

New Modeled Asset Projects: Process Guide

ISO New England Inc. December 30, 2024



*Getting from the **Interconnection Process** to
Initial Synchronization and Commercial Operation*

Asset Registration and New Generation Coordination

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Content

- **Foreword**
- **Definitions**
- **Technical Requirements for a Modeled Asset**
- **General Sequence of Events**
- **Initial Contact**
- **New Modeled Asset Project Kick-Off Meeting**
- **Project Checklist**
- **Identifying Project Roles**
- **Modeled Asset: Market Representation/Roles**
- **Power System Model**
- **Generator and Transmission System Data Requirements**
- **Operational Studies**
- **Dispatch Communication**
- **In-Service**
- **Initial Synchronization**
- **Commercial Operation**
- **Appendix: Resources, Documents, Links**

Foreword

Process Guide

ISO New England (ISO-NE) is an independent, not-for-profit corporation responsible for keeping electricity flowing across the six New England states and ensuring that the region has reliable, competitively priced wholesale electricity today and into the future.

- **ISO New England (ISO-NE)** Will enter into three-party interconnection agreements with the Interconnecting TO and Interconnection Customer for projects that are determined to be FERC jurisdictional.
- To learn more about ISO-NE, go to the ISO website: [About ISO-NE](#)

Due to the complexities of bringing a Modeled Asset on-line, ISO-NE offers this service to assist developers and eventual Lead Market Participants in meeting all the Modeled Asset Requirements for operating in the Market.



Foreword

Process Guide

- **Process Guide**

- The guide is intended to be used as a **general resource tool** to assist a generator **project sponsor**
 - In transition from the interconnection process via **ISO-NE Transmission Services** or the **interconnecting Distribution (utility) company/Transmission Owner (TO)** for **generator projects to the registration of the Modeled Asset**
 - That will participate in the ISO-NE administered wholesale electricity markets – and
 - Required to be represented in the ISO-NE Power System Model.
 - » See **ISO-NE Operating Procedure 14: Technical Requirements for Generators, Demand Response Resources, Asset Related Demands and Alternative Technology Regulation Resources** to determine if a generator project will be classified as a Modeled Asset.
 - OP-14
 - » Also see the Generator Asset Registration Options Checklist to help in the assessment.
- The guide begins within the timeframe of completion (or near completion) of the applicable Transmission or Distribution **System Impact Study (SIS)**, drafting the **interconnection agreement (IA)**, and submittal of the **Proposed Plan Application (PPA)**.
- **ISO-NE governing documents** (Market Rules, Operating Procedures, Manuals, Planning Procedures, etc.) are continuously updated. Where there are discrepancies with this guide and the ISO-NE governing documents, the **governing documents shall prevail**.
 - The guide provides a high-level overview of the process and is not intended to specifically represent the governing documents of ISO-NE, a Transmission Owner (TO), FERC, or any other regulatory or corporate entity.

Definitions

- **Administered Transmission System (ATS):** The ATS represents the high voltage transmission and/or distribution lines that transmit electricity throughout the New England power grid. Inclusive of Pool Transmission Facilities (PTF) and non-PTF.
- **Interconnecting Transmission Owner (TO):** The entity that owns/operates transmission facilities (ATS) that will interconnect with a generator project and has either a two-party (inclusive of the Interconnection Customer for non-FERC jurisdictional projects) or three-party interconnection agreement (inclusive of the Interconnection Customer and ISO-NE for FERC jurisdictional projects).
- **Interconnection Customer (IC):** The entity that owns/operates the Generating Facility that will interconnect with the ATS or distribution system and has either a two-party (inclusive of the Interconnecting TO) or three-party interconnection agreement (inclusive of the TO and ISO-NE). In some cases, the IC may establish an interconnection with an electric distribution company.
- **Network Resource Capability (NRC):** The max net MW output at the POI as seen in the generating facilities interconnection agreement.
- **Point of Interconnection (POI):** The point where the Generating Facility interconnects with the ATS.

As seen in the following:

- [Schedule 22 - Large Generator Interconnection Procedures](#)
- [Schedule 23 - Small Generator Interconnection Procedures](#)

The terms represented on the slide are typically used during the interconnection process and related interactions that a project sponsor can expect to encounter with ISO-NE, the Transmission Owner/distribution company, and Local Control Center. The definitions are presented in layman terms with links to actual definitions within the ISO-NE governing documents.

Definitions

- **Generating Facility:** Also known as the generator project, is the physical equipment and components that will be constructed for the production and/or storage for later injection of electricity.
- **In-Service Date:** The date when the generator project site expects to receive back-feed power from the transmission owner/interconnecting utility/electric distribution company for facility construction and/or on-going station service.
- **Initial Synchronization Date:** Once the project has met applicable requirements for 1) ISO-NE, 2) the transmission owner, and 3) the Local Control Center (LCC), the date when the generator project is synchronized to the New England power grid and upon which Trial Operation begins (test power).
- **Trial Operation:** The period during which the IC is engaged in on-site test operations and commissioning of the Generating Facility prior to Commercial Operation. Also known as Non-Commercial Testing.
- **Commercial Operation:** Once the generator 1) has met all ISO-NE requirements, 2) is not in trial operations (test power), and has commenced generating electricity for sale, then its status will be deemed commercial.

As seen in the following:

- [Schedule 22 - Large Generator Interconnection Procedures](#)
- [Schedule 23 - Small Generator Interconnection Procedures](#)

The terms represented on the slide are typically used during the interconnection process and related interactions that a project sponsor can expect to encounter with ISO-NE, the Transmission Owner/distribution company, and Local Control Center. The definitions are presented in layman terms with links to actual definitions within the ISO-NE governing documents.

Definitions

- **Modeled Asset:** One or more generating unit at a single location that is fully visible and controllable by the ISO's control room. A Modeled Generator bids into the Day-Ahead and/or Real-Time Energy Markets, contributes to price formation, and therefore dispatched based on price. An Asset must be modeled (rather than Settlement Only Generation based on the following determinations:
 - Facility max net output, known as Interconnection rights, is 5 MW or greater and/or the Interconnection Voltage is equal or greater than 115 kV.
- **Designated Entity (DE):** A DE represents the physical location (available 24/7/365) that will receive verbal and/or electronic dispatch communications from ISO-NE. A Modeled Asset is required to have a DE.
- **Electronic Dispatch Capability (EDC):** EDC represents the ability of a Modeled Asset to receive dispatch instructions electronically to increase or decrease output in real-time.
- **Power System Model (PSM):** Includes topology, characteristics of the various power system facilities, and equipment ratings that comprise the New England power grid. Modeled Assets must be represented in the PSM before they can inject electrical energy (inclusive of trial or commercial operation) into the power system. The PSM is updated three times per calendar year.

As seen in [ISO-NE Operating Procedure 14 \(OP-14\)](#)

The terms represented on the slide are typically used during the interconnection process and related interactions that a project sponsor can expect to encounter with ISO-NE, the Transmission Owner/distribution company, and Local Control Center. The definitions are presented in layman terms with links to actual definitions within the ISO-NE governing documents.

Definitions

- **Host Participant:** The transmission or distribution provider that reconciles the loads within the metering domain with OP-18 compliant metering. (See ISO-NE Transmission, Markets, and Services Tariff)
- **Lead Market Participant:** As identified through the New Modeled Asset Coordination process and reflected on the Asset Registration Form, the Market Participant that is responsible for registering the Generating Facility, compliance, generator scheduling, and all ISO-NE requirements for managing the generator.
- **Ownership Share:** The percentage share applied to a Market Participant (as an asset owner) for settlement credits or charges for a registered Asset (SOG or a Modeled Asset) applicable to the ISO-NE administered wholesale electricity markets. This does not refer to “real-world” equity ownership or other contractual obligations outside the scope of ISO-NE administration.
- **Local Control Center (LCC):** The entities, separate from ISO-NE, that are responsible for managing local transmission facilities within the New England Power System in accordance with the Open Access Transmission Tariff (OATT) and Transmission Operating Agreement (TOA).
- **Market Participant:** A legal corporate entity that has executed the Market Participant Service Agreement (MPSA). Only Market Participants may represent a Modeled Asset in the ISO-NE administered electricity markets.
- **Pool Transmission Facilities (PTF):** Transmission facilities owned by a Pool Transmission Owner (PTO) operated by ISO-NE according to the terms in the Transmission Operating Agreement (TOA).

As seen in [Section 1 - General Terms and Conditions](#)

The terms represented on the slide are typically used during the interconnection process and related interactions that a project sponsor can expect to encounter with ISO-NE, the Transmission Owner/distribution company, and Local Control Center. The definitions are presented in layman terms with links to actual definitions within the ISO-NE governing documents.

Technical Requirements for a Modeled Asset

- **Key Requirements**

- Telemetry and Revenue Metering (ISO-NE OP-18: Metering and Telemetry Criteria)
 - Speed and accuracy requirements
 - Revenue metering for wholesale settlements
 - Remote Terminal Unit (RTU) for real-time visibility and dispatch
- Designated Entity ISO-NE Operating Procedure 14 (OP-14)
 - Required for all Modeled Assets
 - Dispatch communications: Available 24/7/365
 - Situational awareness and control over the Modeled Asset
- Voltage Control
 - Each Lead Market Participant is to support system voltage and reactive needs
 - Maintain assigned voltage schedule
 - The Lead Market Participant must keep/maintain an automatic voltage regulator (AVR) in service
- Governor Control
 - For generators with a capability of 10 MW or greater
 - Each Lead Market Participant is obligated to provide/maintain/operate a functioning governor
 - Support system wide frequency as a shared responsibility for a reliable system



Technical Requirements for a Modeled Asset

- **Key Requirements**
 - System Protection
 - Install/maintain protection systems per NPCC Regional Reliability Reference Directory #4
 - Power System Stabilizers (PSS)
 - Each Lead Market Participant is responsible for maintaining PSS equipment in good operating condition
 - Black Start Capability
 - Each Lead Market Participant that provides Black Start capability (in the ISO-NE system restoration plan), must
 - Maintain that generator in good operating condition
 - Promptly report to ISO-NE any problems with the black start capability of each generator in the system restoration plan
 - » Designated Black Start Resource (DBR)



General Sequence of Events

Getting To Initial Synchronization (Background)

- **High-level sequence**

- The Interconnection Agreement (IA) and Proposed Plan Application (PPA) are not required to be completed before the New Modeled Asset Project Kick-Off Meeting
- New Modeled Asset Project Kick-Off Meeting; review steps/requirements for
 - In-Service (back-feed power)
 - Operational studies (data requirements)
 - Initial (first) synchronization
 - Commercial operation



Initial Contact

Getting Started

- **12-15 months prior to initial synchronization**

- The project sponsor must contact ISO-NE to determine when to schedule a New Modeled Asset Project kick-off meeting. Send an email notice to one of the following:

- NewGenCoord@iso-ne.com
- AskISO@iso-ne.com



- ISO-NE staff will review the following to determine when to schedule a **New Modeled Asset Project kick-off meeting-**

- Anticipated initial synchronization date and Commercial Operation date

- Due to applicable construction efforts, installation of data communication equipment, information submittal, etc. kick-off meetings are typically scheduled at least 1-year in advance of the target initial synchronization (test power) date.



New Modeled Asset Project Kick-Off Meeting

How is the project managed?



- **Kick-Off meeting**

- Held at ISO-NE or if preferred can be done via a Microsoft teams conference call.
- Introduce the project sponsor to ISO-NE, the Local Control Center (LCC), and TO staff.
- Project review.
 - The project sponsor will provide an overview of the project and any pertinent information that may affect target dates.
 - Proposed In- Service (facilities back-feed power)
 - First (initial) synchronization
 - Commercial Operation Date (COD)
 - Any potential modifications from project studies to As-Purchased/As-Built data models
- Review information, communication, and registration requirements for the **Modeled Asset**.
- Identify primary project contacts.
- Monthly conference calls scheduled to track project status/coordination efforts.
 - As applicable to construction, completion of any applicable studies, communication equipment orders/delivery/installation/testing, dispatch location set-up, documentation, etc.

Project Checklist

How is the project managed?

- **New Modeled Asset Project Summary and Checklist**

- In-service date (back-feed power to the site)



- Initial synchronization date

- Commercial Operation Date (COD)

- Due dates: documentation and information requirements to get to initial synchronization and COD

- Primary project contacts representative of:

- The project sponsor
- Lead Market Participant representation
- ISO-NE
- Interconnecting utility (HP & MR)
- Local Control Center
- Designated Entity

Responsibilities will be identified as part of the process and will include contact information such as email addresses and phone numbers

- A New Modeled Asset Project Summary and Checklist will be provided upon request and will be used to track all the detailed requirements through to COD

Identifying Project Roles

- The project sponsor/developer must do one of the following to bring the Modeled Asset into the wholesale market.

1. Register as a fully settleable Market Participant in order to meet all the requirements of the Modeled Asset.

OR

2. Contractualization with an existing fully settleable Market Participant to take on this important role and meet all the requirements of the Modeled Asset.

- The decision here is to be made early on in the process in order to meet the power system modeling deadline.

- To be a Lead Market Participant, first one must be a market participant.
- All submittals and identification of the Designated Entity will be under the responsibility of the Lead Market Participant

- The Local Control Center, Host Participant, and Meter Reader roles will be determined by the point of interconnection and the owner of the substation that the Modeled Asset is tying into.



Modeled Asset/Resource: Market Representation/Roles

Information submittal, generator scheduling, settlement

- **Market Representation/Roles**

Modeled Asset: The Lead Market Participant is responsible for asset registration, information submittals, compliance, identifying the dispatch location, and generator scheduling (supply offers, outages, etc.)

Modeled Asset: Market Participant Owner(s) will receive settlement for energy and ancillary services (100% or pro-rata).

Multiple Market Participants may be listed with an ownership share simultaneously

Resource: Lead Market Participant Manages the Resource in the Forward Capacity Market (FCM)- Show Of Interest (SOI) submittal, Capacity Supply Obligations (CSO), and settlement (100%)...



The market roles will be recorded during the **registration process** for the generator using the **Generation Asset Registration Form**....

Modeled Asset: Market Representation/Roles

Information submittal, generator scheduling, settlement

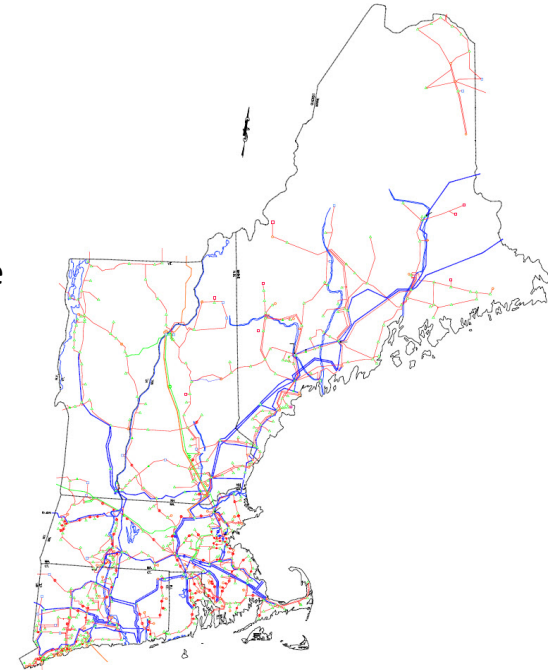
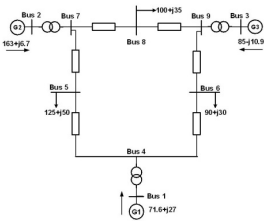
Generation Asset Registration Form

- **Required information (not all inclusive)**
 - Lead Participant for the Asset
 - Ownership
 - Generator Asset Type
 - Intermittent
 - Non-Intermittent
 - FCM Resource ID (if applicable)
 - Location
 - Physical
 - Settlement (Pricing Node)
 - Determines the Locational Marginal Price (LMP)
 - Interconnecting Utility (Host Participant)
 - Meter Reader



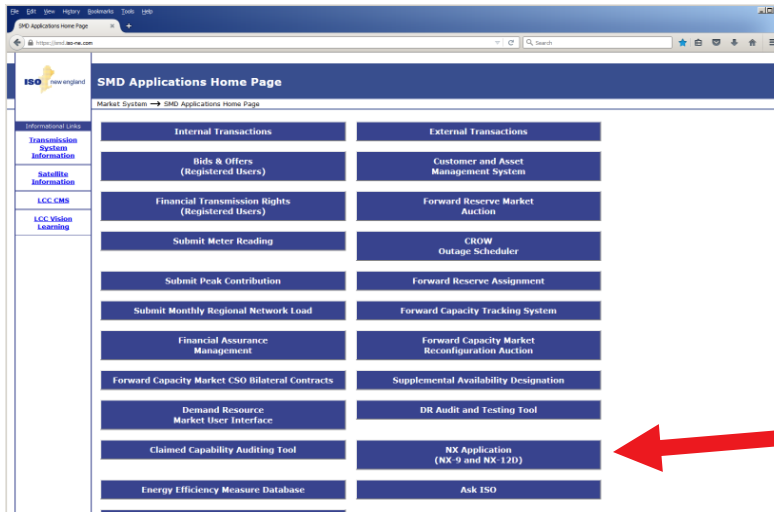
Power System Modeling

- **Power System Model (PSM) requirements**
 - Prior to a PSM release deadline, the Lead Market Participant must submit a lot of technical data
 - Final One-Line diagram(s) with correct nomenclature
 - NX-12 Form
 - NX-12D Form
 - NX-9 Form(s) if applicable
 - The Modeled Asset must be in the power system model prior to initial synchronization
 - Three PSM releases per year
 - February/May/September (subject to ISO-NE scheduling) with the following deadlines:
 - November 15th for February PSM Release
 - March 15th for May PSM Release
 - July 15th for September PSM Release



Power System Modeling

- **The Lead Market Participant for the Asset must submit information:**
 - Generator Technical Data (NX-12 form): Submitted to NewGenCoord@iso-ne.com
 - Voltage and Reactive Control (NX-12D form): Submitted via the **NX Application**
 - Transmission line, Transformers, Reactive devices (NX-9 forms): Submitted via the **NX Application**
 - Data is submitted by the owner or responsible entity for the project/transmission line
 - As applicable, the affected Transmission Owner (TO) may be required to submit this information



...there are information submittals that can only be submitted to ISO-NE via the **Standard Market Design (SMD) portal**. Only Market Participants have access to the SMD portal.

Generator and Transmission System Data Requirements

- **Generator Technical Data (NX-12 form, OP14)**
 - Data is required to provide a technical description for the Modeled Asset, including-
 - Generator Type (Internal Combustion Engine, Photovaltaic, Steam Turbine, etc.).
 - Associated fuel usage (Start Up, Primary, Alternate).
 - Capabilities (Blackstart, Dispatchable, Fast Start, Auto Start, Regulation).
- **Generator Voltage and Reactive Control Data (NX-12D form, OP12 Appendix B)**
 - Data is required to describe generator reactive capabilities
 - Each generating unit (Generator/inverter/etc.) comprising a Modeled Asset that will be represented in the ISO-NE power system model. A Modeled Asset may be a composite of multiple generating units.
- **Transmission Equipment Data (NX-9 forms, OP16)**
 - Equipment parameter data is required for-
 - All transmission equipment (lines, transformers, reactive devices) designated as part of the Bulk Electric System (69kV or above).
 - All Generator Step-up Transformers (GSUs) tied to Modeled Assets participating in the Real-Time Energy Market (regardless of voltage) deemed necessary for the PSM. Individual GSUs for wind and solar farms may be exempted by ISO.
 - Lower voltage equipment may be required when necessary for modeling or market needs.
 - Data requirements depend on equipment type and may include, but not be limited to-
 - Impedance, ratings, reactive capability, voltage schedules, voltage rating, tap range, manufacturer’s nameplate document , test report and control scheme documentation.
 - Equipment and data requirements are defined in OP16 Appendices A, B, C, D, G, H and I.

Operational Studies

- **System Impact Study vs. As-Purchased, As-Built Data, and As-Tested**
 - System Impact Studies (As-Studied)- **Planning/Interconnection**
 - Data model (V.1)
 - Equipment, components (V.1)
 - Operational Studies (As-Purchased, As-Built, As-Tested)- **Technical/Real-Time**
 - Did the data model change (V.2, V.3)?
 - Did any equipment or component change (V.2, V.3)?
 - Auto-voltage Regulator (AVR)? Power System Stabilizer (PSS)? Other control mechanisms?
 - Was a component added that was not part of the study?
 - Was a component removed that was not part of the study?
 - Dynamics Data Management System (DDMS)
 - Dynamic models provided to ISO-NE via DDMS for review, comparison and analysis
 - Accessed via the SMD portal
 - Submittals inclusive of final As-Studied data, As-Purchased data, As-Built data, and As-Tested data
 - **Inform ISO-NE and TO of any changes as soon as possible**
 - **Operational limitations may be imposed**



A significant delay may be incurred if:
As Studied \neq As Purchased \neq As Built \neq As Tested = Material Modification Determination

Dispatch Communication

Telemetry and Communication Requirements

- **Metering and Telemetering Criteria**

- Review Transmission Owner (TO) requirements
- Review Local Control Center (LCC) requirements
- See ISO-NE Operating Procedure (OP) 14 and (OP) 18
 - Electronic Dispatch Capability (EDC)
 - Review ISO-NE requirements
 - » Remote Terminal Unit (RTU)- directly connected to ISO-NE
 - » Market and reliability parameters
 - » See OP 18, Appendix F- ISO Communication Front End (CFE) Interface Specifications
 - » Complete the ISO-NE Electronic Dispatch- Circuit and Router Form (request from ISO-NE)
 - » Complete the ISO-NE Electronic Dispatch- RTU Information Form (request from ISO-NE)
 - **The electronic dispatch circuit and router must be ordered 90+ days in advance of the desired initial synchronization date**



Data circuit/router provisioning involves external service vendors and external scheduling

Dispatch Communication

Telemetry and Communication Requirements

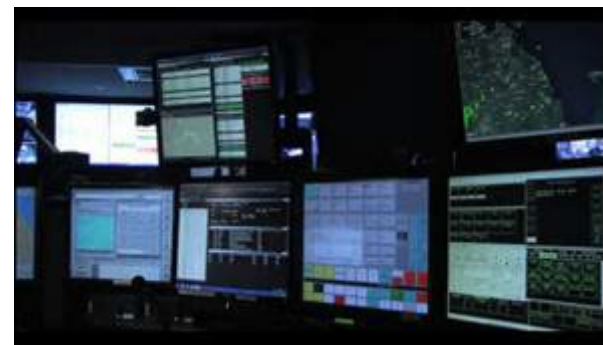
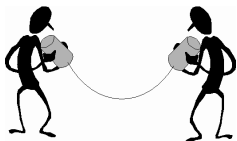
- **Data communication: Electronic Dispatch circuits/router (as applicable)**
 - The project sponsor must identify where applicable data communication equipment will be located as soon as possible.
 - The two options, place on an existing ISO-NE directly connected RTU or build out a NEW RTU
 - A NEW ISO-NE directly connected RTU may have long lead times
 - ISO-NE will coordinate with the project sponsor and the Local Exchange Carrier (LEC).
 - The LEC will conduct a site review to determine if there are **special requirements** for communication infrastructure inclusive of hardwire and wireless set-up.
 - The Lead Market Participant is responsible for any one-time installation costs and recurring monthly charges.
 - If the LEC determines there are **special requirements**, then the Lead Market Participant must work directly with the LEC to get the site service capable.
 - Special equipment or construction efforts may be required which may involve long lead times for delivery and can affect project deadlines.
 - The Lead Market Participant is responsible for coordinating this effort and will be responsible any additional charges.
 - **Once the site is service capable**, ISO-NE will proceed with the order for the data communication circuits and associated equipment.



Dispatch Communication

Telemetry and Communication Requirements

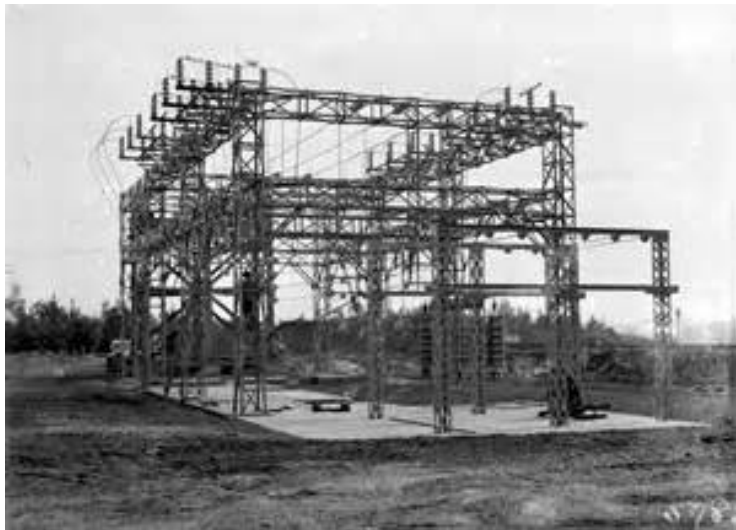
- **Designated Entity (DE) Dispatch Location**
 - The Lead Participant identifies the Designated Entity (DE)
 - The DE will have a dispatch location that receives dispatch communications from ISO-NE
 - The DE should have situational awareness and control as well as understand the generator schedules (supply offers) submitted by the Lead Participant
 - Must be registered and validated before initial synchronization
 - The DE Dispatch Location must be available 24/7/365
 - The DE Dispatch Location can be at the generating facility or located remotely
 - The DE Dispatch Location must maintain situational awareness for the Modeled Asset
 - Inclusive of generator operations and schedules
 - The DE Dispatch Location must be able to acknowledge ISO-NE instructions received on the ISO-NE directly connected RTU and respond/act accordingly
 - **New DE Dispatch Location registration takes time to set-up**
 - **90 days advance notice required**



In-Service

Facilities back-feed power

- Soaking of equipment related to the new facility
- Construction load
- Station load
- Approved by the Transmission Owner (TO)



Permission for In-Service is largely between the Transmission Owner (TO) and the project.

NOTE: For all 3 party Interconnections, the Interconnection Agreement will explicitly state the In-Service date and this timeline should be adhered to based on this legally binding agreement.

Initial Synchronization

Commissioning, Test Power (Non-Commercial Operations)

- **Modeled Asset represented in the ISO-NE Power System Model**
- **Approvals received**
 - Interconnecting Utility
 - Meter Reader, if different than Host Participant
 - Local Control Center
 - ISO-NE
- **Designated Entity (DE) registered/validated**
 - Dispatch Location, contact information confirmed
 - Dispatch communication established
 - Electronic Dispatch Capable tested and approved
 - Verbal (dedicated bell line required; Auto Ring Down circuit as applicable)
 - Situational awareness confirmed (generator visibility)
- **Registration/Technical data is in good order**



Initial Synchronization

Commissioning, Test Power (Non-Commercial Operations)

- **Any required Operational Guides published if applicable**
- **Test plan provided to ISO-NE including any required ISO tests such as**
 - AVR Testing
 - VAR Capability Testing
 - Frequency Control (Governor Response) Testing
- **Trial operations (test power)**
 - Commissioning
 - MW output
 - Settlement (Yes)
 - Production schedule (test plan) submitted daily
 - ISO-NE Forecast Desk/Control Room
- **Begin to prepare eMarket for the eventual COD**
 - Bid parameters, priced offer schedules, ...etc.

Initial Synchronization

Commissioning, Test Power (Non-Commercial Operations)

- **Modeled Asset: Scheduling (Day-Ahead availability)**
 - eMarket (Unavailable: Unit Default Parameters)
 - Non-commercial communications protocol

The screenshot displays the 'eMarket User Interface' for ISO New England. The page title is 'Unit Daily Default Parameters'. The interface includes a navigation menu with options like 'Private Messages', 'Unit Default Parameters', 'Portfolio Manager', 'Ramp Rate Default', 'Schedule Manager', 'Schedule Detail Defaults', 'Schedule Offers Default', 'Schedule Offers Hourly Updates', 'Schedule Firmes Hourly Updates', 'Schedule Selection', 'Hourly Updates', 'Fuel Price Adjustments', 'Generation By Portfolio', and 'XML Download'. The main content area contains a form for 'Unit Details' with fields for 'Asset ID', 'Unit Short Name', 'Unit Long Name', 'Type of Unit', 'Ramp Rate (MW/Min)', 'Ramp Rate Cap', 'Claim 10 Capable', 'Claim 10 (MW)', 'Claim 10 Cap', 'Claim 30 Capable', 'Claim 30 (MW)', and 'Claim 30 Cap'. There are also fields for 'Lead Participant ID', 'Lead Participant Name', 'DA Schedule Required', and 'Regulation Resource'. A 'Default Status' section has radio buttons for 'Economic', 'Unavailable', and 'Must Run'. The date is set to '22 Jan 2016' and the unit is selected from a dropdown menu.

During initial synchronization (test power, non-commercial operations), the unit default offer schedules must be marked UNAVAILABLE.

The eMarket application data translates into the ISO-NE Control Room databases as Unit Commitment Mode (UCM) 1- Offline and unavailable for dispatch. This UCM designation informs an ISO-NE Operator that unit cannot be dispatched on-line by ISO-NE. However, the Lead Participant for the generator must provide as much notice as possible for any test power which will be self scheduled.

Commercial Operation

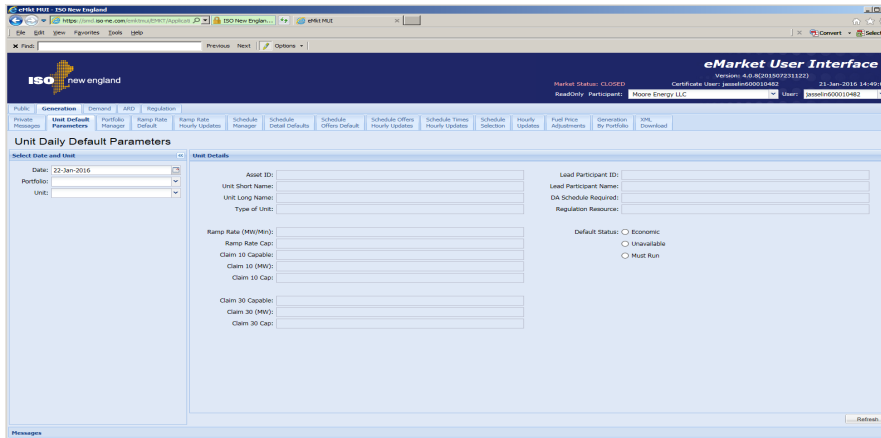
Available for dispatch

- **Approvals received**
 - ISO-NE determines when all applicable requirements are met
 - ISO-NE Operational studies in good order
 - As-Studied, As-Purchased, As-Built, As-Tested in good order
 - Registration/Technical data in good order
 - Data communications in good order
 - Designated Entity in good order
 - Web services in good order (applicable to wind and solar units)
 - Other issues as deemed necessary in good order
- **Commissioning is in good order**
 - Lead Participant/project sponsor validation
- **Commercial Operation**
 - Lead Participant designation
 - Lead Participant submits notification to ISO-NE (New Modeled Asset Coordinator)
 - Unit marked as 'Available' in eMarket
 - Lead Participant is now expected to make economic submittals in eMarket

Commercial Operation

Available for dispatch

- **Modeled Asset: Scheduling (Day-Ahead and/or Real-Time)**
 - **eMarket (Available: Unit Default Parameters)**



During Non-Commercial Testing (test power, non-commercial operations), the Lead Market Participant should have prepared eMarket for Commercial Operation.

eMarket data translates into the ISO-NE Control Room databases with the appropriate Unit Commitment Mode (UCM) that identifies that the unit is available for dispatch (economic or self-scheduled). This UCM designation informs an ISO-NE Operator that the unit can be dispatched by ISO-NE from either an off-line or on-line state.

As with initial synchronization, the DE must contact ISO-NE after normal business hours and into real-time, if there are any anticipated variations to the production schedule as submitted by the Lead Participant in the eMarket application.

Appendix: Resources, Documents, Links

Additional Information

- Asset Registration webpage
 - [Asset Registration](#)
 - [Generator Asset Registration Options Checklist](#)
- ISO-NE Transmission, Markets, and Services Tariff
 - <https://www.iso-ne.com/participate/rules-procedures/tariff>
- New Participant Registration (2-4 month process)
 - <https://www.iso-ne.com/participate/applications-status-changes/new-registration/registration-checklist>
- ISO-NE Planning Procedures (PP05-0, PP05-1)
 - <https://www.iso-ne.com/participate/rules-procedures/planning-procedures>
- ISO-NE Manuals
 - [Manuals - ISO New England](#)

Appendix: Resources, Documents, Links

Additional Information

- ISO-NE Operating Procedures (12, 14, 16, and 18)
 - [OP-12](#)
 - [OP-14](#)
 - [OP-16](#)
 - [OP-18](#)
- Forward Capacity Market
 - [Forward Capacity Market](#)
- Contact
 - ISO-NE Asset Registration and New Generation Coordination (New Modeled Asset Coordinator)
 - NewGenCoord@iso-ne.com
 - ISO-NE Participant Support
 - 413-540-4220
 - AskISO via AskISO@iso-ne.com