Market Participant User Guide

Customer Interface for Resource Adequacy (CIRA)

Version 5.9

Last Revised: April 22, 2024

REVISION HISTORY

VERSION NO. (Must match header)	DATE	REVISED BY	DESCRIPTION
5.1	11/6/2019	Nancy Strouse	Updated Sections 8.1, 8.3, and 8.4 to reflect UI changes
5.2	7/7/2021	Diana Attisani	Updated section 2.0 Roles and Access levels
5.3	7/21/2021	Rashele Wiltzius	Updated the first paragraph of section 5.3 to reflect correct submission timeline
5.4	12/6/2022	Radha Madrigal	Updated typo in section 2 Roles and Access levels. Updated verbiage in section 3.4.1 RA Plan Template and 3.4.2 Supply Plan Template. Added section 3.9 Flexible Capacity Survey Files, section 3.10 Flexible RA Obligation Support Files, and section 3.11 Flexible RA Obligation Allocation. Updated verbiage in section 4.4 Planned Outage Substitution Obligation. Added section 5.1 Export Resource Curtailment Allocation. Added note re: third party contact info to section 5.2.1 Create. Rearranged order of section 8 Reports and added Credits Report and Acquired Contracts. Edited paragraph formatting throughout the document. Updated screenshots containing new menu selections.
5.5	12/27/2022	Radha Madrigal	Updated section 4.4 to reflect replacement of the POSO process with the RASC process; In addition, replaced references to POSO with RASC in Section 1 Introduction, Section 2 Roles and Access Levels, Section 4 RA Validation, Section 5 Substitutions, and Section 5.3.1 Create.
5.6	08/16/2023	Monica M.	Updated section 3.12 to reflect the changes for the Maximum Import Capability (MIC) Enhancements for Fall Release 2023: - New process for submitting Unassigned Import Capability - New screens under the Plans tab (SC Request Unassigned Import Capability, Reserved Import Capability, and Contact Information) - One new report (Import Capability RA Report)
5.7	10/25/2023	Dottie V.	Added information under section 7.2 for if no resources or CSP offer details appear after

			clicking the View and/or Load buttons and a user sees a message that states “No offers found the selected criteria.”
5.8	03/05/2024	Dottie V.	Added new section “Native Load Needs (NLN).” Updated corresponding screenshots.
5.9	04/22/2024	Dottie V.	Update Manage Import Allocation section to correlate with the OFI CIRA Enhancement.

1 Introduction

The Customer Interface for Resource Adequacy (CIRA) application is an external user interface that accommodates the functionality to manage ISO's resource adequacy needs. Providing an external user interface allows Scheduling Coordinators (SCs) to submit their annual and monthly Supply and Resource Adequacy (RA) Plans, obtain reports on errors/warnings/delays/missing plans, resubmit corrected Supply and RA Plans, view submission processing status, view and download their previously accepted plans, and upload the changes back through the application. CIRA gives the capability for Scheduling Coordinators (SCs) and Load Serving Entities (LSEs) to provide their generic and flexible RA capacity information to ISO using their Supply and RA Plans.

CIRA provides the mechanism to support scheduling coordinators (SCs) to perform substitutions on RA and CPM resources for both RASC assigned planned outages and approved forced outages, with any resource that has eligible non RA capacity for the substitution period.

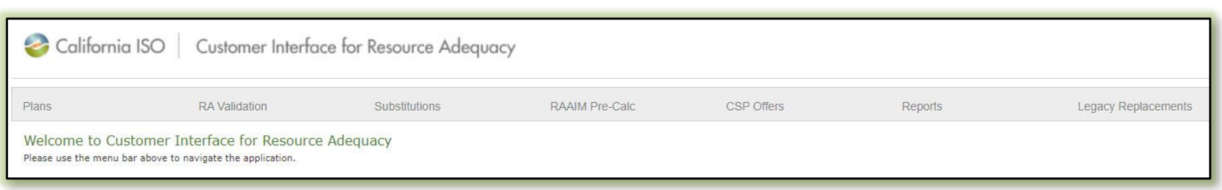
CIRA also supports bilateral trades of import capability between SCs within a branch group. SCs can view import allocation data and submit bilateral trades.

Through CIRA, SCs can submit NQC requests, view NQC reports, and download the NQC templates previously submitted.

SCs can also create, submit, and view Competitive Solicitation Process (CSP) offers.

LSEs can check their monthly and annual Generic and Flex obligation in CIRA. LSEs and SCs can also view details of the RA submitted for their resources for a compliance month or a shorter duration.

The CIRA application will be accessible via the Market Participant Portal by clicking the **CIRA** icon. New users should request access to CIRA by submitting an Application Access Request Form (AARF) to the ISO help desk at HelpDesk@caiso.com.



2 Roles and Access Levels

CIRA Access and Permissions	
CIRA Access Levels	**Access Level Description**
EXTERNAL RA READ ONLY (app_cira_ro)	Permission to read the RA Plans, Supply Plans, NQC, Import Allocations, Validation Results, RA Reports, Obligation Reports, Review Forced Substitution, and historic Replacements
EXTERNAL RA READ-WRITE (app_cira_sc)	Permission to read, upload, and maintain data in the RA Plans, Supply Plans, NQC, Import Allocations, and Forced Substitution. Permission to read Validation Results, RA Reports, Obligation Reports, and historic Replacements
EXTERNAL OFFER READ-ONLY (app_cira_bid_read_ext)	Permission to read CSP offers data
EXTERNAL OFFER READ-WRITE (app_cira_bid_write_ext)	Permission to submit CSP offers and maintain data
CALIFORNIA ENERGY COMMISSION (app_cira_cec)	Permission to upload and view peak demand obligation
EXTERNAL SUPPLIER READ (app_cira_supplier_read_ext)	Permission to read Outage Analysis reports, Resource Adequacy Substitute Capacity (RASC) assignments, and review Planned Substitution
EXTERNAL SUPPLIER WRITE (app_cira_supplier_write_ext)	Permission to read Outage Analysis Reports, Resource Adequacy Substitute Capacity (RASC) assignments, create and maintain Planned Substitution
EXTERNAL LRA READ-ONLY (app_cira_lra_read_ext)	Permission to read Peak Demand, LCR by TAC and Flex credits, Generic and Flex Obligations
EXTERNAL LRA WRITE (app_cira_lra_write_ext)	Permission to read Peak Demand, LCR by TAC and Flex credits, Generic and Flex Obligations (at this time the upload functionality for the LRA write role is disabled)

3 Plans

3.1 RA Showings

The ISO Resource Adequacy is made up of three criteria:

- The Local Capacity Requirements (LCR)
- The Peak Demand and Reserve Margin Requirements
- Flexible RA Capacity Requirements

The LCR is an annual number that is used for each month. The Peak Demand and Reserve Margin Requirement varies monthly and is applicable to the ISO Balancing Authority Area (BAA). The Flexible RA Capacity Requirement also varies by month. These three requirements are the base of the Resource Adequacy program. There are two categories of market participants that meet these requirements:

- Load (Resource Adequacy Plan)
- Generation (Supply Plan)

3.2 Resource Adequacy (RA) Plans

RA Plans identify the specific resources that the Load Serving Entity (LSE) is relying on to satisfy its forecasted monthly Peak Demand and Reserve Margin for the relevant reporting period. For Load Serving Entity, the Resource Adequacy Plans must be submitted pursuant to the schedule set forth in Exhibit A-2 of the Reliability Requirements BPM.

3.3 Supply Plans

Supply Plans are an integral element in the resource adequacy process as they represent the primary means of informing ISO of the capacity that is designated for the resource adequacy purposes for a specified month or year. Supply Plans are essentially a verification and confirmation by Scheduling Coordinators for Resource Adequacy Capacity of the information contained in Resource Adequacy Plans submitted by Scheduling Coordinators for LSEs. The Supply Plan confirms that a Scheduling Coordinator is committed to scheduling and/or Bidding the Resource Adequacy Capacity that has been reported to ISO. The Supply Plan establishes the formal business commitment between the ISO and Resource Adequacy Resources by confirming the status of the resource as Resource Adequacy resource. For suppliers, the Resource Adequacy Plans must be submitted pursuant to the schedule set forth in Exhibit A-2 of the Reliability Requirements BPM.

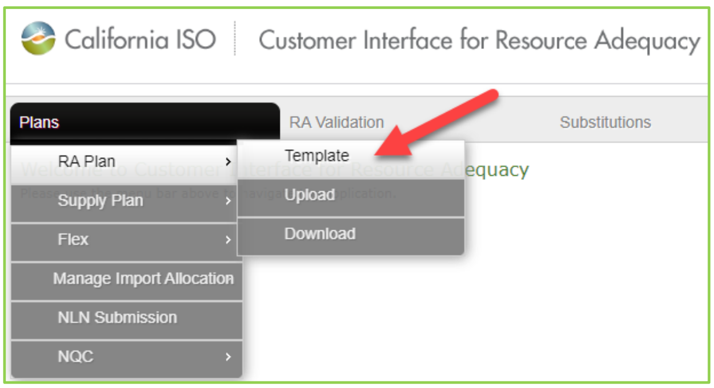
3.4 Templates

3.4.1 RA Plan Template

There are two ways to access the RA Plan template:

1. Download the RA template from the ISO website.
2. Use CIRA to download the template.

Steps:
1. Navigate to **Plans**.
2. Select **RA Plan**.
3. Select **Template** to download the RA template.



3.4.1.1 Fill out RA Template

Complete these worksheets in the RA template:

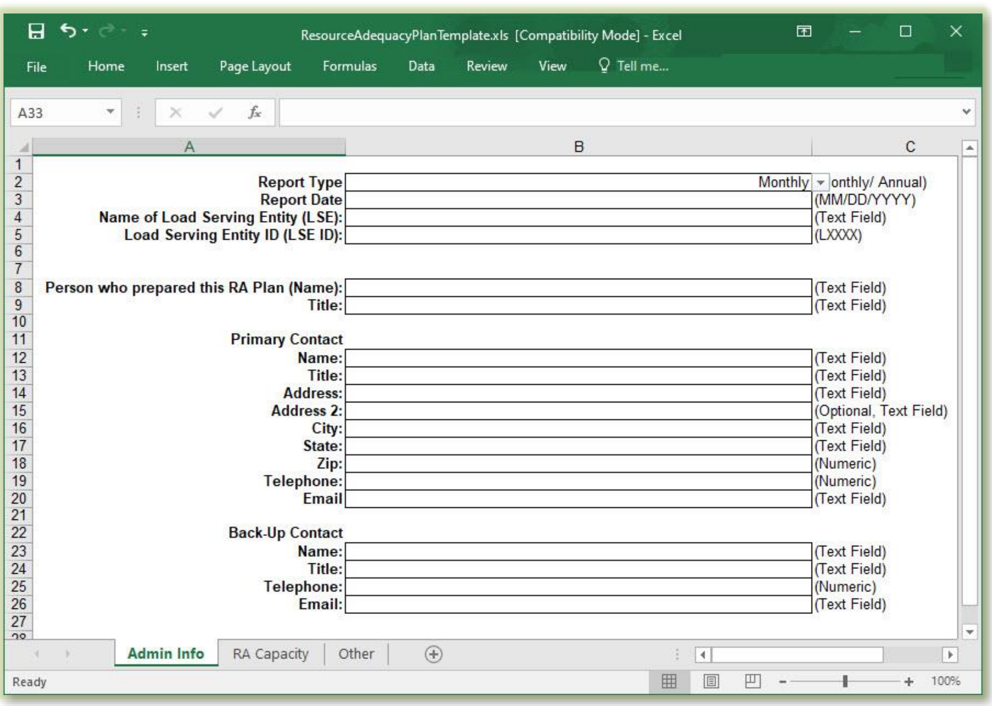
Admin Info

The ISO uses a single template to collect its Annual and Monthly RA submissions. Data for all months is populated in this template for the annual RA submissions. On the Admin Info worksheet, after clicking the **Report Type** field, select **Annual** for annual plans and **Monthly** for monthly plans. Fill in the other fields with the required information.

All fields are required. Under the **Admin Info** tab complete the following fields:

- Report Type
  - From the drop down menu, select **Annual** for annual plans or **Monthly** for monthly plans.
- Report Date

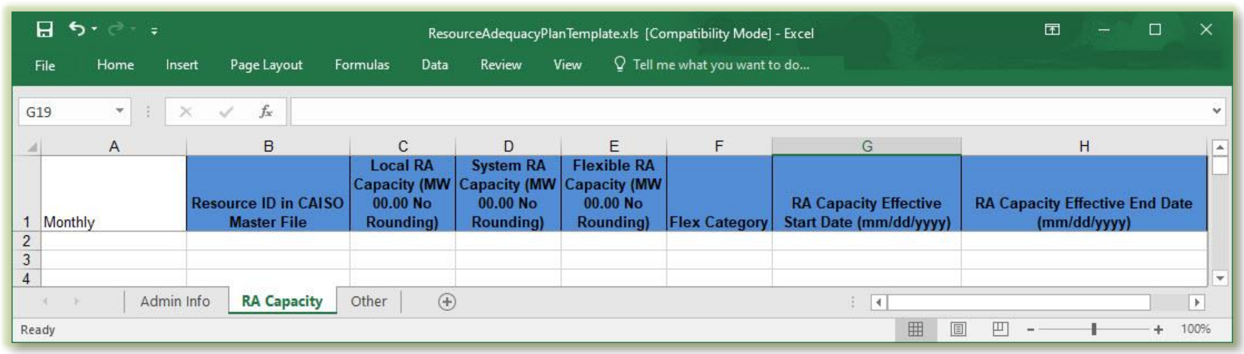
  - For monthly submissions, the Report Date must be the first date of the month for which the plan is being submitted (e.g., "01/01/2016" for January, "02/01/2016" for February). For annual submissions, the Report Date must be the first date of the year for which the plan is being submitted (e.g., "01/01/2016" for 2016).
- Name of Load Serving Entity (LSE)
  - Enter a valid LSE name
- Load Serving Entity ID (LSE ID)
  - Enter a valid LSE ID
- Person who prepared this RA Plan (Name)
- Title
  - Title of the person who prepared this RA Plan
- Primary Contact
  - Name, title, address, telephone number, and e-mail address of the primary contact person
- Back-Up Contact
  - Name, title, telephone number, and email address of the back-up contact person



RA Capacity

On the **RA Capacity** worksheet, complete the following required fields:

- Resource ID in ISO Master File
- Local RA Capacity (MW 00.00 No Rounding)
- System RA Capacity (MW 00.00 No Rounding)
- Flexible RA Capacity (MW 00.00 No Rounding)
- Flex Category
- RA Capacity Effective Start Date (mm/dd/yyyy)
- RA Capacity Effective End Date (mm/dd/yyyy)



Usage Tips:

- Users can submit generic RA (local and system) and Flex RA for a resource for the compliance month in a single row.
- The effective start and end dates are in a date format. Any time component provided here will be ignored.
- RA for ITIEs and TGs can be a subset of days within the compliance month but take care to sync up the date range between the RA and Supply plans so it passes system validation. For better performance and faster validation, users can provide a date range for the RA rather than a record for each day with RA in the compliance month.

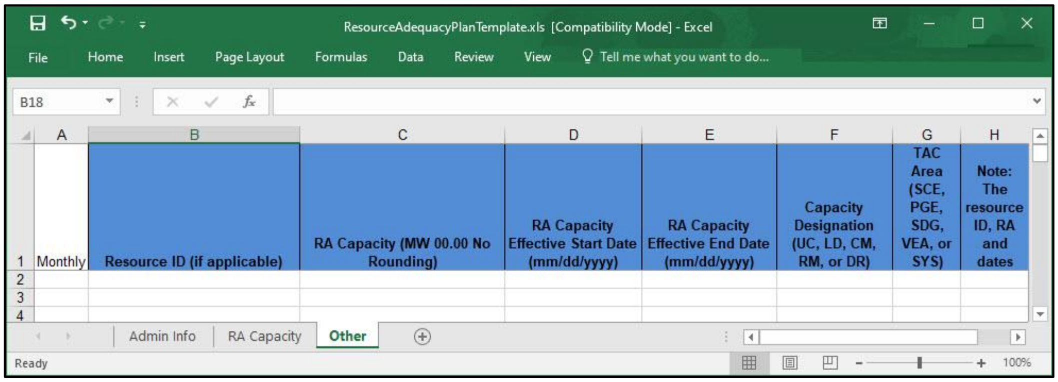
Other

On the **Other** worksheet, complete the following required fields:

- Resource ID (if applicable)
- RA Capacity (MW 00.00 No Rounding)
- RA Capacity Effective Start Date (mm/dd/yyyy)
- RA Capacity Effective End Date (mm/dd/yyyy)
- Capacity Designation (UC, LD, CM, RM, or DR)
    - UC = Under Construction
    - LD = Liquidated Damages
    - CM = Cost Allocation Mechanism

o RM = Reliability Must Run
o DR = Demand Response

- TAC Area (SCE, PGE, SDG, VEA, or SYS)



Usage Tip:

- If the Credit value in column C is non-zero then a valid date range, the credit type and TAC must be provided.

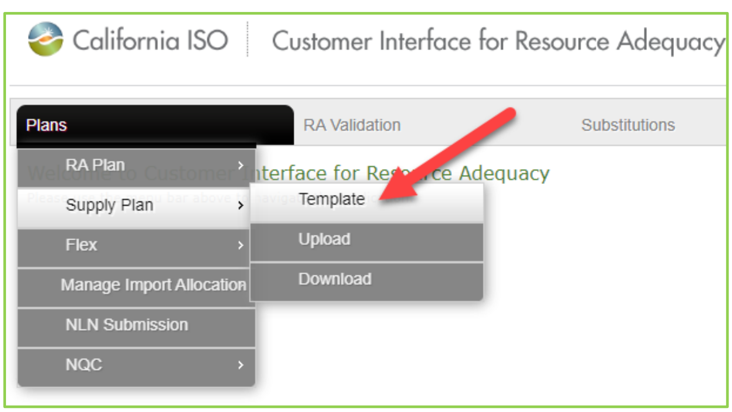
3.4.2 Supply Plan Template

There are two ways to access the supply template:

- Download the Supply Plan template from the ISO website.
- Use CIRA to download the template.

Steps:

1. Navigate to **Plans**.
2. Select **Supply Plan**.
3. Select **Template** to download the Supply Plan Template.



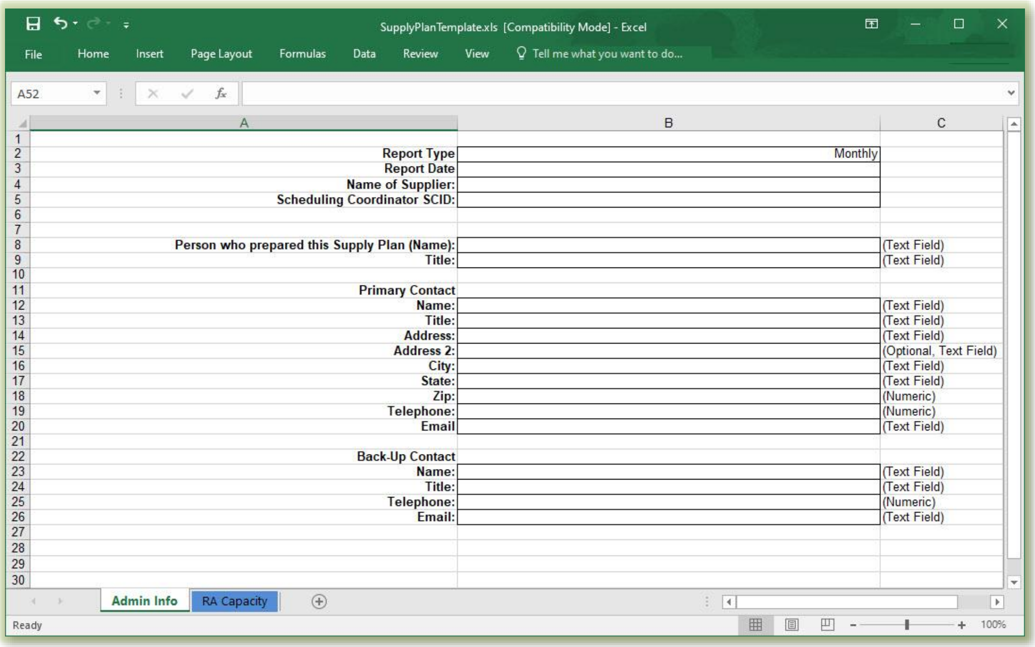
3.4.2.1 Fill out Supply Plan Template

Complete these worksheets in the template:

Admin Info

The ISO uses a single template to collect its annual and monthly supply showings. Fill in all fields with the required information.

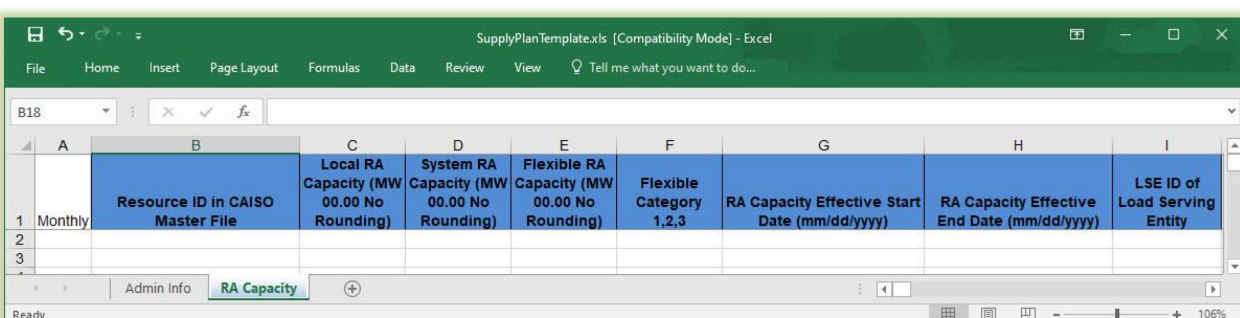
- Report Type
  - Select **Monthly** from the drop down menu for monthly submissions and **Annual** for annual submissions.
- Report Date
  - For monthly submissions, the Report Date must be the first date of the month for which the plan is being submitted (e.g., "01/01/2017" for January and "02/01/2017" for February). For annual submissions, the Report Date must be the first date of the year for which the plan is being submitted (e.g., "01/01/2017" for 2017).
- Name of Supplier
  - Enter a valid supplier name
- Scheduling Coordinator
  - Enter a valid SCID for the supplier
- Person who prepared this Supply Plan (Name)
  - Name of the person who prepared the plan
- Title
  - Title of the person who prepared the plan
- Primary Contact
  - Name, title, address, telephone number, and e-mail address of the primary contact person
- Back-Up Contact
  - Name, title, telephone number, and e-mail address of the back-up contact person



RA Capacity

On the **RA Capacity** worksheet, complete the following required fields:

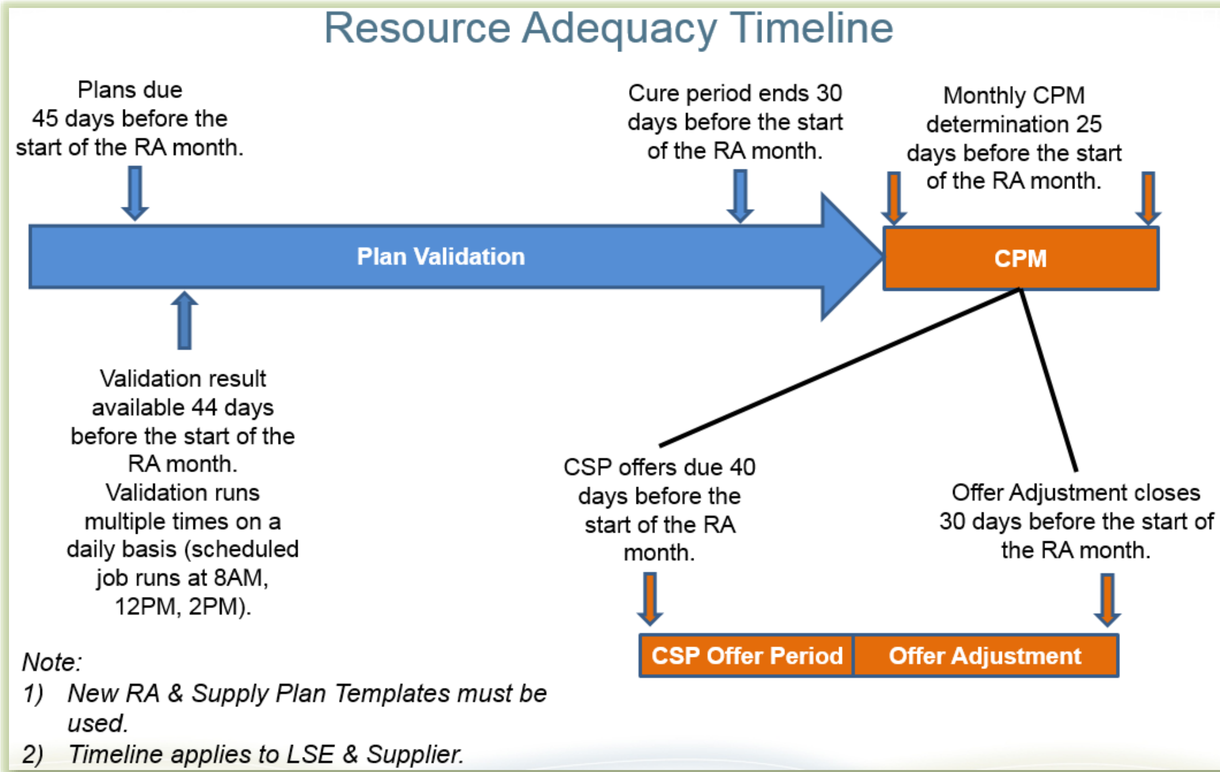
- Resource ID in ISO Master File
- Local RA Capacity (MW 00.00 No Rounding)
- System RA Capacity (MW 00.00 No Rounding)
- Flexible RA Capacity (MW 00.00 No Rounding
- Flexible Category 1, 2, 3
- RA Capacity Effective Start Date (mm/dd/yyyy)
- RA Capacity Effective End Date (mm/dd/yyyy)
- RA Capacity Effective End Date (mm/dd/yyyy)
- LSE ID of Load Serving Entity



Usage Tips:

- Users can submit generic RA (local and system) and Flex RA for a resource for the compliance month in a single row.
- The effective start and end dates are in a date format. Any time component provided here will be ignored.
- RA for ITIEs and TGs can be a subset of days within the compliance month but take care to sync up the date range between the RA and Supply plans so it passes system validation. For better performance and faster validation, users can provide a date range for the RA rather than a record for each day with RA in the compliance month.

3.5 Sequence of Events at a High Level



LSEs/Suppliers submit monthly RA/Supply Plans prior to the last day of the showings due date for the compliance month. The Showings Due Date is set to 45 days prior to the start of the compliance month for monthly RA, thereby requiring LSEs and SCs to submit their plans 45 days prior to the start of the compliance month. The due date is the last business day of October for the annual RA process. All plans must be submitted through CIRA.

On upload, the application will check for valid resource IDs, NQC, dates, information on the Admin tab, Other tab, PMAX, RA MWs, Peak Demand and LCR by TAC, and check the Flexible Category. If a plan passes validation on upload, the application will accept the plan and the status is set to validation in progress. LSEs and SCs should check the validation results to ensure that there are no errors. In case of an error, resubmission is required by the cure period cut-off at 30 days prior to the start of the compliance month.

If the LSE or supplier misses the deadline, SCs can still submit after the deadline and CIRA issues a warning. ISO will track these late submissions and SCs can resubmit the plan regardless of the plan status. Additional information regarding late submission is in the Reliability Requirements BPM.

CSP offers by suppliers are due 40 days before the start of the compliance month. Once the CSP offers are submitted, the SCs can adjust their offers until 30 days prior to the start of the compliance month. Refer to the [CSP calendar](#) for details.

At the end of the cure period, the ISO will validate all plans, finalize the RA capacity values for the compliance month and may issue a Capacity Procurement Mechanism (CPM) event starting 25 days before the start of the compliance month, if required.

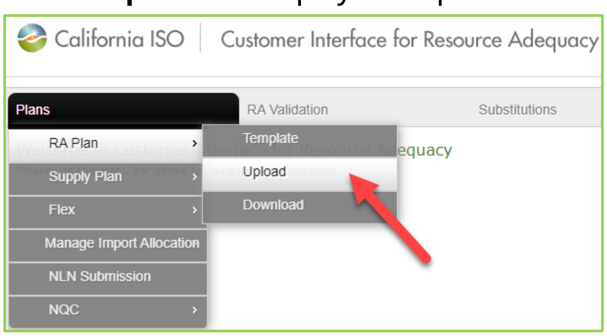
After the submittal deadline at 45 days prior to the start of the compliance month, the ISO will run Flex cross validation. If there are any errors for the Supplier or LSE, or a flex RA deficiency for the LSE, then the corresponding plan is set to Resubmittal Required and the LSEs/Suppliers can log in to CIRA to view all errors/ deficiencies. LSEs may choose to procure additional flexible RA capacity to cure Flex RA deficiencies. At the end of the cure period 30 days prior to the compliance month, the ISO will validate all plans and will finalize the flex RA capacity values for the compliance month by T-7 and may issue a Flex CPM, if required.

3.6 Submission of RA Plans

Market participants must use the CIRA application to submit RA Plans for the resource adequacy monthly or annual process. All plans are due by T-45 for the corresponding compliance month or prior to the last business day of October for the annual process.

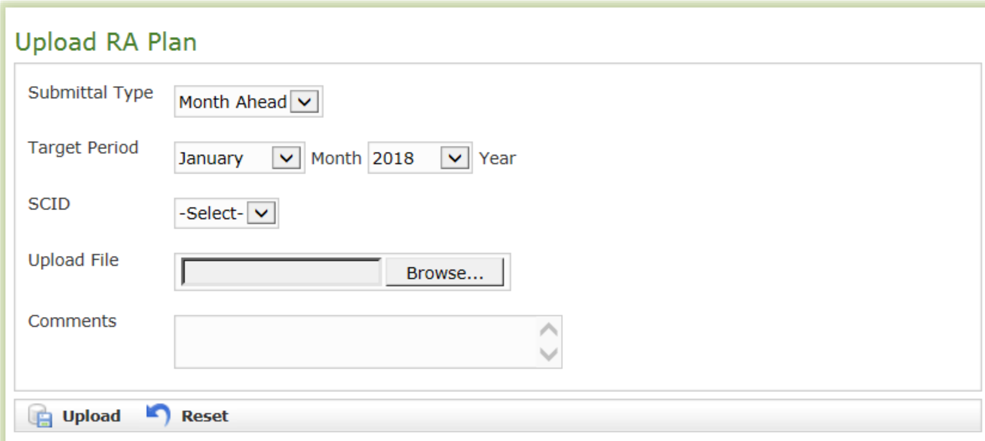
Steps:

1. Navigate to **Plans**.
2. Select **RA Plan**.
3. Select **Upload** to display the Upload screen.



4. Select the Submittal Type as **Monthly** for monthly and **Annual** for the annual process.
5. Select the **Target Period Month** (for monthly only) and **Year**.
6. Select the LSE **SCID**.
7. Click **Browse…** to locate the RA Plan to be uploaded.

8. Add Comments, if needed, to explain a late submission or other details about the submission.
9. Click **Upload** to submit the RA Plan.



3.6.1 Errors on Upload of RA Plan

Below is a list explaining error messages.

RA Capacity Tab

1. Two entries with the same resource ID, RA type, start and end dates will result in duplicate rows.
2. Resource ID used must be valid ISO master file resource ID.
3. Start and end date for RA Capacity for a physical resource should be the first and last day of the month.
    a. Example for physical resource – 04/01/2018 to 04/30/2018
4. ITIE and TGs can be a subset of days.
    a. Example for ITIE – 04/20/2018 to 04/23/2018
5. RA MW cannot be blank, cannot be zero, and must not exceed two decimal places.
    a. Blank is not allowed.
    b. 0 MW is not allowed.
    c. 0.99999999 (more than two decimal places) is not allowed.
6. If the user selects annual, then the start and end dates must be for the compliance year 2019.
7. Only a local resource within the ISO BAA can have a local showing.
8. When Flexible RA is a positive number, the Flexible Category must be a valid number.

Other Tab

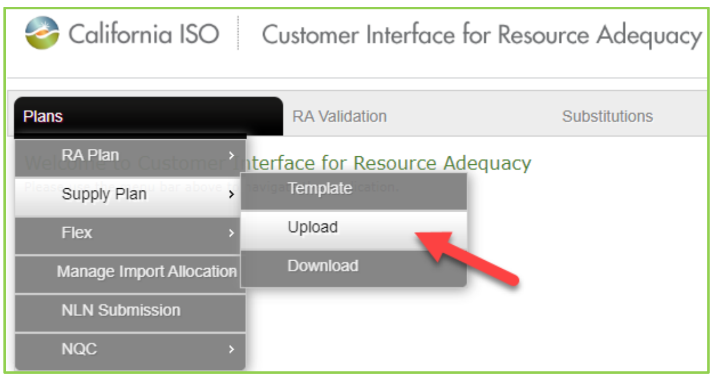
1. The start date for RA Capacity in the **Other** tab should be the first day of the month and LD.
2. The end date for RA Capacity in the **Other** tab should be the last day of the month and LD.
3. Designation in the **Other** tab cannot be blank. Every entry must have one of the following: RMR, CAM, DR, or LD.
4. TAC in the **Other** tab cannot be blank. Every entry must have one of the following: PGE, SCE, SDG, VEA, or SYS.

3.7 Submission of Supply Plans

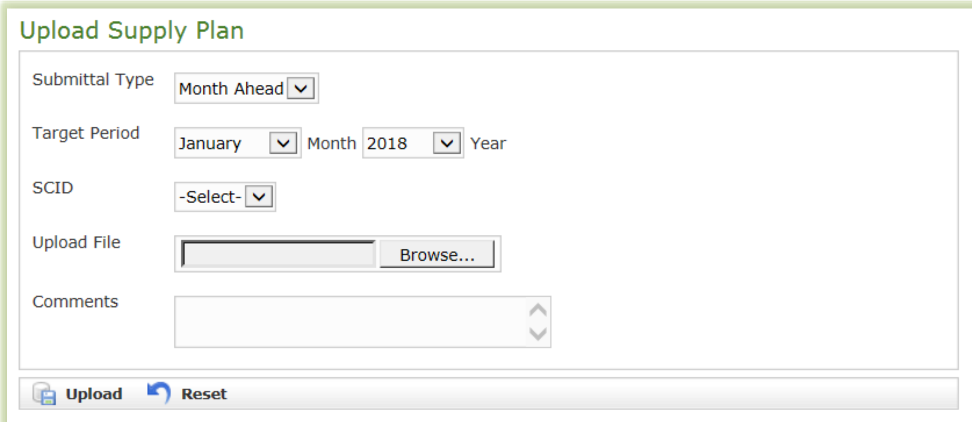
Market participants must use CIRA to submit Supply Plans for the resource adequacy monthly and annual processes. All plans are due by T-45 for the corresponding compliance month for the monthly process and by T-61 for the annual process.

Steps to submit a Supply Plan:

1. Navigate to **Plans**.
2. Select **Supply Plan**.
3. Select **Upload** to display the Upload screen.



4. Select the Submittal Type as **Monthly** (for monthly) and **Annual** (for annual)
5. Select the Target Period **Month** (for monthly) and **Year**.
6. Select the **SCID**.
7. Click **Browse…** to locate the Supply Plan to be uploaded.
8. Add Comments, if needed, to explain a late submission or other details about the submission.
9. Click **Upload** to submit the Supply Plan.



3.7.1 Errors on Upload of Supply Plan

Below is a list explaining error messages.

RA Capacity Tab

1. Two entries with the same resource ID, RA type, start, and end dates will result in duplicate rows.
2. Resource ID used must be a valid ISO master file resource ID.
3. The start and end date for RA Capacity for a physical resource should be the first and last day of the month.
   a. Example for a physical resource– 04/01/2018 to 04/30/2018
4. ITIE and TGs can be a subset of days.
   a. Example for ITIE – 04/20/2018 to 04/23/2018
5. The RA MW cannot be blank, cannot be zero, and must not exceed two decimal places.
   a. Blank is not allowed.
   b. 0 MW is not allowed.
   c. 0.99999999 (more than two decimal places) is not allowed.
6. If user selects **Annual**, then the start and end dates must be for the compliance year 2019.
7. Only a local resource within the ISO BAA can have a local showing.
8. When Flexible RA is a positive number, the Flexible Category must be a valid number.
9. The sum of Generic RA across all LSEs for a resource should not exceed its NQC/ PMax.
10. The sum of Flex RA across all LSEs for a resource should not exceed its EFC.
11. For ITIEs and TGs, the sum of Generic RA across all LSEs should not exceed the import allocation of the Branch Group.

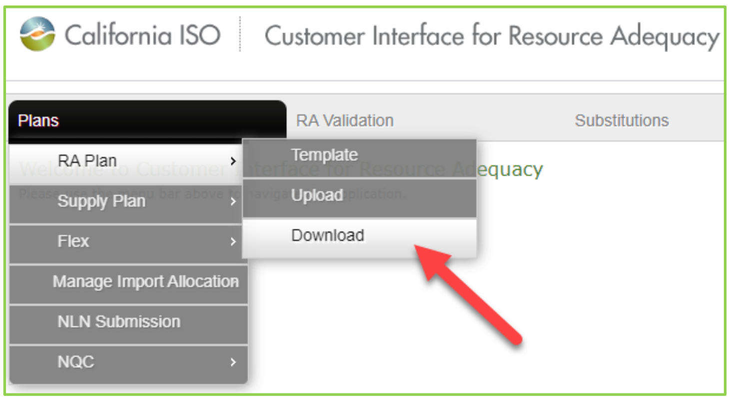
3.8 Download Plans

3.8.1 Download RA Plan

3.8.1.1 Download Submitted Plans

Steps to download the RA Plan:

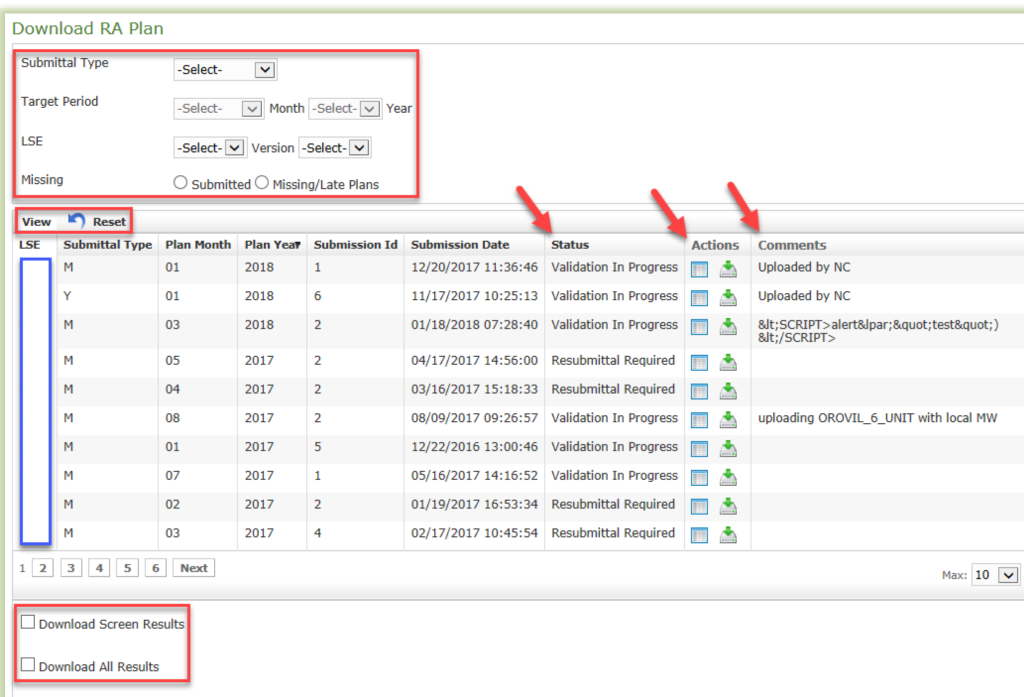
1. Navigate to **Plans**.
2. Select **RA Plan**.
3. Select **Download** to display the download screen.



4. Select the **Month Ahead** or **Year Ahead** Submittal type.
5. Select the Target Period **Month** and **Year**.
6. Select the LSE **SCID**.
7. Select **Version**.
    a. User can select **Latest** version submitted to ISO.
    b. User can select **Initial** version submitted to ISO.
    c. User can select **All** versions submitted to ISO.
8. Select Display Plans: **Submitted**, **Missing**, **or Late**.
9. Click **View** to view RA Plans.
10. Select **Download Screen Results** or **Download All Results**.

On the grid, the user will see the LSE SCID and Submittal Type. The Plan Month will show the month number in the **Month Ahead** view and the default is ‘01’ for Plan Month in **Year Ahead** view. The submission Id indicates the order of submission, with the highest submission Id being the most recent plan. The Submission Date indicates when the plan was submitted.

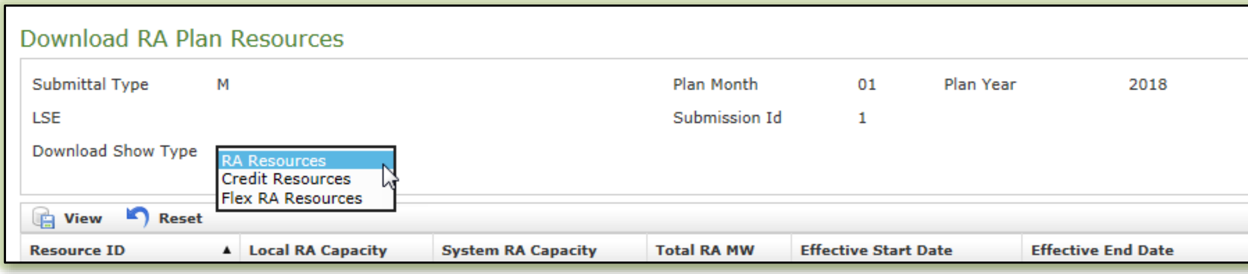
1. Status:
    a. Resubmittal required
        i. Error or deficiency associated with the plan and requires resubmission
    b. Validation in progress
        i. ISO working on validating the plan
    c. Closed
        i. The plan passed all validations and is considered final
2. Actions:
    a. Show details:
        i. Click Show Details on the left side of the Actions column to display the plan details for the RA Plan submittal.
            1. Download Show Type: Drop down can be used to view
                a. RA resources
                b. Credit resources
                c. Flex RA resources
            2. Click **View** to see the results.
            3. Export to **Excel**, **CSV**, or **PDF** format.
    b. Download file:
        i. Click **Download File** on the right side of the Actions column to download and save the Excel file.
3. Comments:
    a. Comments that are added to the Upload form are displayed here.



3.8.1.1.1 RA Resources

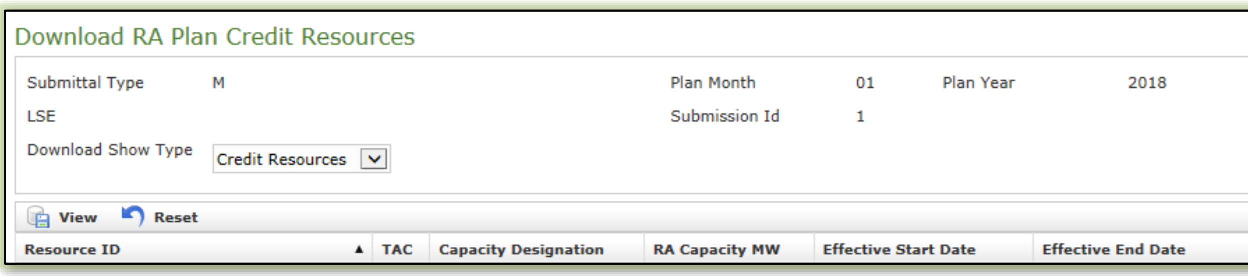
This is to view the **RA Resources Tab** of the RA Plan. In keeping with the template changes, there are new columns for the Local and System RA capacity.

When the user clicks **View**, the default view is the 'RA Resource' details as shown below.



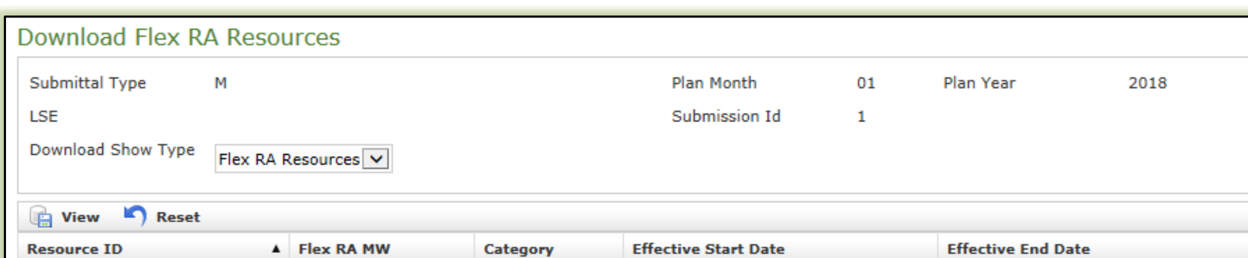
3.8.1.1.2 Credit Resources

This is to view the **Other** tab of the RA Plan. When the user chooses the **Credit Resources** view, the screen displayed is as below:



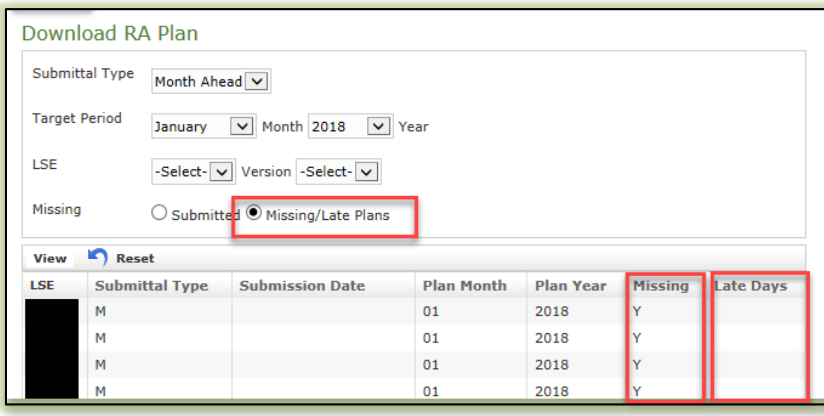
3.8.1.1.3 Flex RA Resources

This is to view Flexible RA Capacity tab of the RA Plan. When the user chooses the **Flex RA Resources** view, the screen displayed is as below:



3.8.1.2 Download Missing/Late RA Plans

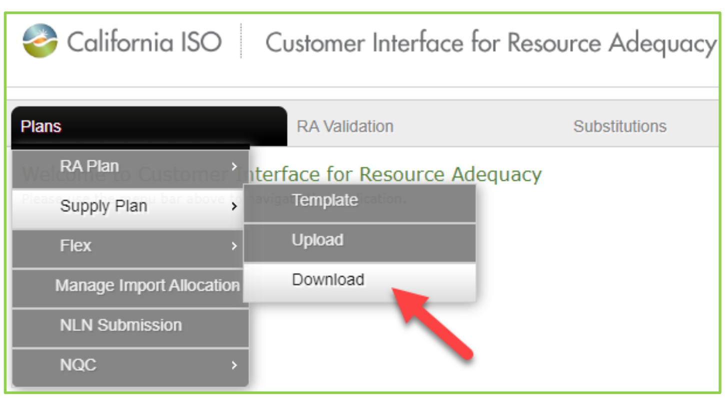
LSEs and ISO users can track missing and late plan submissions for compliance assessment of RA Plans. Comments that the SC had provided with the RA plan upload related to the late submission are displayed on the Download RA Plan landing page.



3.8.2 Download Supply Plans

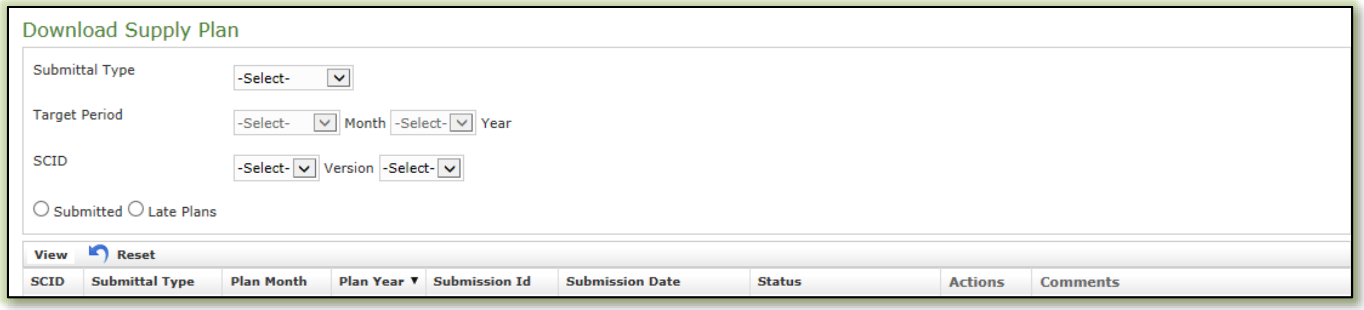
Steps to download the Supply Plan:

1. Navigate to **Plans**.
2. Select **Supply Plan**.
3. Select **Download** to display the download screen.



4. Select the **Monthly** or **Annual** Submittal type.
5. Select the Target **Month** and **Year**.
6. Select the **SCID**.
7. Select version:
   a. User can select latest version submitted to ISO.
   b. User can select initial version submitted to ISO.
   c. User can select all versions submitted to ISO.

8. Select option for timeline with plan submission:
    a. User can select all plans that were 'Submitted'
    b. User can select all plans that were submitted but were 'Late'
9. Click **View** to view Supply Plans.



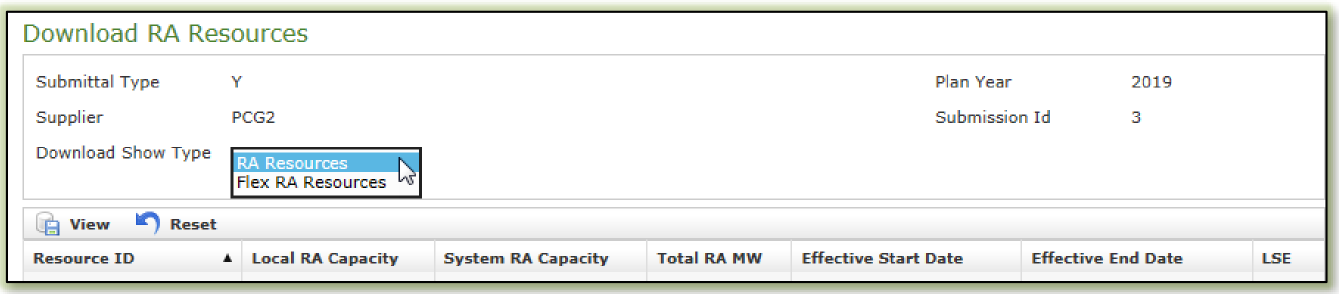
3.8.2.1 Download Submitted Supply Plans

Once the submitted Supply Plans are displayed:

1. On the grid, the user will see SC ID, submittal type, plan month, plan year, and submission ID – indicates the order of submission with the highest submission ID being the most recent plan.
2. Status
    a. Resubmittal required
        i. Error associated with the plan and requires resubmission
    b. Validation in progress
        i. ISO is working on validating the plan
    c. Closed
        i. The plan passed all validations and is considered final
3. Actions
    a. Show details :
        i. Will display the plan details for the RA Plan submittal
            1. Download Show Type: Drop down can be used to view.
                a. Supply Plan Resources: This is to view the Resources tab of the Supply Plan.
                b. Flex RA Resources: This is to view Flexible RA Capacity tab of the RA Plan.

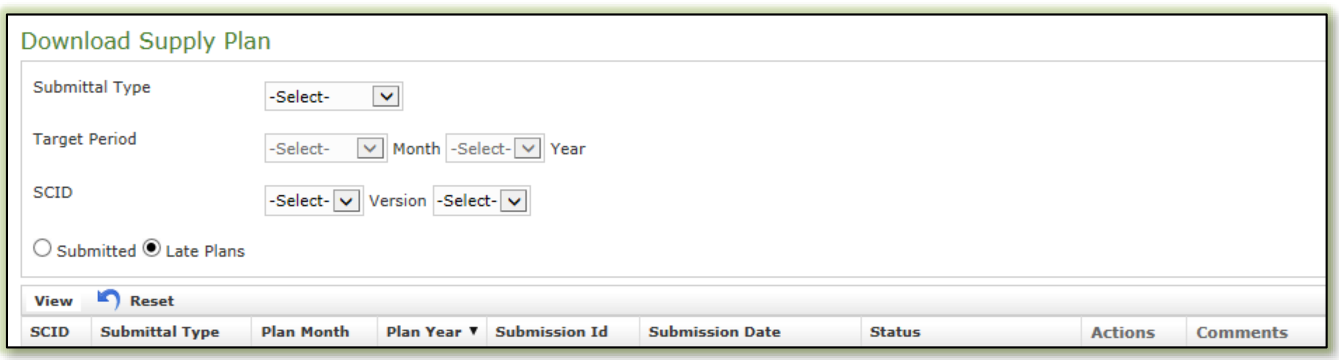
2. Click **View** 

to see the results.
3. Export to **Excel**, **CSV**, or **PDF** format.



3.8.2.2 Late Supply Plans

Supplier and ISO users can track late submissions for compliance assessment of Supply Plans. On the Download Supply Plans screen select the Late Plans option and click **View** to the see the late plans.

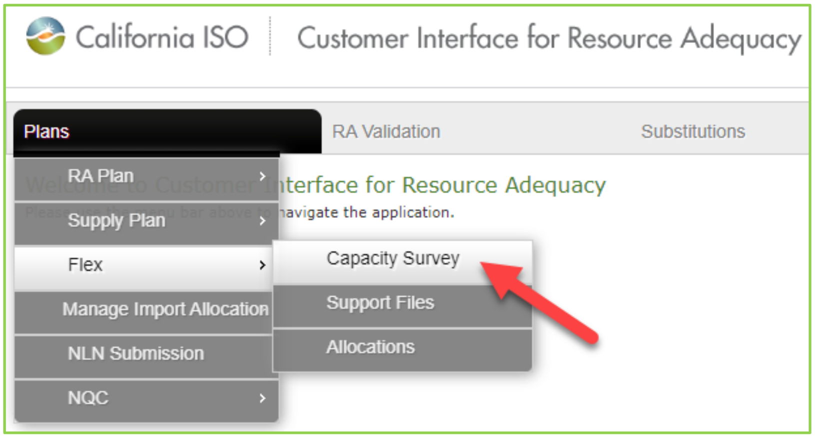


Comments that SC had provided with the RA plan upload related to the late submission are displayed on the Download RA landing page.

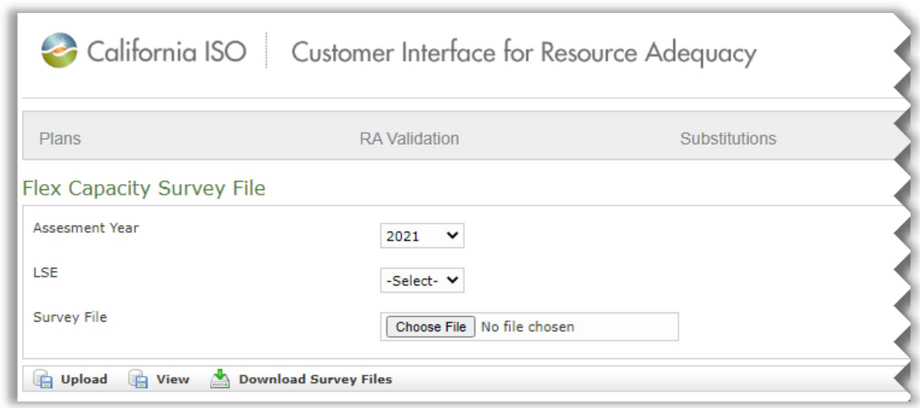
3.9 Flexible Capacity Survey Files

SCs of LSEs submit flexible capacity survey files to the ISO as part of the flexible capacity needs assessment process. The ISO determines the quantity of flexible capacity needed for the upcoming RA year and how this quantity is allocated to Local Regulatory Authorities (LRAs).

SCs will upload the flexible capacity survey file into CIRA from the following navigation path: Plans > Flex > Capacity Survey



This screen give the user the option to upload, view, or download the survey files.



3.9.1 Upload Flexible Capacity Survey File

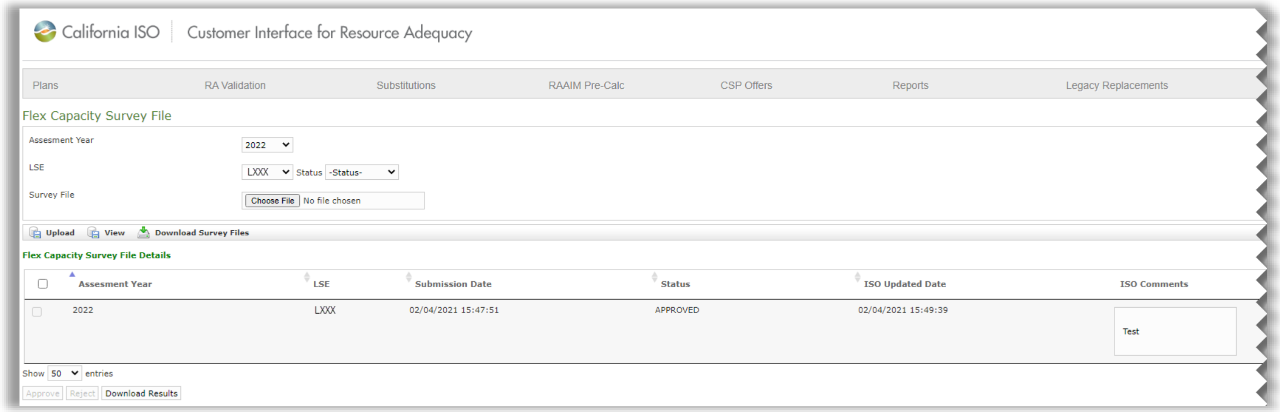
To upload the flexible capacity survey file:

1. Select the assessment year
2. Choose the appropriate LSE ID from the drop-down menu
3. Click the **Choose File** button to browse for the file
4. Click the **Upload** button to submit

3.9.2 View/Download Flexible Capacity Survey File

To view or download the flexible capacity survey file:

1. Select the assessment year
2. Choose the appropriate LSE ID from the drop-down menu
3. Click the **View** button to see information about the survey file (e.g. assessment year, LSE, status)
4. Click the **Download Survey Files** button to download the file that was submitted for the selected LSE ID



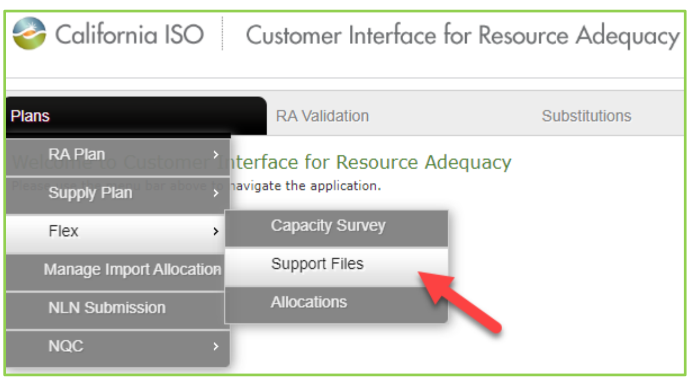
3.10 Flexible RA Obligation Support Files

Support files provided by the ISO contain a preview of the RA obligation allocation, including the background data and calculations used to arrive at those numbers.

3.10.1 Download Flexible RA Obligation Support Files

To download the flexible RA obligation support files, LSEs will:

1. Navigate to **Plans**
2. Select **Flex**
3. Select **Support Files** from the menu



4. Click the **View** button to see information about the support file (e.g. assessment year, LSE, status)
5. Click the **Download** button to download the support file for the selected LSE ID

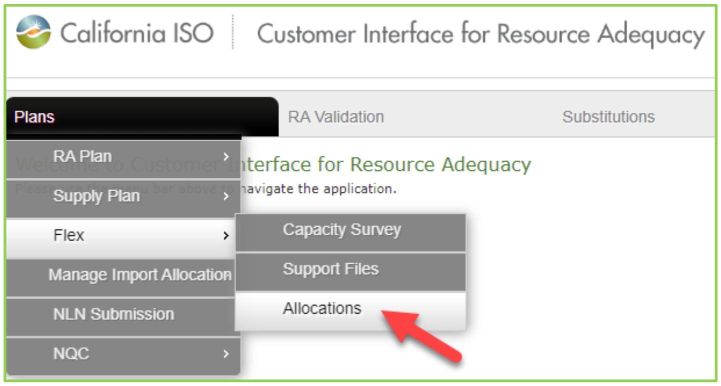
3.11 Flexible RA Obligation Allocation

The allocation file shows the RA obligation allocation for the selected LSE ID. It contains the total RA requirement as well as how it is divided among categories:

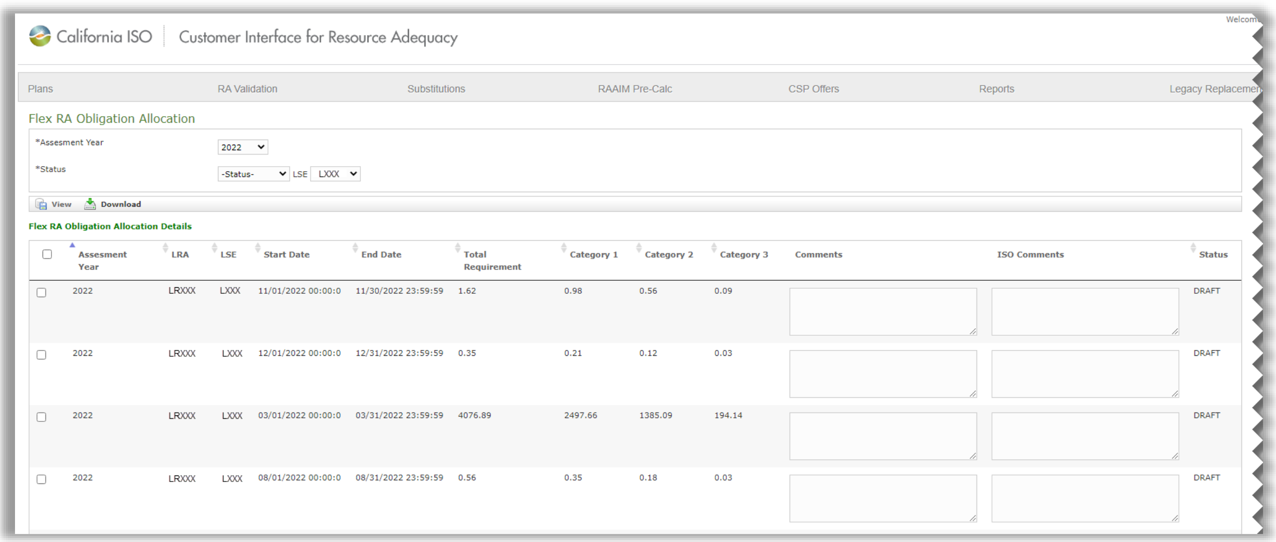
- Category 1: Base
- Category 2: Peak
- Category 3: Super Peak

3.11.1 View/Download Flexible RA Obligation Allocation

1. Navigate to **Plans**
2. Select **Flex**
3. Select **Allocations** from the menu



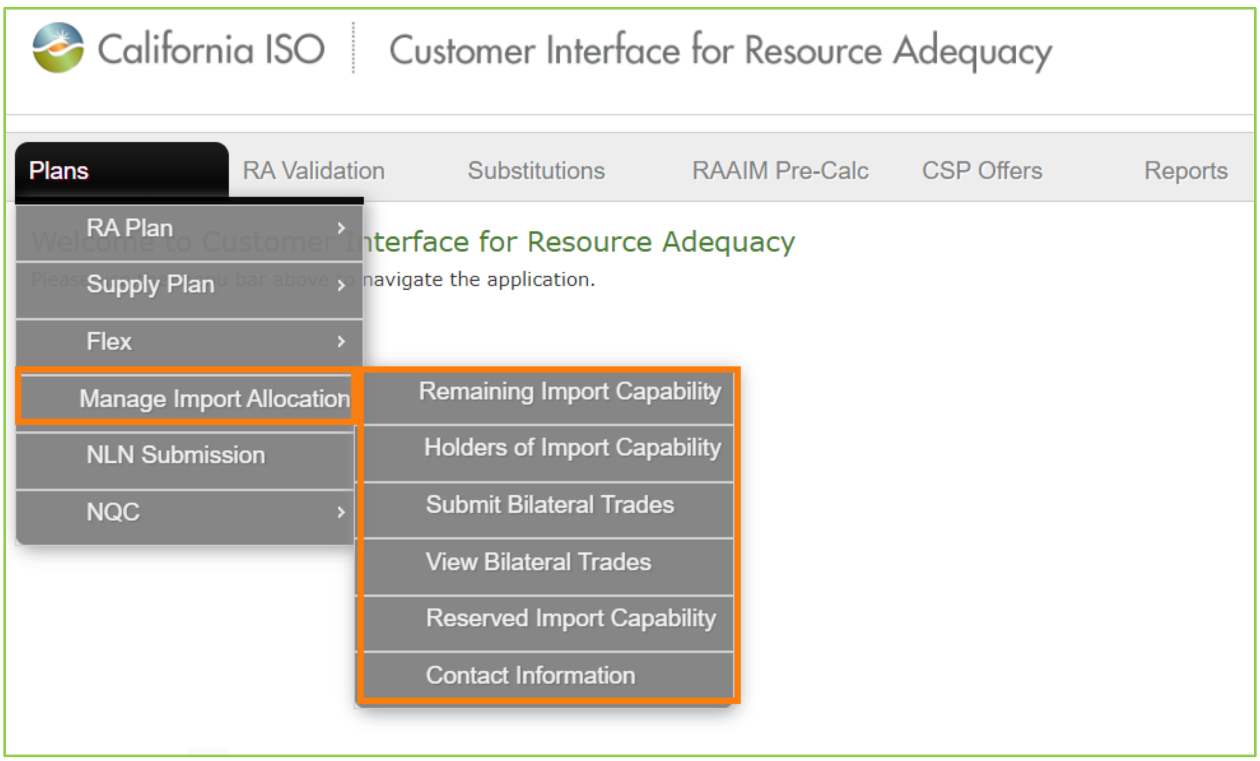
4. Select the assessment year
5. Choose the appropriate LSE ID from the drop-down menu
6. Click the **View** button to see the flexible RA obligation allocation for the selected LSE ID
7. Click the **Download** button to download the report in Excel format



3.12 Manage Import Allocation

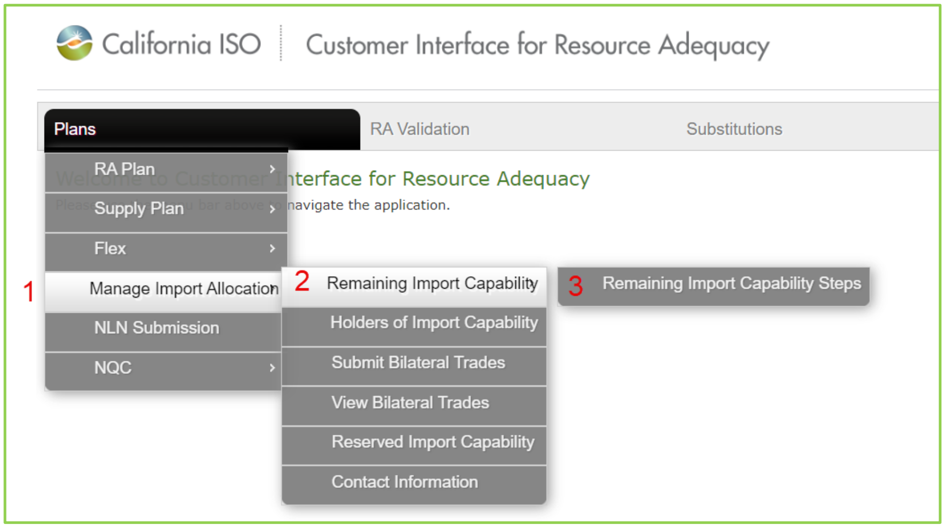
To access the Manage Import Allocation tab:

1. Navigate to **Plans**
2. Select **Manage Import Allocation**
3. You have the option to select the following from the dropdown menu:
    a. Remaining Import Capability
    b. Holders of Import Capability
    c. Submit Bilateral Trades
    d. View Bilateral Trades
    e. Reserved Import Capability
    f. Contact Information

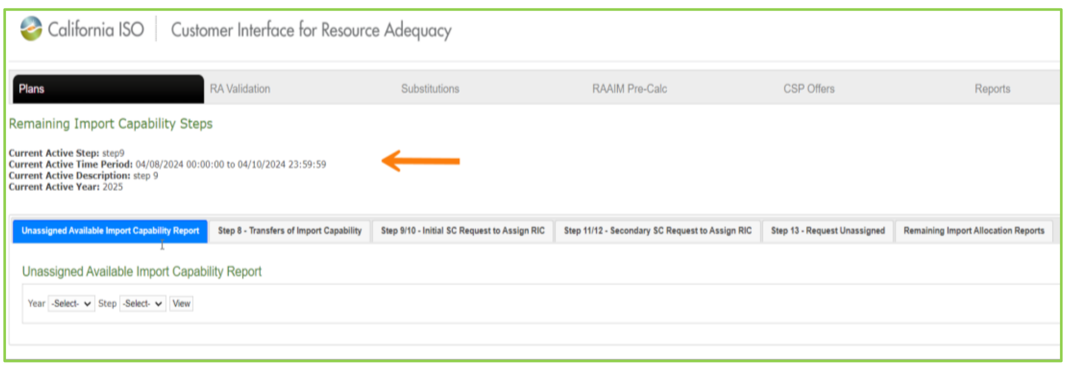


3.12.1 Remaining Import Capability

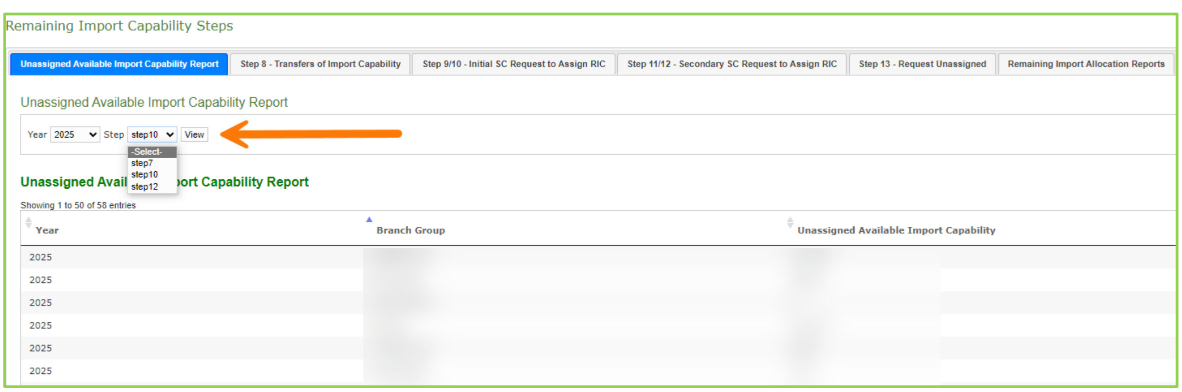
1. Navigate to **Plans.**
2. Select **Remaining Import Capability** and then **Remaining Import Capability Steps.**



3. At the top of each Step subtab, users will see the timeline for the **Current Active Steps**, **Time Period**, **Description**, and **Year.**



4. **Unassigned Available Import Capability Report** subtab allows users to see what import capability is still present for a Branch Group (BG) at the end of Steps 7, 10, and 12 for a specific year.



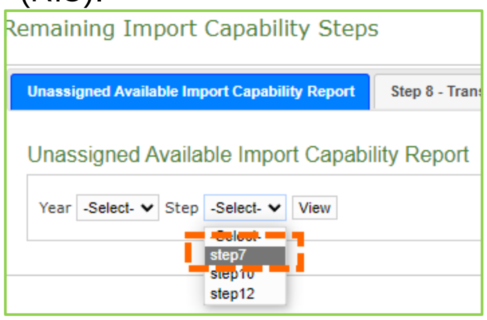
California ISO

Note: As users move from Step 7 to Step 10 and then Step 12, the Unassigned Available Import Capability displayed on the page will decrease as each of the Steps are completed.

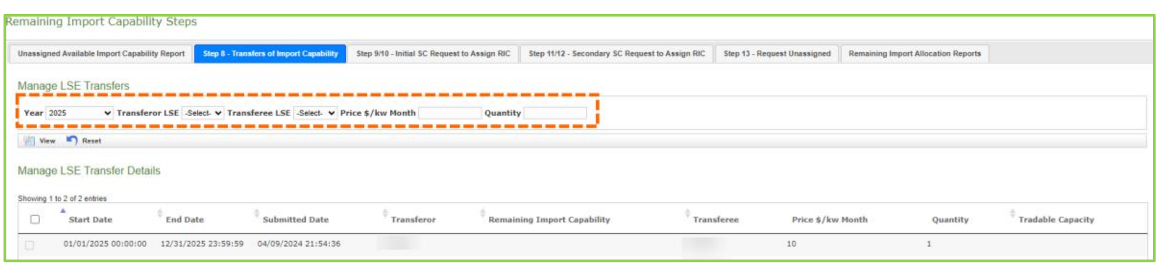
Steps 8 through 13 Process

Users are recommended to complete the import capability process in sequential order. Before submitting the Branch Groups (BGs) in Step 9, all Load Serving Entity (LSE) transfers should be completed during Step 8.

- Prior to submitting a LSE to LSE transfer in Step 8, users should refer back to the Unassigned Import Capability Report – filter for Step 7 to review the Remaining Import Capability (RIC).



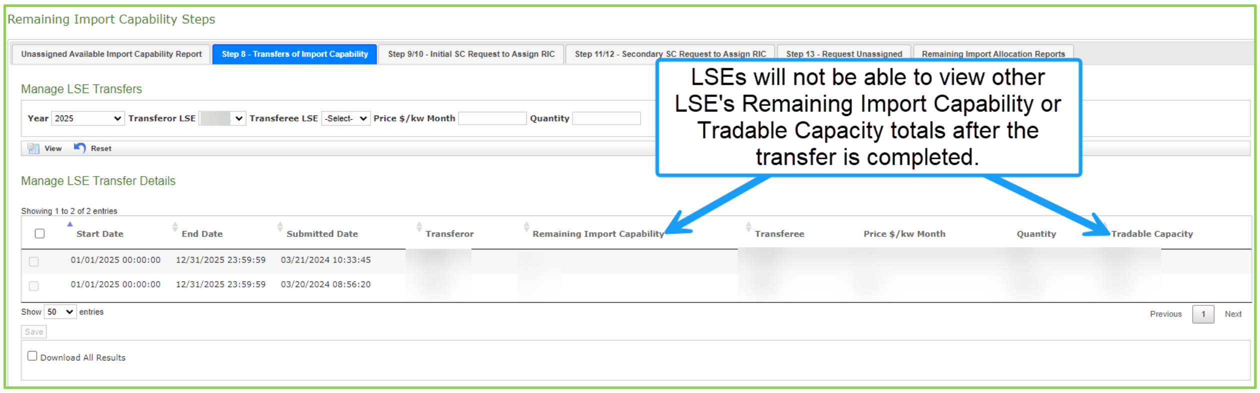
- **Step 8 – Transfers of Import Capability** subtab is utilized for LSE to LSE transfers. Users can update and edit their submitted requests up to the end of the submission window.
    a. Select the **Year**
    b. Select the **Transferor LSE**
    c. Select the **Transferee LSE**
    d. For **Price $/kw Month**, you must enter a valid number. Numeric values with two decimals are only allowed.
    e. For **Quantity**, enter the amount to transfer.
    f. **Tradable Capacity** indicates how many MW of an import capability the LSE has left. This number will always show the latest total amount.



California ISO

Note: When the transferor submits the transfer the record is finalized and no further action is required from the transferee side to accept or reject.

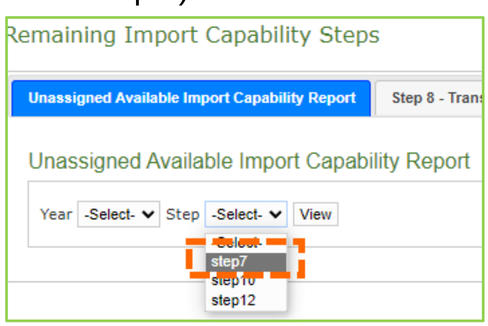
There are validations built in CIRA to prevent a SC of an LSE from:
- Submitting requests past the submission window
- Transferring over their Tradeable Capacity limit
- Viewing other user's confidential information.



After finishing all transfers for Step 8 and the submission window opens, users can move on to submissions for Step 9.

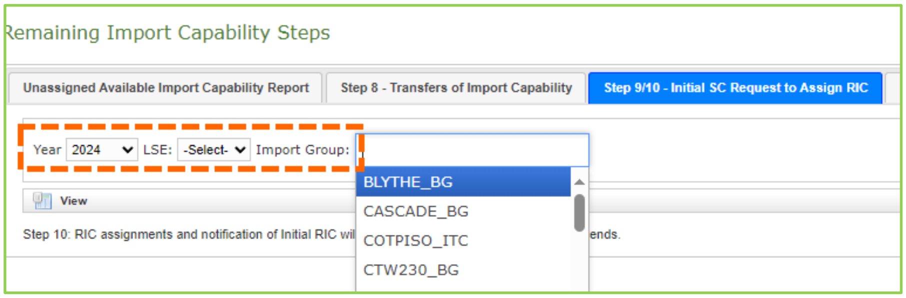
Note: Please note that Steps 8 and 9 submission dates overlap for the allotted period. It is expected that users complete LSE transfers before submitting a request for remaining import allocation capability.

- When submitting requests for Step 9, users should refer back to the Unassigned Import Capability Report and filter for Step 7 to review the RIC available for a BG (as previously completed in Step 8).

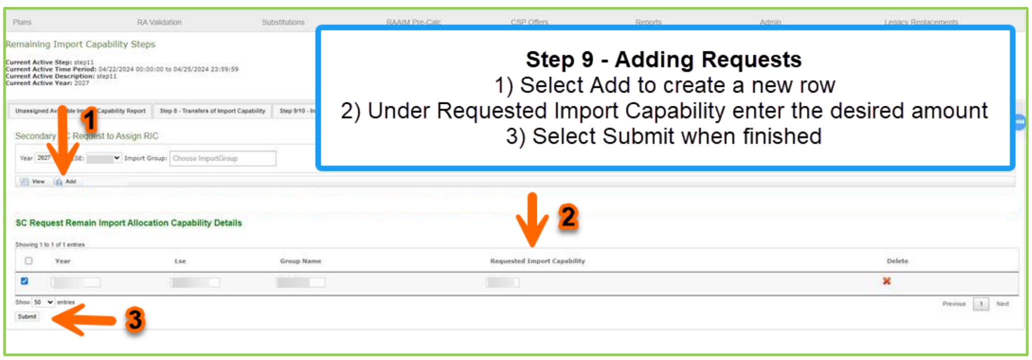


- **Step 9/10 – Initial SC Requests to Assign RIC** subtab is where users submit import allocation capability requests for BGs. All applicable LSEs that users are mapped to and all BGs will be available to select. The act of requesting import allocation capability is Step 9 (user action) and the calculation run is Step 10 (ISO action).

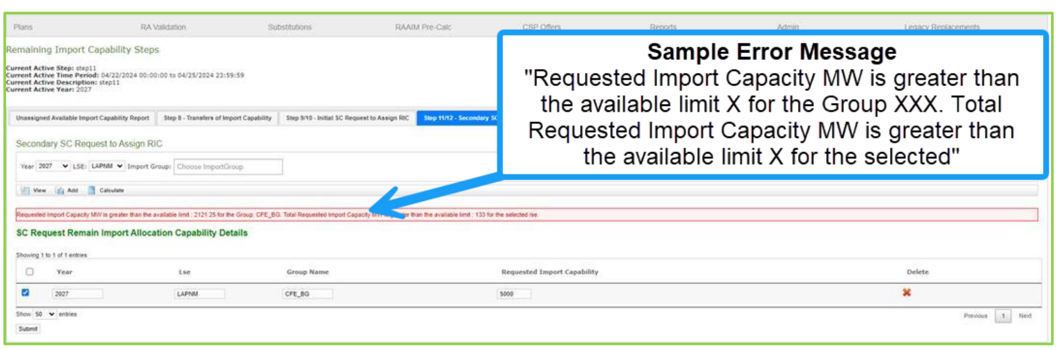
a. Select the **Year**
b. Select the **LSE**
c. Select the **Import Group**



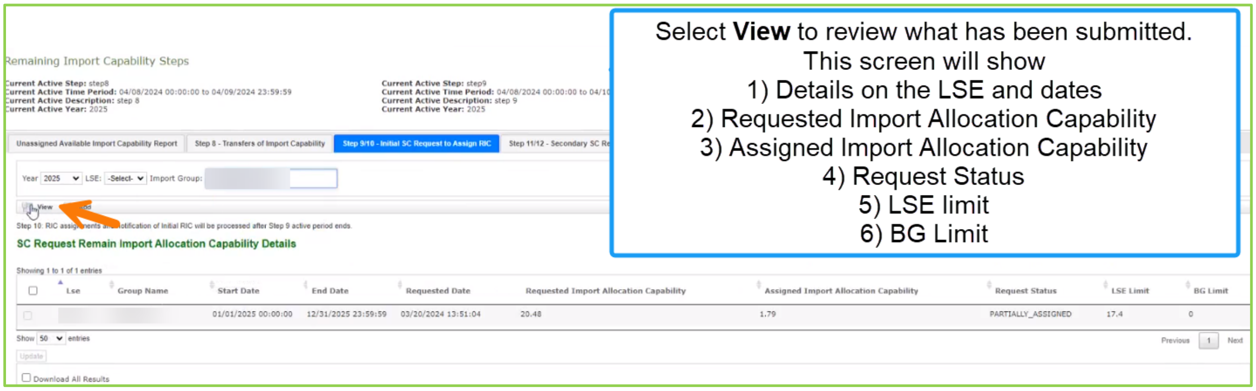
d. Click **Add** to create a new request
   - Users can update and edit their submitted requests up to the end of the submission window



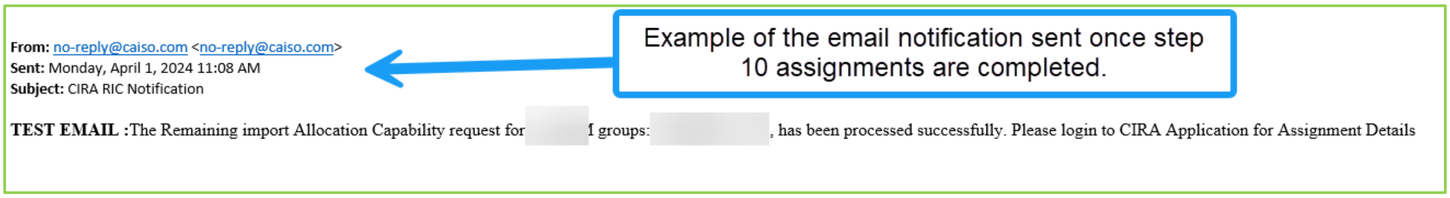
When entering requests, users cannot enter submissions greater than the LSE RIC or BG RIC. If the values are greater, users will receive an error message.



e. Click **View** to review entries made



After users submit their entries for Step 9, the calculation will run the following day for Step 10. Users will know Step 10 is complete when they receive an email notification titled “CIRA RIC Notification,” stating their submission assignments have been processed.

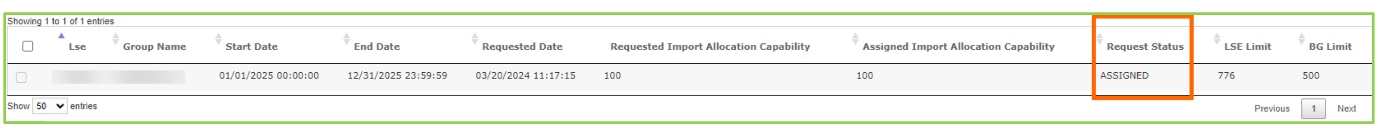


Note: Note: A Market Notice will also be sent out and posted on the ISO Website alerting users of Step 10 completion.

To view assignments, users should review the **Request Status** column. The status will either be:

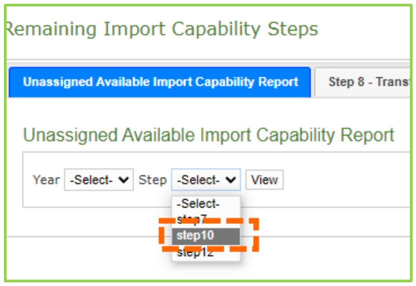
1. Assigned: received the total amount requested
2. Partially Assigned received a portion of the amount requested

Note: If a BG is over allocated, CIRA will assign import allocations based on LSE’s Load Share Ratio.

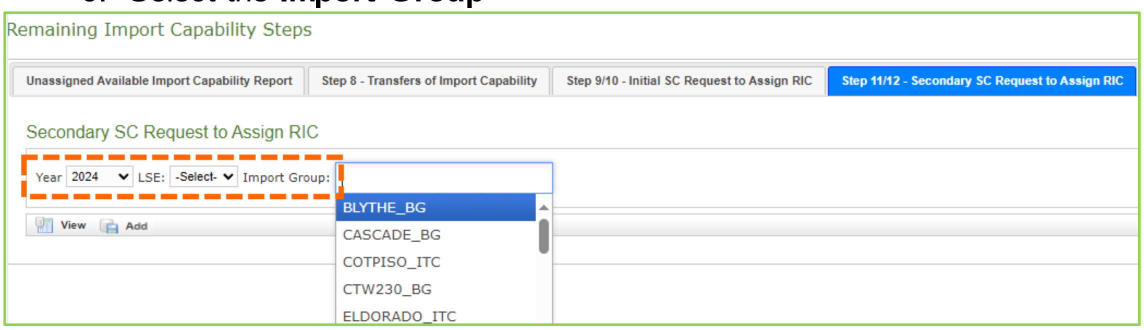


After the calculation run is complete for Step 10 and the submission window opens, users can move on to submissions for Step 11.

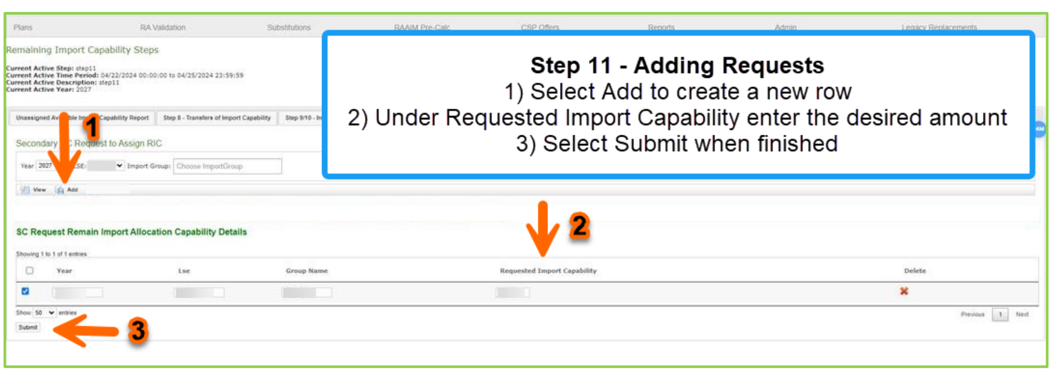
- When submitting requests for Step 11, users should refer back to the Unassigned Import Capability Report and filter for Step 10 to review the RIC available for a BG.



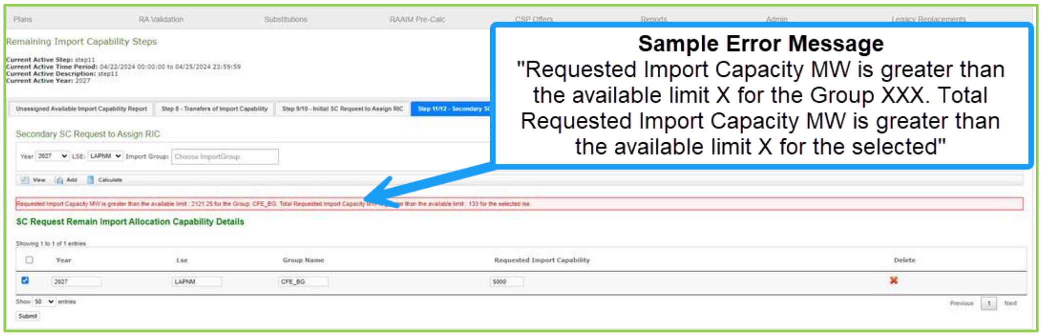
- **Step 11/12 – Secondary SC Request to Assign RIC** subtab is another opportunity for users to submit a request for any RIC for BGs. This is the exact process that was completed for Step 9 and Step 10. The act of requesting import allocation capability is Step 11 (user action) and the calculation run is Step 12 (ISO action).
  a. Select the **Year**
  b. Select the **LSE**
  c. Select the **Import Group**



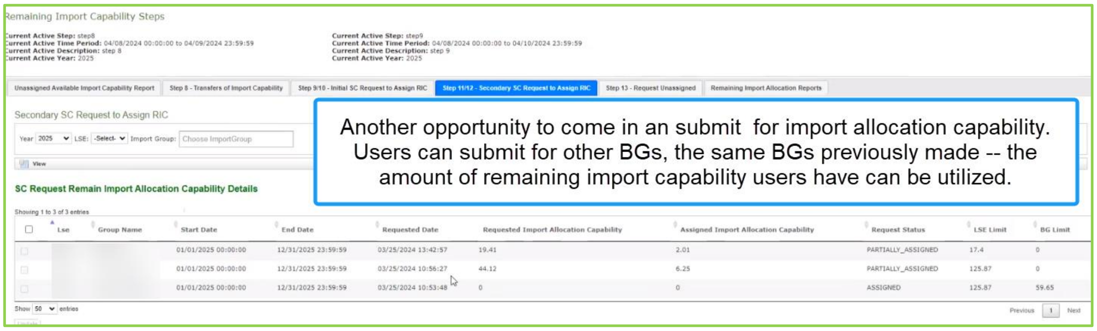
  d. Click **Add** to create a new request
     - Users can update and edit their submitted requests up to the end of the submission window



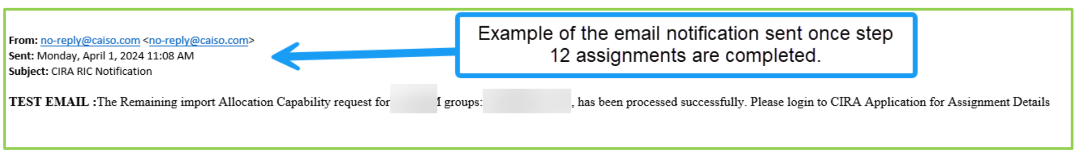
When entering requests, users cannot enter submissions greater than the LSE RIC or BG RIC. If the values are greater, users will receive an error message.



e. Click **View** to review entries made



After users submit their entries for Step 11, the calculation will run the following day for Step 12. Users will know Step 12 is complete when they receive an email notification titled "CIRA RIC Notification," stating their submission assignments have been processed.



Note: A Market Notice will also be sent out and posted on the ISO Website alerting users of Step 12 completion.

To view assignments, users should review the **Request Status** column. The status will either be

1. Assigned: received the total amount requested
2. Partially Assigned received some of the amount requested

Showing 1 to 1 of 1 entries

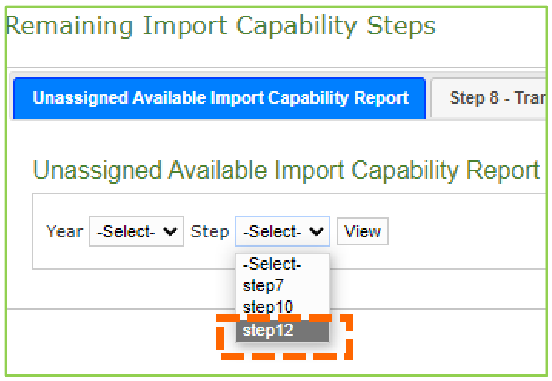
Lse	Group Name	Start Date	End Date	Requested Date	Requested Import Allocation Capability	Assigned Import Allocation Capability	Request Status	LSE Limit	BG Limit
		01/01/2025 00:00:00	12/31/2025 23:59:59	03/20/2024 11:17:15	100	100	ASSIGNED	776	500

Show 50 entries Previous 1 Next

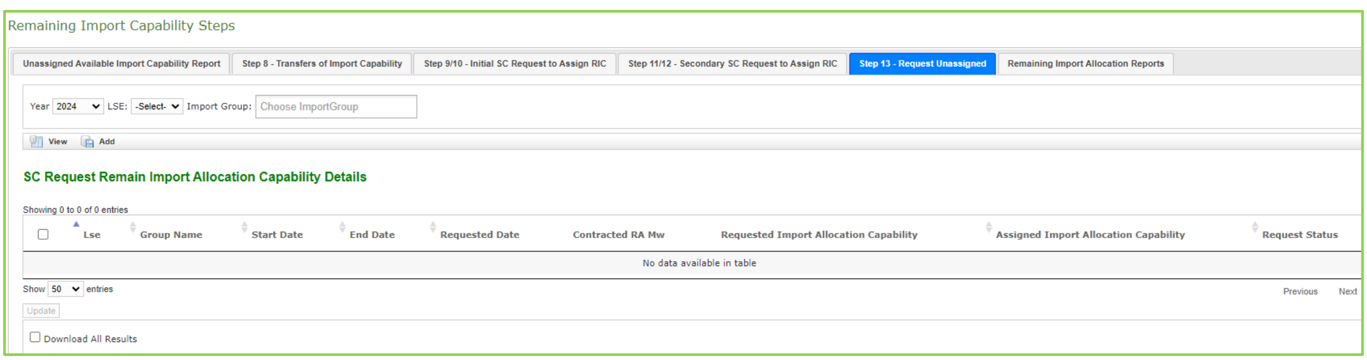
> **Note:** If a BG is over allocated, CIRA will assign import allocations based on LSE's Load Share Ratio.

After the calculation run is complete for Step 12 and the submission window opens, users can move on to submissions for Step 13.

- When submitting requests for Step 13, users should refer back to the Unassigned Import Capability Report and filter for Step 12 to review the RIC is present for a BG.

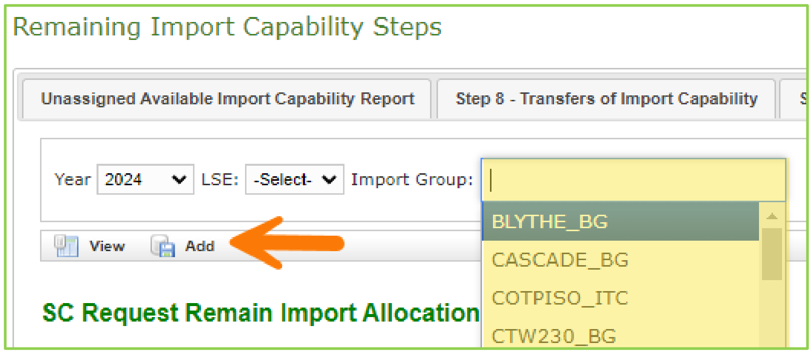


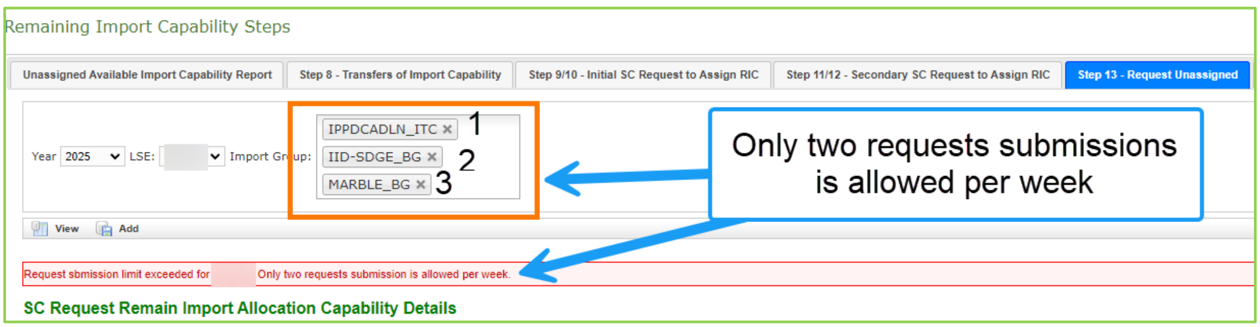
- **Step 13 – Request unassigned** subtab is where users can request any unassigned import capability. As part of the Maximum Import Capability (MIC) Enhancement, this subtab was previously referred to as "SC Request Unassigned Import Capability."



> **Note:** LSEs and SCs can have the "same day priority" to the Step 13 unallocated Remaining Import Capability for LSEs with existing RA Contracts directly in CIRA. Some of the Information from this screen will be available in OASIS under the Resource Adequacy tab under **Available Import Capability**.

a. Select **Year Ahead**, **SCID** (or LSE ID), and **Import Group** from the drop down to request for an Unassigned amount of Import Allocation Capability and then click **Add.**



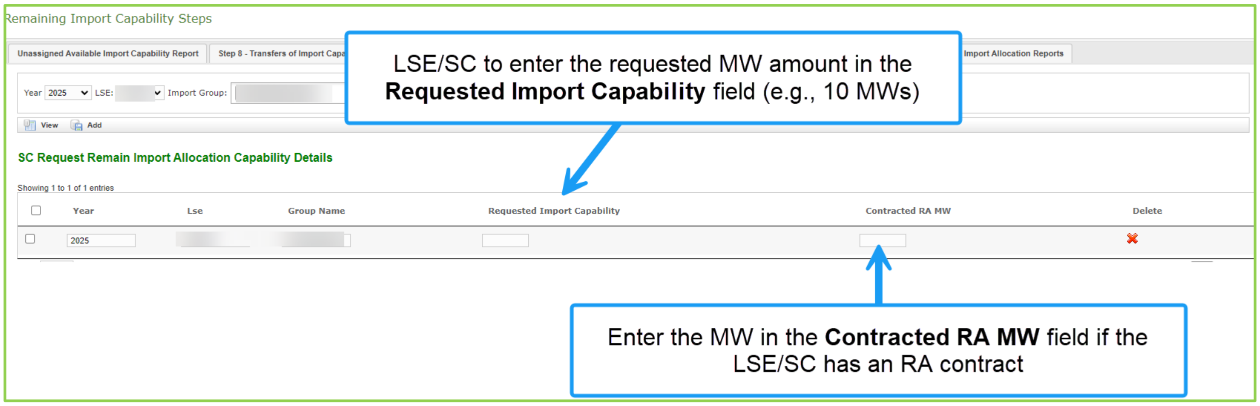


Note: ISO will only accept 2 requests per calendar week from any SC/LSE on behalf of a single LSE participating generator or system resource. If a request includes more than 2 intertie allocation requests, CIRA will only process the 1st two groups of interties in a single request. The remaining requests will be denied.

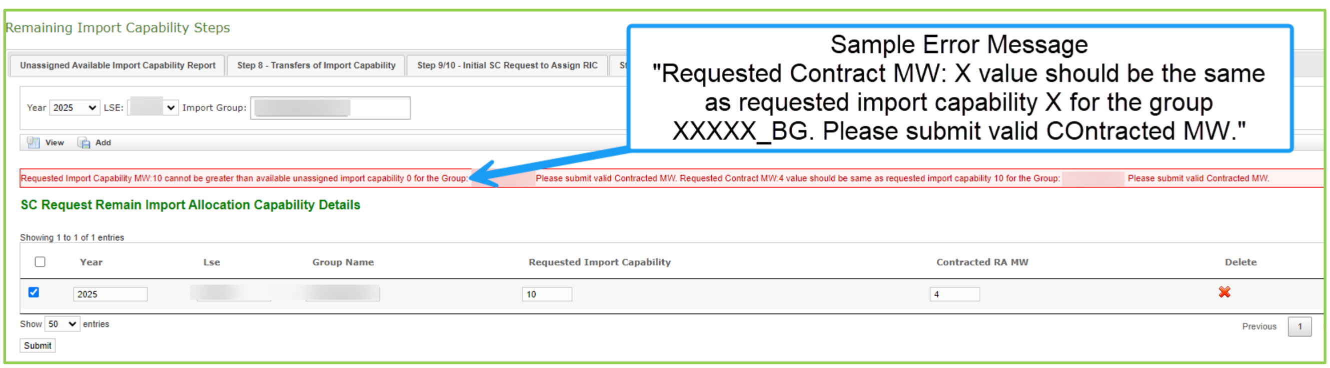
If a request includes more than two intertie allocation requests, the ISO will only process the first two interties in the request. The remaining intertie requests will be denied.

b. A new record will populate based on your selection. Enter your **Requested Import Capability** MW amount into the field. If you have an RA contract, enter the amount into the **Contracted RA MW** field.

Note: CAISO will give you preference on priority if you have an RA Contract.



Note: Contracted RA MW amount must equal the **Requested Import Capability** MW amount. If the values do not match, you will receive an error message.

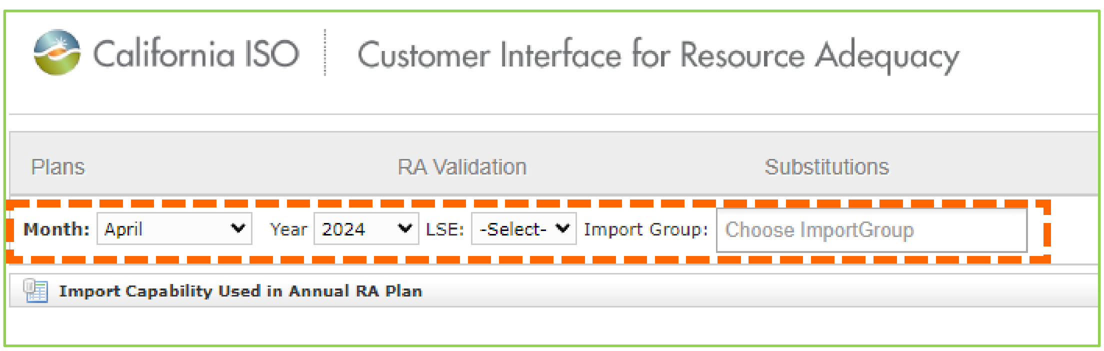


Note: The new MIC enhancement process will be applied to RA year 2025. For RA year 2024, please continue to use the existing submission request process via email.

3.12.2 Remaining Import Allocation Reports

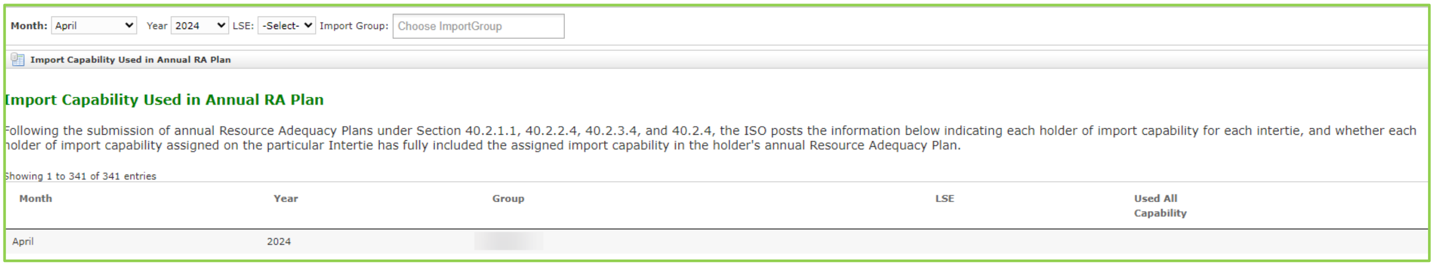
Throughout the process of completing Steps 8-13, users can refer to the **Remaining Import Allocation Reports**.

- **Remaining Import Allocation Reports** is available to every users.
  a. Select the **Month**
  b. Select the **Year**
  c. Select the **LSE**
  d. Select the **Import Group**



  c. Click **Import Capability Used in Annual RA Plan**
    i. Month
    ii. Year
    iii. Group
    iv. LSE

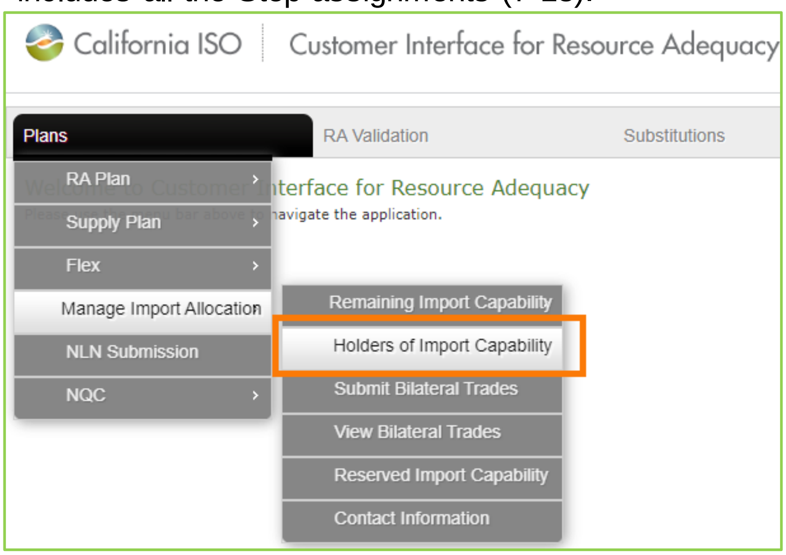
v. Used All Capability



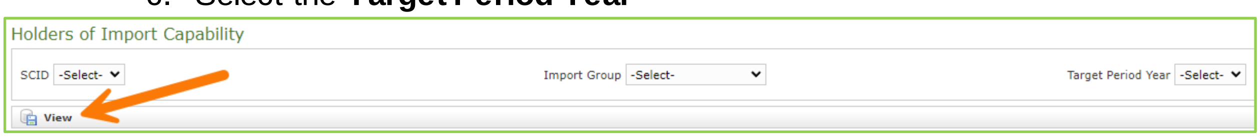
Note: Following the submission of annual Resource Adequacy Plans under Section 40.2.1.1, 40.2.2.4, 40.2.3.4, and 40.2.4, the ISO posts the information below indicating each holder of import capability for each intertie, and whether each holder of import capability assigned on the particular Intertie has fully included the assigned import capability in the holder's annual Resource Adequacy Plan.

3.12.3 Holders of Import Capability

1. Navigate to **Plans**
   a. Select **Holders of Import Capability**. This page was previously referred to as "View SC Base Import Allocation". The only change is the name. This page includes all the Step assignments (7-13).

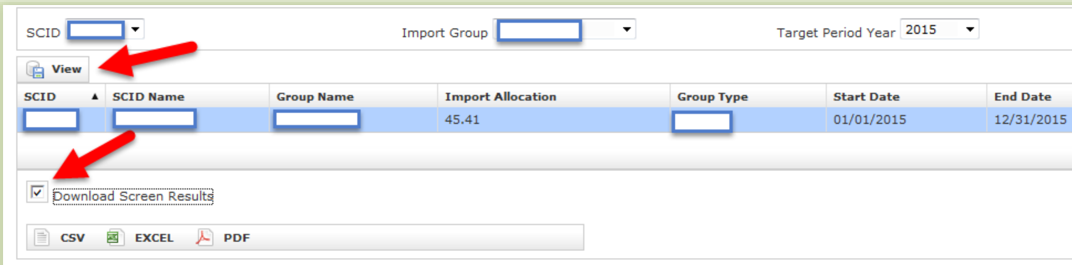


2. To view the base SC import allocations:
   a. Select the **SCID**
   b. Select the **Import Group**
   c. Select the **Target Period Year**



Once the data is displayed:

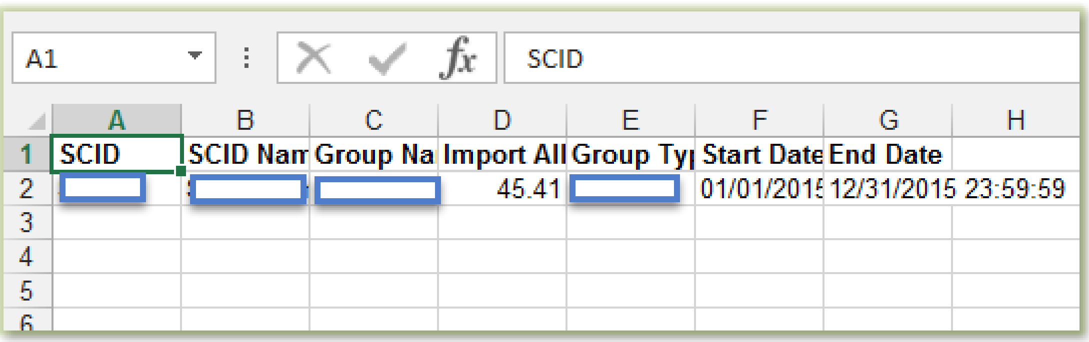
- On the grid, the user will see the SCID, SCID Name, Group Name, Import Allocation, Group Type, Start Date, and End Date.



Note: For the Holders of Import Capability, the Import Allocation number includes all of the Steps in its calculation (across all Steps).

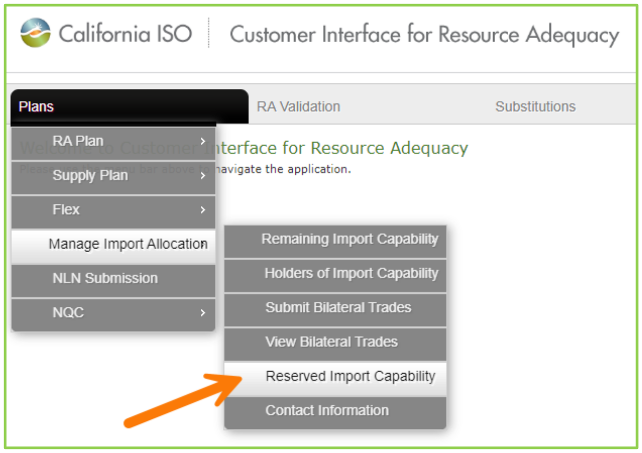
To view screen results:

1. Check the box **Download Screen Results**
2. Select **CSV**, **Excel**, or **PDF**



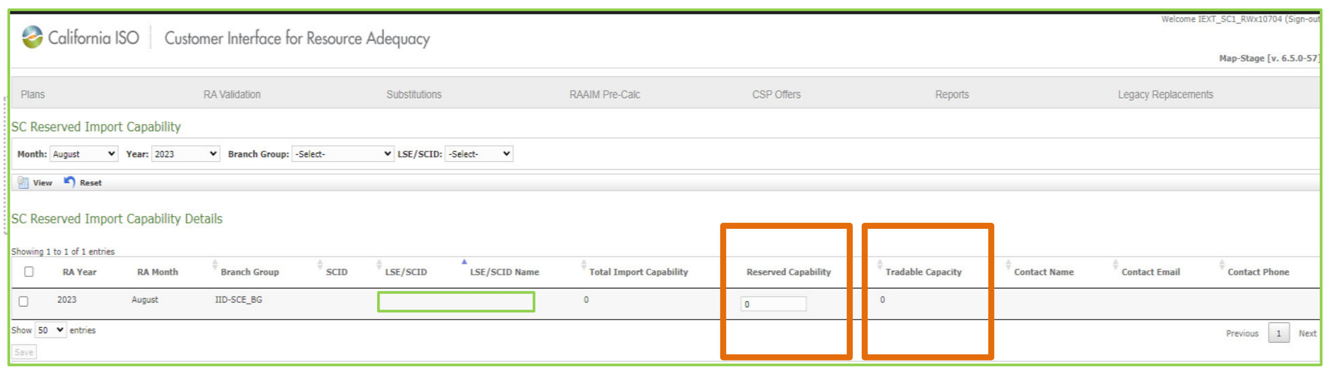
3.12.4 Submit Reserved Import Capability

1. Navigate to **Reserved Import Capability** screen.
    a. Select from the dropdown menu under **Manage Import Allocation**.



2. Select the **Year Ahead**, **SCID** (or LSE ID), and **Import Group** from the drop down **and** then click **Add.**

3. Enter a MW amount into the **Tradeable Capacity** field to let other LSEs/SCs know how much you are willing to trade.



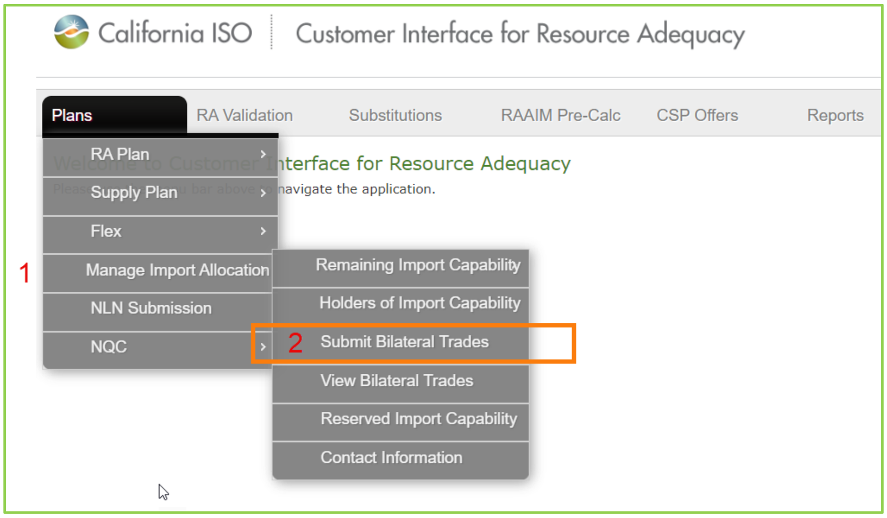
Note: This screen will not allow you to submit your **Tradeable Capacity** amount unless set up your Contact Information.

Users may submit values up to the **Total Import Capability**. If a bi-lateral trade reduces the Total Import Capability to be less than the Reserved Capability value, the system shall reduce the Reserved Capability to be equal to the Total Import Capability. After the RA showing is loaded, the system will update the Reserved Capability quantity to the greater of its current value or the Import capability used by RA.

Reserved Capability can be submitted any time prior to the start of the RA Month and can be reserved at the branch level.

3.12.5 Submit Bilateral Trades

1. Navigate to **Submit Bilateral Trades**.
    a. Select from the dropdown menu under **Manage Import Allocation**.

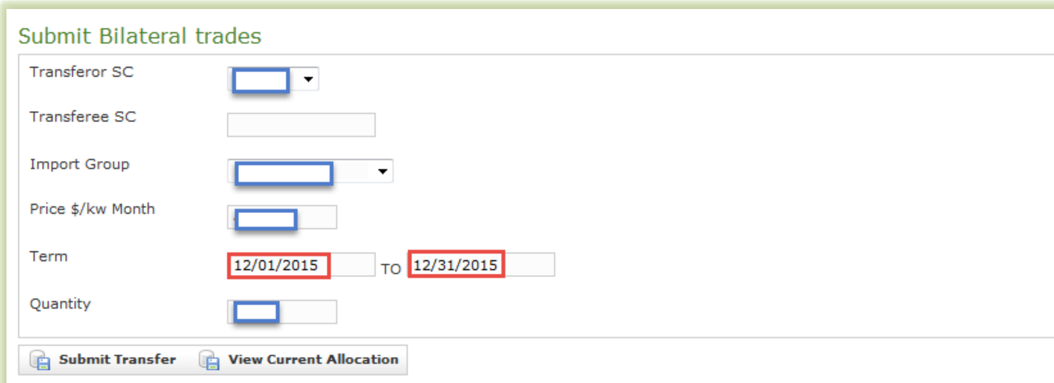


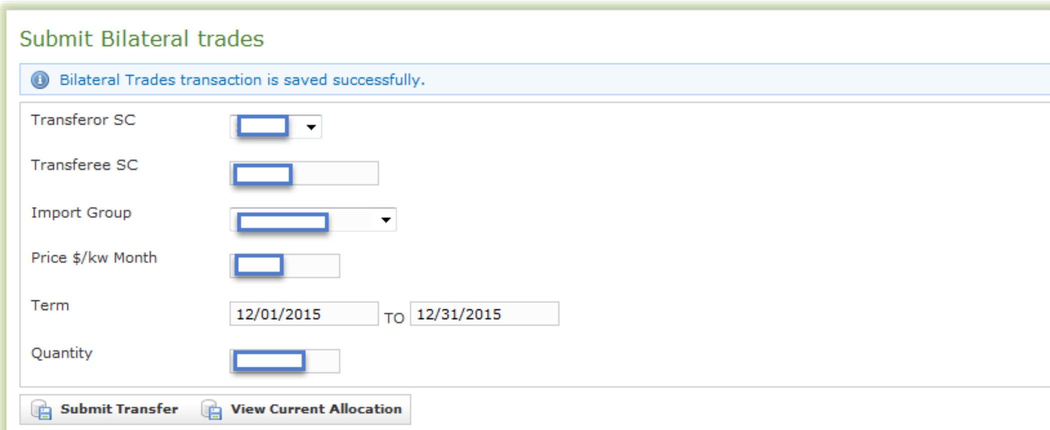
2. After the screen has loaded:
    a. Select the **Transferor SC**.
    b. Select the **Transferee SC**.
    c. Select the **Import Group**.
    d. Enter the **Price $/kw Month**.
    e. Select the **Term** period.

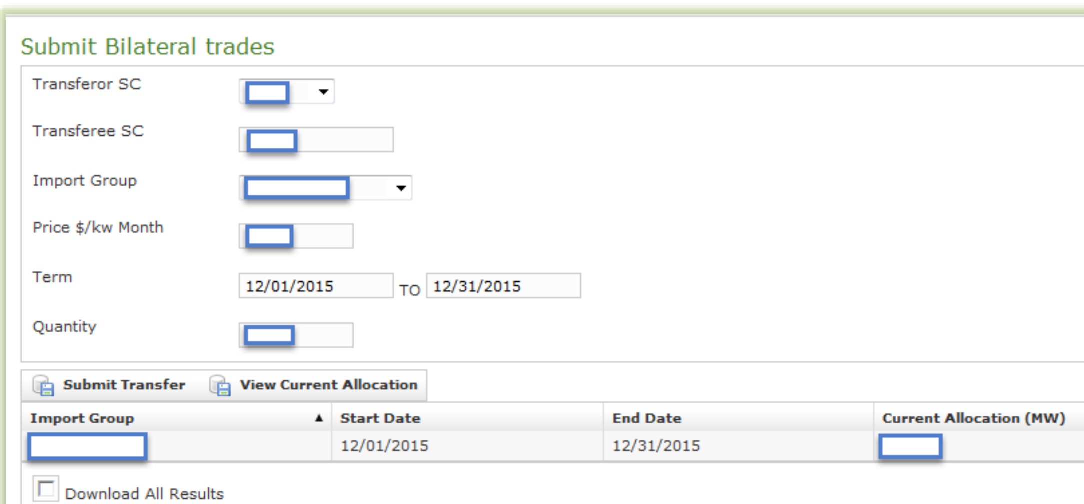
Note: The **Term** start date must be the first day of the next or future month. The **Term** end date must be the last day of the next or future month. The current month cannot be selected.

    f. Enter the **Quantity**.
    g. Select **Submit Transfer** or **View Current Allocation**.

An SC can only submit a trade. If the SC wants to reject a trade, the SC must submit a CIDI ticket requesting that the ISO reject the trade.


Submit Bilateral trades
Transferor SC
Transferee SC
Import Group
Price $/kw Month
Term
12/01/2015
TO
12/31/2015
Quantity
Submit Transfer
View Current Allocation

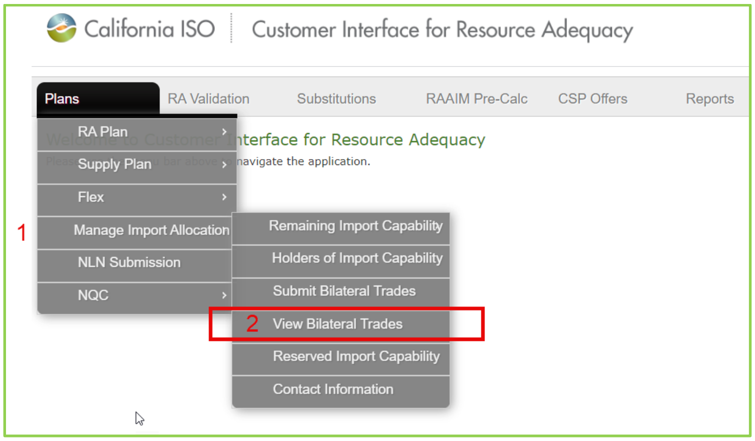

Submit Bilateral trades
Bilateral Trades transaction is saved successfully.
Transferor SC
Transferee SC
Import Group
Price $/kw Month
Term
12/01/2015
TO
12/31/2015
Quantity
Submit Transfer
View Current Allocation

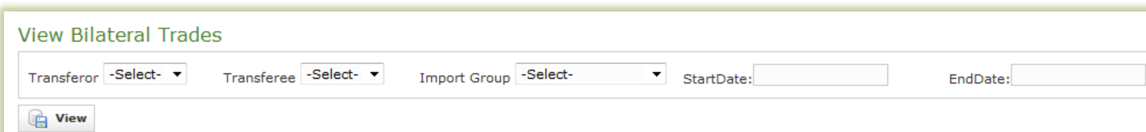

Submit Bilateral trades
Transferor SC
Transferee SC
Import Group
Price $/kw Month
Term
12/01/2015
TO
12/31/2015
Quantity
Submit Transfer
View Current Allocation
Import Group
Start Date
End Date
Current Allocation (MW)
12/01/2015
12/31/2015
Download All Results

3.12.6 View Bilateral Trades

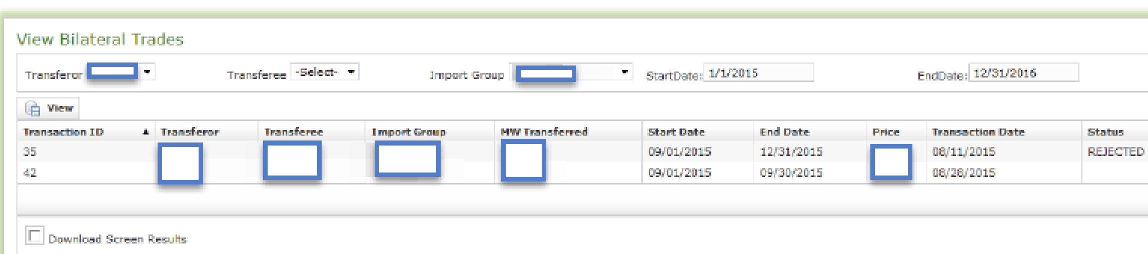
To view bilateral trades:

1. Navigate to **View Bilateral Trades**.



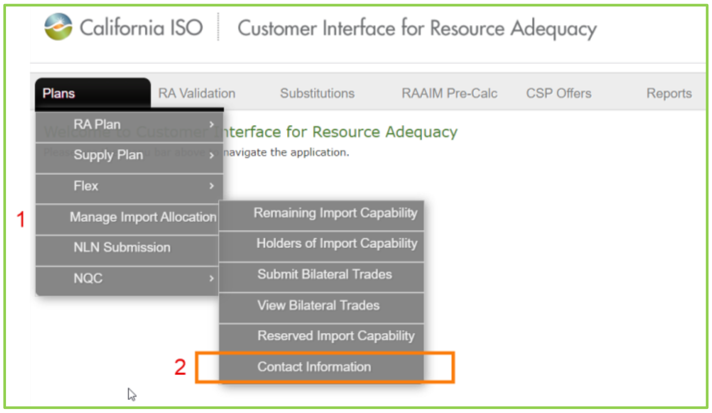


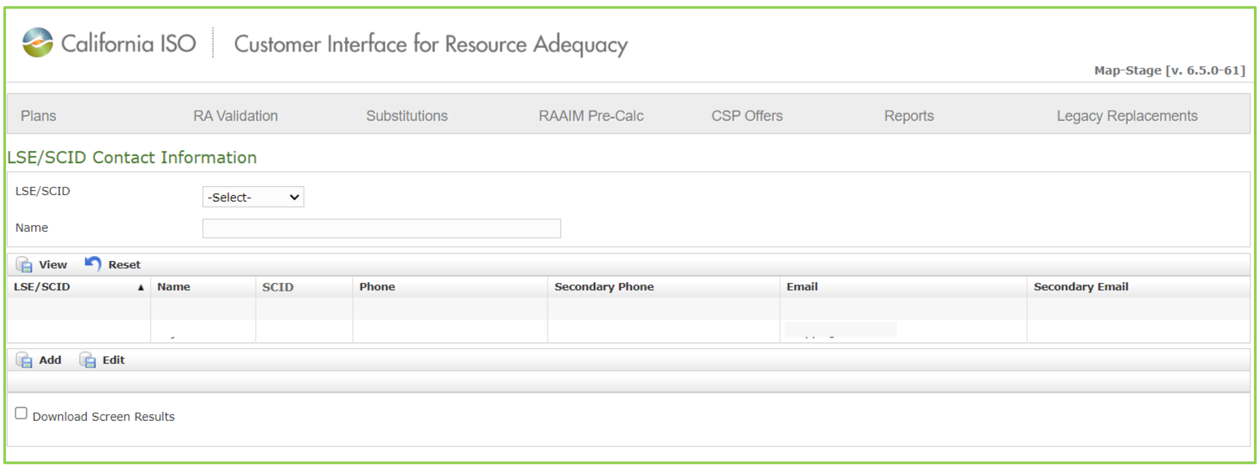
2. After the screen has loaded:
    a. Select **Transferor**.
    b. Select **Transferee**.
    c. Select the **Import Group**.
    d. Select the **Start Date**.
    e. Select the **End Date**.
    f. Click **View** to display the results.



3.12.7 Update Contact Information

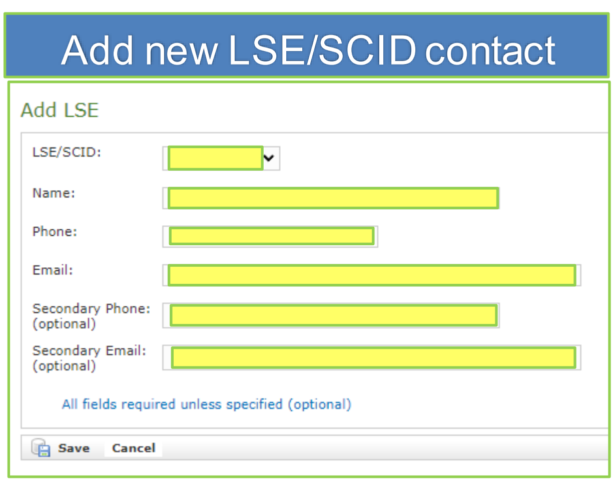
1. Navigate to **Contact Information** screen.
   a. Select from the dropdown menu under **Manage Import Allocation**.



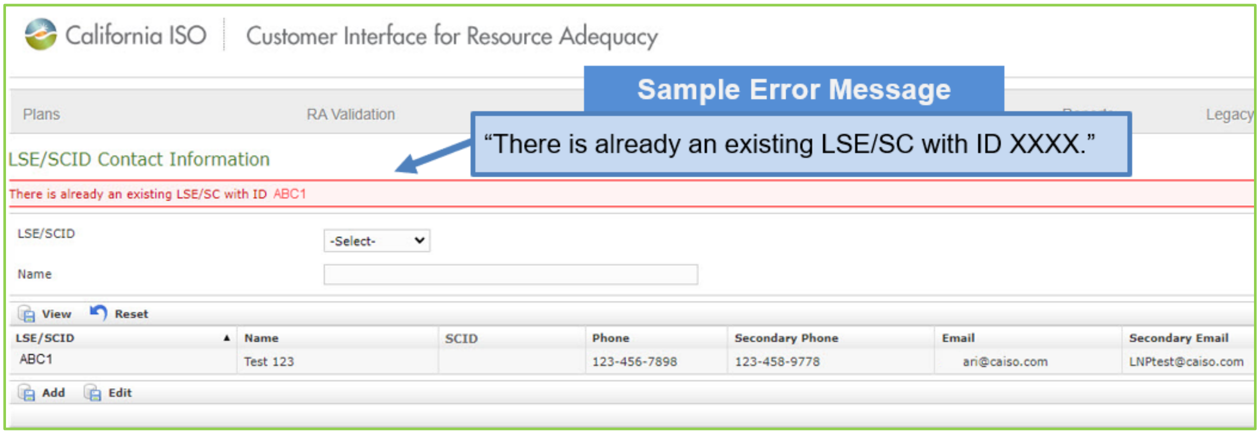


2. Select the **LSE/SCID** from the drop down.

3. Enter a contact name into the **Name** field and then click **Add**.



> **Note:** Be sure to update the existing LSE/SCID contact if the info has changed. There can only be one LSE/SCID contact for each LSE/SCID.

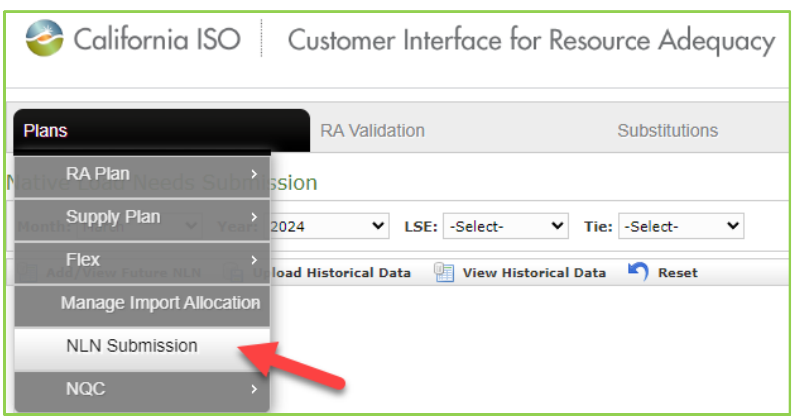


3.13 Native Load Needs (NLN)

The **NLN Submission** tab is one page. The purpose of the NLN Submission is for Load Serving Entities (LSEs) to submit and view historical and new non-RA Contracts.

To access this dropdown menu:

1. Navigate to **Plans**.
2. Select **NLN Submission** from the dropdown menu.

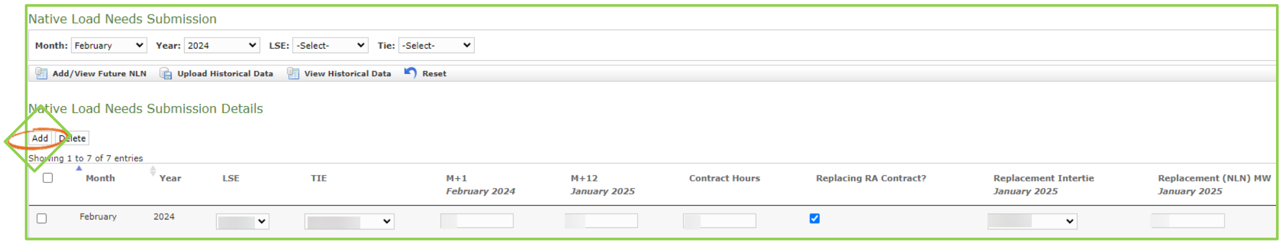


3.13.1 Add/View Future NLN

During the submission window, users shall have the ability to submit non-RA contracts for **M+1** and **M+12**.

1. Select **Month/Year** from the Filter options available on the UI.

2. Optional: Users can select LSE and Tie as well
3. Select **Add/View** Future NLN from the table.
4. Select **Add** to start a new submission line.



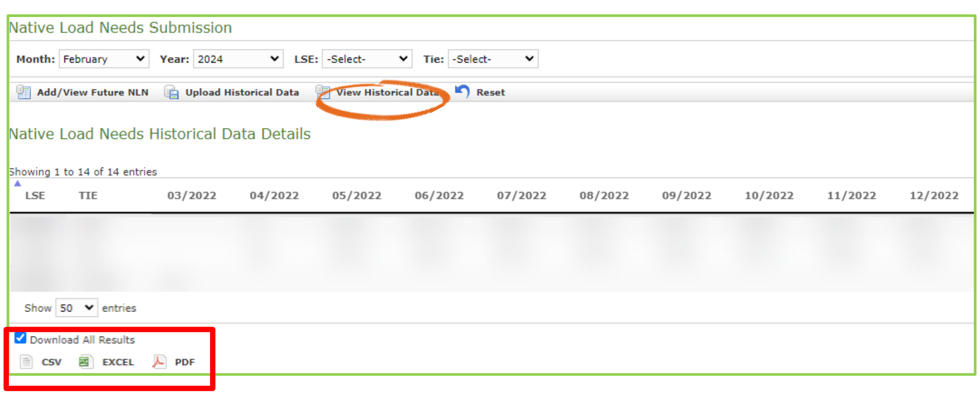
5. The **Month** and **Year** from the filter will be prepopulated for the desired submission request.
6. Select the **LSE** and **TIE** from the dropdown options. If LSE and Tie are selected in the filter, they will also be prepopulated.
7. Enter the value for **M+1** and **M+12**.
8. Enter the **Contract Hours**.
9. Click **Replacing RA Contract**.
10. Enter the **Replacement Intertie** and **Replacement (NLN) MW value**. Please note that the Replacement MW cannot be greater than the M+12 MW.

Note: Once information is added to the Future NLN, Rather than adding an entire new row, users can update a specific value in a column and select save.

3.13.2 View Historical Data

Users have the ability to view **Historical Data** by navigating to that tab. The LSE should review what historical data is currently in the system.

If changes need to be made:
1. Scroll to the bottom on the page and select **Download All Results.**
2. Click the corresponding icon for preferred downloading format (CSV, EXCEL, or PDF).



Note: Preferred downloading format is EXCEL or CSV when users are wanting to update the historical data listed.

3.13.3 Uploading Historical Data

Once a user has reviewed the **View Historical Data** tab, they will have the ability to upload any changes to the Historical Data.

To Upload Historical Data:

1. Use the **EXCEL** or **CSV** template provided from the data downloaded from the **View Historical Data** tab.
2. Once template is updated, select Upload Historical Data and then **Choose File** and upload the corresponding spreadsheet.
3. Check the **Attestation** box for acknowledgement.
4. Select **Upload**.

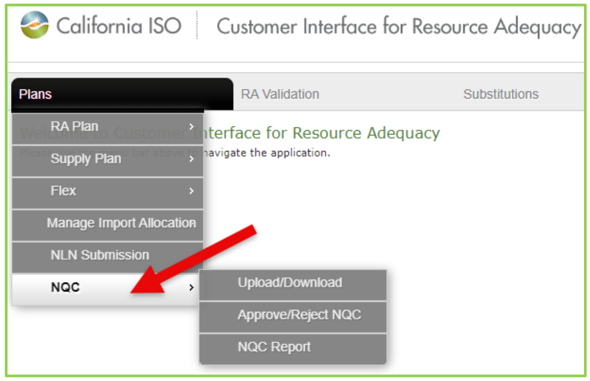
Note: Users are able to re-upload Historical Data multiple times. Each upload will override the previous entries.

3.14 Net Qualifying Capacity (NQC)

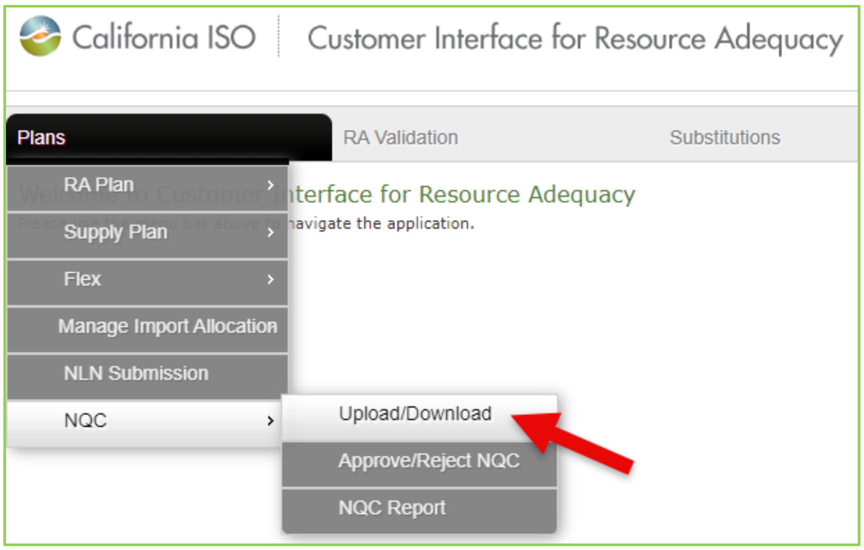
The NQC tab has a dropdown menu with three functions. The three functions of the NQC tab are **Upload/Download**, Approve/Reject NQC, and access the **NQC Report**.

To access this dropdown menu:

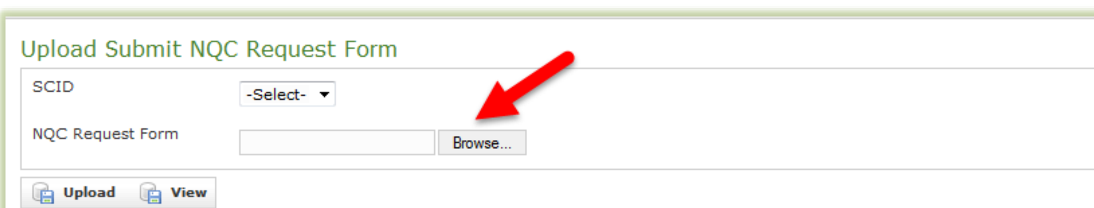
3. Navigate to **Plans**.
4. Select **NQC** from the dropdown menu.



3.14.1 Upload/Download NQC Request Form



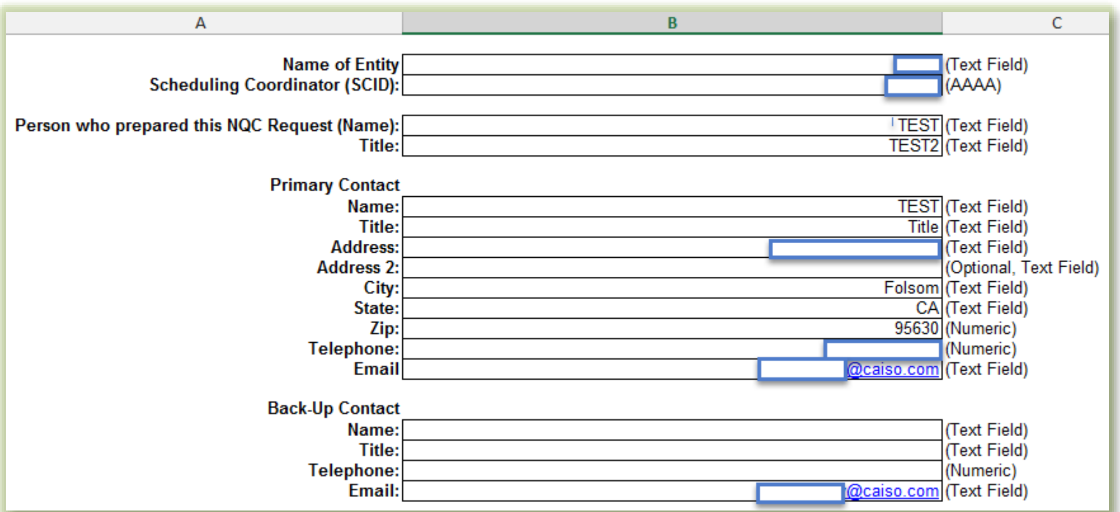
3. Select **Upload/Download** from drop down menu.
4. Select **SCID**.
5. Provide an upload file for the **NQC Request Form**.



Note: If a resource does not have a queue number, the SC must provide "NA" in the field.

The NQC template is used for NQC requests.
Under the **Admin Info** tab, complete the following template fields:

1. Enter Name of the Entity.
2. Enter a valid SCID.
3. Enter the person who prepared this NQC Request (Name) and Title.
4. Enter primary contact information such as name, title, address, valid telephone number, and valid e-mail address.
5. Enter back-up contact information: Name, Title, Telephone, and E-mail.

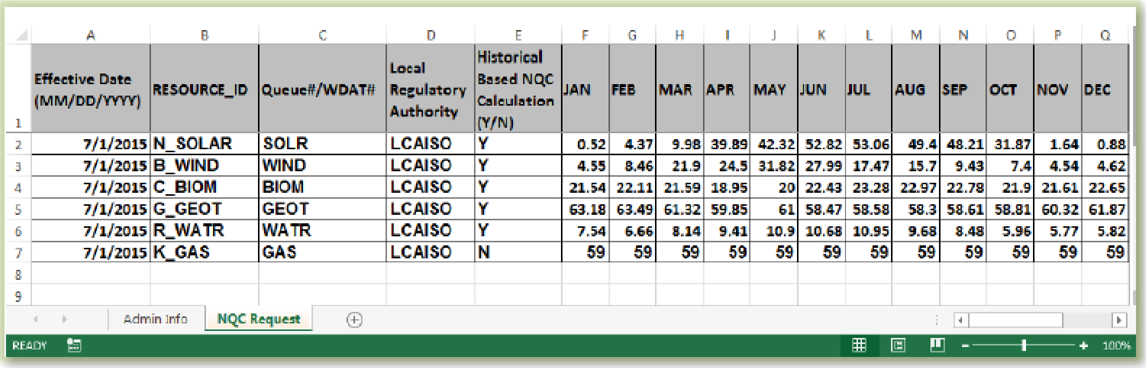


A	B	C
Name of Entity		(Text Field)
Scheduling Coordinator (SCID):		(AAAA)
Person who prepared this NQC Request (Name):	TEST	(Text Field)
Title:	TEST2	(Text Field)
Primary Contact		
Name:	TEST	(Text Field)
Title:	Title	(Text Field)
Address:		(Text Field)
Address 2:		(Optional, Text Field)
City:	Folsom	(Text Field)
State:	CA	(Text Field)
Zip:	95630	(Numeric)
Telephone:		(Numeric)
Email	@caiso.com	(Text Field)
Back-Up Contact		
Name:		(Text Field)
Title:		(Text Field)
Telephone:		(Numeric)
Email:	@caiso.com	(Text Field)

NQC Request

Fill in all columns with the required information:

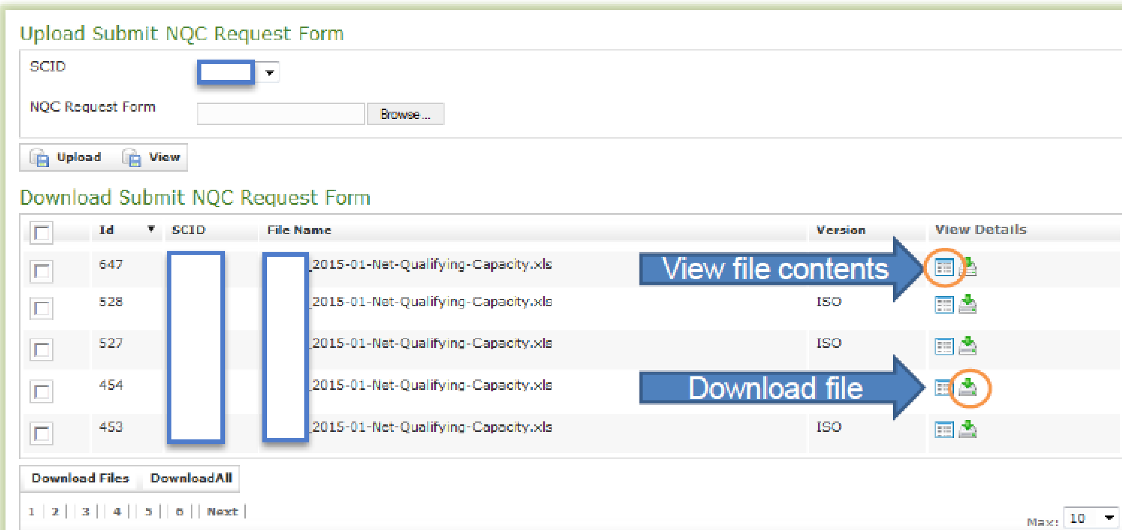
1. Enter the Effective Date (mm/dd/yyyy).
2. Enter the Resource ID - present in Master File (required) must be a valid resource ID and must be associated to the SCID in the ISO Master File
3. Enter the correct queue #/WDAT#. If the queue # is not known, then enter “NA”. The ISO will assign the queue.
4. Enter the Local Regulatory Authority.
5. Answer Yes (Y) or No (N) to Historical Based NQC Calculation.
   - If the answer to Historical Based is “Yes”, it is used to calculate the NQC and ISO must work with the local regulated authority to wire the NQC numbers.
6. The effective date must be the first business day of a month.



Effective Date (MM/DD/YYYY)	RESOURCE_ID	Queue#/WDAT#	Local Regulatory Authority	Historical Based NQC Calculation (Y/N)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
7/1/2015	N_SOLAR	SOLR	LCAISO	Y	0.52	4.37	9.98	39.89	42.32	52.82	53.06	49.4	48.21	31.87	1.64	0.88
7/1/2015	B_WIND	WIND	LCAISO	Y	4.55	8.46	21.9	24.5	31.82	27.99	17.47	15.7	9.43	7.4	4.54	4.62
7/1/2015	C_BIOM	BIOM	LCAISO	Y	21.54	22.11	21.59	18.95	20	22.43	23.28	22.97	22.78	21.9	21.61	22.65
7/1/2015	G_GEOT	GEOT	LCAISO	Y	63.18	63.49	61.32	59.85	61	58.47	58.58	58.3	58.61	58.81	60.32	61.87
7/1/2015	R_WATR	WATR	LCAISO	Y	7.54	6.66	8.14	9.41	10.9	10.68	10.95	9.68	8.48	5.96	5.77	5.82
7/1/2015	K_GAS	GAS	LCAISO	N	59	59	59	59	59	59	59	59	59	59	59	59

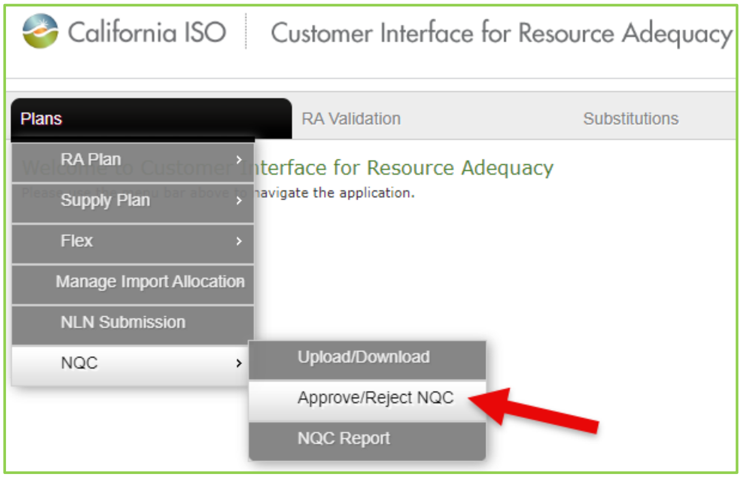
When the screen has loaded:

1. Select **View** to view the results.
2. Click **Show** to view details.
3. Click **Download** to download details.



3.14.2 Approve/Reject NQC

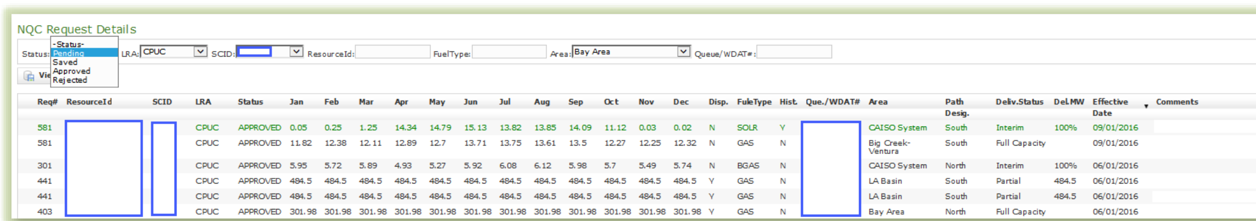
To view approved or rejected NQC request details, navigate from the **Plans** tab to **Approve/Reject NQC**.



Filter results by Status, LRA, SCID, Resource ID, Fuel Type, Area and Queue/WDAT#.

Click **View** for results and **Reset** to return to the previous screen. 

Note: Data in the Approve/Reject NQC tab is **View Only** for market participants. The ISO approves and rejects NQC requests.



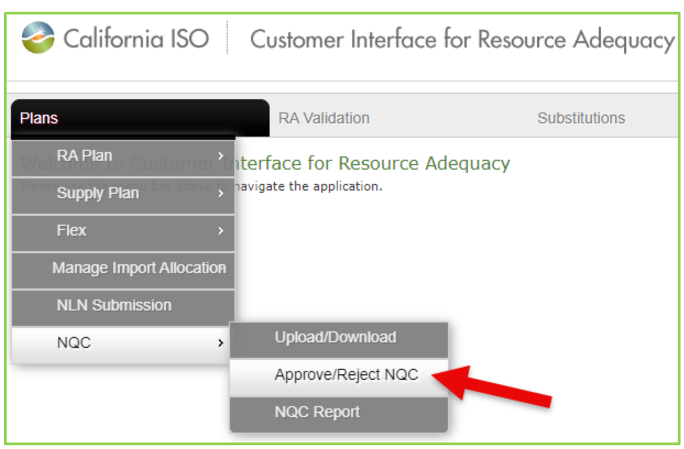
NQC Request Details

Status: -Status- / Pending / Saved / Approved / Rejected LRA: CPUC SCID: ResourceId: FuelType: Area: Bay Area Queue/WDAT#:

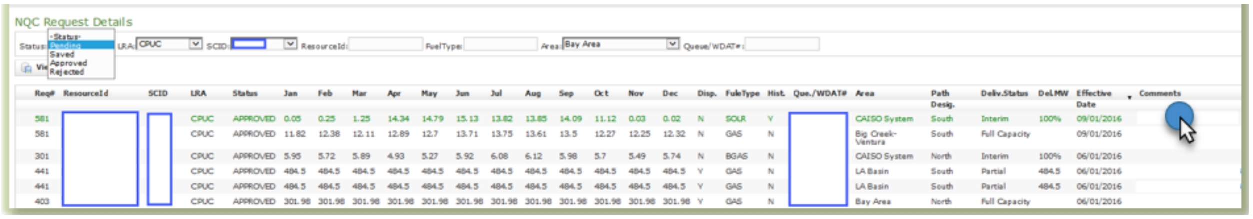
Req#	ResourceId	SCID	LRA	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Disp.	FuleType	Hist.	Que./WDAT#	Area	Path Desig.	Deliv.Status	Del.MW	Effective Date	Comments
581			CPUC	APPROVED	0.05	0.25	1.25	14.34	14.79	15.13	13.82	13.85	14.09	11.12	0.03	0.02	N	SOLR	Y		CAISO System	South	Interim	100%	09/01/2016	
581			CPUC	APPROVED	11.82	12.38	12.11	12.89	12.7	13.71	13.75	13.61	13.5	12.27	12.25	12.32	N	GAS	N		Big Creek-Ventura	South	Full Capacity		09/01/2016	
301			CPUC	APPROVED	5.95	5.72	5.89	4.93	5.27	5.92	6.08	6.12	5.98	5.7	5.49	5.74	N	BGAS	N		CAISO System	North	Interim	100%	06/01/2016	
441			CPUC	APPROVED	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	Y	GAS	N		LA Basin	South	Partial	484.5	06/01/2016	
441			CPUC	APPROVED	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	484.5	Y	GAS	N		LA Basin	South	Partial	484.5	06/01/2016	
403			CPUC	APPROVED	301.98	301.98	301.98	301.98	301.98	301.98	301.98	301.98	301.98	301.98	301.98	301.98	Y	GAS	N		Bay Area	North	Full Capacity		06/01/2016	

3.14.3 NQC Comments

To post comments during the Annual NQC Draft listing, navigate from the **Plans** tab to **Approve/Reject NQC**.

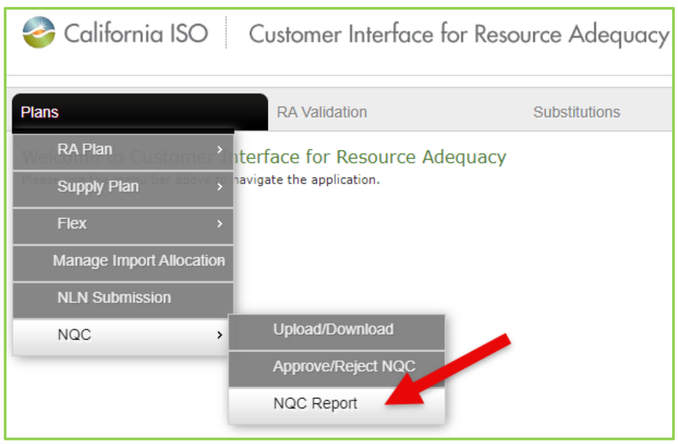


Users have the ability to comment in the far right **Comments** column to suggest changes to the NQC list. Be sure to click the **Save** button after posting comments.



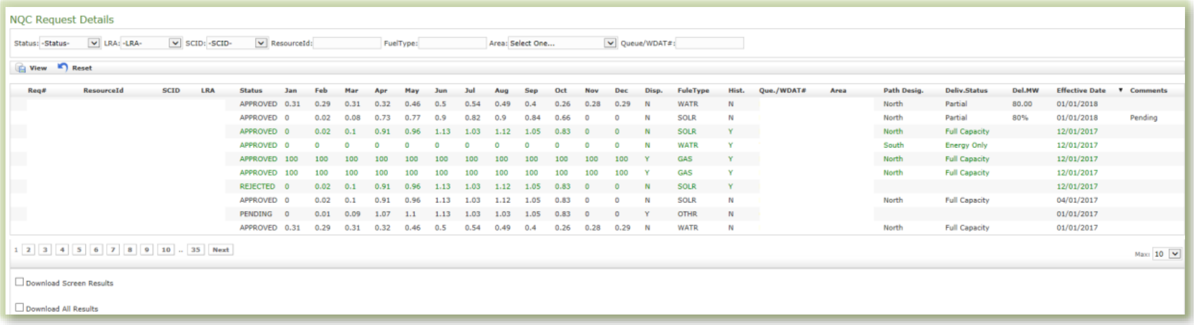
3.14.4 NQC Report

To view the NQC Report:
Navigate from the **Plans** tab to **NQC Report**.



This report will show the resource ID, the area, the generator name, and the results data by month. Click **Download** to download the results.

Note: Once the ISO has processed the request, the SC will receive an e-mail notification stating the request has been processed.



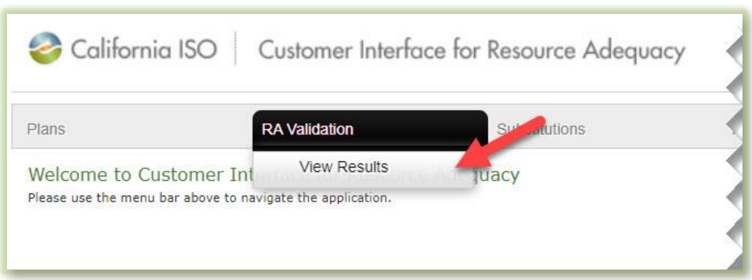
4 RA Validation

Validation runs are scheduled jobs that run in the system at set times during the day. The Cross Validation will run at 8AM, 12PM, 2PM between 44 days and 30 days prior to the compliance month. The Outage Impact Analysis for Planned Outages runs at 3AM, 8AM, 10AM, 12PM, and 2PM (Pacific) between 25 days prior to the start of the compliance month through the end of the compliance month.

If a new plan is submitted, it will get picked up the next time the cross validation runs. Likewise, if a new outage is submitted, it will be taken into account the next time the outage impact analysis job runs for that outage type.

Steps:

1. Navigate to **RA Validation**.
2. Select **View Results**.



After the screen has loaded:

3. Select Submittal Type as **Month Ahead/Year Ahead**.
4. Select the Target period **Month** (for monthly submittal type only) and **Year**.
5. Select the Validation Type:
    a. CV – visible to LSEs and Suppliers
    b. Flex_CV – visible to LSEs and Suppliers
    c. OIA – visible to Suppliers only
    d. POSO – visible to Suppliers only (no longer active – available for access to historical data)

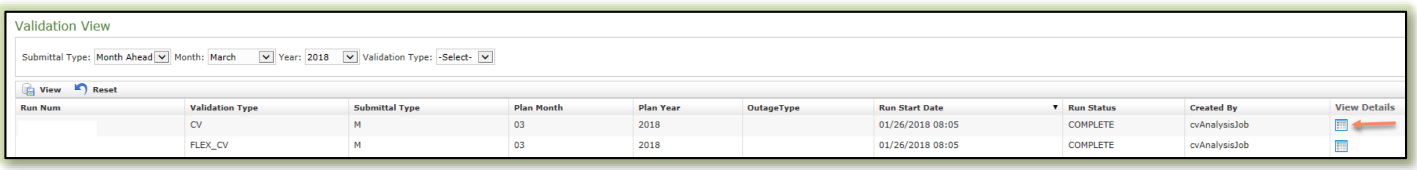
   e. RASC_CALC – visible to Suppliers only

6. Click **View** to display the results  .

4.1 Cross Validation (CV) Runs

Cross validation (CV) runs validate RA and Supply Plans for deficiencies and discrepancies.

Details shown on the grid are the Cross Validation Run Number, Validation Type (CV in this case), Submittal Type (M for Monthly), Plan Month, Plan Year, Outage Type, Plans Effective as of date, Run Start Date, Created By, and View Details. The View Details column displays one button for viewing input and one for viewing results.



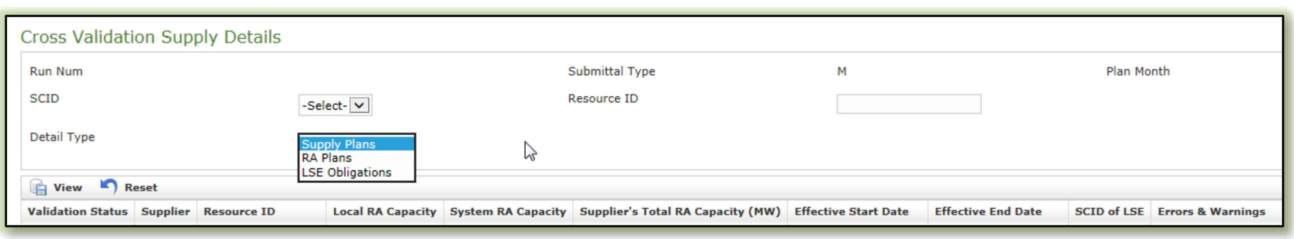
The details of the cross-validation are presented in 3 views:

1. Supply Plans
2. RA Plans
3. LSE Obligations

4.1.1 Cross Validation Supply Plan Details

On this screen, user can view cross validation results errors and warnings associated to the Supply Plan. The screen can be filtered on:

1. SCID – an optional filter on the SCID is available
2. Resource ID – details can be filtered for a specific resource ID



Details presented are:

1. Validation Status: On completion of a cross validation run, the application will set the plan status to **Re-submittal Required** if the plan has errors. The SC needs to resubmit the plan to correct errors.
2. Supplier: The SC ID of the resource

3. Resource ID
4. Local RA Capacity: MW in the Local RA column of the supply plan for the resource
5. System RA Capacity: MW in the System RA column of the supply plan for the resource
6. Supplier's Total RA Capacity (MW): Sum of the Local and System RA columns
7. Effective Start Date: Start date from the Supply Plan
8. Effective End Date: End date from the Supply Plan
9. SC ID of the LSE: LSE ID from the Supply Plan
10. Errors and Warnings:
    a. Passed records will have no value in this column.
    b. Warnings will have a message stating system level checks and overrides that were applied.
    c. Errors will have a message prompting corrective action that is needed by the SC.

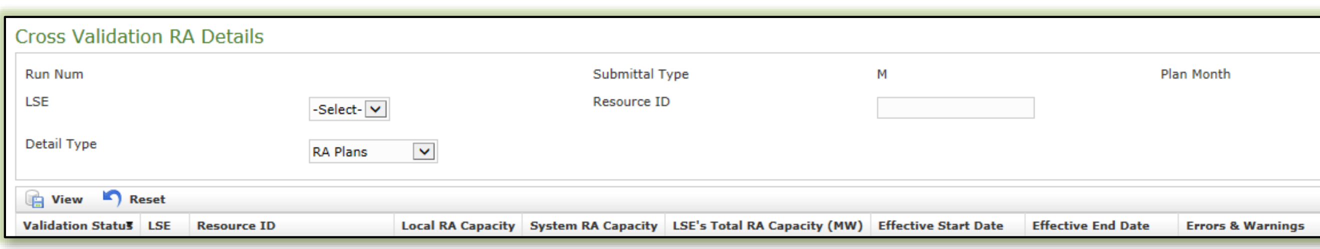
Note: Note: Resources will now be cross referenced against corresponding RA plan for Local and System RA Capacity listings.

Resource, RA Type, Start and End Dates must match exactly for associated Supply and RA Plans.

4.1.2 Cross Validation RA Details

On this screen, the user can view cross validation results, errors, and warnings associated to the RA Plan. The screen can be filtered on:

1. LSE: An optional filter on the ID is available.
2. Resource ID: Details can be filtered for a specific resource ID.



If there are errors resulting from cross validation, then the SC has to fix the error on the RA Plan or the Supply Plan by resubmitting a correct plan or else the ISO will default to Supply Plan data.

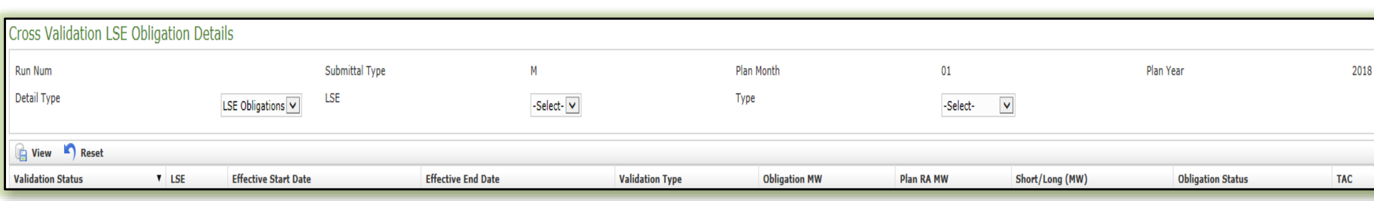
Details presented are:

1. Validation Status: On completion of a cross validation run, the application will set the plan status to **Resubmittal Required** if the plan has errors and LSE needs to resubmit the plan to correct errors.
2. LSE: LSE ID from the RA Plan
3. Resource ID
4. Local RA Capacity: MW in the Local RA column of the RA plan for the resource
5. System RA Capacity: MW in the System RA column of the RA plan for the resource
6. LSE's Total RA Capacity (MW): Sum of the Local and System RA columns
7. Effective Start Date: Start date from the RA Plan
8. Effective End Date: End date from the RA Plan
9. Errors and Warnings:
   a. Passed records will have no value in this column.
   b. Warnings will have a message stating the system level checks and overrides that were applied.
   c. Errors will have a message prompting corrective action that is needed by the SC.

4.1.3 Cross Validation LSE Obligations Details

On this screen the user can view cross validation results warnings associated to RA Plans. This screen notifies the LSE of the RA capacity shortage in a TAC area. The screen can be filtered on:

1. LSE – an optional filter on the ID is available
2. Type –
   a. Peak Demand
   b. LCR by TAC
   c. Listed Local



Details from this screen are:

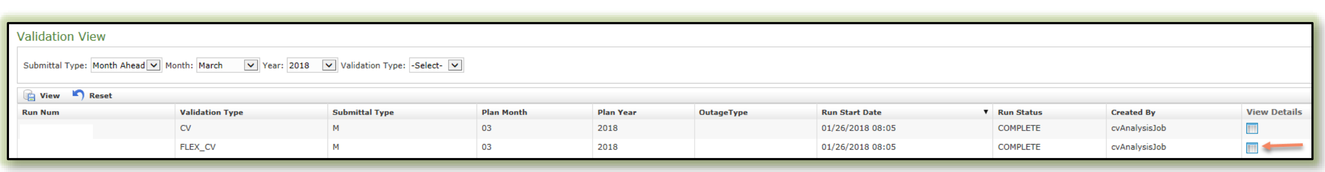
1. Validation Status
    a. Warning: If the cross validation run has LCR by TAC warnings or Peak demand and reserve margin warnings, then it is up to the LSE to cure the deficiency by resubmitting a revised RA Plan else the ISO may enforce Tariff Section 43 – CPM.
    b. Passed
2. LSE: LSE ID
3. Effective Start Date: Start of the compliance month
4. Effective End Date: End of the compliance month
5. Validation Type
    a. LCR by TAC
    b. Peak Demand
    c. Listed Local
6. Obligation MW
7. Plan RA MW: RA that has passed cross validation
8. Short/ Long MW: The absolute difference between RA and Obligation MW
9. Obligation Status: Status is Short when RA is less than the Obligation MW else it is Long
10. TAC: Populated for LCR by TAC and Listed Local checks

4.2 Flex Cross Validation Runs

From the **RA Validation** > **View Results** page, select:

1. Submittal type
2. Month: For monthly showing
3. Year
4. Validation type: Select **Flex CV**. This is an optional filter.

Click **View** to see the Flex CV runs, then click **Results**.



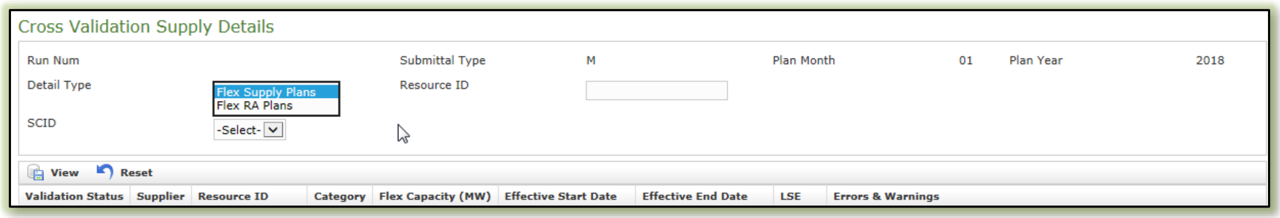
Detail Type: Select from one of 2 options:

1. Flex Supply Plans: Default view
2. Flex RA Plans

4.2.1 Flex Cross Validation Supply Details

On this screen, the user can view flex cross validation results, errors, and warnings associated to the Flex Supply Plan. The screen can be filtered:

1. Resource ID: Details can be filtered for a specific resource ID.
2. SCID: An optional filter on the SCID is available.



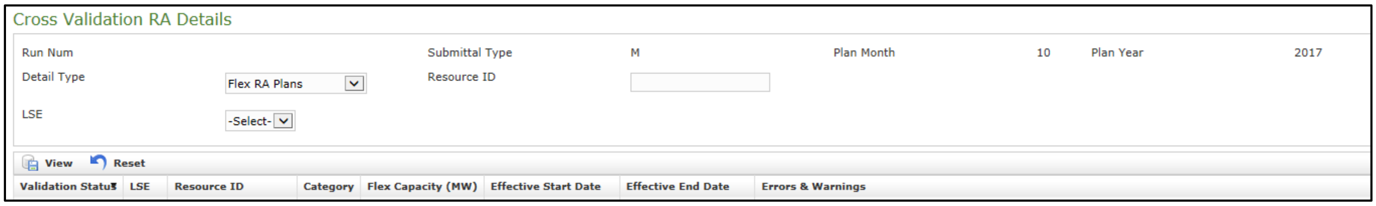
Details from this screen are:

1. Validation Status: Warning / Passed / Error
2. Supplier: SC ID
3. Resource ID
4. Category: Flex Category
5. Flex Capacity (MW): Flex MW from the Supply Plan
6. Effective Start Date: Start date from the Supply Plan
7. Effective End Date: End date from the Supply Plan
8. LSE: LSE ID in the Supply Plan
9. Errors and Warnings:
    a. Passed records will have no value in this column
    b. Warnings will have a message stating the system level checks and overrides that were applied
    c. Errors will have a message prompting corrective action that is needed by the SC

4.2.2 Flex Cross Validation RA Details

On this screen, the user can view flex cross validation results, errors, and warnings associated to the Flex RA Plan. The screen can be filtered:

1. Resource ID: Details can be filtered for a specific resource ID.
2. LSE: An optional filter on the LSE is available.



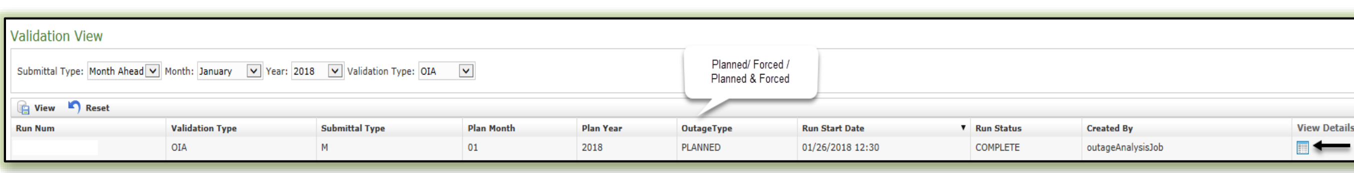
Details from this screen are:

1. Validation Status: Warning / Passed / Error
2. LSE: LSE ID from the RA Plan
3. Resource ID
4. Category: Flex Category
5. Flex Capacity (MW): Flex MW from the RA Plan
6. Effective Start Date: Start date from the RA Plan
7. Effective End Date: End date from the RA Plan
8. Errors and Warnings
   d. Passed records will have no value in this column.
   e. Warnings will have a message stating the system level checks and overrides that were applied.
   f. Errors will have a message prompting corrective action that is needed by the LSE. On completion of a flex cross validation run, the application will set the plan status to **Resubmittal Required** if the plan has errors and LSE can resubmit the RA plan to correct errors.

If errors result from flex cross validation, then the SC has to fix the error on the RA Plan or the Supply Plan by resubmitting a correct plan else the ISO will default to Supply Plan data. If the cross validation run has Flex Analysis warnings, then it is up to the LSE to cure the deficiency by resubmitting a revised RA Plan.

4.3 Outage Impact Analysis (OIA)

A supplier can see the impact of planned and/or forced outages by selecting the **OIA** validation type and clicking the details as shown below. The **Outage Type** field on this view indicates the types of outages for which the analysis was done.



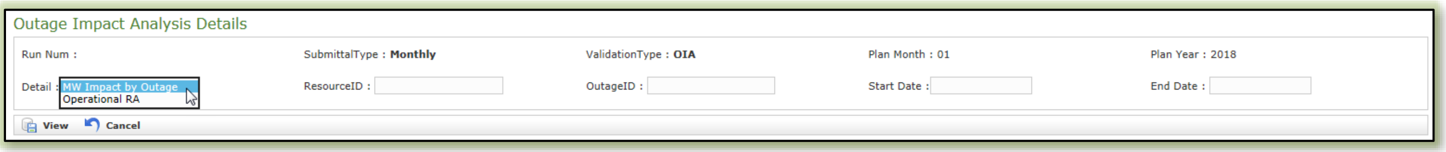
Outage Analysis calculates:

a. Outage Impact on the compliance month RA

b. Operational RA for Planned Outages, Forced Outages, and Planned and Forced Outages.

Outage Impact Analysis will consider outage in status other than Received, Cancelled, and Disapproved.

The user can pick from the two reports by selecting from the **Detail** drop-down menu as shown below.



4.3.1 MW Impact by Outage

The intent of this report is to provide the impact to the compliance month RA due to the outage. If the analysis is run on planned outages then only the planned outages are considered. Likewise, the analysis can be run for only forced outages or both planned and forced outages.

Example: Resource A has a PMax of 100 MW and has committed RA for 70 MW. The resource has a planned outage O1, with curtailment for 50 MW. The resource has an availability of 100-50 = 50 MW. The impact due to O1 is 70-50 = 20 MW.

It is important to note that the Planned Outage Substitution Obligation which will be further detail in the next section, only considers Planned outages.

This screen can be filtered on:

1. Resource ID
2. Outage ID
3. Start Date: Start date within the compliance month for which this analysis was run
4. End Date: End date within the compliance month for which this analysis was run

Click **View** to see the results.

Details presented on the screen are:

1. Run ID: Internal system ID that uniquely identifies the OIA run
2. Resource ID
3. Impact MW: Impact to RA MW due to the outage
4. Short/ Long: If impact is positive then the status is Short else Long

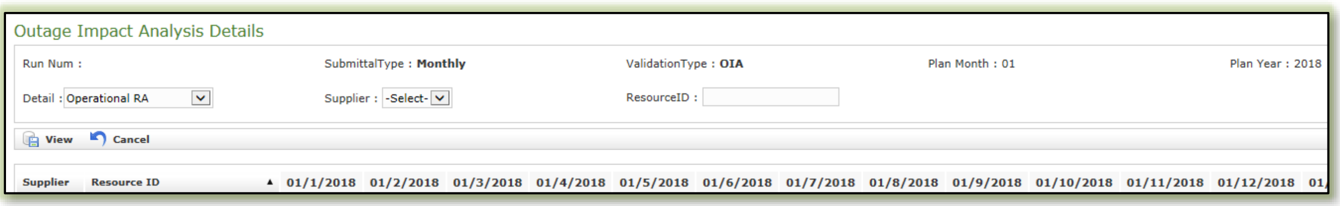
5. Start Date: Start date of the outage
6. End Date: End date of the outage
   If the outage spans multiple days, there is a row for each day
7. Outage ID: One or more of the outages that the resource is on
8. Outage Status: Status of the outage when the outage impact analysis was run
9. Priority TS: Priority timestamp pertaining to the outage. This continues to follow the rules that when the curtailment increases, outage worsens the priority changes becomes more recent.

4.3.2 Operational RA

This report shows the Operational RA for each day of the compliance month. RA can be from Plan showings (after successful validation), Substitution or CPM.
The report can be filtered on:

1. Supplier ID
2. Resource ID

The report will show results if the resource has RA for even one day in the compliance month. The RA data is at a daily granularity.
Click **View** to see the results.



4.4 Resource Adequacy Substitute Capacity (RASC)

No later than 29 days before the start of the RA month, the ISO will assign a RASC obligation for RA resources on Planned Outages.

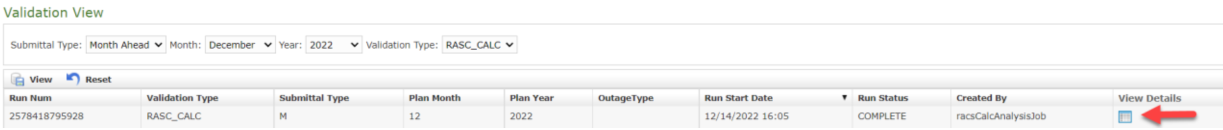
The RASC results will be displayed when the RASC is run for planned outages and there is an impact on RA capacity due to planned outages in the month.

The RASC process runs at 8am every day beginning at T-29 days and runs until the end of the RA month.

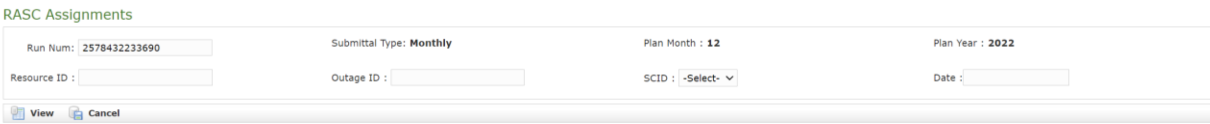
All Planned Outages irrespective of nature of work are considered for analysis and require substitution, except for Off Peak Opportunity and Transmission Induced outages. If no substitution is provided, the Planned Outage will be denied.

There is **no automatic notification** on an assignment of RASC. The SC for the resource is responsible for tracking RASC assignments in CIRA and providing RA substitution (via the Planned Substitution screens) accordingly.

Select the Validation Type of RASC_CALC and click **View** to see the RASC assignments.

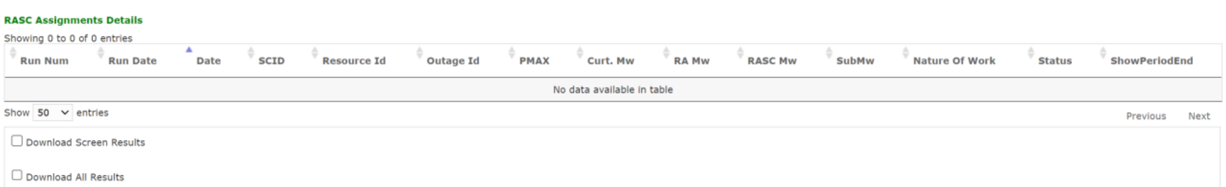


To see which resources have been assigned RASC for a specific trade date, click the icon in the **View Details** column to see the **RASC Assignments** screen.



View Options:

1. Click **View** to see the results.
2. The **RASC Assignment Details** are as follows:
    a. Run Number
    b. Run Date
    c. Date
    d. SCID
    e. Resource ID
    f. Outage ID
    g. PMAX
    h. Curtailment Megawatts
    i. RA Megawatts
    j. RASC Megawatts (the amount of RA substitution the SC of the resource needs to provide)
    k. Substitute Megawatts (the amount of RA substitution already provided by the SC of the resource, if any)
    l. Nature of Work (pertaining to the specific outage)
    m. Status (Covered or Not Covered. The status will remain "Not Covered" until full substitution is provided.)
    n. Show Period End (the deadline for providing substitution)

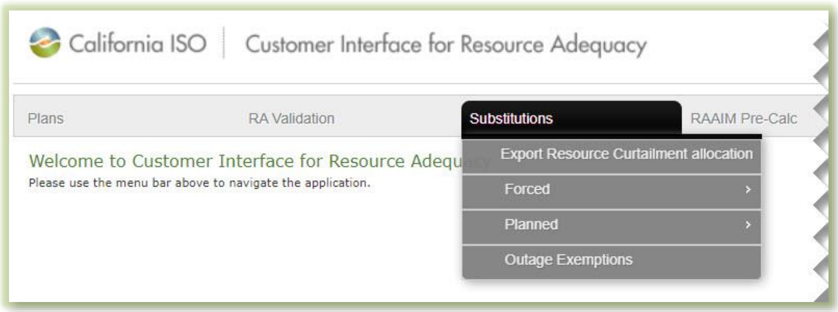


Download Options:

1. Check the box to download the screen results or to download all results and save them as a CSV, Excel, or PDF.

5 Substitutions

The **Substitutions** tab provides substitution information for the user. The Substitutions drop-down menu allows the user to select from the following: **Export Resource Curtailment allocation**, **Forced**, **Planned**, and **Outage Exemptions**.

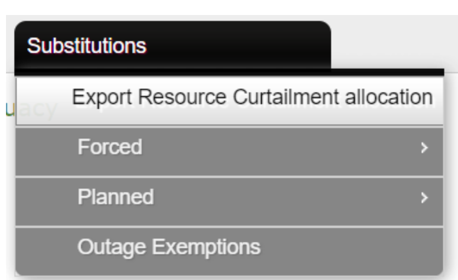


Use the matrix below as a guide to determine which screen to navigate to for providing substitution:

RA Type	Source of RA	Outage Type	Substitution Screen Used
Generic RA	Plan, CPM, Substitution	Planned	Planned Substitution, if RASC is assigned
Generic RA	Plan, CPM, Substitution	Forced	Forced Substitution
Flex RA	Plan, CPM, Substitution	Planned	Forced Substitution
Flex RA	Plan, CPM, Substitution	Forced	Forced Substitution

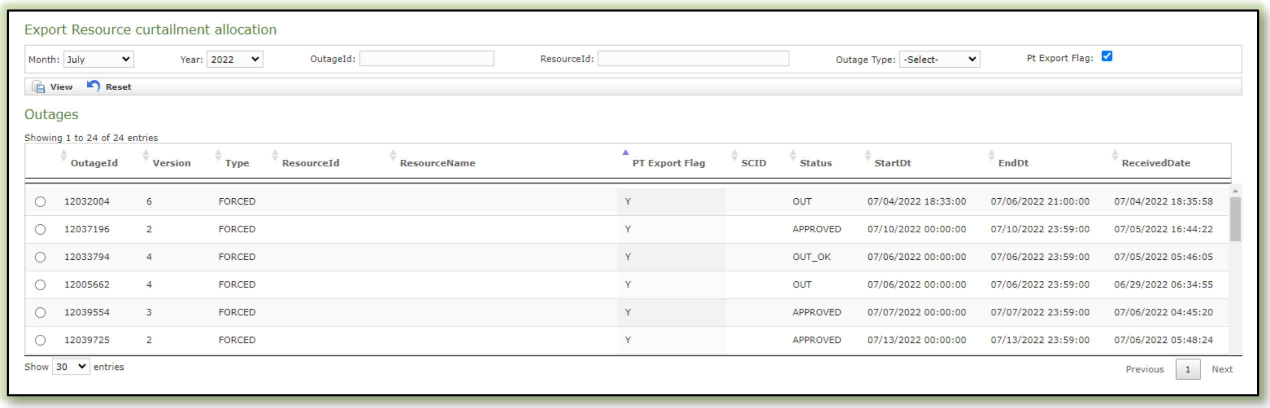
5.1 Export Resource Curtailment Allocation

This screen is for resources that are supporting an export and identified as such in the Master File. This screen is provided to inform the ISO of how much of an outage derate is impacting RA and how much is impacting the export.



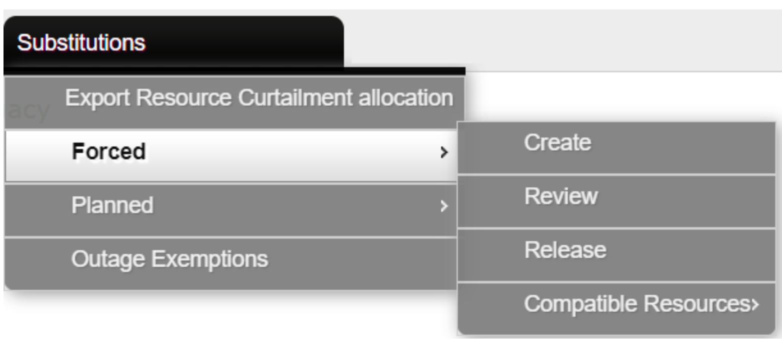
Planned outages on export resources must complete this allocation prior to substituting or their outage will get denied.

Forced outages on export resources must complete this allocation or the ISO will prorate the allocation between RA and non-RA.



5.2 Forced

This tab involves substitutions in the Forced timeframe and consists of: **Create**, **Review**, **Release**, and **Compatible Resources**.



5.2.1 Create

The screen is used to create substitution for forced outages. The user can use one or more of the following fields to find the resource requiring substitution:

1. Trade Month
2. Trade Year
3. Outage ID
4. Outage Type: Values are ALL, Forced, and Planned (for Flex)
5. Resource ID
6. Supplier SC
7. Substitution Required: This field is driven based on the exemption rules, esp. the NOW. It is not tied checking if the resource has RA for the compliance month.

Click **Show Outages** to see the list of outages.

Create Forced Outage Substitution

Review Forced Outage Substitution

Trade Month January	Trade Year 2018	Outage ID	Outage Type ALL
Resource ID	Supplier SC -SCID-	Substitution Required -Select-	
Show Outages	Show/Hide Results		

A screen, similar to the one seen below, will appear by clicking **Show Outages**. Here the user can see if substitution is required on their outage.

Select Outage	Resource ID	Resource Name	Area	Outage ID	Outage Type	Start Date	End Date	Nature of Work	SC ID	Substitution Required	RA Information
○			Big Creek-Ventura		FORCED	08/30/2017 11:27:00	09/30/2018 17:00:00	ENVIRONMENTAL_RESTRICTIONS		YES	Generic RA Flex RA
○			Big Creek-Ventura		FORCED	01/09/2017 12:00:00	12/31/2020 23:59:00	AMBIENT_NOT_DUE_TO_TEMP		YES	Generic RA Flex RA
○			CAISO System		FORCED	10/31/2016 14:16:00	12/31/2019 23:59:00	PLANT_TROUBLE		YES	Generic RA Flex RA
○			LA Basin		FORCED	01/19/2018 15:18:00	01/22/2018 00:00:00	PLANT_MAINTENANCE		YES	Generic RA Flex RA
○			LA Basin		FORCED	12/29/2017 00:00:00	01/31/2018 23:59:00	PLANT_MAINTENANCE		YES	Generic RA Flex RA
○					FORCED	12/29/2017 00:00:00	01/30/2018 23:59:00	PLANT_TROUBLE		YES	Generic RA Flex RA
○					FORCED	12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEMP		YES	Generic RA Flex RA
○			LA Basin		FORCED	12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEMP		YES	Generic RA Flex RA

When the user clicks **Generic RA**, the pop-up displayed breaks out the RA into its components: Local, System, and CPM MW.

Generic RA Information(REDOND_7_UNIT 5)

Start Date	End Date	NQC	Total RA MW	Local MW	System MW	CPM MW	Dispatchable	Area
01/01/2018	01/04/2018	178.87	120.87	120.87	0	0	Yes	LA Basin
01/05/2018	01/05/2018	178.87	0.0	0	0	0	Yes	LA Basin
01/06/2018	01/09/2018	178.87	120.87	120.87	0	0	Yes	LA Basin
01/10/2018	01/12/2018	178.87	62.87	62.87	0	0	Yes	LA Basin
01/13/2018	01/31/2018	178.87	120.87	120.87	0	0	Yes	LA Basin

Once an outage selection is made a screen like the one seen below will appear. Here, the user can review the substitution amount and the days for which substitution is required. Substitution criteria available are as follows:

1. Resource ID: Optional, for a specific substitute resource ID
2. SC ID: Optional, for a specific SC ID to be used for substitute resources
3. Area: Optional, for a specific local area to be used
4. Resource with Non-RA capacity left: Checked by default. A substitute resource should have non-RA capacity left in order to substitute
5. Compatible only: Use this flag when applicable based on the rules for substitution
6. Third party resources: By default, the system will search for resources belonging to the same supplier as the original resource. Check this box when searching for third party resources.

Note: When creating third-party substitutions, the name, email, and phone number of the SC will be populated using data provided from the **Admin Info** tab in the supply plan.

7. Physical / ITIE: Use this radio button as needed when searching for substitute resources in keeping with substitution rules for Local versus System MW
8. Substitution Type: Values are Generic and Flex
9. Market Timeframe: Values are RT (for Real-Time) and DA (for Day-Ahead)
10. Substitution Start Date: Start date for providing substitution. The substitution start date can be a date after the outage start date. The substitution start date will be aligned with the Day-Ahead Market (DAM) timeframe.

Note: Users should take care to put in a start date when they have a positive substitution to provide esp. when using a third party resource for substitution. This is to avoid a situation wherein there is not adequate time to approve the substitution due to a bad choice of a start date.

11. Substitution End Date

Click **Search** to view substitute resources.

Resource ID	Resource Name	SC ID	RA Info	Outages	Area	Compatible	Dispatchable	Select
			Generic RA Flex RA	View	LA Basin	No	Yes	Add
			Generic RA Flex RA	View	LA Basin	No	Yes	Add
			Generic RA Flex RA	View	LA Basin	No	No	Add
			Generic RA Flex RA	View	LA Basin	No	No	Add
			Generic RA Flex RA	View	Big Creek-Ventura	No	No	Add
			Generic RA Flex RA	View	LA Basin	No	No	Add
			Generic RA Flex RA	View	CAISO System	No	No	Add

The user can then add resources that they would like to use as substitution and enter in MW amount for each substituting resource. When MW outage amount has been completely substituted for, the user can then submit their request.

It is up to the user to determine the substitution split across the local, system and CPM MW. The system will restrict the user from submitting substitution MW to exceed the corresponding break-up of the original resource. Example: In the screenshot below, the original resource has Local RA of 38 MW, System RA of 7 MW and CPM of 38.09 MW. A substitute resource cannot provide Local MW greater than 38 MW, System MW greater than 7 MW and CPM MW greater than 38.09 MW.

Day	01/27	01/28	01/29	01/30	01/31
Curtailment MW	32.09	32.09	32.09	32.09	32.09
Local RA MW	38	38	38	38	38
System RA MW	7	7	7	7	7
CPM MW	38.09	38.09	38.09	38.09	38.09
Total RA MW	83.09	83.09	83.09	83.09	83.09
Local Cumulative Sub Cap	0.00	0.00	0.00	0.00	0.00
System Cumulative Sub Cap	0.00	0.00	0.00	0.00	0.00
CPM Cumulative Sub Cap	0.00	0.00	0.00	0.00	0.00
Total Cumulative Sub Cap	0.00	0.00	0.00	0.00	0.00
Remove					
Availability MW	96.65	96.65	96.65	96.65	96.65
Eligible Non-RA Capacity	36.65	36.65	36.65	36.65	36.65
Local Substitute MW	0	0	0	0	0
System Substitute MW	0	0	0	0	0
CPM Substitute MW	0	0	0	0	0

5.2.2 Review

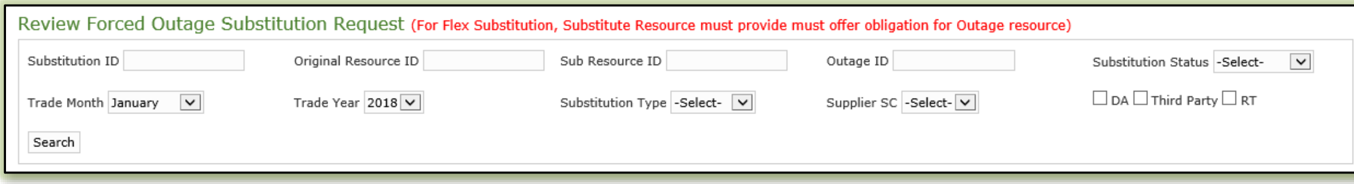
The user can search, update and cancel forced substitutions on this screen.

<u>Search function:</u>

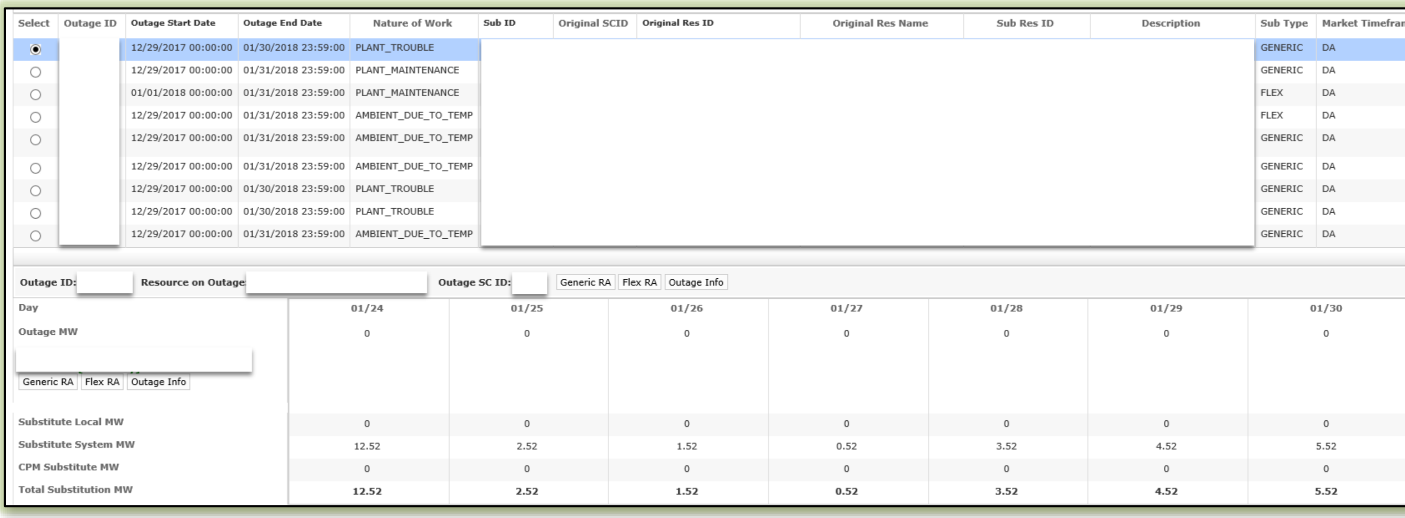
Under this tab the user can Review forced substitutions they have already created by searching with the below fields:

1. Substitution ID: Internal system ID for a substitution
2. Original resource ID
3. Sub Resource ID: ID of the substitute resource
4. Outage ID
5. Substitute Status: Optional search. The user can choose to search on a specific status or leave the field blank to look at all possible status values, which are:
   a. Approved
   b. Pending
   c. Rejected
   d. Cancelled
6. Trade Month
7. Trade Year
8. Substitution Type: This is the RA type to provide either Generic or Flex substitution
9. Supplier SC
10. DA: Check box to search for only Day-Ahead Market substitutions
11. Third Party: Check box to search for substitutions using only third-party resources
12. RT: Check box to search for only Real-Time Market substitutions

Click **Search** to view results.



After clicking **Search** a screen will appear showing user information based on substitutions made.



Select	Outage ID	Outage Start Date	Outage End Date	Nature of Work	Sub ID	Original SCID	Original Res ID	Original Res Name	Sub Res ID	Description	Sub Type	Market Timefram
◉		12/29/2017 00:00:00	01/30/2018 23:59:00	PLANT_TROUBLE							GENERIC	DA
○		12/29/2017 00:00:00	01/31/2018 23:59:00	PLANT_MAINTENANCE							GENERIC	DA
○		01/01/2018 00:00:00	01/31/2018 23:59:00	PLANT_MAINTENANCE							FLEX	DA
○		12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEMP							FLEX	DA
○		12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEMP							GENERIC	DA
○		12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEMP							GENERIC	DA
○		12/29/2017 00:00:00	01/30/2018 23:59:00	PLANT_TROUBLE							GENERIC	DA
○		12/29/2017 00:00:00	01/30/2018 23:59:00	PLANT_TROUBLE							GENERIC	DA
○		12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEMP							GENERIC	DA

Outage ID: Resource on Outage: Outage SC ID: Generic RA Flex RA Outage Info

Day	01/24	01/25	01/26	01/27	01/28	01/29	01/30
Outage MW	0	0	0	0	0	0	0
Generic RA Flex RA Outage Info							
Substitute Local MW	0	0	0	0	0	0	0
Substitute System MW	12.52	2.52	1.52	0.52	3.52	4.52	5.52
CPM Substitute MW	0	0	0	0	0	0	0
Total Substitution MW	**12.52**	**2.52**	**1.52**	**0.52**	**3.52**	**4.52**	**5.52**

Actions that can be performed on the Review Forced Substitution screen are:

1. Update: To make changes to a pending substitution within its market time-frame
2. Approve: To approve pending third party substitutions
3. Reject: To reject pending third party substitutions
4. Cancel: To cancel/ nullify the substitution prior to the start of the substitution.
   a. A cancellation cannot be performed if the start date of the substitution is for trade date for which the DAM has already run.
   b. If there are multiple substitute resources used for a single substitution transaction, a cancel action would cancel all the substitute resources and transfer the RA to the original resource.

The user needs to select one or more substitute resource and then click the action that is needed to be performed on these resources.

Note: The system provides the user the flexibility of adding multiple substitute resources in a single substitution. Use caution with the cancel option because a cancellation is applicable at the substitution level and not at each substitute resource level.

5.2.3 Release

The release function is to help the supplier release a substitution that has already started from specific date until the end of the substitution.
Release will then transfer the RA back to the original resource for those dates when the substitution was released.

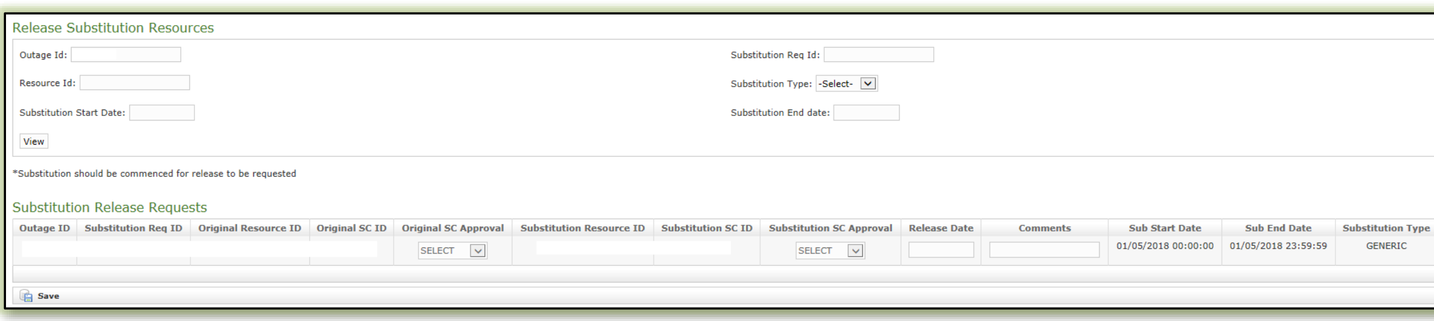
The release function is used mostly when an outage shortens and the original resource is available. Substitution is no longer necessary for the period after the outage ends. There is no automatic function to terminate the release in CIRA when the outage ends earlier in OMS, so it is left to the supplier’s discretion to release the substitution in CIRA in this circumstance.

A user can search for the substitution using one or more of the following parameters:

1. Outage ID
2. Substitution Req ID: Internal Substitution request ID
3. Resource ID

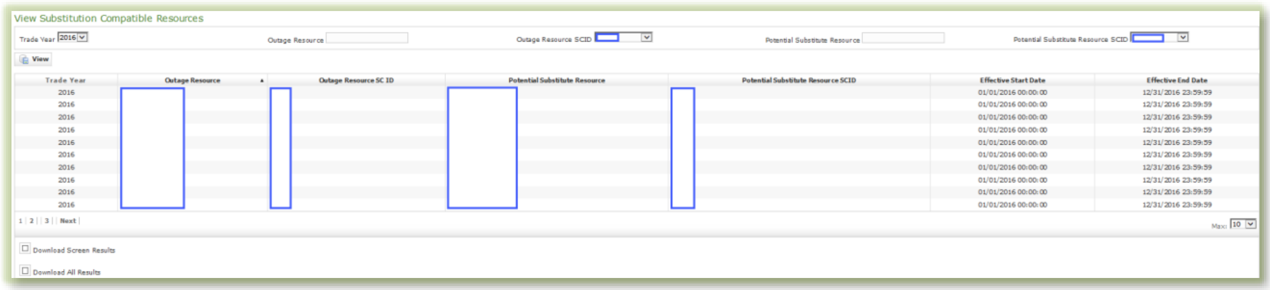
   Either outage ID or Substitution request ID or resource ID is required in the search criteria
4. Substitution Type: Generic or Flex
5. Substitution Start Date
6. Substitution End Date

Once the substitutions are selected and a release request is put in, the supplier for the original and substitute resource need to approve the request. In cases where the supplier is the same for both resources, it will be the same entity approving the request.



5.2.4 Compatible Resources

To view substitution compatible resources, enter **Trade Year** from the drop down menu, **Outage Resource**, **Outage Resource SCID** from the drop down menu, **Potential Substitute Resource**, and **Potential Substitute Resource SCID** from the drop down menu. Click **View** to view the report.



Refer to the Substitution Rules Matrix for rules detailing when compatible resources are needed: http://www.caiso.com/Documents/SubstitutionRulesMatrix-Generic-FlexibleResourceAdequacy.xlsx

5.3 Planned

This tab involves substitutions in the Planned timeframe and consists of: **Create** and **Review**.

5.3.1 Create

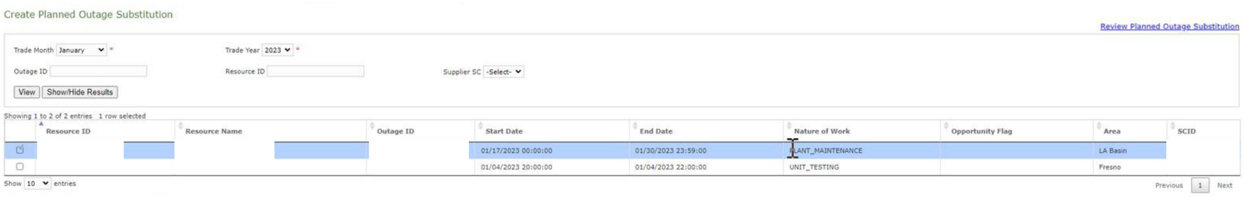
Under **Substitutions** > **Planned** > **Create** menu, substitutions for planned outage with a RASC obligation are created.

Pre-requisites for creating a planned substitution are:
(a) The resource with a planned outage has RA for the compliance month
(b) The planned outage has a curtailment with an impact (>0) on RA

Filter options available on the screen are as follows:

1. Trade Month

2. Trade Year
3. Outage ID: Optional field
4. Resource ID: Optional field
5. Supplier SC: Optional field



Details presented on the screen are as follows:

1. Resource ID
2. Resource Name
3. Outage ID: Outage that has RASC assigned
4. Start Date: Start date of the outage
5. End Date: End date of the outage
6. Nature of Work: Associated with the outage
7. Opportunity Flag: Associated with the outage
8. Area: Local area of the resource
9. SCID: Supplier ID of the resource

Once an outage selection is made a screen like the one seen below will appear. Here, the user can review the substitution amount and the days for which substitution is required.

Criteria for searching and selecting the substitute resources provided are:

1. Sub start date: Start date for providing substitution. The substitution start date can be a date after the outage start date. The substitution start date will be aligned with the Day-Ahead Market (DAM) timeframe.

Note: Users should take care to put in a start date when they have a positive substitution to provide esp. when using a 3rd party resource for substitution. This is to avoid a situation wherein there is not adequate time to approve the substitution due to a bad choice of a start date.

The user can then fill out the information for the substitution unit they desire and a drop down like the one seen below will give them a list a potential resources to choose from. The user can then add the resources to meet their substitution obligation.

Planned Substitute Resource Selection

Sub Start Date * | Sub End Date * | Only Third Party Resources | Non-RA Capacity Only

Resource ID | SC ID -SCID- | Area -Select-

Search | Show/Hide Results

Substitute MW

*Press Ctrl + -> or Ctrl + <- keys to copy data in the cells right or left

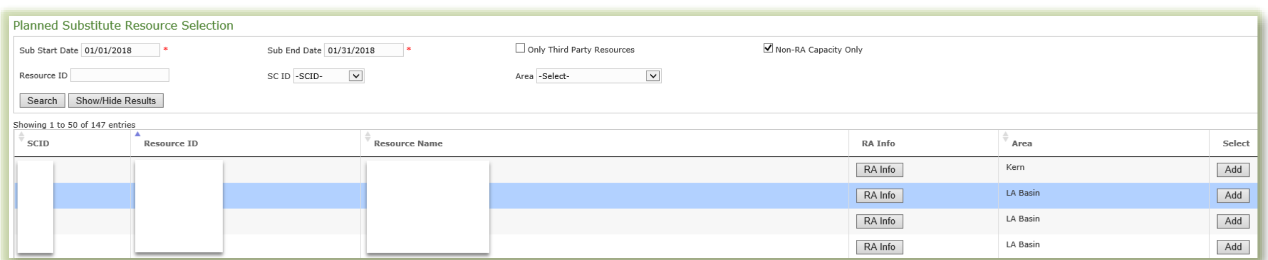
Outage ID: | Resource on Outage: | Outage SCID:

Day	01/01	01/02	01/03	01/04	01/05	01/06	01/07	01/08	01/09	01/10	01/11	01/12	01/13	01/14	01/15
RA MW	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
CPM MW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total RA	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
POSO MW	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50
Total Cumulative Sub Cap	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

The substitution can be provided for all or some days in the substitution date range provided by the user. It is best practice to select a start date to coincide with a day that has a non-zero substitution MW.

The substitution window displays the following fields to the user:

- RA MW – RA from plans or substitution tied to the original resource
- CPM MW – If the resource is used for CPM, the CPM MW from such a designation
- Total RA – sum of the RA MW and CPM MW
- RASC MW – if RASC is assigned for any days in the outage duration, then this will be reflected for those specified dates. The user can provide substitution only for those days when there is a positive assignment of the resource adequacy substitute capacity.
- Total Cumulative Sub Cap – This is a rolling total of the substitution MWs provided by 1 or more substitute resources selected by the user in this transaction. The Substitution MW cannot exceed the Total RA of the resource.



Planned Substitute Resource Selection

Sub Start Date 01/01/2018 * | Sub End Date 01/31/2018 * | Only Third Party Resources | Non-RA Capacity Only

Resource ID | SC ID -SCID- | Area -Select-

Search | Show/Hide Results

Showing 1 to 50 of 147 entries

SCID	Resource ID	Resource Name	RA Info	Area	Select
			RA Info	Kern	Add
			RA Info	LA Basin	Add
			RA Info	LA Basin	Add
			RA Info	LA Basin	Add

Once the resources are added, they will appear in a table similar to the one seen below. The user will the fill out the MW amount from each substituting resource until the outage has been completely substituted for.

Substitute MW

*Press Ctrl + -> or Ctrl + <- keys to copy data in the cells right or left

Outage ID: **Resource on Outage:** **Outage SCID:**

Day	01/01	01/02	01/03	01/04	01/05	01/06	01/07	01/08	01/09	01/10
RA MW	50	50	50	50	50	50	50	50	50	50
CPM MW	0	0	0	0	0	0	0	0	0	0
Total RA	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
POSO MW	0	0	0	0	0	0	0	0	0	50
Total Cumulative Sub Cap	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Remove Resource										
Curtailment MW	0	0	0	0	0	0	0	0	0	0
Eligible Non-RA Capacity	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Substitute MW	0	0	0	0	0	0	0	0	0	0
CPM Substitute MW	0	0	0	0	0	0	0	0	0	0

As the user enters substitution MW on the screen, the system will check against the RA of the resource and check that the substitution not exceed the RA of the original resource on planned outage. Once the substitution request is submitted, one of 2 possibilities exist:

1. The substitution resource and the original resource belongs to the same SC – In this case, the substitution will be auto-approved and the RA transfer will occur to the extent of the substitution MW from the original to the substitute resource
2. The substitution resource belongs to a 3rd party SC – In this case, the substitution will need to be approved by the 3rd party SC if the original SC requests the substitution or vice versa before an RA transfer can occur.

5.3.2 Review

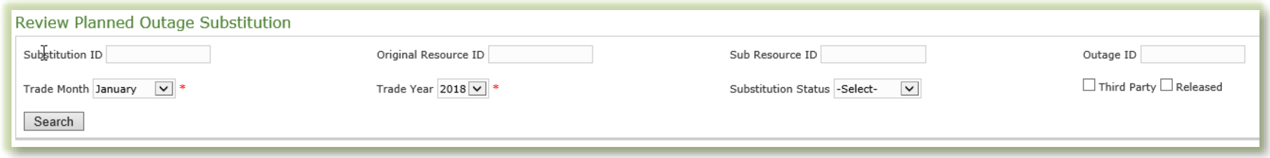
The planned substitution review screen can be used to perform the following functions on planned substitutions:

- Search
- Approve
- Reject
- Release
- Cancel

Note: The release function for forced substitutions is on a separate screen unlike planned substitutions that allows multiple actions on the review screen.

Search function:

Under the Review tab the user can review any substitutions they created by searching using the below fields.



After clicking **Search**, a screen will appear showing user information based on substitutions made.

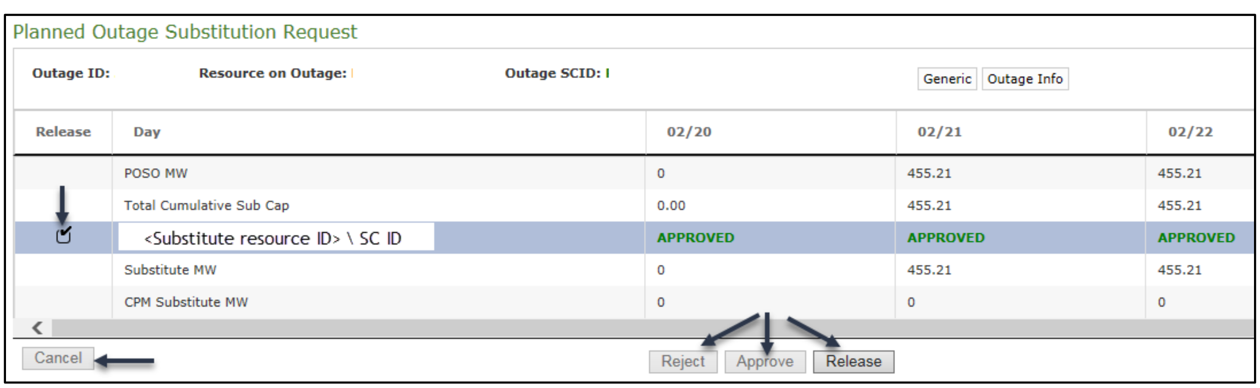
Approve/ Reject function:

After searching for the substitution, the user needs to select the substitute resource(s) then select the action to be performed. A selection is required because a single substitution transaction could involve multiple substitute resources

If the original resource and substitute resource belong to the same SC, then the system will auto-approve a substitution request. An approval or rejection in such cases Step is not needed.

The SC of the original resource or a 3rd party SC can initiate a substitution request and the transaction will be in a pending status. If the SC of the original resource makes the request then the 3rd party SC can approve or reject the request or vice versa. An email is sent out to both entities upon approval/ rejection.

Approval results in the transfer of RA from the original to the substitute resource.



Release function:
A release action will pull in the end date of the substitution based to the start date provided by the user. This action can be invoked once the substitution starts. Please refer to the Reliability Requirements BPM for the timelines concerning the release action.

In addition to selecting the substitute resource(s), when the user clicks the 'Release' button, the system will prompt the user the starting date from which the release is effective. The end date of the release will coincide with the end date of the substitution.

Just like the approval and rejection action, the release action will need approval and an email is sent out to all entities involved in the release.

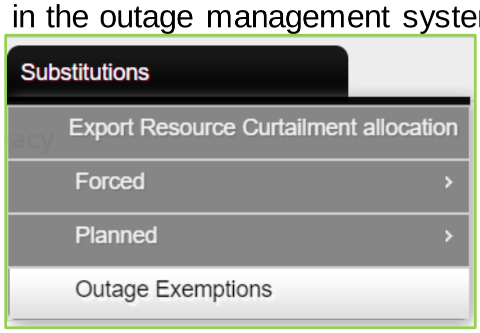
Release results in the transfer of RA from the substitute to the original resource for the period of days being released.

Cancel function:
A cancel action pertains to the entire substitution transaction and applies to every substitute resource within this transaction. Cancellation can be invoked before the substitution starts. Please refer to the Reliability Requirements BPM for the timelines concerning the cancellation action.

Cancellation results in the transfer of RA from the substitute to the original resource for the substitution period.

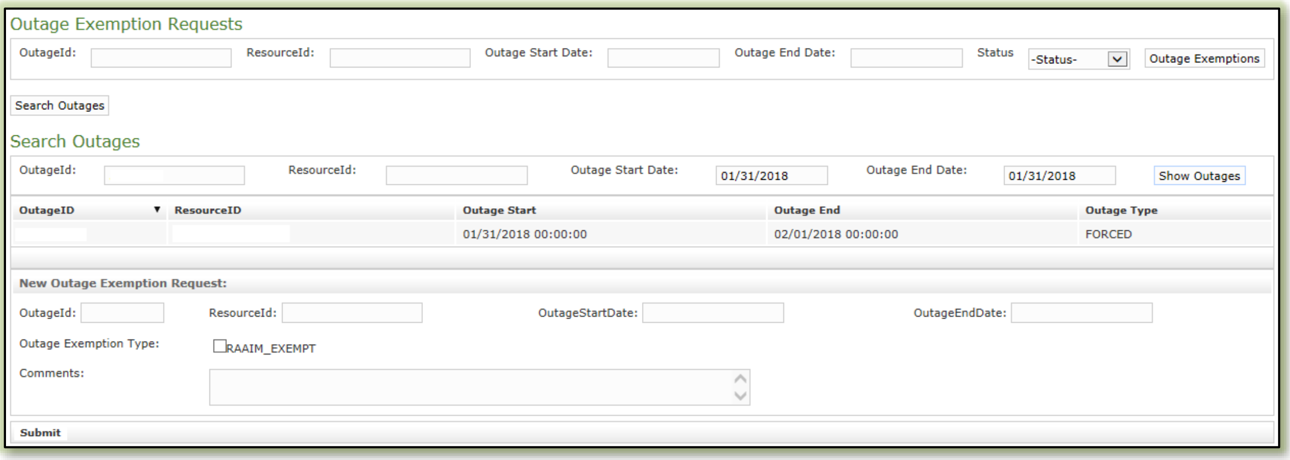
5.4 Outage Exemptions

This screen can used by an SC to request an exemption from RAAIM for a planned or forced outage. Requests can be submitted no later than five business days from when the SC reported the outage in the outage management system.



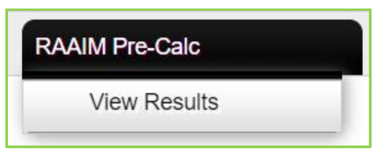
To view existing exemptions, click **Outage Exemptions**.

To request a new exemption, click **Search Outage** and enter the outage ID or resource ID or the date range for the outage search. Click **Show Outages** to see the outages in the system. Once the search is complete, the user can enter a new exemption request in the bottom section of the screen and submit the request. The Operations team will evaluate pending requests and either approve or reject the request.



6 RAAIM Pre-Calc

To view the RAAIM calculations, navigate to **RAAIM Pre-Calc > View Results** from the drop down menu.



RAAIM Pre-Calc is a process that runs in CIRA to communicate to the downstream Settlements system the exempt Generic and Flex curtailment MW of an outage. This process does not take into account the monthly RA of the resource to communicate the exempt RA, rather it checks the following factors:

1. Nature of Work (NOW): Of the outage
2. Opportunity Flag: Of the outage
3. Exempt Flag: For manual exemption requests from SCs approved by the Operations team

If any of these factors lead to an exemption, the curtailment of the outage is determined as being exempt.

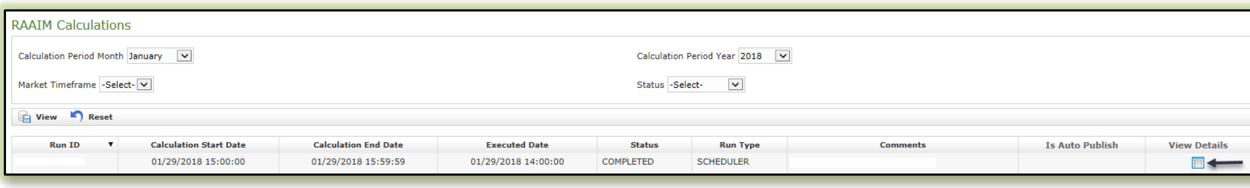
The RAAIM Pre-Calc process has an output if there is exempt curtailment MW. This means that if there is no exempt curtailment MW, then there is no output from this process.

There can be changes to an outage which occur after the Day-Ahead Market (DAM) runs but gets picked up in the Real-Time Market (RTM). In such cases, the output will be different between the DAM run and the RTM.

Screen view can be filtered by:

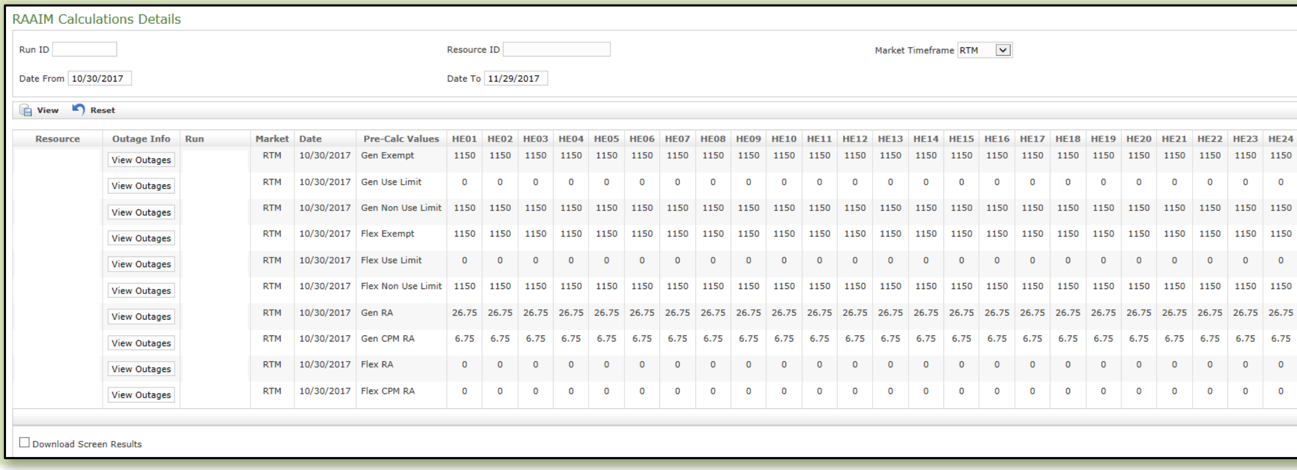
1. Calculation Period Month
2. Market Timeframe: Day Ahead Market (DAM) or Real Time Market (RTM)
3. Calculation Period Year
4. Status
   a. In Progress: SCs should ignore these runs
   b. Completed: The RAAIM Pre-Calc run has completed but the data has not been published to Settlements
   c. Failed: SCs should ignore these runs
   d. Published: This is the status when the data has been published downstream to the Settlements system

Click **View Details** to show information.



Details presented are as follows:

1. Resource – ID
2. Outage Info: **View Outages** shows details of all the outages that were considered for this run
3. Run: An internal system ID for the RAAIM Pre-Calc Run
4. Market: The market timeframe for the RAAIM Pre-Calc Run. The values are either RTM or DAM
5. Date: Trade date
6. Pre-Calc Values
   a. Gen Exempt: Based on the three possible factors for exemption, this value reflects the Generic curtailment exempt MW for each hour in the day
   b. Gen Use Limit: If the NOW is use limited, then the this column is populated for each hour in the day
   c. Gen Non Use Limit: If the NOW is not use limited, then the this column is populated for each hour in the day
   d. Flex Exempt
   e. Flex Use Limit
   f. Flex Non Use Limit
   g. Gen RA
   h. Gen CPM RA



RAAIM Calculations Details

Run ID | Resource ID | Market Timeframe RTM

Date From 10/30/2017 | Date To 11/29/2017

View | Reset

Resource	Outage Info	Run	Market	Date	Pre-Calc Values	HE01	HE02	HE03	HE04	HE05	HE06	HE07	HE08	HE09	HE10	HE11	HE12	HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20	HE21	HE22	HE23	HE24
	View Outages		RTM	10/30/2017	Gen Exempt	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
	View Outages		RTM	10/30/2017	Gen Use Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	View Outages		RTM	10/30/2017	Gen Non Use Limit	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
	View Outages		RTM	10/30/2017	Flex Exempt	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
	View Outages		RTM	10/30/2017	Flex Use Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	View Outages		RTM	10/30/2017	Flex Non Use Limit	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
	View Outages		RTM	10/30/2017	Gen RA	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75
	View Outages		RTM	10/30/2017	Gen CPM RA	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75
	View Outages		RTM	10/30/2017	Flex RA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	View Outages		RTM	10/30/2017	Flex CPM RA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

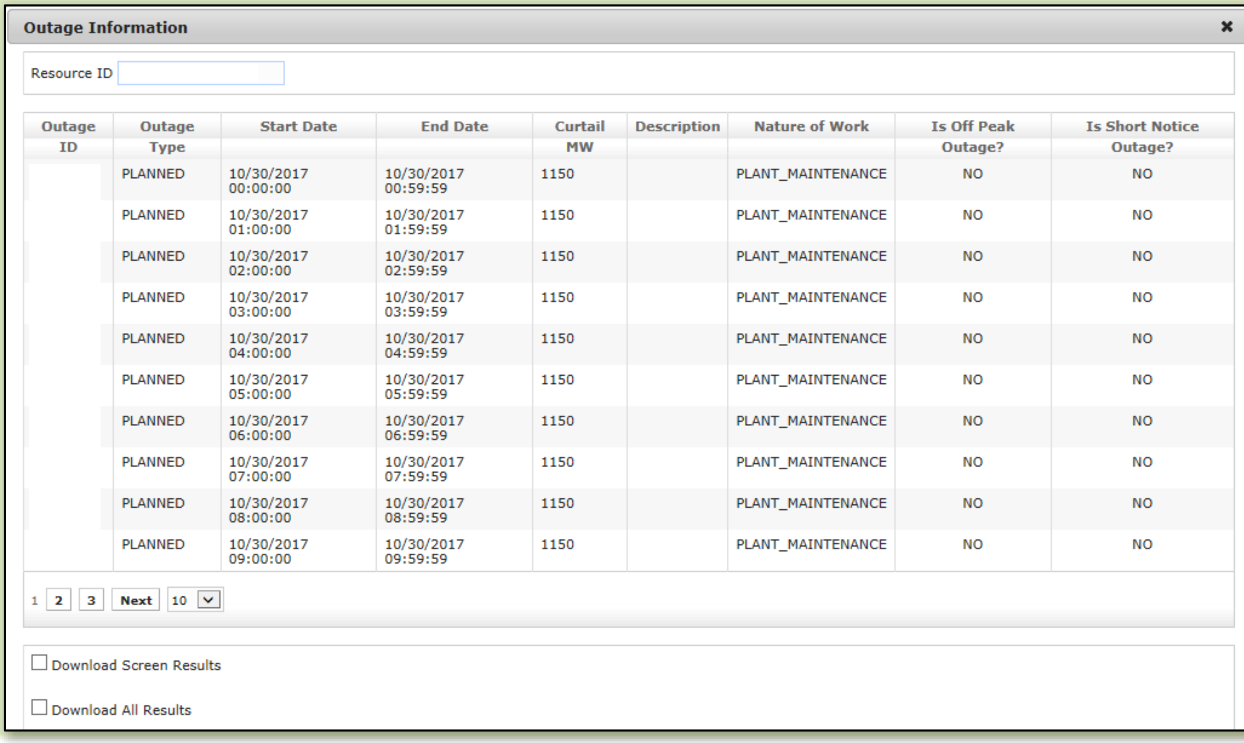
Download Screen Results

Note: If the user wants to check the latest DAM or RT run for a specific resource for a date range, the user can navigate to the RAAM Pre-Calc details page, then delete the run ID, add the resource ID, market timeframe and date range and click **View**.

To return to the default screen, click **Reset**.

To see the details of the outage click the **View Outages** in the **Outage Info** column. Details presented are as follows:

1. Outage ID:
2. Outage Type: Planned or Forced outage
3. Start Date: Start of the hour in the trade date
4. End Date: End of the hour in the trade date
5. Curtail MW: Curtailment MW as seen in OMS for the outage
6. Description
7. Nature of Work: NOW of the outage
8. Is Off Peak Outage?: This is based on the 'Off Peak Opportunity' flag for the outage in OMS
9. Is Short Notice Outage?: This is based on the 'Short Notice Opportunity' flag for the outage in OMS


Outage Information

Resource ID

Outage ID	Outage Type	Start Date	End Date	Curtail MW	Description	Nature of Work	Is Off Peak Outage?	Is Short Notice Outage?
	PLANNED	10/30/2017 00:00:00	10/30/2017 00:59:59	1150		PLANT_MAINTENANCE	NO	NO
	PLANNED	10/30/2017 01:00:00	10/30/2017 01:59:59	1150		PLANT_MAINTENANCE	NO	NO
	PLANNED	10/30/2017 02:00:00	10/30/2017 02:59:59	1150		PLANT_MAINTENANCE	NO	NO
	PLANNED	10/30/2017 03:00:00	10/30/2017 03:59:59	1150		PLANT_MAINTENANCE	NO	NO
	PLANNED	10/30/2017 04:00:00	10/30/2017 04:59:59	1150		PLANT_MAINTENANCE	NO	NO
	PLANNED	10/30/2017 05:00:00	10/30/2017 05:59:59	1150		PLANT_MAINTENANCE	NO	NO
	PLANNED	10/30/2017 06:00:00	10/30/2017 06:59:59	1150		PLANT_MAINTENANCE	NO	NO
	PLANNED	10/30/2017 07:00:00	10/30/2017 07:59:59	1150		PLANT_MAINTENANCE	NO	NO
	PLANNED	10/30/2017 08:00:00	10/30/2017 08:59:59	1150		PLANT_MAINTENANCE	NO	NO
	PLANNED	10/30/2017 09:00:00	10/30/2017 09:59:59	1150		PLANT_MAINTENANCE	NO	NO

1 2 3 Next 10

Download Screen Results

Download All Results

7 CSP Offers

The Competitive Solicitation Process, or CSP, is a mechanism to procure and price backstop capacity annually, monthly, and intra-monthly. With CSP, it is possible for the SC to offer MWs in three different CSPs: annual, monthly and intra-monthly. ISO will then optimize these offers and designate resources for CPM in case of a CPM event.

7.1 The Timeline and process for CSP

The CSP offer submission, adjustment, finalization, and CPM designation process flow is as follows:

- Scheduling coordinators may submit offers for all CSPs through CIRA. The submission window for Annual, Monthly, and Intra-monthly CSPs is as follows:
  - **Annual**: Offers for annual CSPs may be submitted up to 7 days after the last business day in October for the following compliance year.
  - **Monthly**: The monthly CSP offers may be submitted up to 37 days before the RA month.
  - **Intra-monthly**: Intra-monthly offers may be offered up to 7 days prior to the RA month.
- The adjustment is the update of existing offers.
  - Offers may only be adjusted or cancelled during the adjustment window. New offers may not be added.

  - **Annual**: Offers into the CSP can be adjusted down in price or MW until 43 days after the last business day in October.
  - **Monthly**: Offer prices may be adjusted down in price or MW until 10 days before the RA month.
  - **Intra-monthly**: Scheduling coordinators may remove these offers or lower the price at any time during the month before 9:00am for the following day.

- Offer validation is the final offer validation.
  - At this time, an offer cannot be created or updated. The final offer validation is performed by ISO users. If the offer does not pass validation rules defined in the Reliability Requirements BPM, then the offers are rejected by ISO and the status is set to invalid. After validation, if ISO adjusts the offer and if the offer is still valid, see **Comments** box for more information regarding the offer adjustment performed by ISO. SC may use the **History** button to track the changes of an offer.
  - ISO will validate all offers to ensure the offers are non RA capacity.

- If there is a CPM event, then ISO will optimize the offers to pick a resource(s) that will meet the need.

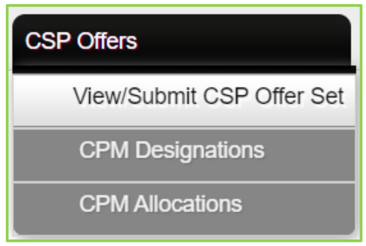
- ISO may issue a CPM designation.

CSP Offer Status	
Status	**Description**
Received	Offer status in CIRA is set to **Received** when the SC saves an offer.
Accepted	Offer status in CIRA is set to **Accepted** when SC submits the offer and the offer passes validation.
Canceled	Offer status is set to **Canceled** if offer is canceled by the SC during the adjustment period.
Valid	Offer status is set to **Valid** if offer passes final offer validation.
Invalid	Offer status is set to **Invalid** if offer fails final offer validation.

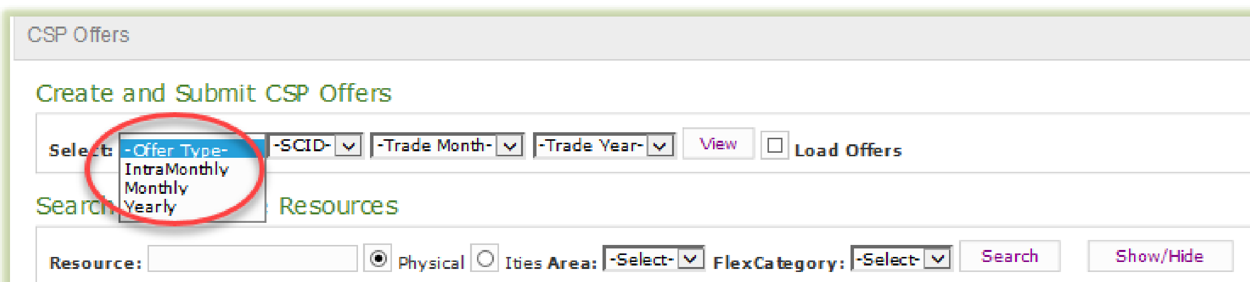
7.2 View and Submit CSP Offer Set

There are two ways to view and submit monthly CSP offers. The first way is to create a new offer view:

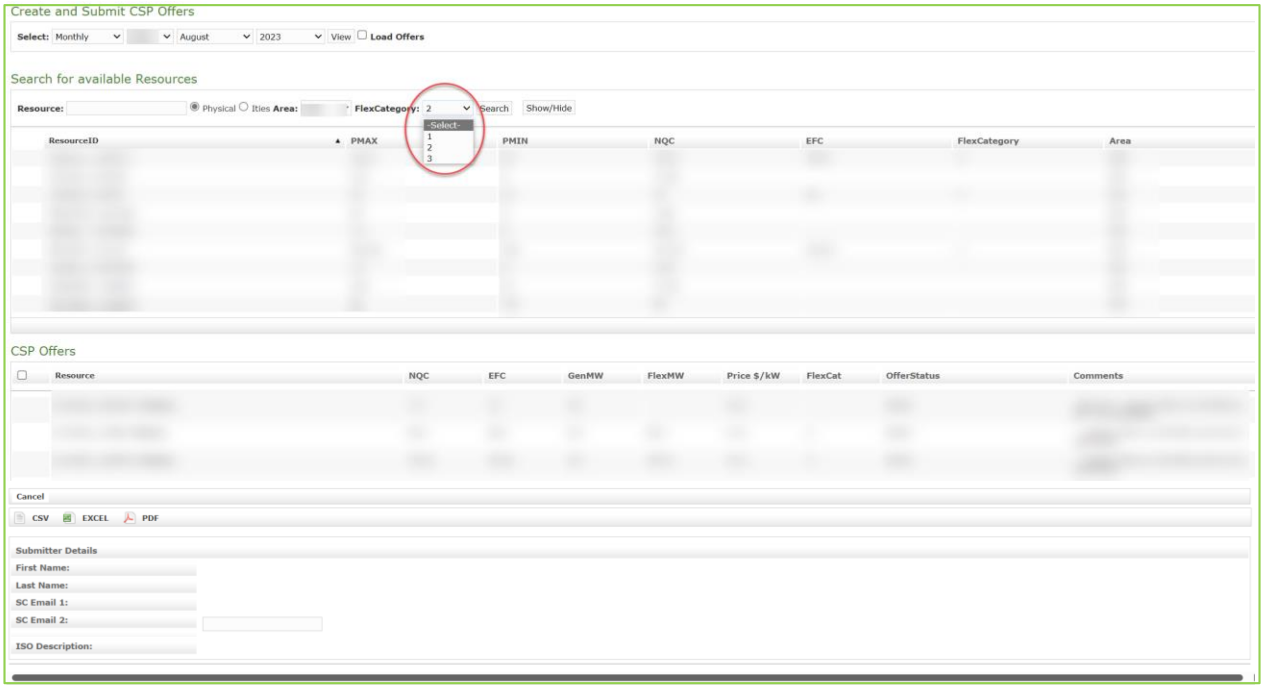
1. Navigate to **CSP Offers**.
2. Select **View/Submit CSP Offer Set**.



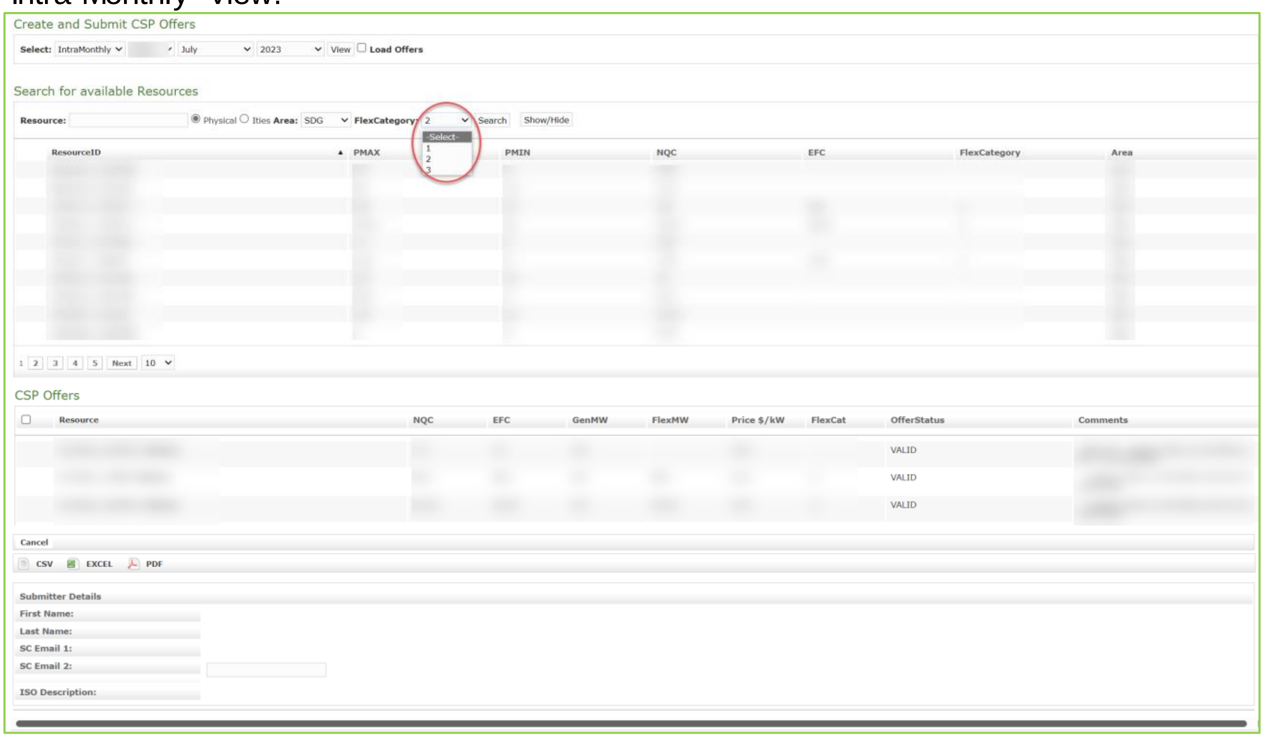
3. Select the **Offer Type** (Yearly, Monthly, or Intra-monthly).
4. Select the **SCID**.
5. Enter the **Trade Month** (if a monthly submission) and **Trade Year** and click **View** View. This will display the resource and CSP offer details for the selected month or year.



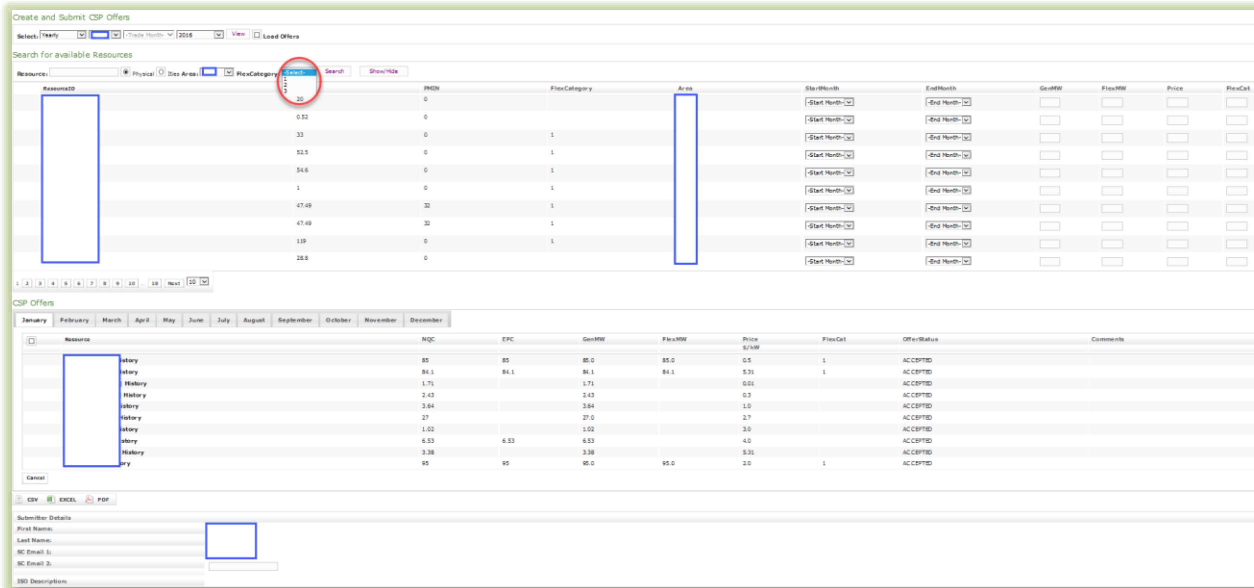
Monthly view:



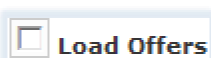
Intra-Monthly View:

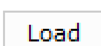


Yearly view:



The second way to view and submit monthly CSP offers is by loading offers from previous months or years:

1. Navigate to **CSP Offers**.
2. Select **View/Submit CSP Offer Set**.
3. Select the **Offer Type** (Yearly, Monthly, or Intra-monthly).
4. Click **Load Offers** 

.
5. Select the **Load From** Trade Month (if a monthly submission) and Trade Year.
6. Click **Load** 

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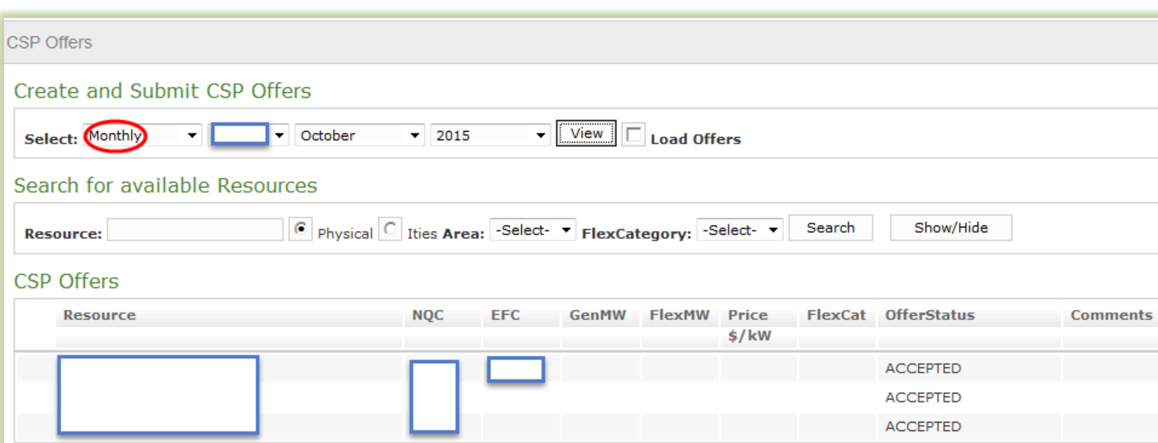
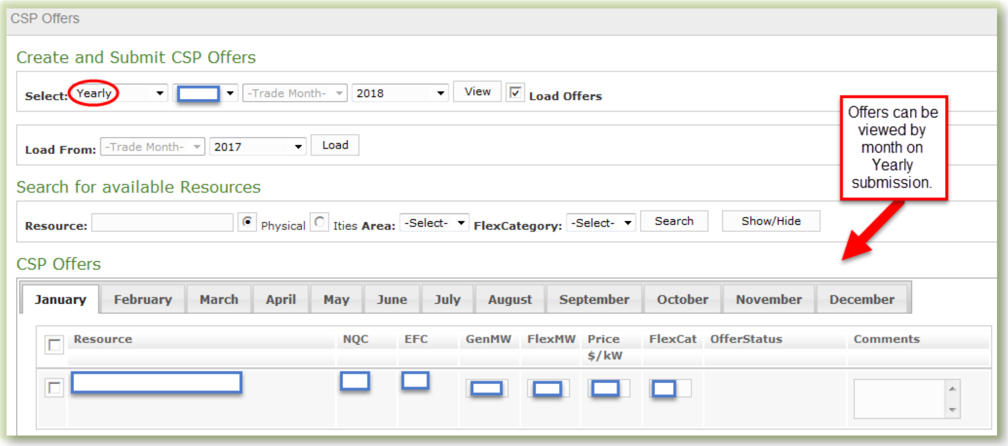
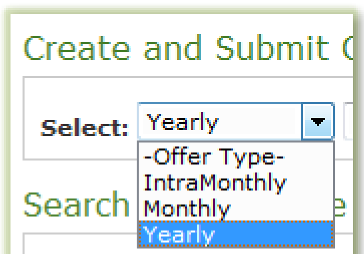
The resource and CSP offer details for the selected month and year will be displayed.





The **Yearly** CSP Offers view differs from the Monthly and Intra-monthly CSP Offers views. Yearly CSP Offers can be created and submitted by selecting the '**Yearly'** option from the dropdown menu on the **Create and Submit CSP Offers** column.

To increase efficiency and accuracy, the **Yearly** view will auto-populate the CSP Offers table for the selected months. This feature allows the user to edit or specify the MW and date in the CSP Offers column and in the Search for Available Resources column to further update the Offer form.



To create a Yearly view, enter the **Yearly** Offer Type, the **SCID,** and the **Trade Year** and select **View** View. This will load all 12 months. Offers can also be viewed by month on a **Yearly** submission.

Note: CSP offers are submitted in CIRA with price in $/kw. Downstream systems display & compute in MW, so the offer price is converted to a MW price with a multiplier of 1000.

If no resources or CSP offer details appear after clicking the **View** and/or **Load** buttons as instructed in the previous Steps and you see a message that states "**No offers found the selected criteria**," please follow these Steps:

1. Navigate to **CSP Offers**.
2. Select **View/Submit CSP Offer Set**.
3. Select **Offer Type** (Yearly, Monthly, or Intra-monthly).
4. Select the SCID.
5. Enter the **Trade Month** (if a monthly submission) and **Trade Year**.
6. Click the **Search** button under the "**Search for available resources**" section. You should see a list of available resources after clicking this button.
7. Check the box to the left of the **Resource ID** you would like to submit the offer for.
8. Click the **add Resource** button. You should see a new section called "**CSP Offers**" appear with the resource you selected and blank fields to fill out.
9. Complete the appropriate fields for your offer then check the box to the left of the **Resource ID** under the "**CSP Offers**" section.
10. Click the **Submit** button to submit your offer.

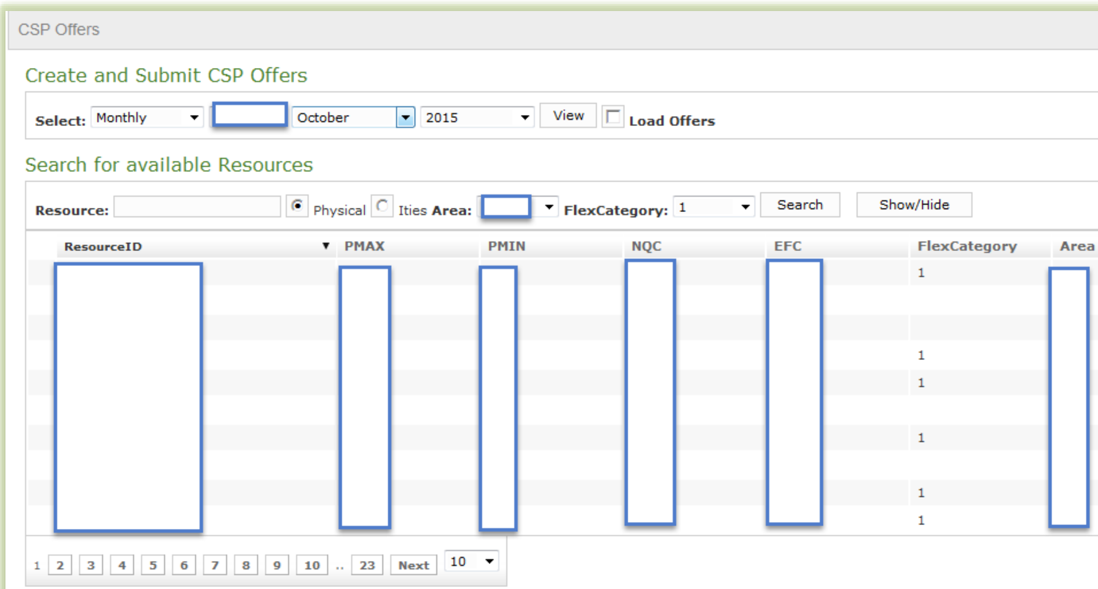
Note: Confirm you have the correct certificate role and access level per Section 2 of this guide, that the correct SC ID has been added to the correct access under your certificate, and that the resource you are making an offer for has achieved COD and has NQC approved in CIRA.

7.3 Search for Available Resources

To search for available resources:

1. Enter the resource to further filter the results (optional).
2. Select **Physical** or **Ities** to further filter the results (optional).

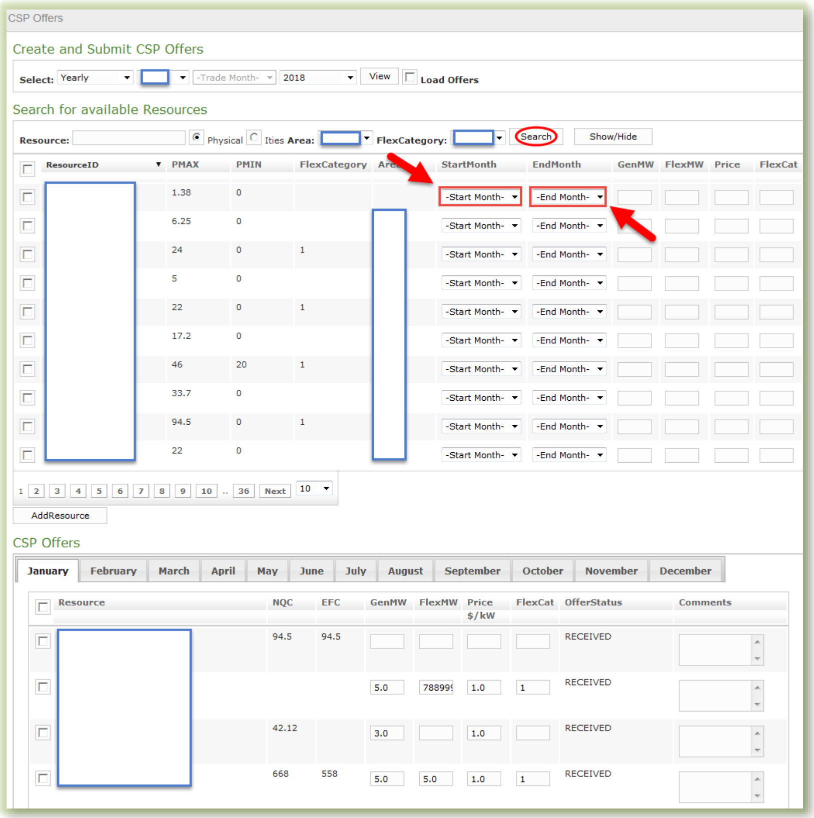
3. Select **Area** from the dropdown menu.
4. Select **Flex Category** from the dropdown menu.
5. Click **Search** .
6. Click **Show/Hide** to show or hide available resources.



CSP offers may be viewed and submitted yearly, monthly, or intra monthly. If **Yearly** is selected, all 12 months' offers are loaded. The **Yearly** view will auto-populate the selected months. This feature allows the user to edit or specify the MW and date to further update the Offer form.

To search for available resources for Yearly CSP Offers:

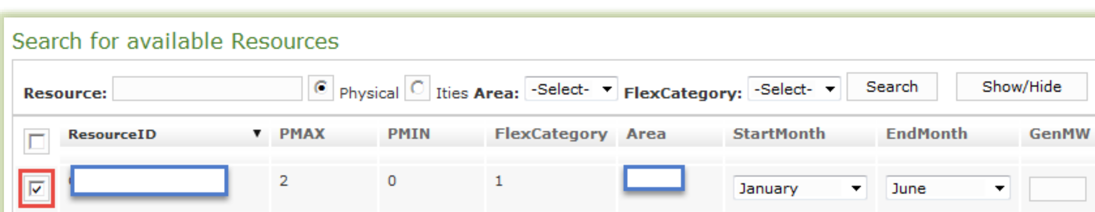
1. Select **Yearly** Offer Type.
2. Select **SCID**.
3. Select **Trade Year**.
4. Click **Search** in the Search for Available Resources column.
5. Specify the **Start Month** and the **End Month** to further edit the CSP offer.



SCs can interpret the offers after finalization by viewing the status of their offers. They will not be able to see the extended offer, but can view the status for their own offers.

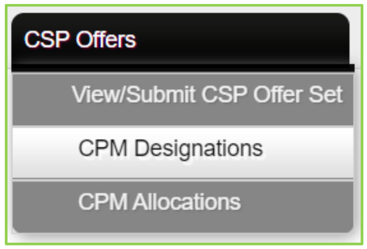
6. Once the dates have been selected, click the **Resource** ☑ and select **Add Resource** AddResource . The resource will appear in the CSP Offers table.

7. To remove a resource from the CSP Offers table, select the **Resource** ☑ and click **Delete** Delete.

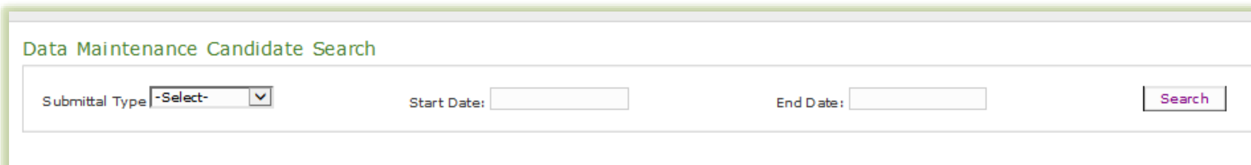


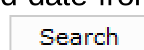
7.4 CPM Designations

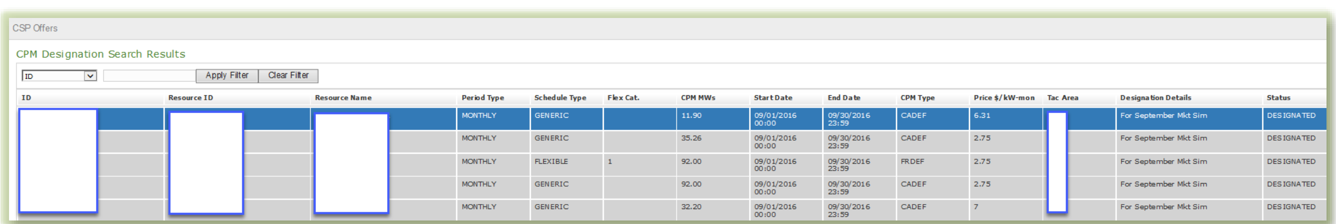
To locate the Capacity Procurement Mechanism **CPM Designations**, navigate to the **CSP Offers** tab.



From the drop down menu, select **CPM Designations**. The Data Maintenance Candidate Search window will appear.

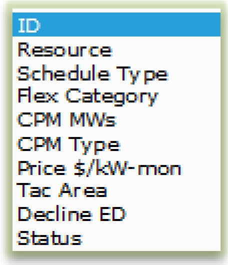


1. Select the submittal type: **Yearly**, **Monthly**, or **Intra-Monthly** from the drop down menu.
2. Select the start date from the drop down calendar.
3. Select the end date from the drop down calendar.
4. Click **Search**  to retrieve maintenance candidates.
5. The CPM Designation search results will appear in the next screen.



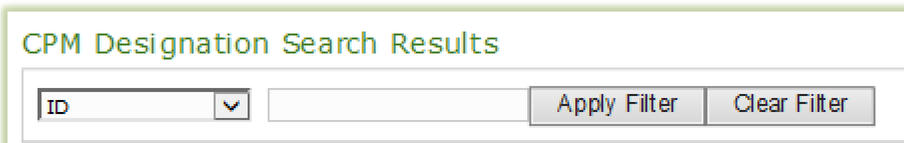
The CPM designation search results can be filtered to specific column information.

6. Select ID, Resource, Schedule Type, Flex Category, CPM MWs, CPM Type, Price $/kW-mon, Tac Area, Decline ED, or Status to filter by one these options.

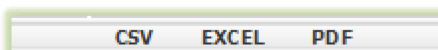


7. Enter desired filtered information and click **Apply Filter**.

8. To return to the default search information, click **Clear Filter**.



9. To export the search results in CSV, Excel, or PDF, click the desired view.



For additional assistance with the Customer Interface for Resource Adequacy (CIRA) application, contact: HelpDesk@caiso.com.

8 Reports

The Reports menu offers the following reports to the SC:
1. Generic Obligation Report
2. Flex Obligation Report
3. Credits Report
4. RA Report
5. SC Transfer Report
6. Acquired Contracts
7. Import Capability RA Report

8.1 Generic Obligation Report

The Generic Obligation Report shows the Local, Listed Local, and System RA validation results.

The Generic Obligation report can be used to view obligation data across months within the compliance year for LSEs and Central Procurement Entities (CPEs).

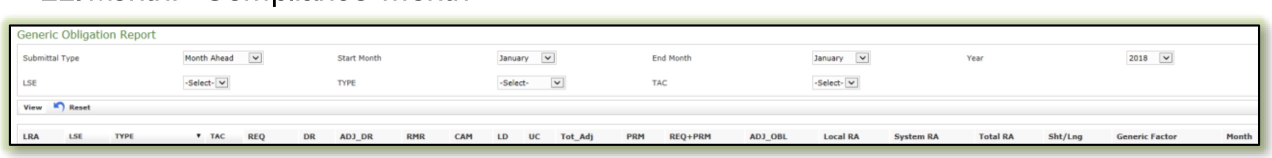
The reported can be filtered on:

1. Submittal type: Month Ahead or Year Ahead
2. Start Month
3. End Month: Start month <= end month within the same compliance year
4. LSE: Optional filter
5. Type: Optional filter on the obligation types:
    a. By TAC
    b. By Peak
    c. By Listed Local
6. TAC: Optional filter

Click **View** to see the results.

Details presented are as follows:

1. LRA: LRA ID
2. LSE: LSE ID
3. Type: Obligation Type
4. TAC
5. REQ: Obligation requirement
6. DR: Demand Response (DR) credit is used for system obligation calculation
7. ADJ_DR: DR adjustment based on the % applicable for the LRA
8. RMR
9. CAM
10. LD: Liquidated Damages (LD) credit is used for system obligation calculation
11. UC: Under Construction (UC) Annual credit
12. Tot_Adj: Sum of adjustments from all credits
13. PRM: Based on the PRM % applicable for the LRA, used for system obligation calculations
14. REQ+PRM
15. ADJ_OBL: The adjusted obligation is (REQ+PRM) - Tot_Adj. This value is used for final comparison with the committed RA to determine long or short status
16. Local RA: Committed Local RA that has passed cross validation
17. System RA: Committed System RA that has passed cross validation
18. Total RA: Committed RA (Local + System) that has passed cross validation
19. Sht/ Lng: If the Committed Total RA >= ADJ_OBL, then the LSE is long else is short
20. Generic Factor: A factor applied at the LRA level
21. Month: Compliance month



8.2 Flex Obligation Report

Flex Obligation Report can be used to view the Flex Obligation for Category 1 and the Total Flexible Capacity needed. The obligation data can be viewed across months within a compliance year for LSEs and CPEs.

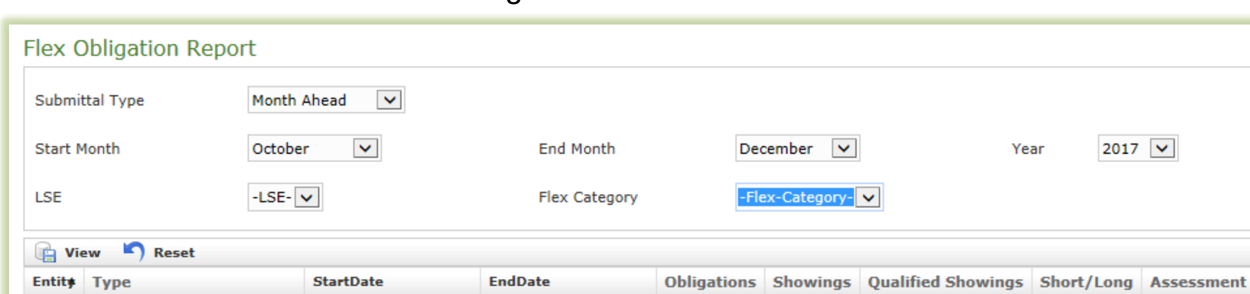
The report can be filtered on:

1. Submittal Type: Month Ahead or Year Ahead
2. Start Month
3. End Month: Start Month <= End Month within the same compliance year
4. Year
5. LSE: Optional filter
6. Flex Category: Optional filter with values as follows:
    a. Category-1
    b. Category-2
    c. Category-3
    d. Total

Click **View** to see the details.

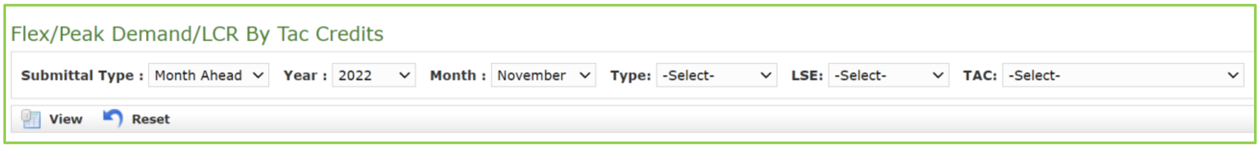
The details provided in the report are as follows:

1. Entity: LSE ID
2. Type: Flex category filtered on or the data for all categories and the total
3. Start Date: Start date of the month for the date range filtered
4. End Date: End date of the month for the date range filtered
5. Obligations: Flex obligation MW
6. Showings: Committed Flex RA
7. Qualified Showings: Committed RA that has passed Flex cross validation
8. Short/Long: This assessment is done for Category 1 only. It is Flex Obligation MW - Qualified showings
9. Assessment: Short or Long status. If Qualified showings < Obligation then assessment is Short else Long



8.3 Credits Report

The Credits Report is made available to SCs of LSEs or CPEs. The purpose of the report is to show the assigned peak credits, flex credits, and LCR credits by TAC area. The results provided are the credits as uploaded before the cross-validation run.



8.4 RA Report

An LSE/Supplier can use this report to see RA details of the resources that they have submitted plans for. The RA report gets populated once the plans have passed cross validation for the compliance month. The RA report shows committed RA capacity, resource attributes, and Substitution transaction information for a RA month.

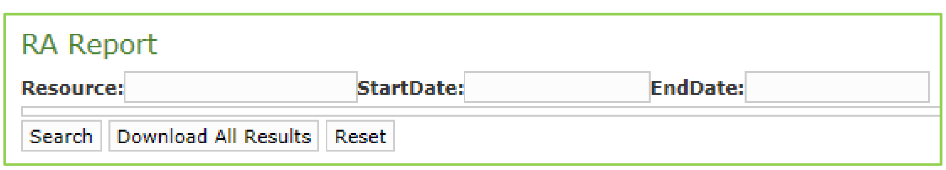
For resources that have transferred mid-month, the SC can see RA details for this resource during their period of ownership. In this case, the start and end date need to map to their period of ownership or could be a subset of that period.

RA for a resource is at a daily granularity.

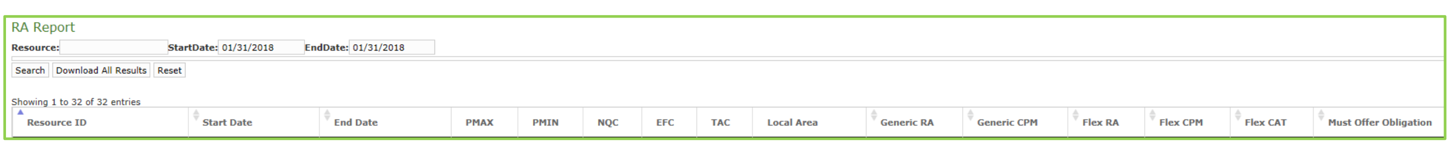
Different search possibilities on this report are:

1. Provide a specific resource ID, start and end dates (within a compliance month)
2. Leave the resource blank and search for all resources for one or more days within a compliance month

Performance of the report will vary depending on how many resources and days are being searched for.



The output is presented at 2 levels - a higher level summary is displayed on the UI and a detailed break-down available for download.



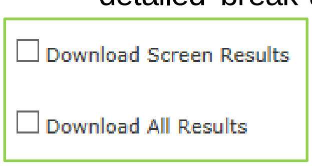
The table below lists the columns names, explanation and the level at which it is presented:

Field Name	Meaning	UI + Download / Only Download
SCID	Supplier	Only Download
Resource ID	Resource ID for each resource adequacy resource	UI + Download
Start Date	Start date selected by the user. RA is displayed at a daily granularity in PST.	UI + Download
End Date	End date selected by the user. RA is displayed at a daily granularity in PST.	UI + Download
PMAX	Maximum power limit	UI + Download
PMIN	PMin of the resource from MF	UI + Download
NQC	Net Qualifying Capacity of the resource	UI + Download
EFC	EFC of the resource from MF	UI + Download
TAC	TAC area of the resource	UI + Download
Local Area	Local area, mapped to a TAC, for the resource	UI + Download
Dispatchable	Dispatchable flag for the resource	Only Download
Fuel Type	Fuel type resource attribute from MF	Only Download
Res Type	Resource type attribute from MF. E.g. GEN, ITIE, TG, etc.	Only Download
Use Limit	Use limit flag resource attribute from the MF	Only Download
Generic RA	Total Generic RA for the resource for the day. Use max RA for a day if this varies during a day. Equals the sum of local and system MW.	UI + Download
CPM	Total Generic Capacity procurement mechanism megawatts for the resource for the period selected	UI + Download
Flex RA	Total Flex RA for the resource for the period selected. Use max Flex RA for a day if this varies during a day.	UI + Download
Flex CPM	Total Flex CPM for the resource for the period selected	UI + Download
Flex Cat.	Flex category of the resource	UI + Download
Must Offer Obligation	Must Offer Obligation (MOO) for the resource for the period selected. Possible values are: Y - Yes N - No	UI + Download
Local MW	Total Local MW (from Supply plan and Forced Substitutions)	Only Download
System MW	Total System MW (from Supply plan and Forced Substitutions)	Only Download
App S.	Removing from RA report	
App N.	Removing from RA report	
App OM.	Removing from RA report	
Local Substitute MW	Total Generic Local Substitution MW provided by this resource to other resource(s) on forced outage.	Only Download

Field Name	Meaning	UI + Download / Only Download
System Substitute MW	Total Generic System Substitution MW provided by this resource to other resource(s) on forced outage.	Only Download
Planned Substitute MW	Total Generic Substitution MW provided by this resource for planned outages	Only Download
Transferred MW - Local Substitution	Generic Local MW transferred from this resource to other resources that have provided forced substitution	Only Download
Transferred MW - System Substitution	Generic System MW transferred from this resource to other resources that have provided forced substitution	Only Download
Transferred MW - Planned Substitution	Generic System and Local MW transferred from this resource to other resources as system RA that have provided planned substitution	Only Download
CPM Substitute MW	The amount of Generic CPM substitution megawatts provided by this resource to other resource(s) for forced and planned	Only Download
Transferred MW - CPM Substitution	Total Generic CPM MW transferred from this resource to other resource(s) that have provided substitution for planned outages	Only Download
Flex MW	Flex MW from the Supply plan after validation	Only Download
Flex Substitute MW	The amount of Flex CPM substitution megawatts provided by this resource to other resource(s)	Only Download
Transferred MW - Flex Substitution	Total Flex CPM MW transferred from this resource to other resource(s) that have provided substitution for planned outages	Only Download
Flex CPM Substitute MW	Total Flex CPM Substitution MW provided by this resource to other resource(s) on outage	Only Download
Transferred MW - Flex CPM Substitution	Total Flex CPM MW transferred from this resource to other resource(s) that have provided substitution for outages	Only Download

Download options available are:

1. Download Screen Results – select this option to down the summary information
2. Download All Results – select this option to see both the summary and the detailed break-up of the RA



The user can download the RA report in the following formats: CSV, Excel, PDF

Note: Historic Replacement details are no longer available on this report. The higher level summary will continue to reflect the RA accounting for the Replacements provided for historic trade dates.

8.5 SC Transfer Report

This screen displays impacts to the supplier's plans due to the transfer of resources from one supplier to another.

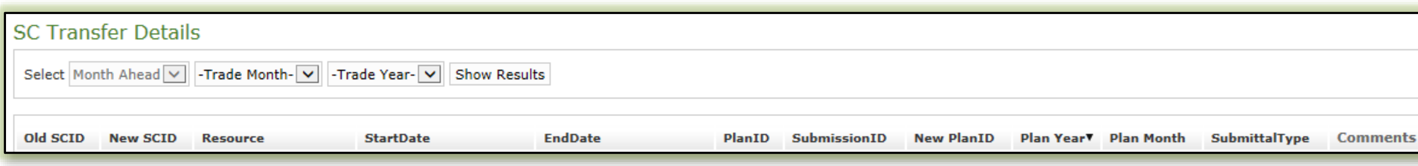
Filter on:

1. Compliance month
2. Year

Click **Show Results** to display the results.

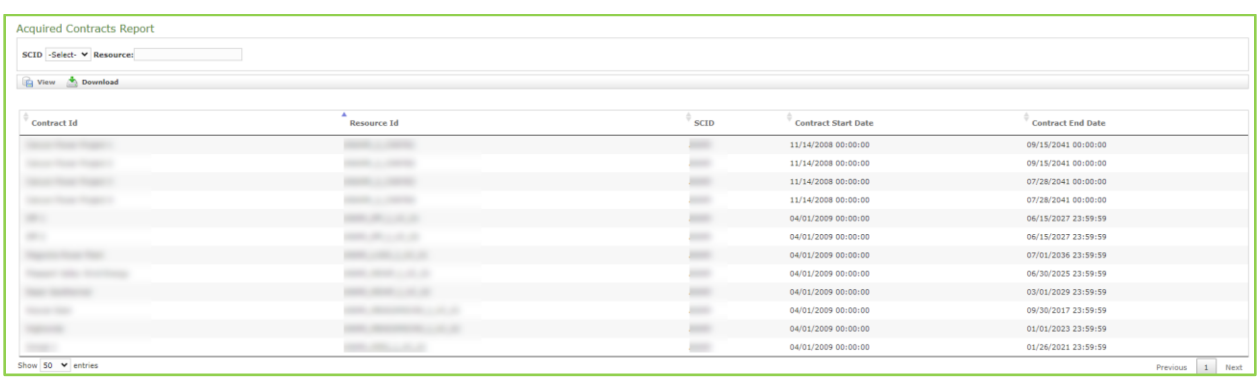
Details displayed include:

1. Old SC ID
2. New SC ID
3. Resource ID
4. Compliance month impacted



8.6 Acquired Contracts

Acquired contracts pre-date the RA program and have exemptions to some RA provisions. These resources can be used to meet the RA obligation. SCs can view the acquired contracts associated with their SCIDs on the Acquired Contracts report.

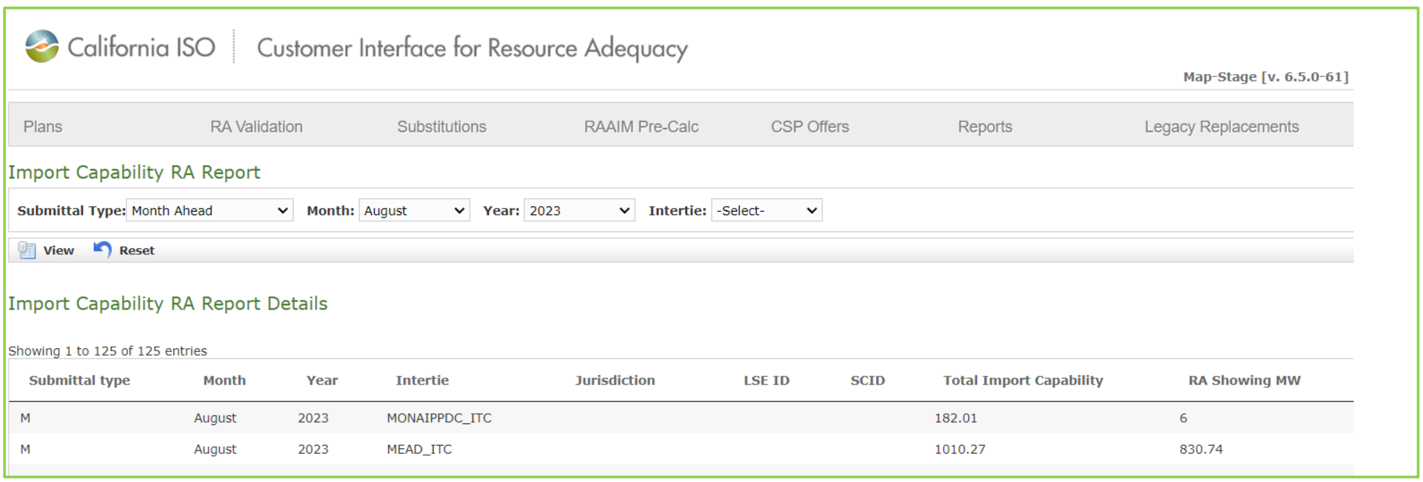


1. Click the **View** button to see the acquired contracts associated with the selected SCID
2. Click the **Download** button to download the report in Excel format

8.7 Import Capability RA Report

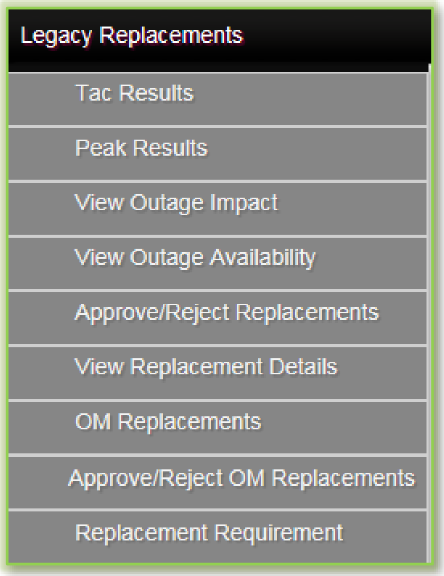
This report allows LSEs/SCs to view the total annual and monthly RA capacity shown on each intertie aggregated by LRA jurisdiction (e.g., CPUC, non-CPUC, Other). The information on this report can also be found in OASIS under the Resource Adequacy tab.

1. Select the **Submittal Type** (Month Ahead/Year Ahead), **Month**, and **Year**.
2. Click the **View** button to see the acquired contracts associated with the selected SCID
3. Click the **Download** button to download the report in Excel format



9 Legacy Replacements

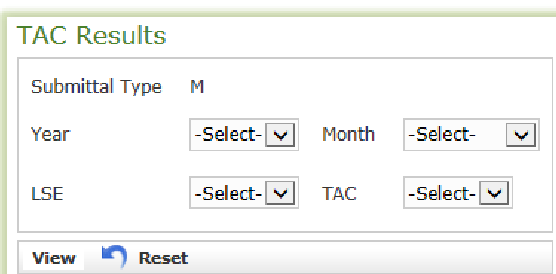
The Legacy Replacements tab provides historic replacement information within CIRA. The user can choose from the Legacy Replacements dropdown menu and complete the form to access historic data. The user can select the following: TAC results, Peak results, outage impact information, outage availability, approved and rejected replacements, replacement details, OM replacements, approved and rejected OM replacements, and replacement requirements.



9.1 TAC Results

To view historical TAC results:

1. Navigate to **Legacy Replacements**.
2. Select **TAC Results**.



After the screen has been loaded:

1. Select the **Submittal Type** for Month Ahead or Year Ahead.
2. Select the target period **Year** and **Month**.
3. Select the **LSE**.
4. Select the **TAC** from dropdown menu.
5. Click **View** to display the results.

TAC:

Date	10/1/2016	10/2/2016	10/3/2016	10/4/2016	10/5/2016	10/6/2016	10/7/2016	10/8/2016	10/9/2016	10/10/2016	10/11/2016	10/12/2016	10/13/2016
Tac Obligation	7,876.16	7,876.16	7,876.16	7,876.16	7,876.16	7,876.16	7,876.16	7,876.16	7,876.16	7,876.16	7,876.16	7,876.16	7,876.16
Resource Adequacy Showing													
Total Resources	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68
Obligation Difference	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48
Including Outages													
Outage Reduction	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Resources	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68
Obligation Difference	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48
Including Specified Replacements													
Specified Replacement Increase	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Resources	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68
Obligation Difference	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48
Including Non-Specified Replacements													
Non-Specified Replacement Increase	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Resources	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68	6,058.68
Obligation Difference	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48	-1,817.48

☐ Download Screen Results

The screen displays the following:

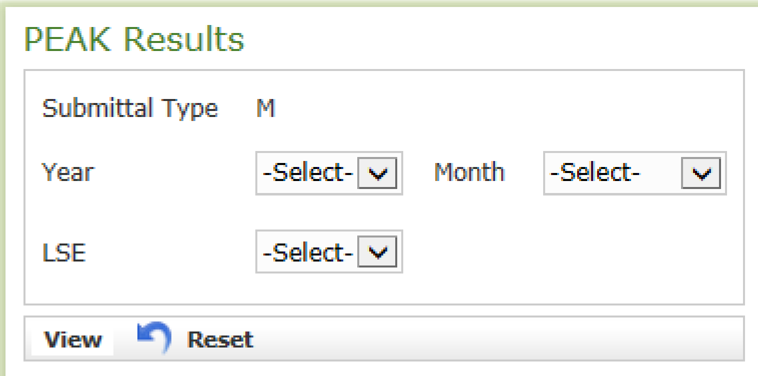
- Tac Obligation
- Resource Adequacy Showing for of total resources and obligation difference
- Including Outages: Outage reduction, total resources, and obligation difference
- Including Specified Replacements: Specified replacement increase, total resources, and obligation difference
- Including Non-Specified Replacements: Non-specified replacement increase, total resources, and obligation difference.

To download this information, click **Download Screen Results**.

9.2 Peak Results

Steps:

1. Navigate to **Legacy Replacements**.
2. Select **Peak Results**.



After the screen has been loaded:

1. Select the **Submittal Type** as **Month Ahead** or **Year Ahead**.
2. Select the target period **Year** and **Month**.
3. Select the **LSE**.
4. Click **View** to display the results.

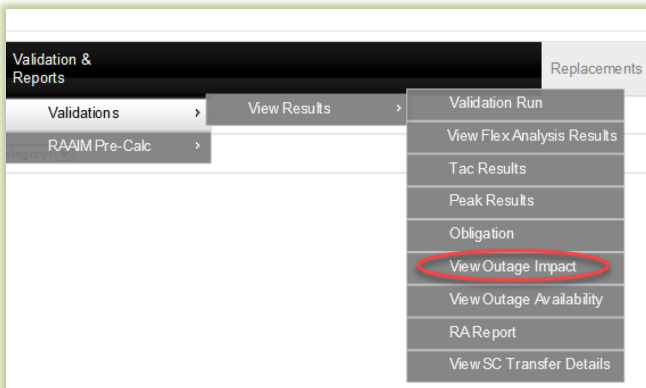
Date	09/1/2016	09/2/2016	09/3/2016	09/4/2016	09/5/2016	09/6/2016	09/7/2016	09/8/2016	09/9/2016	09/10/2016	09/11/2016	09/12/2016	09/13/2016	09/14/2016
Peak Obligation	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6
Resource Adequacy Showing														
Total Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Obligation Difference	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6
Including Outages														
Outage Reduction	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Obligation Difference	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6
Including Specified Replacements														
Specified Replacement Increase	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Obligation Difference	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6
Including Non-Specified Replacements														
Non-Specified Replacement Increase	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Obligation Difference	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6	-16,678.6

☐ Download Screen Results

9.3 View Outage Impact

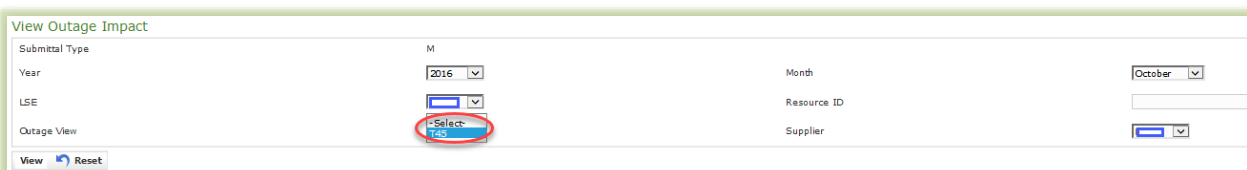
Steps:

1. Navigate to **Validation & Reports**.
2. Select **Validations**.
3. Select **View Results** to display the list of screens that are available to the user.
4. Select **View Outage Impact** to view the screen.



After the screen has been loaded:

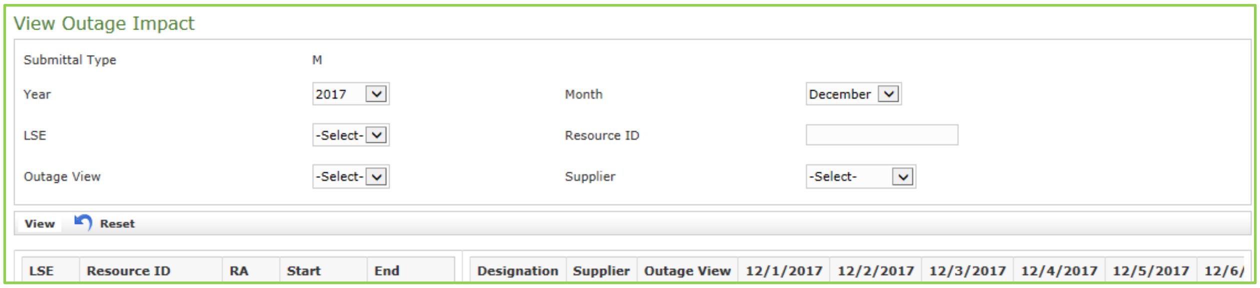
1. Select the target period **Year** and **Month**.
2. Select the **LSE**.
3. Select the **Outage View** (T45 for the T-45 snapshot).
4. Enter a **Resource ID** to further filter the results (optional).
5. Click **View** to display the results.



The screen displays the following:

a. LSE
b. Resource Id
c. RA capacity MW from the RA plan
d. Start Date
e. End Date
f. Designation
g. Supplier SC Id
h. Outage View type

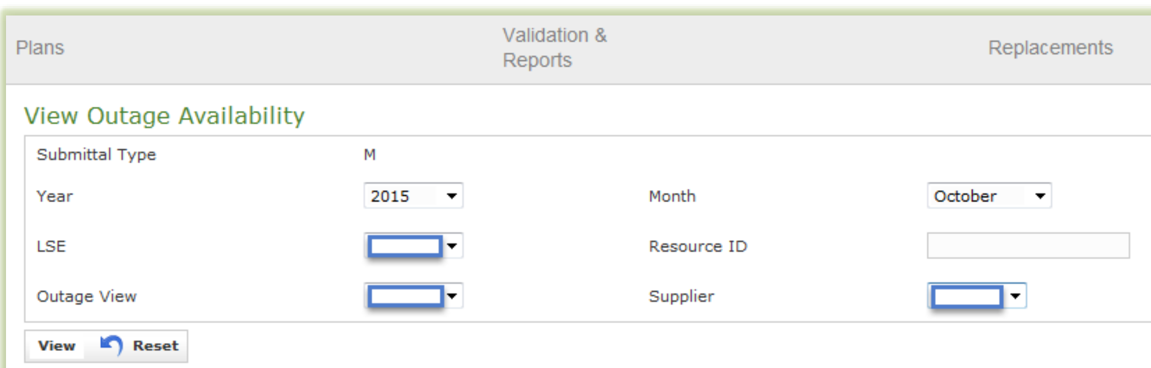
i. Date-wise break-up of the outage impact for the row



9.4 View Outage Availability

After the screen has been loaded:

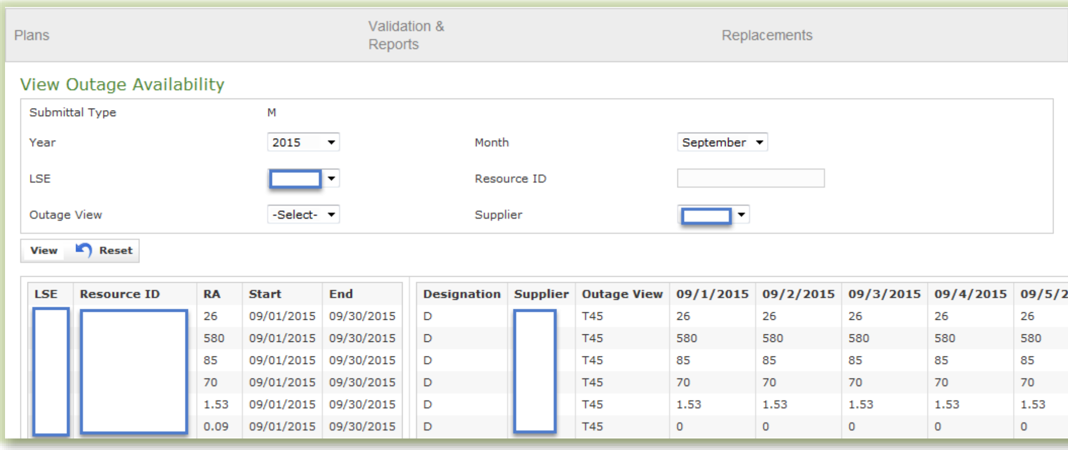
1. Select the target period **Year** and **Month**.
2. Select the **LSE**.
3. Select the **Outage View** (T45 for the T-45 snapshot)
4. Enter a **Resource ID** to further filter the results (optional)
5. Click **View** to display the results.

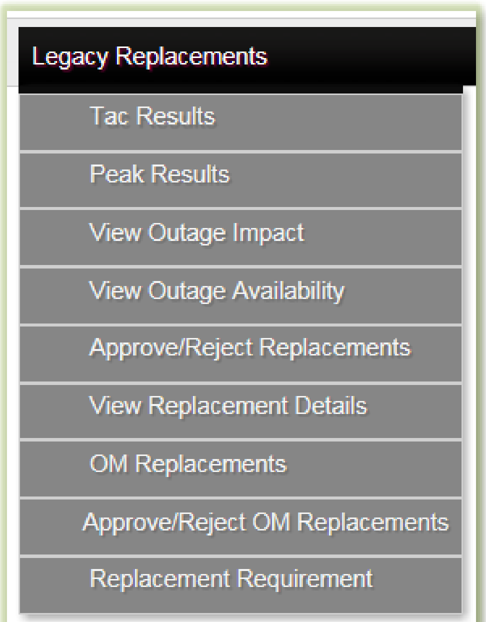


The screen displays the following:

a. LSE
b. Resource Id
c. RA capacity MW from the RA Plan
d. Start Date
e. End Date
f. Designation
g. Supplier SC Id
h. Outage View type

i. Date-wise break-up of the outage availability for the row





9.5 Approve/Reject Replacements

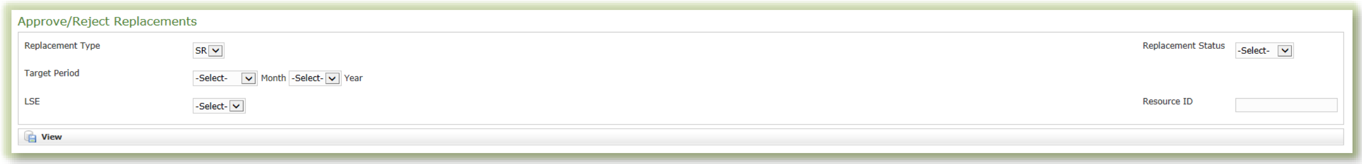
To view historic approved/rejected replacements in the **Legacy Replacements** Tab:

1. Select **Approve/Reject Replacements** to view the screen.

After the screen has been loaded:

1. Select **Replacement Type**.
2. Select **Target Period**, including month and year.
3. Select **SLE**.

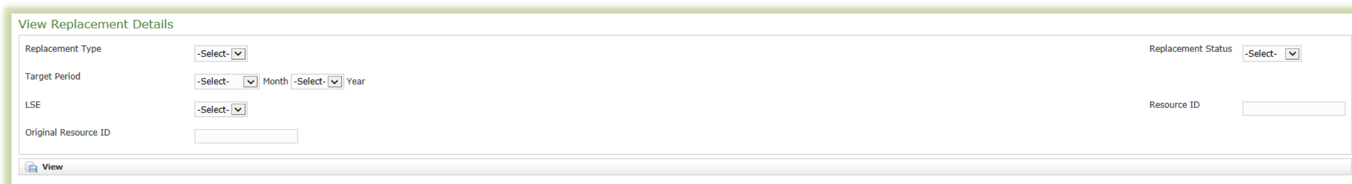
4. Select **Replacement Status**.
5. Include **Resource ID**.



6. Click **View** to display the results.

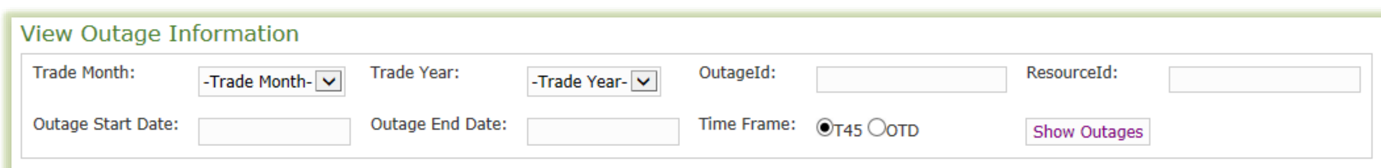
9.6 View Replacement Details

From the **Legacy Replacements** tab, navigate to **View Replacement Details** for this information.



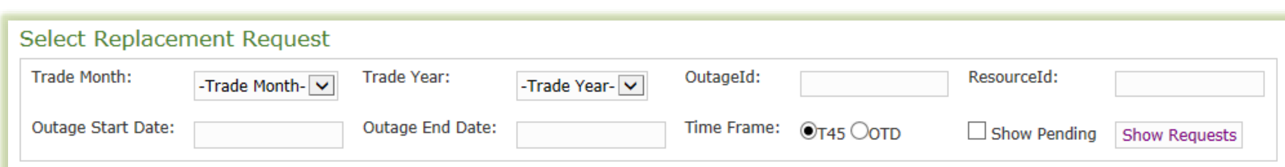
9.7 OM Replacements

From the **Legacy Replacements** tab, navigate to **OM Replacements** for this information.



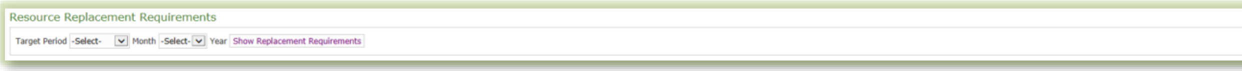
9.8 Approve/Reject OM Replacements

From the **Legacy Replacements** tab, navigate to **Approve/Reject OM Replacements** for this information.



9.9 Replacement Requirement

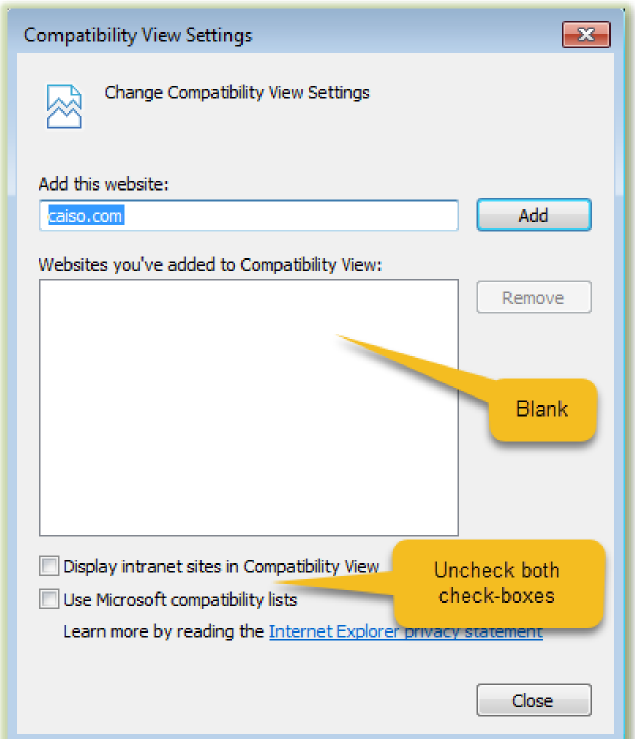
From the **Legacy Replacements** tab, navigate to **Replacement Requirement** for this information.



10 Common User Issues

10.1 User Sees a Blank Screen or Gets an ‘HTTP Status 404’ Error When Using IE

A suggested resolution is to check IE’s **Compatibility View Settings**, align it as shown below, then try to view the data again.



11 Appendix

11.1 Entity Relationship for Planned Outage Substitution