## Revision History

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1. Introduction
New Resource Implementation (NRI) is the project management process required to implement all new and converting generation into the California ISO market. The New Resource Implementation team receives three main types of generation projects: new CAISO grid connected, new distribution level connected, and Qualifying Facility (QF) conversions. After an interconnection agreement is executed, NRI project managers guide generation owners through the various requirements related to regulatory contracts, metering, telemetry, and network modeling in order to grant final approval to synchronize to the grid and to declare commercial operations.

2. Purpose of User Guide
This user guide gives an overview of the New Resource Implementation process and describes, in detail, how to use the Resource Interconnection Management System - Generation (RIMS-GEN) application. This document will help the Interconnection Customer (IC) and Participating Transmission Owner (PTO) to understand how to upload and download tariff-mandated documents, check the status, and decipher error and warning messages related to the generation project status.

3. New Resource Implementation Timeline

Please see the New Resource Implementation Timeline Overview to get an understanding of the NRI process and important milestone dates.

4. RIMS-GEN Gen Access and Permissions
You will need to designate one or more Points of Contacts (POCs) to manage the process of requesting user access to ISO applications. All requests for RIMS-GEN Gen application access, removal and revocation must be submitted by their authorized Point of Contact. This guide provides a step-by-step summary of POC processes and responsibilities.

To add additional users to RIMS-GEN for a specific project, the POC must submit an external Application Access Request Form to CAISO.

5. Launching the Market Participant Homepage
Type the following URL into the address field of your internet browser:
https://portal.caiso.com

Since this is a secure site you will need to have a certificate loaded on your computer before access is allowed. See 'RIMS-GEN Access and Permissions' above for more information about certificates. If the certificate is valid you will see the "Choose a digital certificate" window pop-up in your browser. Select your certificate and press "OK" to continue.

After a successful login to the “Market Participant Portal” you will find a list of applications on the left of the screen. Choose RIMS-GEN by clicking on the appropriate icon.
6. RIMS-GEN Interface

Initial Assessment Dashboard

The Generation Initial Assessment Dashboard provides the user with a high level look at the Initial Assessments submitted for NRI approval and their current status. The gray bar at the top of the screen can be used to filter or search for a particular project or sets of projects based on specific criteria. You can view your Initial Assessment at any time by clicking on the "View" button on the desired project.

Create a New Project
Click on the "New Initial Assessment" button to create a new project request.

Initial Assessment Form
The Initial Assessment Form will provide CAISO’s New Resource Implementation (NRI) team with important information about your project. This information includes Project Details, Queue Number (if applicable), and the Interconnection Customer’s contact information.
Project Details Box
The purpose of this portion of the Initial Assessment Form is to get valuable information about the interconnection project.

Project Name - Please enter a name for the project.

Please note the CAISO naming convention standards:

The National Electric Reliability Council (NERC) expressed some concern to CAISO Operations that in recent disturbances there has been confusion between different entities over the names being used for generating units which were critical for system reliability under stressed conditions. In response, in early 2013 developed naming convention guidelines for project names in an effort to reduce this confusion.

Unacceptable Naming Conventions

- No company types (example: LLC, Inc)
- No duplications
- No megawatt values (MW)
Acceptable Naming Conventions

- No use of more than two digits
- No Roman numerals
- No acronyms unless identifying technology type (example: PV)
- No special characters
- No use of the word "Phase"
- No use of the word "Expansion"
- No "license plate" looking configurations (Dispatches must be able to easily call out/pronounce a resource name)

Acceptable Naming Conventions

- May include location
- May include technology type (example: wind, solar)
- Maximum of thirty characters due to CAISO system limitations

2. Project Type - Please choose from New, Repower, Conversion (Qualifying Facility), Pseudo-Tie, Dynamic Scheduling, Participating Load.

3. Prime Move Type - Please select the appropriate generation technology type.

4. Fuel Type - Please choose the appropriate fuel type from the list of choices.

5. Capacity - Please enter the nameplate generation megawatt capacity for the project. This value must match the Generator Resource Data Template (GRDT) and CAISO Regulatory Contract information submitted later in the New Resource Implementation process.

6. PTO Area - Please select the appropriate Participating Transmission Owner Area where the resource will be interconnecting.

7. Qualified Facility - Please select 'yes' if the resource is a Qualifying Facility or 'no' if it is not. For more information about the California Public Utilities Commission's Qualifying Facility Program please read about it [here](https://california-iso.com/programmes/qualifying-facility-program).

8. Synchronization Date - Please enter the desired initial synchronization date. This date represents the date upon which an electrical generating unit is initially synchronized and upon which Trial Operations begin. Please note that the New Resource Implementation process should begin no sooner than 210 days before the desired initial synchronization date in order for the resource to be included in the Full Network Model implementation process.

9. Commercial Operations Date - Please enter the desired Commercial Operations Date.

10. Conversion Date - If a Qualifying Facility, please enter the desired Conversion Date ONLY.

**IC Contact(s)**

Please select the Points of Contact (POCs) from the drop down list for the project you are submitting an Initial Assessment Form for. The contacts must have already completed the POC process described in the [Point of Contact Guide](https://california-iso.com/point-of-contact-guide). The Points of Contact will receive push notifications and have access to manage the project in the RIMS-GEN user interface.
**Queue Number**
A project will have a Queue number if the project was part of the Application and Study process and assigned a Queue Number during that stage.

**Submission to the ISO**
Once the Project Details information has been completed, IC Contacts have been associated and Queue Number is selected, press "SUBMIT" to send it to NRI for approval. If you need to come back to this form and add additional information later you may press "SAVE" to come back to it.

**Generation Project Dashboard**
The Project Dashboard lists all projects that a person is listed as a Point of Contact for. High level information is provided to differentiate between projects such as the ISO internal project number, MW capacity, and the Full Network Model Build number the project is included in. To view project specific information click "View".
The Bucket Dashboard provides you with a status of your project in terms of Bucket percentage completion. The approval deadlines for each Bucket are listed above the individual Bucket numbers. Deliverables must be submitted AND approved by this date. The dashboard can be interpreted as follows. Bucket 1 requires items to be completed for the MEA - Telemetry, Generation Project Manager, and MEA - Metering Checklists. Bucket 2 requires items to be completed for only MEA - Telemetry and MEA - Metering, and so on. To view a complete checklist, click "View" to the right of the desired checklist. This pop-up will show all the items that need to be completed and the corresponding Bucket they are due in and their status. A deliverable can have the status "In Progress" if it was submitted but needs revisions or "Complete" if no further action is necessary. The deliverable status will be "N/A" if it is not applicable to the project.
The Project Summary screen provides you with detailed information about the selected project. This information should be updated by the Interconnection Customer with the most up-to-date information as possible. Upon submission and approval of an Initial Assessment Form the Interconnection Customer has the responsibility to complete this section.
Project Information

- Point of Interconnection (POI)- Provide the address, substation, or nearest distribution line where the resource will interconnect.
- POI Voltage Level (kV)- Provide the voltage level for the Point of Interconnection
- Nearest Substation (60kV or greater)- Name of nearest substation that is 60kV or greater.
- Scheduling Coordinator- Provide Scheduling Coordinator ID, if known.
- Generation Project Description- Provide a detailed description of the project. This will assist NRI in steering you towards completing the proper steps to achieve your goal in participating in the CAISO market.

Generation Facility Information

- Address - Please insert the facility's address. If no street number is possible, include cross-streets.
- Control Room Phone#- Phone number for a person who is available 24/7 to be contacted by the ISO Control Room.

Project Dates

Please see the NRI Guide for help defining these terms.

- Synchronization Date
- Commercial Operation Date (COD)
- Conversion Date
- Scheduled Meter/Telemetry Test Date
- Contract COD
- Contract Conversion Date

Regulatory Contract Information

If there is any question about which contract to execute please submit your question in an email to RegulatoryContracts@caiso.com

- Contract Type (1)- Select the appropriate regulatory contract for the project
- DUNS Number- The Data Universal Numbering System (DUNS number) is proprietary means of identifying business entities on a location-specific basis.
- Company Name- Full legal company name
- Address- Company address

Primary Representative Information

Provide the contact primary information for the parties included in your regulatory contract(s).

Alternative Representative Information

Provide the contact alternate information for the parties included in your regulatory contract(s), if applicable.
Optional Programs:
Please choose the programs that the resource will participate in, if any. Descriptions of these programs can be found below.

- Participating Intermittent Resources (PIRP)- This program allows wind and solar resources to schedule energy into the real-time energy market without incurring imbalance charges when the delivered energy deviates from the scheduled amount. For more information, refer to the Business Practice Manual for Market Operations.
  
  http://www.caiso.com/Documents/Participating%20intermittent%20resources

- Station Power- The energy used to operate auxiliary equipment and other load that is directly related to the production of energy — can be converted from retail service to wholesale service.
  
  http://www.caiso.com/Documents/Station%20power%20program

- Use-Limited Resource- Resources that have operational or environmental restrictions that limit production hours but can operate for a minimum set of consecutive trading hours may be considered use-limited.
  
  http://www.caiso.com/Documents/Use-limited%20resources

- Multi-Stage Generation- Multi-stage generator modeling optimizes the commitment and dispatch of generating units that have multiple operating configurations.
  
  http://www.caiso.com/Documents/Multi-stage%20generation

- Resource Adequacy- Resource Adequacy (RA) is a mandatory planning and procurement process to ensure adequate resources to serve all customers in real time. The program requires that Load Serving Entities (LSEs) meet a Planning Reserve Margin for their obligations.
  

- Ancillary Services - Regulation, Spinning Reserve, Non-Spinning Reserve, Voltage Support and Black Start together with such other interconnected operation services as the California ISO may develop in cooperation with Market Participants to support the transmission of Energy from Generation resources to Loads while maintaining reliable operation of the California ISO Controlled Grid in accordance with WECC standards and Good Utility Practice.
  
  http://www.caiso.com/participate/Pages/MarketProducts/AncillaryServices/Default.aspx
Provides the Interconnection Customer information about the Full Network Model build they will be included in along with the Resource ID(s) associated with the project.
Provides the Interconnection Customer information about the Meter Device ID(s) associated with the project.
The Contacts tab provides you with the ability to correspond with internal CAISO personnel and/or Interconnection Customers related to the project. Users can choose the notification type.
View/Submit Documents

To submit a new document click on the edit button (pencil) in the document bar header. Click on "New Row" and enter the document name and status (final, draft, deleted). The document name shall comply with the New Resource Implementation naming conventions that can be found on both the NRI Guide and New Resource Implementation Checklist. Once this information is completed click on "Update". This will allow you to upload the document by clicking "Upload" on the right. Choose the appropriate file and click "Start Upload". Once the upload is complete the window will say, "Upload Successful". Close the window.

To view a document go to the "Document Versions' window and locate the desired document. Click "download" to view the document.
Exemptions

This is a view-only screen for Interconnection Customers. Meter Engineers will upload exemptions as applicable.
This is a view-only screen for Interconnection Customers. If a project is phased, NRI will fill in the appropriate information.
The Queue Numbers screen can be edited by the Interconnection Customer to list the appropriate CAISO queue number assigned by CAISO Queue Management. To add a queue number, locate the appropriate queue number on the lift. Highlight this number and click 'Add'.
The Comments screen is the central location for communication relating to a project. To add a new comment click the edit button (pencil) and add a new row. Enter the comment and press 'update'. 
**Signing Out of your RIMS-GEN Session**

To end your RIMS-GEN session, click on the log-out button located on the top of your screen.

If a user does not end their session this way and instead closes the browser tab they will need to go to File --> New Session or open a new browser.