New Resource Implementation

Andrew Brown, Sr. Resource Implementation Analyst
Christina Weiler, Resource Implementation Support Lead

March 3, 2021
Objectives

• New Resource Implementation (NRI) process
  • Getting started
  • Bucket Requirements
  • RIMS Reminders
  • Tips for success
  • Full Network Model Schedule
  • GRDT Updates

• Hybrid Resources
• NRI Hot Topics in 2021!
NRI Process

Andrew Brown, Sr. Resource Implementation Analyst
For some interconnection customers (IC), such as distribution connected and QF resources, New Resource Implementation (NRI) will be the first point of contact at the ISO.

New Resource Implementation ensures that a resource requirements are met before:

- Initial sync
- Commercial operations
- Qualified Facility conversions
Getting Started

New Resource Implementation process and requirements

This webpage contains the guidelines, deliverables and activities needed during the final 203 days of interconnection projects to successfully complete resource implementation to the ISO grid.

Getting started

1. Determine how to start a project at the ISO.
   Using the resource list below, determine how you will submit your project request to the ISO.

   Resource project types to be created through NRI:
   - Distributed Energy Resource (DERP)
   - SCME EIM onboarding
   - SCME EIM Updates
   - Existing resources converting from ISOME to SCME

   Use:
   - New Resource Implementation Quick Start Guide
   - Project Details Form

   All other project types to be created through RIMS:

   Use:
   - RIMS Quick Start Guide
   - RIMS Project Details Form
   - Create RIMS Project

2. Review New Resource Implementation Guide
   Follow the guide to ensure a smooth transition from bid to bid in the ISO markets

3. Review New Resource Implementation Checklist
   The checklist provides requirements based on project type.

If you have questions, please submit them either through the CIDT application or using the Contact Us form. If you have a project code, please include it (i.e., 190EN1234) in the Subject field in CIDT. If submitting your question(s) through Contact Us, please select "Other" from the subject drop down and include the project code, if you have one, in the Comment field.
Creating a project

The first step of the NRI process is to:

- Submit a Project Details Form through the [RIMS Public Site](#)

  Participate → Generation → New resource implementation → Create RIMS project

- Submit Project in advance of your estimated initial sync or Implementation date

- Once successfully submitted, your project will be assigned a NRI project code (i.e. 21GEN1234)

- You will need this project code to get access to your project in RIMS
2021 Full Network Model Schedule

• Submission Deadline
• Review Period
• Final Scope Published

<table>
<thead>
<tr>
<th>FNM Label</th>
<th>Customer Model Document Submission Deadline</th>
<th>ISO Publishes Final Scope</th>
<th>Production Deployment</th>
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</thead>
<tbody>
<tr>
<td>21M3_DB103</td>
<td>12/17/2020</td>
<td>1/7/2021</td>
<td>Week of 3/15/2021</td>
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<tr>
<td>21M6_DB105</td>
<td>3/11/2021</td>
<td>4/1/2021</td>
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<td>9/9/2021</td>
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# Bucket Requirements

## Bucket Items

### BUCKET 1
**10/08/2021**

<table>
<thead>
<tr>
<th>Bucket Item Name</th>
<th>Required?</th>
<th>File Accepted</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLD</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>IA</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>3LD</td>
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<td>No</td>
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<td>CommBlock</td>
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</tr>
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<td>RIGDetails</td>
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<td>No</td>
</tr>
<tr>
<td>DYNGEN</td>
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<td>No</td>
</tr>
<tr>
<td>PSLF</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>NetAppInfo</td>
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<td>No</td>
</tr>
<tr>
<td>TopoMap</td>
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<td>No</td>
</tr>
<tr>
<td>SiteInfo</td>
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### BUCKET 3
**12/01/2021**

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<tbody>
<tr>
<td>FinalGRDT</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>PIRPLOI</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>CECPreCert</td>
<td>Yes</td>
<td>No</td>
</tr>
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<td>ControlProtection</td>
<td>No</td>
<td>No</td>
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<tr>
<td>SCSSelection</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>SCAcceptance</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>24HourContact</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>CPSAgreement</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>ECNAgreement</td>
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### BUCKET 4
**12/21/2021**

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<th>Bucket Item Name</th>
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<tbody>
<tr>
<td>PTO Sync Approval</td>
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</table>

### BUCKET 5
**12/30/2021**

<table>
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<tr>
<td>PORCalc</td>
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<td>No</td>
</tr>
<tr>
<td>MSVS</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Final Control Protection</td>
<td>No</td>
<td>No</td>
</tr>
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</table>
GRDT Supporting Docs now required

• Supporting explanation is required with GRDT giving details of how the resources design capabilities were calculated (Section 4.6.4)

• Submit into RIMS in an excel format with the following file naming convention:
  
  Document Title: **GRDT Explanation**
  File naming ex: 21GEN1234 Final GRDT Explanation Ver1

  Document Title: **GRDT Supporting Docs**
  File naming ex: 21GEN1234 Final GRDT Supporting Doc Ver1
RIMS Reminders

• Keep project information current and accurate

• Bucket due dates are automatically enforced by the system

• Status of Bucket Items can be found under Bucket Notes and in the FNM Project emails

• Assigned Model Build can be found in the project view

• Sync/COD approval status can be monitored with the RIMS project view
Tips for success

• Review the NRI Guide and Checklist
• Review required project and file naming conventions
• Start the NRI process early and submit documents well before due dates
• Get access to your project in RIMS
  – UAARequests@caiso.com
• Read all email communications from RIMS
• Include your project code in all email inquiries
• Start/Update Agreements early
Hybrid Resources

Christina Weiler, Resource Implementation Support Lead
Hybrid Resources

• **Hybrid resource**: combination of multiple technologies or fuel sources combined into a single resource with a single point of interconnection

• Hybrid Resources Initiative
  
  [http://www.caiso.com/StakeholderProcesses/Hybrid-resources](http://www.caiso.com/StakeholderProcesses/Hybrid-resources)
Hybrid Resources Initiative

Hybrid Phase 1 = Co-Located resources
   - Deployed Fall of 2020
   - Aggregate capability constraint/ Co-located Resources

Hybrid Phase 2 = Hybrid functionality
   - Targeting for October 2021 *subject to change
   - Currently Hybrids can participate as a Battery Storage
   - VER MW are required via telemetry
Co-Located vs Hybrid

- POI Limit = 100 MW’s
Hybrid Resources

- NRI Process Updates
- Checklist
- Updated Site Info Sheet (*Solar & Wind*)

<table>
<thead>
<tr>
<th>Section below is regarding Hybrid Resources only.</th>
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<table>
<thead>
<tr>
<th>If Hybrid please state:</th>
<th>Nameplate capacity of solar component:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW Point of Interconnection (POI) Agreement:</td>
<td>Nameplate capacity of battery:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solar Component Forecast:</th>
</tr>
</thead>
</table>

Note: “See topographical map” is not acceptable statement on this Solar Site Information sheet.

Plant Location

- Use as many points as necessary to describe the site (Use WGS84 only)

<table>
<thead>
<tr>
<th>Corner #1</th>
<th>Corner #2</th>
<th>Corner #3</th>
<th>Corner #4</th>
</tr>
</thead>
</table>

ISO Public
NRI Hot Topics - 2021

Christina Weiler, Resource Implementation Support Lead
Hot Topic- RIMS Enhancements Phase 2

- New Enhancements for 2021
- Bucket Dates will align with FNM Database Release Schedule
- RIMS User Interface Updates
Hot Topic- FERC841 and IPE Enhancement

**IPE**
- New Bucket 3 Requirement

**FERC 841**
- New Project type “Storage” in Project Details Form
- New checkbox for 3 Party Sharing Generation interconnection

- New Project Details form (V12) posted
- Updated NRI Guide and Checklist posted
Resources: NRI Webpage, Checklist, and Guide

- New Resource Implementation webpage:

- NRI Checklist:

- NRI Guide:

- Hybrid Initiative
  http://www.caiso.com/StakeholderProcesses/Hybrid-resources

- 2021 Full Network Model Schedule
Questions?