7.2 has been updated to describe the changes to reporting timelines and consideration in adequacy assessments.

Market Manual Section	Type of Change	Description
Section 1.1: Purpose	Modified	Added Ontario Near-Term Demand Forecast Report (Day 0 to 10) for the Northeast, Northwest, Southeast and Southwest demand forecast areas. Added Ontario Mid-Term Demand Forecast Report (Day 11 to 34) for the legacy East and West demand zones.
Section 2: Market Participant Data Submission Instructions	Modified	Updated timing for submission of data by <i>market participants</i> based on MRP timing.
Section 3: Adequacy, Demand Forecast, and Transmission Limits Reports	Modified	Changed daily <i>publication</i> times for <i>adequacy</i> reports to be in Eastern Prevailing Time (EPT).
Section 5: Control Action Operating Reserve	Deleted	Removed control action <i>operating reserve</i> (CAOR) from the real time (RT) sequence.
Appendix A (formerly Appendix B: Method to Assess Generation and Transmission Adequacy	Modified	Included Incremental Transitions in this section regarding the assessment method.

Summary of Changes to Market Manual Part 7.2: Near-Term Assessments and Reports – March 2024

Market Manual Section	Type of Change	Description
Throughout	Editorial	<p>The term "<i>publish</i>" has been italicized.</p> <p>This change was made in response to stakeholder feedback (ID# 103 - OPG)</p> <p>Replaced "MWhr" with "MWh" to align with the List of Acronyms included in MM 7.2.</p> <p>This change was made in response to internal feedback.</p>
3.2 Ontario Demand Forecast Reports	Remove	Section removed as Ontario Near-Term Demand Forecast Report (Day 0 to 10) and Ontario Mid-term Demand Forecast Report (Day 11 to 34) have been removed from MRP scope as these forecasts will be reflected in the <i>adequacy</i> report.
3.1.2 Adequacy Report for Day 2 to 34	Modified	<p>Section updated to add in the expected <i>publication</i> times of the Adequacy report for days 2 to 34.</p> <p>This change was made in response to stakeholder feedback (ID# 105 - OPG)</p>
3.4 Transmission Facility Outage Limits Reports	Modified	<p>Section updated to add in the expected <i>publication</i> times for the Transmission Facility Outage Limits Report (Day 0 to 2) and the Transmission Facility Outage Limits Report (Day 3 to 34)</p> <p>This change was made in response to stakeholder feedback (ID# 106 - OPG)</p>
Appendix A	Editorial	Removing italics as load is not a defined term
Appendix C	Modified	<p>Appendix C has been updated to indicate how <i>electricity storage resources</i> are reflected in the Adequacy Reports.</p> <p>This change was made in response to stakeholder feedback (ID# 107 - OPG)</p>

Summary of Changes to Market Manual Part 7.3: Outage Management - July 2023

The existing *market manual* Part 7.3 has been updated to describes the changes to the outage submission timelines and requirements.

Market Manual Section	Type of Change	Description
Section 3: Outage Management Information	Modified	Added requests for <i>segregated mode of operations</i> as an example of opportunity <i>outages</i> .
Section 3.7.5: One day Advance Approval	Modified	Modified study period for <i>one-day advance approval</i> process to accommodate new <i>day-ahead market</i> timing. The study period for the <i>one-day advance approval</i> process was modified to end at 07:59:59 EST one <i>business day</i> prior to the coverage period.
Table 3-7: Outage Submission and IESO Review Timeline	Modified	Updated the timelines for <i>one-day advance approval outages</i> .
Section 5: Generation Facilities and Electricity Storage (pseudo units)	New	Added, for <i>pseudo units</i> , requirements to submit <i>outages/de-rates</i> for both gas turbine and associated steam turbine units ensure the <i>dispatch</i> scheduling and optimization correctly calculates <i>energy</i> and capacity.
Section 5.1.4: Segregated Mode of Operation	New	Added the requirement to apply for <i>segregated mode of operations</i> in the <i>day-ahead market</i> time frame for situations where critical elements are required out of service.

Summary of Changes to Market Manual Part 7.3: Outage Management – March 2024

Market Manual Section	Type of Change	Description
Section 5.1.4.1: SMO Requiring Outage of a Critical Transmission Element	Modified	<p>Replaced the “operation” with “outage” in the title of sections 5.1.4.1 and 5.1.4.2. This is aligned with the content of the section.</p> <p>This change was made in response to stakeholder feedback (ID#119).</p> <p>Added clarity to specify when “Subsequent Changes that do not Require Critical Elements to be Reconfigured”</p> <p>This change was made in response to internal feedback.</p>

Summary of Changes to Market Manual Part 7.4: IESO-Controlled Grid Operating Policies - July 2023

Market Manual Section	Type of Change	Description
All	Modified	Replaced "facility" with "resource". No substantive changes related to MRP – this <i>market manual</i> has been updated to eliminate duplication of existing content between the <i>market manuals</i> and <i>market rules</i> .