

# MIS Refresh Project

## Market Participant Information Session

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October 6, 2015

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# Overview

- The Market Information System(MIS) is one of the key systems within the IESO and it is used to determine dispatch schedules while satisfying operating reserve requirements and respecting transmission and security limits.
- The IESO is refreshing the MIS system and the purpose of this session is to inform Market Participants about MIS refresh project scope, testing approach, and project in service date.

# Context – Why now?

- The MIS was initially deployed in 2001 and was last upgraded in 2007. Since 2007, the MIS has continued to develop to support the market needs, as illustrated by the implementation of renewable generation.
- The MIS must be managed to ensure its continued availability, stability, and reliability by upgrading the hardware, operating systems and application software to support the IESO Administered Markets (IAM).

# MIS Project Scope

- MIS Upgrade
  - Upgrade MIS platform to latest vendor version
  - Consolidate MIS and Day Ahead Optimization System (DAOS) platform
  - Update mathematic library used by MIS
  - Improve IESO Operation experience
- Technology Refresh
  - Hardware
  - Middleware software
  - Database

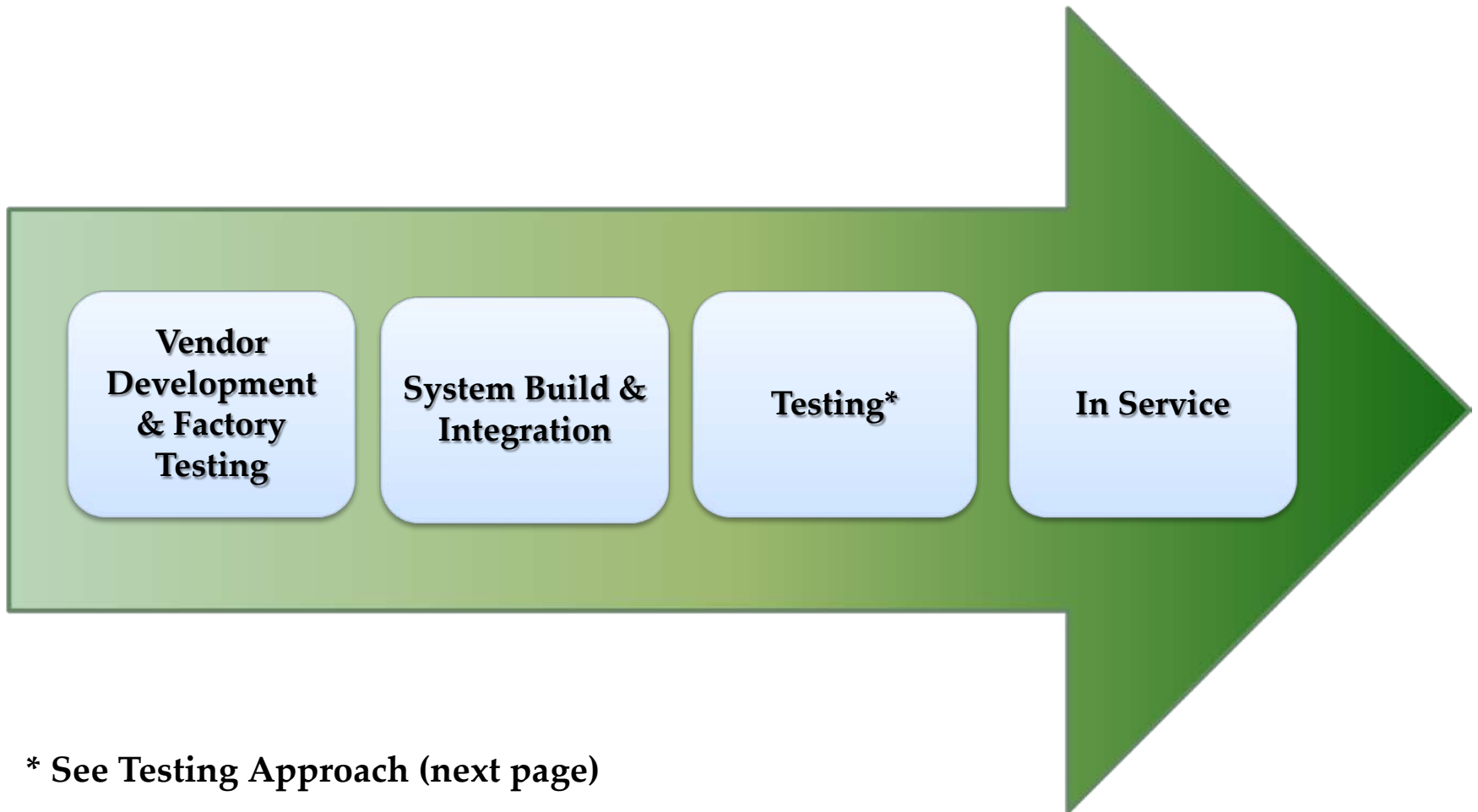
# Upgrade Mathematic Library

- Currently the MINOS mathematic library is used by MIS and CPLEX mathematical library is used by DAOS.
- After MIS refresh project, CPLEX will also be used for the Dispatch Scheduling Optimizer (DSO) in Pre-dispatch & Real-time.
- Both mathematical library will solving same objective function specified in Market Rules.

# Extending MIO Critical Intervals

- Exploring possibility of using more than 5 Multi Interval Optimization (MIO) critical intervals (up to 11) during MIS Refresh project.
- Dispatch Advisory Reports will be updated as result of additional critical intervals.

# Approach



\* See Testing Approach (next page)



# Testing Approach

- Vendor will verify the system functionalities during factory testing.
- IESO will verify functionality and business processes testing after system integration.
- An independent auditor will do a Pre-Implementation Review to verify compliance with Market Rules.
- Market Participant to review updated reports as result of extending MIO critical Intervals.

**For discussion: Is this testing sufficient ?**

# Next Step

Date	Activity
Q3 2017	IESO Complete IT and Business Testing
Q3 2017	Independent auditor to perform pre-implementation review
Oct. 2017	Market Participant review updated reports
Nov. 2017	In service date

# Question and Answers