

Market Renewal Program

MRP Energy Detailed Design | Engagement Days

August 27, 2020

Today's Objective

- Support stakeholders in their review of the Day-Ahead Market (DAM) Calculation Engine draft detailed design document that is open for feedback until September 24
- Review specific areas of stakeholder interest contained in the design document that may require further clarification or explanation from the IESO
 - With the intention to better inform written stakeholder feedback on the detailed design document

Engagement Process

MRP Detailed Design

Detailed Design Release Schedule

Date	Design Document Topics
November 28, 2019	<ul style="list-style-type: none">• Overview• Authorization and Participation• Prudential Security• Facility Registration• Revenue Meter Registration• Market Billing and Funds Administration
March 26, 2020	<ul style="list-style-type: none">• Publishing and Reporting Market Information
May 5, 2020	<ul style="list-style-type: none">• Grid and Market Operations Integration• Offers, Bids and Data Inputs• Market Power Mitigation
May 11, 2020	<ul style="list-style-type: none">• Market Settlement
July 27, 2020	<ul style="list-style-type: none">• Day-Ahead Market Calculation Engine
August 31, 2020	<ul style="list-style-type: none">• Real-Time Calculation Engine
September 30, 2020	<ul style="list-style-type: none">• Pre-Dispatch Calculation Engine

Draft Design Documents (13)

- Stakeholders continue to review draft detailed design documents and have provided feedback on ten detailed design documents already
- The IESO will post responses to stakeholder feedback and will track all changes made to the detailed design documents as the result of stakeholder feedback
- The detailed design is critical in setting the stage for the draft rules and manuals phase of engagement prior to the Technical Panel and IESO Board approval process in 2021

Engagement Process: Detailed Design

The following process will guide both stakeholders and the IESO through the detailed design phase of MRP



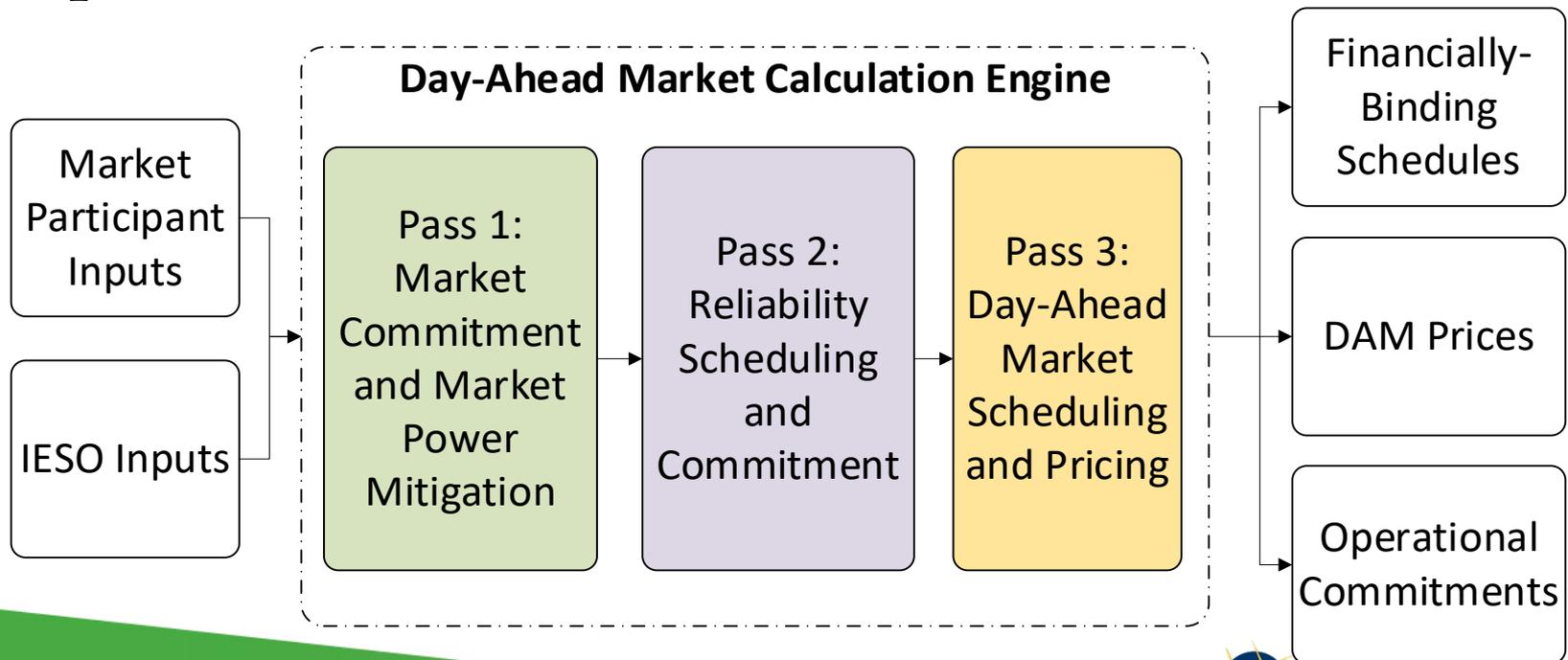
DAM Calculation Engine

Draft Detailed Design Document

Day-Ahead Market Calculation Engine

Highlights:

- The DAM calculation engine will produce financially-binding schedules, DAM prices, and operational commitments



Day-Ahead Market Calculation Engine

Highlights Cont'd:

- Similar to today's Day-Ahead Calculation Engine (DACE), the DAM calculation engine will have three passes:
 - **Pass 1:** Market Commitment and Market Power Mitigation
 - **Pass 2:** Reliability Scheduling and Commitment
 - **Pass 3:** Day-Ahead Market Scheduling and Pricing
- The outputs of Pass 1 and Pass 2 will be used as inputs to Pass 3

Day-Ahead Market Calculation Engine

Highlights Cont'd:

- The DAM calculation engine will utilize new inputs from market participants and the IESO
 - **Market Participants:** New dispatch data parameters for hydroelectric generation resources and Non-Quick Start (NQS) resources
 - **IESO:** Enhanced network model, new pricing locations for virtual transaction zonal trading entities, and Ontario demand forecasts produced as the sum of four separate area demand forecasts

Questions?

DAM Calculation Engine

Next Steps

- **August 31:** Release the Real-Time Calculation Engine design document for stakeholder review
 - A session to support the stakeholder review of this document will take place between September 28-30
- **September 24:** Deadline for stakeholder feedback on the DAM Calculation Engine design document
- **September 30:** Release the Pre-Dispatch Calculation Engine design document for stakeholder review
 - A session to support the stakeholder review of this document will take place between October 26-28

Thank you

For more information, or to register for upcoming MRP engagement sessions, please contact engagement@ieso.ca or visit the [MRP Energy webpage](#)