

Market Renewal Energy | Market Rules and Manuals MPM Batch Education:
Market Power Mitigation (MPM)

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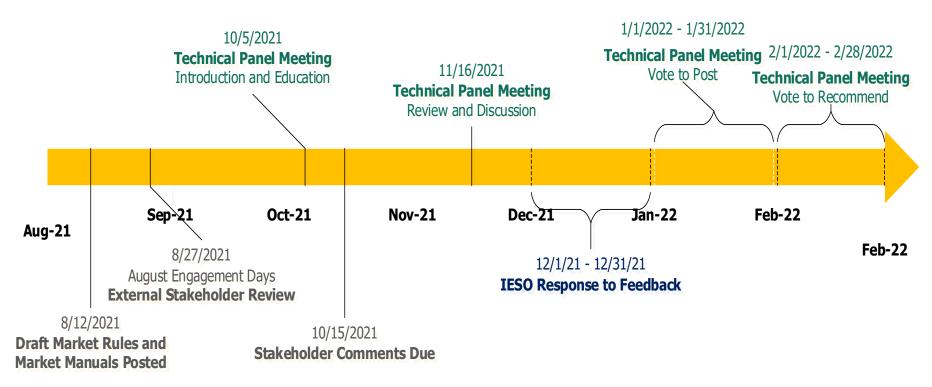


Agenda

- Timeline for technical panel meetings on the MPM Batch Market Rules and Market Manuals
- Purpose
- Summary of the MPM Batch Market Rules and Market Manuals
- Topics addressed in the MPM Batch
- Stakeholder feedback
- Next steps



MPM Batch Technical Panel Overview: Timeline





Purpose

Prepare the Technical Panel to review the MPM batch documents:

- Summarize the documents in the batch
- Describe the topics within the documents
- Outline the feedback that we received on the MPM batch documents, describing the themes of comments.



Market Power Mitigation: Batch SummaryMarket Rules and Market Manuals



MPM Batch Market Rules and Manuals

Market Rules

Market rule provisions that describe the obligations
and authorities regarding market power mitigation,
including new defined terms.

Chapter 11 - Definitions
Chapter 7
Chapter 3 (single provision)

Market Manual 14.1: Market Power Mitigation Procedures

Describes the procedures that support market power mitigation (e.g., designation of constrained zones).

Market Manual 14.2: Reference Level and Reference Quantity Procedures

Describes the procedures that support determination and calculation of reference levels and reference quantities.



MPM Batch Market Rules and Market Manuals: Conforming Changes Refresher

1st Batch Changes



2nd Batch Changes (MPM) + 1st Batch Conforming There may be occasions where the IESO needs to revise an earlier batch to be consistent with a subsequent batch.

These revisions will be known as 'conforming changes'

3rd Batch Changes

+ 1st, 2nd Batch Conforming

4th Batch Changes + 1st, 2nd, 3rd Batch Conforming



For the MPM batch, there are conforming changes to MM 1.3 and MM 1.5.

5th Batch Changes + 1st, 2nd, 3rd, 4th Batch Conforming



MPM Batch Market Rules and Market Manuals: Conforming Changes

Market Manual 1.3: Identity Management Operations Guide

Describes the way that participants manage assignments of the roles required to interact with the IESO in various capacities.

Market Manual 1.5: Market Registration Procedures

Describes the way that market participants are registered to participate in the IESO-administered markets.



MPM Batch Market Rules and Market Manuals: Conforming ChangesConforming Changes, Market Manual 1.3

Change Description	Market Manual Section
Added Market Power Mitigation Contact	Appendix B



MPM Batch Market Rules and Market Manuals: Conforming Changes, Market Manual 1.5

Change Description	Market Manual Section
Updated section cross-references to account for new content elsewhere in the market manual regarding reference levels, reference quantities and market control entities	1.3.1
Added new IESO responsibilities related to reference levels, reference quantities and market control entities	
Added content to reflect that prospective market participants seeking authorization as a subset of participation types are required to disclose market control entities and a market control entity for physical withholding	2.2.1 Table 2-2



MPM Batch Market Rules and Market Manuals: Conforming Changes, Market Manual 1.5

Change Description	Market Manual Section
Updated the content describing market control entity and market control entity for physical withholding	3.1.5 Table 3-2
Added new section to describe the requirements to register reference levels for financial dispatch data parameters, non-financial dispatch data parameters and reference quantities	3.2.6



MPM Batch Market Rules and Market Manuals: Conforming Changes, Market Manual 1.5

Change Description	Market Manual Section
Updated table cross references and table titles. These are conforming changes resulting from other incremental changes noted above	3.5, 3.5.2.1, 3.7.2, 3.7.3
Added Market Control Entity for Physical Withholding to the list of market participant changes	4.2
Added changes to reference levels and reference quantities to the list of changes for which the IESO will issue a Registration Approval Notification	
Added Market Power Mitigation Contact	Appendix A



MPM Batch Market Rules and Market Manuals: How to Read MPM Batch Documents

Market Rule

Market Manual

Impact Test - Energy

- 22.15.7 The IESO may apply an impact test for physical withholding to the energy offers of a registered market participant for a resource that had an energy offer fail any of the conduct tests in section 22.15.4. An energy offer will fail the impact test if:
 - 22.15.7.1 the resource met the condition in 22.15.3.3 and the resource's simulated as-offered energy LMP is greater than the resource's simulated reference quantity energy LMP by the lesser of 50% or \$25/MWh;
 - 22.15.7.2 the resource met the condition in 22.15.3.4 and the resource's simulated as-offered energy LMP is greater than the resource's simulated reference quantity energy LMP by the lesser of 50% or \$25/MWh:
 - 22.15.7.3 the resource met the condition in 22.15.3.5 and the resource's simulated as-offered energy LMP is greater than the resource's simulated reference quantity energy LMP by the lesser of 100% or \$50/MWh; or
 - 22.15.7.4 the resource met the condition in 22.15.3.6 and the resource's simulated as-offered energy LMP is greater than the resource's simulated reference quantity energy LMP by the lesser of 100% or \$50/MWh.

5.6. Impact Tests: Procedural Steps and Timelines

(Market Rules: Chapter 7, sections 22.15.18-22.15.26)

The IESO applies impact tests for *energy* and *operating reserve* in accordance with the conditions set out in **MR Ch.7**, ss. 22.15.7-22.15.9, and **MR: Ch.7**, s. 22.15.15-22.15.17, respectively.

Details with respect to the procedural steps and timelines associated with impact tests, including timelines related to first and second notices of *physical withholding* assessments, are set out in MR: Ch.7, ss.22.15.18-22.15.26.



Market Power Mitigation: MPM Batch Topics



Background: MPM Topics in Future Batches

Market Entry and Prudential Security

Market Power Mitigation

Calculation Engines

Market Settlement, Metering, and Billing

Market and System Operations

Ex-ante mitigation

Settlement mitigation



MPM Batch Topics: Timeline

During Registration (e.g., determine reference levels)

Prior to Running the Market (e.g., designate constrained areas)

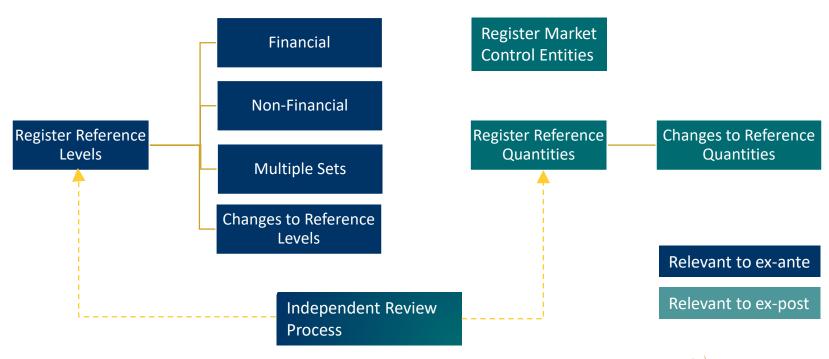
During Market Execution (e.g., fuel cost change requests)

During Market Settlement (e.g., reference level settlement charge)

Following Settlement (e.g., ex-post mitigation for physical withholding)



MPM Batch Topics: During Registration





MPM Batch Topics: During Registration, Market Rules – Chapter 7

Topic	Market Rule Section
Reference Levels - General	22.1
Reference Levels for Financial Dispatch Data Parameters	22.2
Reference Levels for Non-Financial Dispatch Data Parameters	22.3
Resources with Multiple Sets of Reference Levels	22.4
Changes to Reference Levels	22.5



MPM Batch Topics: During Registration, Market Rules – Chapter 7

Topic	Market Rule Section
Reference Quantities	22.6
Revisions to Reference Quantities	22.7
Independent Review Process	22.8
Market Control Entities	22.9



MPM Batch Topics: During Registration, Market Rules – Chapter 3

Topic	Market Rule Section
Notice of Dispute related to Independent Review Process	2.5.1A.6

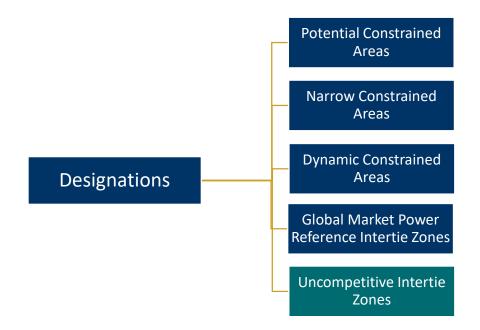


MPM Batch Topics: During Registration, Market Manual 14.2

Topic	Market Manual Section
Overview of Reference Levels and Reference Quantities	2
Determine and Update Reference Levels and Reference Quantities	3
Reference Level and Reference Quantity Reports	4
Cost Components of Financial Dispatch Data Parameters	6
Reference Levels for Financial Dispatch Data Parameters	7
Reference Levels for Non-Financial Dispatch Data Parameters	8
Reference Quantities	9



MPM Batch Topics: Prior to Running the Market



Relevant to ex-ante

Relevant to ex-post



MPM Batch Topics: Prior to Market, Market Rules – Chapter 7

Topic	Market Rule Section
Designation of Constrained Areas – Potential Constrained Areas, Narrow Constrained Areas, and Dynamic Constrained Areas	22.10
Global Market Power Reference Interties Zones	22.11
Uncompetitive Intertie Zones	22.12



MPM Batch Topics: Prior to Market, Market Manual 14.1

Topic	Market Manual Section
Designation of Constrained Areas	2
Designation of Uncompetitive Intertie Zone Status	3
Determination of Global Market Power Reference Intertie Zones	4



MPM Batch Topics: Market Execution

Validation of Non-Financial Dispatch Data

Request to Use High Cost Profile

Fuel Cost Change Requests

Ex-Ante Mitigation

Determine Intertie Reference Levels Described in Batch 5 market rules and market manuals

Relevant to ex-ante

Relevant to ex-post



MPM Batch Topics: Market Execution, Market Rules – Chapter 7

Section Description	Market Rule Section
Changes to Reference Levels	22.5
Ex-Ante Validation of Non-Financial Dispatch Data Parameters	22.13
Intertie Reference Levels	22.17



MPM Batch Topics: Market Execution, Market Manual 14.2

Section Description	Market Manual Section
Temporary Reference Level Change Requests	5



MPM Batch Topics: Market Settlement

Reference Level Settlement Charge

Settlement Mitigation

Settlement mitigation will be described in Batch 4 market rules and market manuals

Relevant to settlement



MPM Batch Topics: Following Settlement - Ex-Post Mitigation

Physical Withholding

- Energy Price Impact
- Operating Reserve Price Impact

Intertie Economic Withholding

- Energy Price Impact
- Operating Reserve Price Impact
- Make-whole Payment Impact

Relevant to ex-post



MPM Batch Topics: Following Settlement, Market Rules – Chapter 7

Section Description	Market Rule Section
Ex-Post Mitigation of Physical Withholding	22.15
Intertie Economic Withholding on an Uncompetitive Intertie Zone	22.16
Mitigation for Make-Whole Payment Impact on Uncompetitive Interties	22.18
Intertie Economic Withholding – Procedural Steps and Timelines	22.19



MPM Batch Topics: Following Settlement, Market Manual 14.1

Topic	Market Manual Section
Ex-Post Mitigation for Physical Withholding	5
Ex-Post Mitigation for Economic Withholding on an Uncompetitive Intertie Zone	6



Market Power Mitigation: Stakeholder Feedback



Stakeholder Engagement Materials



Market Rules and Market Manuals amendments



Stakeholder Engagement Presentation



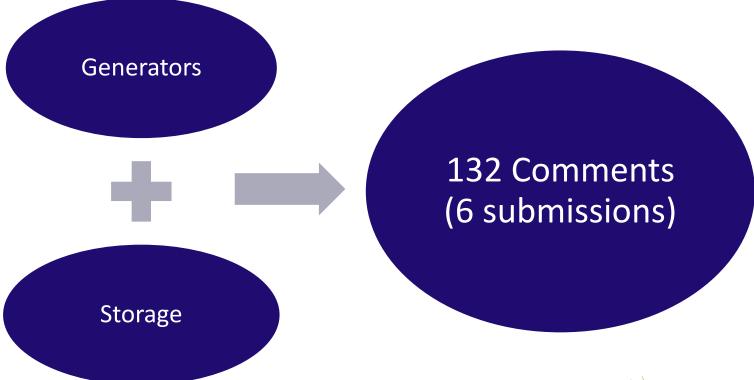
Guide to reading the amendments



Stakeholder feedback when available

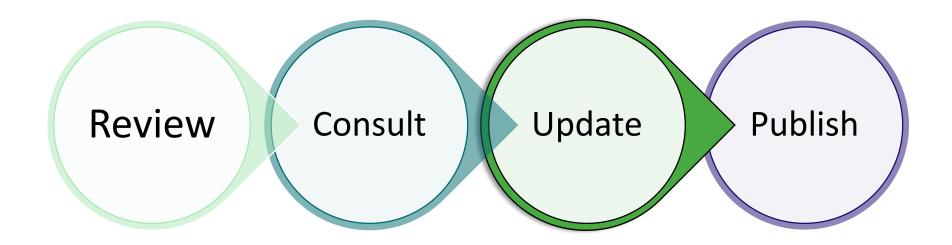


MPM Batch Stakeholder Feedback: Data





MPM Batch Stakeholder Feedback: Data





MPM Batch Stakeholder Feedback: Themes

Comment Type	Comments
Clarification	63
Request for Change in Approach	22
Content supplement	21
Editorial	14
Ongoing updates	6
Placement of content	6



MPM Batch Stakeholder Feedback: Themes

Topic	
Process to establish reference levels (41)	Market control entities (5)
Language (19)	Reporting (5)
Constrained zones (14)	Reference level change requests (4)
Mechanics of mitigation (13)	Dispute Resolution (3)
Physical withholding (13)	Technical panel process (1)
Independent Review Process (7)	Validation (1)
Uncompetitive interties (6)	



Market Power Mitigation: Next Steps



MPM Batch: Next Steps

- IESO will post responses to stakeholder feedback and updated MPM Batch documents in December 2021
- Technical Panel will meet for the vote to post in January 2022
- Technical Panel will meet for the vote to recommend in February 2022



Thank You

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