

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	Int	trodu	ction	7
2	Ro	oles a	and Access Levels	8
3	Pl	ans		8
	3.1	RA	Showings	8
	3.2	Res	source Adequacy (RA) Plans	9
	3.3	Sup	oply Plans	9
	3.4	Ter	nplates	10
	3.4	4.1	RA Plan Template	10
	3.4	4.2	Supply Plan Template	13
	3.5	Sec	quence of Events at a High Level	17
	3.6	Sub	omission of RA Plans	18
	3.	6.1	Errors on Upload of RA Plan	19
	3.7	Sub	omission of Supply Plans	20
	3.	7.1	Errors on Upload of Supply Plan	21
	3.8	Dov	wnload Plans	22
	3.8	8.1	Download RA Plan	22
	3.8	8.2	Download Supply Plans	25
	3.9	Fle	xible Capacity Survey Files	27
	3.9	9.1	Upload Flexible Capacity Survey File	28
	3.9	9.2	View/Download Flexible Capacity Survey File	28
	3.10	F	Texible RA Obligation Support Files	29
	3.	10.1	Download Flexible RA Obligation Support Files	29
	3.11	F	Texible RA Obligation Allocation	29
	3.	11.1	View/Download Flexible RA Obligation Allocation	30
	3.12	N	lanage Import Allocation	31
	3.	12.1	Remaining Import Capability	32
	3.	12.2	Remaining Import Allocation Reports	41
	3.	12.3	Holders of Import Capability	43
	3.	12.4	Submit Reserved Import Capability	44
	3.	12.5	Submit Bilateral Trades	46
	3.	12.6	View Bilateral Trades	48
	3.	12.7	Update Contact Information	49
	3.13	N	lative Load Needs (NLN)	50
	3.	13.1	Add/View Future NLN	50



	~ ^ /	~ ~		
	3.1	-	View Historical Data	
	3.1		Uploading Historical Data	
	3.14		et Qualifying Capacity (NQC)	
	3.1	4.1	Upload/Download NQC Request Form	
	3.1	4.2	Approve/Reject NQC	
	3.1	4.3	NQC Comments	56
	3.1	4.4	NQC Report	57
4	RA	Valio	dation	58
	4.1	Cros	ss Validation (CV) Runs	59
	4.1	.1	Cross Validation Supply Plan Details	59
	4.1	.2	Cross Validation RA Details	60
	4.1	.3	Cross Validation LSE Obligations Details	61
	4.2	Flex	Cross Validation Runs	62
	4.2	.1	Flex Cross Validation Supply Details	63
	4.2	.2	Flex Cross Validation RA Details	63
	4.3	Outa	age Impact Analysis (OIA)	64
	4.3	.1	MW Impact by Outage	65
	4.3	.2	Operational RA	66
	4.4	Res	ource Adequacy Substitute Capacity (RASC)	66
5	Sul	ostitu	itions	69
	5.1	Exp	ort Resource Curtailment Allocation	69
	5.2	Ford	ed	70
	5.2	.1	Create	70
	5.2	.2	Review	73
	5.2	.3	Release	75
	5.2	.4	Compatible Resources	76
	5.3	Plar	ned	76
	5.3	.1	Create	76
	5.3	.2	Review	79
	5.4	Outa	age Exemptions	81
6	RA		Pre-Calc	
7	00	P Of	fers	85
'	63			
'	7.1		Timeline and process for CSP	

California ISO

7.3	Search for Available Resources	91
7.4	CPM Designations	94
8 Re	ports	96
8.1	Generic Obligation Report	96
8.2	Flex Obligation Report	
8.3	Credits Report	
8.4	RA Report	
8.5	SC Transfer Report	
8.6	Acquired Contracts	
8.7	Import Capability RA Report	
9 Lee	gacy Replacements	
9.1	TAC Results	
9.2	Peak Results	
9.3	View Outage Impact	
9.4	View Outage Availability	
9.5	Approve/Reject Replacements	
9.6	View Replacement Details	110
9.7	OM Replacements	110
9.8	Approve/Reject OM Replacements	110
9.9	Replacement Requirement	110
10 Co	mmon User Issues	111
10.1 IE	User Sees a Blank Screen or Gets an 'HTTP Status 404' Error V	When Using
11 Ap	pendix	112
11.1	Entity Relationship for Planned Outage Substitution	112



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.

🍣 California ISO	California ISO Customer Interface for Resource Adequacy									
Plans	RA Validation	Substitutions	RAAIM Pre-Calc	CSP Offers	Reports	Legacy Replacements				
Welcome to Customer I Please use the menu bar above to		Adequacy								



2 Roles and Access Levels

CIF	RA 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 <u>Reliability Requirements</u> 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 <u>Reliability Requirements BPM</u>.



3.4 Templates

3.4.1 RA Plan Template

There are two ways to access the RA Plan template:

- 1. Download the <u>RA template</u> from the ISO website.
- 2. Use <u>CIRA</u> to download the template.

Steps:

- 1. Navigate to Plans.
- 2. Select RA Plan.
- 3. Select Template to download the RA template.

🍣 California ISO	Customer Interface for Res	ource Adequacy
Plans	RA Validation	Substitutions
RA Plan >	Template equacy	,
Supply Plan >	vavida Upload plication.	
Flex >	Download	
Manage Import Allocation		
NLN Submission		
NQC >		

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)
 - o Enter a valid LSE name
- Load Serving Entity ID (LSE ID)
 - \circ Enter a valid LSE ID
- Person who prepared this RA Plan (Name)
- Title
 - o 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

E	ਰਿ•ੇ ਦੇ ∓ Resource	AdequacyPlanTemplate.xls [Compatibility Mode] - Excel	• • • •
	le Home Insert Page Layout Forn	ulas Data Review View Q Tell me	
A3	3 • : × ✓ fx		~
	A	В	C A
1 2 3 4 5 6 7	Report Type Report Date Name of Load Serving Entity (LSE): Load Serving Entity ID (LSE ID):		Monthly of onthly/Annual) (MW/DD/YYYY) (Text Field) (LXXXX)
8 9 10	Person who prepared this RA Plan (Name): Title:		(Text Field) (Text Field)
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Primary Contact Name: Title: Address 2: City: State: Zip: Telephone: Email Back-Up Contact Name: Title: Telephone: Title:		(Text Field) (Text Field) (Optional, Text Field) (Text Field) (Text Field) (Numeric) (Numeric) (Text Field) (Text Field) (Text Field) (Numeric)
26 27 20	Email:	her (+) : ((Text Field)
Read			□ - + 100%

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)

	C ^a r ∓ ome Ins	ert Page Layout Fo	Reso rmulas Data			mpatibility Mode] ne what you want t		b – c	×
G19	• : :	× ✓ fx							
4	A	В	С	D	E	F	G	Н	1p
1 Monthly		Resource ID in CAISO 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)	
2							and the second se		
3 4	Admin	Info RA Capacity	Other 🕘 🕀				: 4	4	
eady] 🗐+ 100	%

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)
 - \circ UC = Under Construction
 - \circ LD = Liquidated Damages
 - \circ CM = Cost Allocation Mechanism



- RM = Reliability Must Run
- DR = Demand Response
- TAC Area (SCE, PGE, SDG, VEA, or SYS)

r c≥ - ∓ Home Insert Page Layout				E			×
• : × ✓ fx							,
В	C	D	E	F	G	н	1
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)	TAC Area (SCE, PGE, SDG, VEA, or SYS)	ID, RA	
Admin Info RA Capad	ity Other (+)		: .				
	Home Insert Page Layout	Resource ID (if applicable)	Home Insert Page Layout Formulas Data Review View Q Tell me Image: Image Layout Formulas Data Review View Q Tell me Image: Image Layout Formulas Data Review View Q Tell me Image: Image Layout Formulas D C D D Image: Image Layout RA Capacity (MW 00.00 No RA Capacity Effective Start Date (mm/dd/yyyy)	Note Note Home Insert Page Layout Formulas Data Review View Q Tell me what you want to do Image: Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas Data C D E Image Layout Formulas C D E Image Layout Formulas C D E Image Layout RA Capacity (MW 00.00 No RA Capacity Effective Start Date (mm/dd/yyyy) RA Capacity (mm/dd/yyyy)	Home Insert Page Layout Formulas Data Review View Q Tell me what you want to do Image: Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas C D E F Image Layout RA Capacity (MW 00.00 No RA Capacity Effective Start Date (mm/dd/yyyy) RA Capacity (MW, or DR) Capacity (MM, or DR)	B C D E F G B C D E F G Area (SCE, PGE, Resource ID (if applicable) RA Capacity (MW 00.00 No Rounding) RA Capacity (mm/dd/yyyy) RA Capacity (mm/dd/yyyy) RA Capacity (mm/dd/yyyy) Capacity (mm/dd/yyyy)	Home Insert Page Layout Formulas Data Review View Q Tell me what you want to do Image: Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas Data Review View Q Tell me what you want to do Image Layout Formulas Data Review The Capacity Note: Image Layout RA Capacity RA Capacity RA Capacity Capacity PGE, resource Resource ID (if applicable) RA Capacity (MW 00.00 No RA Capacity RA Capacity RA Capacity Capacity Resource ID (if applicable) RA Capacity (MW 00.00 No Resource Capacity Review Capacity Capacity Capacity Resource ID (if applicable) RA Capacity (MW 00.00 No RA Capacity Review Capacity

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 <u>Supply Plan template</u> from the ISO website.
- Use <u>CIRA</u> 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



8 *	5 - C						SupplyPlanTe	mplate.xls	[Compatibility Mode] - Excel	E	
	Hom	e Insert	Page Layo	out	Formulas	Data	Review	View	${\mathbb Q}$ Tell me what you want to do		
152	-] : [X	√ f _x	1							
4				A					В		С
8							от.			Marith	
-							Report Typ Report Dat	e		Monthly	
-							of Supplie				-
-					Schodulin		inator SCIE				
					Juneuunn	y coord	mator Jun				
-											
-			Person wh	o prep	ared this S	Supply P	lan (Name);			(Text Field)
-				10 10			Title				(Text Field)
-								1		÷	
						Prim	ary Conta				
							Name				(Text Field)
							Title				(Text Field)
							Addres				(Text Field)
1							Address				(Optional, Text Field)
							Cit				(Text Field)
							State				(Text Field)
							Zij				(Numeric)
							Telephone Ema				(Numeric)
							Ema	11			(Text Field)
-						Back	-Up Conta				
						Dace	Name				(Text Field)
							Title				(Text Field)
-							Telephone				(Numeric)
							Emai			-	(Text Field)
							Linu				(
-											
	E.	Admin Inf	o RA Cap	pacity	(+)				1	•	
ady	ż.			<u>.</u>							+ 100

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

File		्रेः ÷ ome Insert Page Layout	Formulas Da		yPlanTemplate.xls [(View Q Tell m	Compatibility Mo ne what you want		Œ	- • >	×
B18		• : × ✓ fx								*
4	A	В	С	D	E	F	G	н	1	
1 1	Monthly	Resource ID in CAISO 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)	LSE ID of Load Serving Entity	
2 3										
3	×	Admin Info RA Capacity	•		l;),	(•	j
Read	,								+ 1065	%

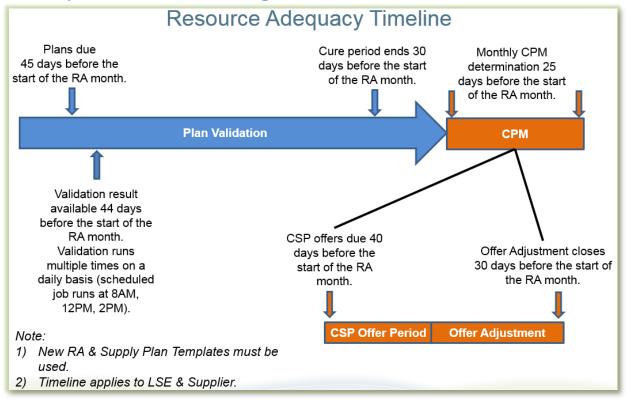


Usage Tips:

- 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 <u>Reliability Requirements BPM</u>.



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 <u>CSP calendar</u> 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.

Upload RA Pl	an
Submittal Type	Month Ahead
Target Period	January V Month 2018 V Year
SCID	-Select-
Upload File	Browse
Comments	
	~
📴 Upload 🔄	Reset

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. 0.999999999 (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.

🍣 California ISO	Customer Interface f	or Resource Adequacy
Plans	RA Validation	Substitutions
RA Plan >	terface for Resource Ad	equacy
Supply Plan >	avios Template	
Flex >	Upload	
Manage Import Allocation	Download	
NLN Submission		
NQC >		

- 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.



Upload Supp Submittal Type	Month Ahead
Target Period	January V Month 2018 V Year
SCID	-Select- 🗸
Upload File	Browse
Comments	^
📑 Upload 🔄	Reset

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. 0.999999999 (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.
- 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.

🍣 California ISO	Customer Interface fo	r Resource Adequacy
Plans	RA Validation	Substitutions
RA Plan >	Template	luacy
Supply Plan >	naviga Upload plication.	. ,
Flex >	Download	
Manage Import Allocation		
NLN Submission		
NQC >		•

- 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.

Subm	ittal Type	-Select-	~					
arge	t Period	-Select-	V Month	-Select- 🗸 Yea	ar			
SE		-Select-	Version -	Select- 🗸				
1issir	Ig	◯ Submitt	ed 🔿 Missin	g/Late Plans	L .			
/iew	🔊 Reset				- \			
SE	Submittal Type	Plan Month	Plan Yea	Submission Id	Submission Date	Status	Actions	Comments
	м	01	2018	1	12/20/2017 11:36:46	Validation In Progress	III 📥	Uploaded by NC
	Y	01	2018	6	11/17/2017 10:25:13	Validation In Progress	A A	Uploaded by NC
	м	03	2018	2	01/18/2018 07:28:40	Validation In Progress	III 📩	<script>alert("test") </script>
	М	05	2017	2	04/17/2017 14:56:00	Resubmittal Required	III 📥	
	м	04	2017	2	03/16/2017 15:18:33	Resubmittal Required	III 📥	
	м	08	2017	2	08/09/2017 09:26:57	Validation In Progress	III 📥	uploading OROVIL_6_UNIT with local MW
	М	01	2017	5	12/22/2016 13:00:46	Validation In Progress	III 📥	
	м	07	2017	1	05/16/2017 14:16:52	Validation In Progress	🔲 📥	
	М	02	2017	2	01/19/2017 16:53:34	Resubmittal Required	🔲 📥	
	М	03	2017	4	02/17/2017 10:45:54	Resubmittal Required	III 📥	
2	3 4 5 6	Next						Max: 10
Do	wnload Screen Re	sults						
_	wnload All Results							



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.

Download RA Pla	Download RA Plan Resources													
Submittal Type	м		Plan Month	01	Plan Year	2018								
LSE			Submission Id	1										
Download Show Type	Credit Resources													
Resource ID	▲ Local RA Capacity	System RA Capacity	Total RA MW	Effective Start D	ate	Effective End Date								

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:

Download RA Pla	Download RA Plan Credit Resources												
Submittal Type	м			Plan Month	01	Plan Year	2018						
LSE				Submission Id	1								
Download Show Type	Credit Resources	~											
📄 View 🏼 🎦 Reset													
Resource ID		TAC	Capacity Designation	RA Capacity MW	Effective Sta	rt Date	Effective End Date						

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:

Download Flex F	Download Flex RA Resources												
Submittal Type	м			Plan Month	01	Plan Year	2018						
LSE				Submission Id	1								
Download Show Type	Flex RA R	esources											
📄 View 崎 Rese	ŧ												
Resource ID		Flex RA MW	Category	Effective Start Date		Effective End Da	ite						



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.

Download RA Plan										
Submittal Type Month Ahead 💙										
Target Period January V Month 2018 V Year										
LSE	-Select- 🗸	Version -Select- 🗸								
Missing	○ Submitte	d 🖲 Missing/Late Plans								
View	Reset									
LSE	Submittal Type	Submission Date	Plan Month	Plan Year	Missing	Late Days				
	м		01	2018	Y					
	м		01	2018	Y					
	м		01	2018	Y					
	м		01	2018	Y					

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.

Download Supply Plan											
Submittal Type	-Select-	Select-									
Target Period	-Select-	Month -Sele	ct- 💙 Year								
SCID	-Select- 🗸	/ersion -Select	- 🗸								
\bigcirc Submitted \bigcirc Late Plan	5										
View Reset											
SCID Submittal Type	Plan Month	Plan Year 🔻	Submission Id	Submission Date	Status	Actions	Comments				

3.8.2.1 Download Submitted Supply Plans

Once the submitted Supply Plans are displayed:

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

Download RA Re	Download RA Resources											
Submittal Type	Y			Plan Year	2019							
Supplier	PCG2			Submissio	n Id 3							
Download Show Type	RA Resources											
📄 View 🏼 🗂 Reset	😭 View 崎 Reset											
Resource ID	Local RA Capacity	System RA Capacity	Total RA MW	Effective Start Date	Effective End Date	LSE						

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.

Downl	Download Supply Plan									
Submit	ttal Type -Select-									
Target	rget Period -Select- V Month -Select-V Year									
SCID	SCID -Select- Version -Select- V									
	○ Submitted ● Late Plans									
View	View 崎 Reset									
SCID	Submittal Type	Plan Month	Plan Year 🔻	Submission Id	Submission Date	Status	Actions	Comments		

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



🍣 California ISO	Customer Interface for Re	esource Adequacy
Plans	RA Validation	Substitutions
RA Plan > Supply Plan >	Iterface for Resource Adequad	су
Flex	Capacity Survey	
Manage Import Allocation	a Support Files	
NLN Submission	Allocations	
NQC		

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

California ISO Customer Interface for Resource Adequacy								
Plans	RA Validation	Substitutions						
Flex Capacity Survey Fil	e							
Assesment Year	2021 🗸							
LSE	-Select- 🗸							
Survey File	Choose File No file chosen							
📑 Upload 📑 View 📥 Do	wnload 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



California ISO Customer Interface for Resource Adequacy									
Plans	RA Validation	Substitutions	RAAIM Pre-Calc	CSP Offers	Reports	Legacy Replacements			
Flex Capacity Survey File									
Assesment Year	2022 🗸								
LSE	LXXX 🗸 Status -Sta	tus- 🗸							
Survey File	Choose File No file cho	isen							
🕞 Upload 🔓 View 📩 Dow	rnload Survey Files								
Flex Capacity Survey File Details									
Assesment Year	[≜] ↓ LSE	Submission Date	÷	Status	[⊕] ISO Updated Date	ISO Comments			
2022	LXXX	02/04/2021 15:47:51		APPROVED	02/04/2021 15:49:39				
						Test			
Show 50 🗸 entries									
Approve Reject Download Result	ts								

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

California ISO Customer Interface for Resource Adequacy									
Plans	RA Validation	Substitutions							
RA Plan → Supply Plan →	nterface for Resource Ade navigate the application.	equacy							
Flex >	Capacity Survey								
Manage Import Allocation	Support Files								
NLN Submission	Allocations								

- 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

ans			RA Val	idation	Substituti	ons	RAAIN	Pre-Calc		CSP Offers	Reports	Legacy Replace
ex R	A Obligation A	location										
Assesr	nent Year		2022	~								
Status			-Status	s- ¥ LSE LXXX	~							
Vie	w 📩 Download											
x RA	Obligation Allocati	on Details										
0	Assesment Year	[⊕] LRA	[♦] LSE	[≜] Start Date	[⊕] End Date	+ Total Requirement	Category 1	Category 2	Category 3	Comments	ISO Comments	[‡] Status
	2022	LRXXX	LXXXX	11/01/2022 00:00:0	11/30/2022 23:59:59	1.62	0.98	0.56	0.09			DRAFT
)	2022	LRXXX	LXXX	12/01/2022 00:00:0	12/31/2022 23:59:59	0.35	0.21	0.12	0.03			DRAFT
	2022	LRXXX	LXXX	03/01/2022 00:00:0	03/31/2022 23:59:59	4076.89	2497.66	1385.09	194.14			DRAFT
	2022	LRXXX	LXXX		08/31/2022 23:59:59		0.35	0.18	0.03			DRAFT



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

California ISO Customer Interface for Resource Adequacy									
Plans R	RA Validation	Substitutions	RAAIM Pre-Calc	CSP Offers	Reports				
RA Plan Supply Plan Flex Manage Import A NLN Submission NQC	Allocation	ace for Resource te the application. Remaining Import Cap Holders of Import Cap Submit Bilateral Trades View Bilateral Trades Reserved Import Cap Contact Information	pability pability						



3.12.1 Remaining Import Capability

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

	🍣 California ISO	Customer Interface for	Resource Adequacy
	Plans	RA Validation	Substitutions
	RA Plan > Supply Plan > Flex >	nterface for Resource Adeque navigate the application.	Jacy
1	Manage Import Allocation	2 Remaining Import Capability Holders of Import Capability	3 Remaining Import Capability Steps
	NQC >	Submit Bilateral Trades View Bilateral Trades	
		Reserved Import Capability Contact Information	

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

Scalifornia ISO Customer Interface for Resource Adequacy									
Plans	RA Validation	Substitutions	RAAIM Pre-Calc	CSP Offers	Reports				
Remaining Import Capability Steps	5								
Current Active Step: step9 Current Active Time Period: 04/08/2024 00:00 Current Active Description: step 9 Current Active Year: 2025	:00 to 04/10/2024 23:59:59	←							
Unassigned Available Import Capability Report	Step 8 - Transfers of Import Capability	Step 9/10 - Initial SC Request to Assign RIC	Step 11/12 - Secondary SC Request to Assign RIC	Step 13 - Request Unassigned	Remaining Import Allocation Reports				
Unassigned Available Import Capabil	lity Report								

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.

Remaining Import Capability Steps										
Unassigned Available Import Capability Report	Step 8 - Transfers of Import Capability	Step 9/10 - Initial SC Request to Assign RIC	Step 11/12 - Secondary SC Request to Assign RIC	Step 13 - Request Unassigned	Remaining Import Allocation Reports					
Unassigned Available Import Capabili	Unassigned Available Import Capability Report									
Year 2025 V Step step10 V View Select										
step7	steo7									
Showing 1 to 50 of 58 entries										
🔶 Year	Branch	Group	Unassigne	d Available Import Capability						
2025										
2025										
2025										
2025										
2025										
2025										





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.

Remaining Import Capability Steps										
Unassigned Available Import Capability Report	Step 8 - Transfers of Import Capability	Step 9/10 - Initial SC Request to Assign RIC	Step 11/12 - Secondary SC Request to Assign RIC	Step 13 - Request Unassigned	Remaining Import Allocation Reports					
Manage LSE Transfers										
Year 2025 V Transferor LSE -Se	Vear 2025 V Transferor LSE Select. V Transferee LSE Select. V Price \$/kw Month Quantity									
👘 View 崎 Reset										
Manage LSE Transfer Details										
Showing 1 to 2 of 2 entries										
Start Date End Da	te [©] Submitted Date	Transferor	ing Import Capability	sferee Price \$/kw	Month Quantity	Tradable Capacity				
01/01/2025 00:00:00 12/31/20	25 23:59:59 04/09/2024 21:54:36			10	1					





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:

- o Submitting requests past the submission window
- Transferring over their Tradeable Capacity limit
- Viewing other user's confidential information.

Remainin	ng Import Capabili	ty Steps										
Unassigne	ed Available Import Capabilit	ty Report Step 8 - Tran	sfers of Import Capability	Step 9/10 - Initial SC Request to	Assign RIC	Step 11/12 - Seconda	ry SC Request to Assign	RIC Step 13 -	Request Unassigned	Remaining Import Allocation Re	eports	
Year 2	Manage LSE Transfers Var. 2025 V Transferse LSE StateL V Price & //w Month Quantity					LSEs will not be able to view other LSE's Remaining Import Capability or Tradable Capacity totals after the transfer is completed.						
Showing 1	Start Date	eac End Date	$\stackrel{\texttt{L}}{\Rightarrow}$ Submitted Date	+ Transferor	[≜] Remain	ing Import Capabili	ty	Transferee	Price \$/kw	Month Quan	tity	Tradable Capacity
	01/01/2025 00:00:00	12/31/2025 23:59:59	03/21/2024 10:33:45									
	01/01/2025 00:00:00	12/31/2025 23:59:59	03/20/2024 08:56:20									
Show 50	✓ entries											Previous 1 Next
Save												
Dowr	nload All Results											

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).

Remaining Import Capability Steps	3
Unassigned Available Import Capability Report	Step 8 - Trans
Unassigned Available Import Capabi	lity Report

• 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

emaining Import Capability Steps						
Unassigned Available Import Capability Report St	ep 8 - Transfers of Import	Capability	Step 9/10 - Initial SC Request to Assign RIC			
Year 2024 🔹 LSE: -Select- 🗸 Import Group:						
	BLYTHE_BG	A				
View View	CASCADE_BG					
Step 10: RIC assignments and notification of Initial RIC will	COTPISO_ITC		ends.			
	CTW230_BG					

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

Plans	RA Validation	Substitutions	RAAIM Pre-Calc	CSP Offers	Reports	Admin	Legacy Replacements	
urrent Active Descriptic urrent Active Year: 202	11 6d: 04/22/2024 00:00:00 to 04/25/2024 23:5 est steol 1		Step 9 - Adding Requests 1) Select Add to create a new row 2) Under Requested Import Capability enter the desired amount 3) Select Submit when finished					
	poest to Assign RIC							
Wew (g) Add								
SC Request Rema	sin Import Allocation Capability De	tails		↓ 2				
U Year	Lse	Group Name		Requested Import Capability			Delete	
							×	
Shon 50 V entries Submit	- 3						Previous 1 Nerd	

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.

erent Active Step: st	riod: 04/22/2024 00:00:00 to 04/25/2024 23:59: Non: step11	59	"Requested Import Ca	pror Message				
	nport Capability Report Step 8 - Transfers of Report equest to Assign RIC LAPMM V Import Group: Choose ImportGro		Requested Import Cap	the available limit X for the Group XXX. Total Requested Import Capacity MW is greater than the available limit X for the selected"				
1 Yew (A01	Calculate	6						
		Group: CFE_BG. Total Requested Import Capacity Mrv	than the available limit : 133 for the selected (se.					
	nain Import Allocation Capability Deta	ils						
SC Request Ren	nain Import Allocation Capability Deta	ills Group Name	Requested Import Capability	Delete				

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.

Sent: Monday, April 1, 2024 11:08 AM	Example of the email notification sent once step		
Subject: CIRA RIC Notification	10 assignments are completed.		
TEST EMAIL :The Remaining import Allocation Capability request for 1 gro	roups: , has been processed successfully. Please login to CIRA Application		



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.

Showin	g 1 to 1 of 1 entries	≜ ▼ Start Date	[≜] [♥] End Date	$\frac{a}{\nabla}$ 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	how 50 v entries Previous 1 Next									

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.

assigned A	vailable l	mport C	apabil	lity Report
ar -Select- 🗸	Step -Sele	ect- 🗸 Vie	w.	
	-Sele	ect-		
	-Sele	ct-		

- 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

temaining Import Capability Steps							
Unassigned Available Import Capability Report	Step 8 - Transfers of Import Capability	Step 9/10 - Initial SC Request to Assign RIC	Step 11/12 - Secondary SC Request to Assign RIC				
Secondary SC Request to Assign RI		1					
	BLYTHE_BG	-					
View 😭 Add	CASCADE_BG						
	COTPISO_ITC						
	CTW230_BG						
	ELDORADO_ITC						

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

Plans	RA Validation	Substitutions	RAAIM Pre-Calc	CSP Offers	Reports	Admin	Lenacy Replacements
Current Active Descripti Current Active Year: 202 Unassigned Average In	211 Sod: 04/22/2024 00:00:00 to 04/25/2024 23:59 en: step11	ort Capability Step 9/10 - In	2) Under Red	1) Select A quested Impo	dd to crea ort Capabil	Requests ate a new row ity enter the nen finished	/ desired amount
SC Request Rem	ain Import Allocation Capability Det	ails		↓2			
Year	Lse	Group Name		Requested Import Capability			Delete
							*
Show 50 V entries Submit	- 3						Previous 1 Net



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.

emaining Import Cap reent Active Step: step:1 reent Active Time Period: 0 reent Active Description: st reent Active Year: 2027	/22/2024 00:00:00 to 04/25/2024 23:59:59			Sample Error Message "Requested Import Capacity MW is greater th the available limit X for the Group XXX. Tota				
Unassigned Available Import C Secondary SC Reques	1		quest to Assign RIC Step 11/12 - Secondary 54	equested Impor		V is greater t		
🗐 Yew 😭 Add 📑 C		nun CEF BG Tetal Beneratiet imont Car	month form the souther test - 131 for the selected in-					
Requested Import Capacity MWI			poorly forms					
Requested Import Capacity MWV SC Request Remain I	greater than the available limit : 2121 25 for the Gr		openly terminal light that the available level - 133 for the selected tee Requested Targ	vort Capability		Defete		

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

rent Active Step: step8 rent Active Time Period: 04/08/2024 00 rent Active Description: step 8 rent Active Year: 2025	2DS 1:00:00 to 04/09/2024 23:59:59	Current	Active Step: step9 Active Time Period: 04/08/2024 Active Description: step 9 Active Year: 2025	4 00:00:00 to 04/10/2024 23:59:59				
Inassigned Available Import Capability Report	t Step 8 - Transfers of Import Ca	pability Step 9/10 - Initial SC I	Request to Assign RIC Step 11/1	12 - Secondary SC Request to Assign RIC Step 13 - Requ	est Unassigned Remaining Import Allocation Reports			
Vear 2025 VLSE: Select- V Import					an submit for impor			,
께 view SC Request Remain Import Allo	cation Capability Details				s, the same BGs pr capability users ha	,		ne
	cation Capability Details					,		1e
C Request Remain Import Allo			amount o	f remaining import	capability users ha	ve can be ut	tilized.	
C Request Remain Import Allo	Start Date	End Date	amount o	of remaining import	Capability users ha	ve can be ut	tilized.	

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.

From: no-reply@caiso.com <no-reply@caiso.com> Sent: Monday, April 1, 2024 11:08 AM Subject: CIRA RIC Notification</no-reply@caiso.com>	Exar	nple of the email notification sent once step 12 assignments are completed.
TEST EMAIL : The Remaining import Allocation Capability request for	f groups:	, has been processed successfully. Please login to CIRA Applicatio



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		[≜] Start Date	$\stackrel{\diamond}{=}$ End Date	$\stackrel{\diamond}{=}$ Requested Date	Requested Import Allocation Capability	Assigned Import Allocation Capability	≜ ▼ Request Status	[≜] LSE Limit	$\frac{A}{2}$ 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 5	0 🗸 ent	tries							Previous	1 Next





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

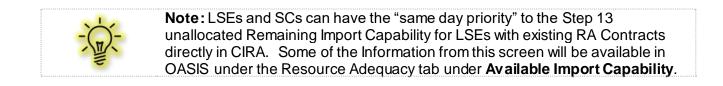
After the calculation run is complete for Step 12 and the submission window opens, users can move on to submissions for Step 13.

• 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.

Re	emaining Import Capability Steps								
	Unassigned Available Import Capability Report Step 8 - Tra								
				1	ble Impo -Select- ✔	rt Cap View	babi	lity Report	
				ī	-Select- step7 step10 step12	;			

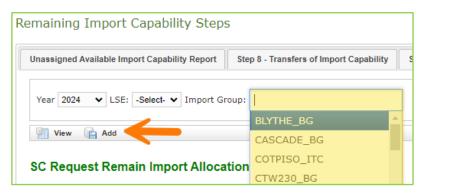
• Step 13 – Request unassigned subtab is where users can request any unassigned import capability. As part of the Maximum Import Capability (MIC) Enhancement, this subtab was previously referred to as "SC Request Unassigned Import Capability."

Remaining Ir	mport Capability Step	S								
Unassigned Ava	ailable Import Capability Report	Step 8 - Transfers of Im	port Capability	Step 9/10 - Initial SC Request	to Assign RIC	Step 11/12 - Secondary SC	Request to Assign RIC	Step 13 - Request Unassigned	Remaining Import Allocation Reports	
Year 2024	▼ LSE: -Select- ▼ Import G	roup: Choose ImportGr	roup]						
View 😭	Add									
SC Reques	t Remain Import Alloca	tion Capability De	tails							
L	se Group Name	Start Date	End Date	Requested Date	Contracted	RA Mw Req	uested Import Alloca	tion Capability 🔶	Assigned Import Allocation Capabil	ity Request Status
						No data available in ta	ble			
Show 50 🗸 e	entries									Previous Next
Update										
Download	All Results									

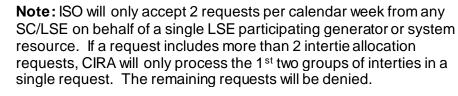




a. Select **Year Ahead**, **SCID** (or LSE ID), and **Import Group** from the drop down to request for an Unassigned amount of Import Allocation Capability and then click **Add**.







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.



-)
AT/
、肥、
5

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

assigned Available Import Capability Report Step 8 - Transfers of Import Capa Year 2025 V LSE; V Import Group:	LSE/SC to enter the requested M Requested Import Capability fie		sorts
Www Add C Request Remain Import Allocation Capability Details owing 1 to 1 of 1 entres Year Lse Group Name		Contracted RA MW	Delete
Vear Lse Group Name	Requested Import Capability		X
		W in the Contracted RA MW LSE/SC has an RA contract	field if the



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.

maining Import Capability Step Unassigned Available Import Capability Report Year 2025 V LSE: V Import	Step 8 - Transfers of Import Capability	Step 9/10 - Initial SC Request to Assign RIC St	Sample Error Message "Requested Contract MW: X value sho as requested import capability X fo XXXXX_BG. Please submit valid CO	uld be the same r the group
Requested Import Capability MW:10 cannot be gre SC Request Remain Import Alloc		r 0 for the Group: Please submit valid Cont	racied MW. Requested Contract MW-4 value should be same as requested import capability 10 for the Group.	Please submit valid Contracted MW.
Showing 1 to 1 of 1 entries	e Group Name	Requested Import Ca	pability Contracted RA MW	Delete
2025		10	4	×
Show 50 v entries				Previous 1



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**.

California ISO Customer Interface for Resource Adequacy					
Plans	RA Validation	Substitutions			
	Iterface for Resource Adeq havigate the application.	uacy			
Manage Import Allocation	Remaining Import Capabili Holders of Import Capabili				
NQC	Remaining Import Allocatio Submit Bilateral Trades View Bilateral Trades Reserved Import Capability				
	Contact Information				

- 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

<i>i</i>	California ISO Customer Interface for R	esource Adequacy			
Plans	RA Validation	Substitutions			
Month:	April 👻 Year 2024 💙 LSE: -Select- 💙 Import Group	Choose ImportGroup			
📳 Impo	Import Capability Used in Annual RA Plan				

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



v. Used All Capability

Month: April Vear 2024 LSE: -Select- V In	aport Group: Choose ImportGroup		
Import Capability Used in Annual RA Plan			
	y Plans under Section 40.2.1.1, 40.2.2.4, 40.2.3.4, and 40. Intertie has fully included the assigned import capability in t	2.4, the ISO posts the information below indicating each holder the holder's annual Resource Adequacy Plan.	r of import capability for each intertie, and whether each
Month Year	Group	LSE	Used All Capability
April 2024			



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

SCID -Select- V Import Group -Select- V Target Period Year -Select- V	Holders of Import Capability		
		Import Group -Select-	Target Period Year -Select- 💙



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.

📄 View						
SCID	SCID Name	Group Name	Import Allocation	Group Type	Start Date	End Date
			45.41		01/01/2015	12/31/201
Dow	nload Screen Results					



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

A	L	• = 🕽	X 🗸	<i>f</i> _𝔅 scι	D			
	Α	В	С	D	E	F	G	Н
1	SCID	SCID Nam	Group Na	Import All	Group Typ	Start Date	End Date	
2				45.41		01/01/2015	12/31/2015	23:59:59
3								
4								
5								
6								

3.12.4 Submit Reserved Import Capability

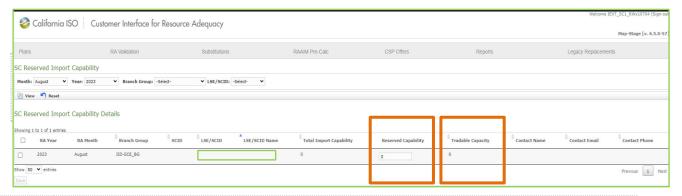
1. Navigate to **Reserved Import Capability** screen.

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.

	🍣 California ISO	Customer	Interface	for Resource	e Adequacy	
	Plans RA Valida	tion Substit	utions	RAAIM Pre-Calc	CSP Offers	Reports
	RA Plan > Supply Plan > Flex >	nterface for R navigate the applic		lequacy		
1	Manage Import Allocation	Holders of	Import Capabi Import Capabi Iteral Trades			
	NQC	View Bilate	ral Trades mport Capabil	ity		

- 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.





Transferor SC	•	
Transferee SC		
Import Group	· · ·	
Price \$/kw Month		
Term	12/01/2015 TO 12/31/2015	
Quantity		

Submit Bilateral trades				
Bilateral Trades tr	ransaction 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 12/01/20	15 _{TO} 12/31/2015		
Quantity			
📄 Submit Transfer 🛛 📄 View Curr	ent 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.

RA Plan hterface for Resource Adequacy Supply Plan navigate the application. Flex Manage Import Allocation Remaining Import Capability NLN Submission Holders of Import Capability	
Supply Plan navigate the application. Flex > 1 Manage Import Allocation Remaining Import Capability	
1 Manage Import Allocation Remaining Import Capability	
NLN Submission Holders of Import Capability	
NQC	
2 View Bilateral Trades	
Reserved Import Capability	

View Bilateral Trades		
Transferor -Select- Transferee -Select-	Import Group -Select-	EndDate:
😭 View		

- 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.

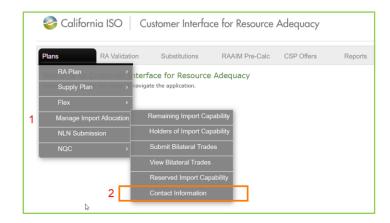
View Bilateral Transferor		nsferee -Select- 🔻	Import G	šroup	• StartDate: 1/1/	2015		EndDate: 12/31/2016	
🗎 View									
Transaction ID	 Transferor 	Transferee	Import Group	MW Transferred	Start Date	End Date	Price	Transaction Date	Status
35					09/01/2015	12/31/2015		08/11/2015	REJECTED
42					09/01/2015	09/30/2015		08/28/2015	
**	-	_		-	03/01/2013	03/03/2013	-	00,20,2010	
Download Screen	Results								



3.12.7 Update Contact Information

1. Navigate to Contact Information screen.

a. Select from the dropdown menu under Manage Import Allocation.



California ISO Customer Interface for Resource Adequacy											
Map-Stage [v. 6.5.0-61]											
Plans	RA Validation Substitutions RAAIM Pre-Cal		RAAIM Pre-Calc	CSP Offers	Reports	Legacy Replacements					
LSE/SCID Contact	LSE/SCID Contact Information										
LSE/SCID	LSE/SCID -Select-										
Name											
💼 View 🏼 🦳 Reset											
LSE/SCID	Name	SCID	Phone	Secondary Phone	Email		Secondary Email				
📄 Add 🛛 📄 Edit											
Download Screen Res	Download Screen Results										

- 2. Select the LSE/SCID from the drop down.
- 3. Enter a contact name into the Name field and then click Add.

Add new LSE/SCID contact
Add LSE
LSE/SCID:
Name:
Phone:
Email:
Secondary Phone:
Secondary Email:
All fields required unless specified (optional)
😭 Save Cancel



- <u>`</u>
小

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.

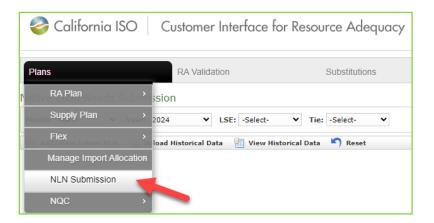
🍣 Californi	ia ISO Customer Inte	rface for Resourc	ce Adequacy									
Plans		ion in the second se	Sam	ple Error Mes	sage	Legac						
Plans RA Validation "There is already an existing LSE/SC with ID XXXX."												
There is already an exis	There is already an existing LSE/SC with ID ABC1											
LSE/SCID	-Select-	~										
Name												
🕞 View 🄄 Reset												
LSE/SCID	▲ Name	SCID	Phone	Secondary Phone	Email	Secondary Email						
ABC1	Test 123		123-456-7898	123-458-9778	ari@caiso.com	LNPtest@caiso.com						
😭 Add 🛛 😭 Edit												

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.

[Native	Load Need	s Submissi	on								
	Month: February V Year: 2024 V LSE: Select V Tie: Select V											
	🖹 Add/View Future NLN 🔓 Upload Historical Data 🄄 View Historical Data 🍬 Reset											
4	Notive Load Needs Submission Details											
		Month	[∲] Year	LSE	TIE	M+1 February 2024	M+12 January 2025	Contract Hours	Replacing RA Contract?	Replacement Intertie January 2025	Replacement (NLN) MW January 2025	
		February	2024	~	×					~		

- 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).

Native I	Native Load Needs Submission										
Month:	February 🗸 🗸	Year: 2024	✓ LSE:	-Select-	✓ Tie: -Seled	ct- 🗸					
📳 Add/View Future NLN 🔓 Upload Historical Data 🖉 View Historical Data 🎽 Reset											
Native Load Needs Historical Data Details											
LSE	TIE	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022	09/2022	10/2022	11/2022	12/2022
Show 50 v entries											
Downlo	oad All Results	🔎 PDF									





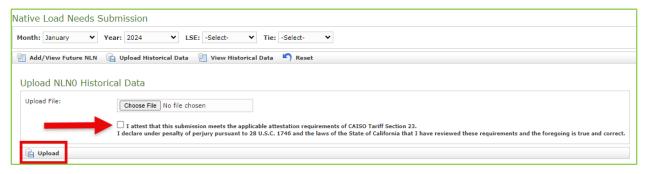
Note: Preferred downloading format is EXCEL or CSV when users are wanting to update the historical data listed.

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

California ISO Customer Interface for Resource Adequacy										
Diana	DAMalidation	Outetitutions								
Plans	RA Validation	Substitutions								
RA Plan Customer >	terface for Resource Adequacy	,								
Supply Plan >	navigate the application.									
Flex >										
Manage Import Allocation										
NLN Submission										
NQC >	Upload/Download									
	Approve/Reject NQC									
	NQC Report									

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

Upload Submit NQC Request Form									
SCID	-Select- 🔻								
NQC Request Form	Browse								
📴 Upload 🛛 📴 View									



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	В	С
Name of Entity Scheduling Coordinator (SCID):		(Text Field) (AAAA)
Person who prepared this NQC Request (Name): Title:		(Text Field) (Text Field)
Primary Contact Name: Title: Address: Address 2: City: State: Zip: Telephone: Email	TEST Title Folsom CA 95630	(Text Field) (Text Field) (Optional, Text Field) (Text Field) (Text Field) (Numeric) (Numeric) (Text Field)
Back-Up Contact Name: Title: Telephone: Email:		(Text Field) (Text Field) (Numeric)

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	NN	JUL	AUG	SEP	ост	NOV	DEC
2	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	0.8
	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	4.6
	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	22.6
	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	61.8
	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	5.8
7	7/1/2015	K_GAS	GAS	LCAISO	N	59	59	59	59	59	59	59	59	59	59	59	5
9 Admin Info NQC Request +																	

When the screen has loaded:

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

Upload	Upload Submit NQC Request Form										
SCID	SCID										
NQC Re	NQC Request Form Browse										
📄 Uple	oad 📄 View										
Downlo	Download Submit NQC Request Form										
	Id V SO	CID File M	ame		Version	View Details					
	647		2015-01-Net-Qualifying-Capacity.xls	View file co	ntents						
	528		2015-01-Net-Qualifying-Capacity,xls		ISO	III 📥					
	527		2015-01-Net-Qualifying-Capacity.xls		ISO	🖽 📥					
	454		2015-01-Net-Qualifying-Capacity.xls	Download	l file						
	453		2015-01-Net-Qualifying-Capacity,xls		ISO	III 📩					
Downlo	ad Files Down	IloadAll									
1 2	3 4 5 0	Next				Max: 10 -					

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.

-Stat Save Save Reje	ing LR/	A: CPUC	SCID		Re	sourceId:			FuelTy	pei		Are	a: Bay A	rea			ueue/Wl	DAT#:								
Req# R	esourceId	SCID	LRA	Status	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Disp.	FuleType	Hist	Que./WDAT#	Area	Path Desig.	Deliv.Status		Effective .	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 I		CAISO System	South	Interim	100%	09/01/2016	
581		ΠГ	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	494.5	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	v	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.

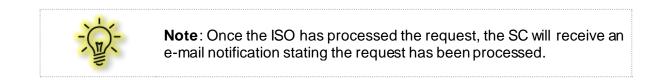
itus: Sa	ading UR/ ved proved jected	A: OPUC	⊻ scit		Re Re	sourceId			FuelTy	pe		Are	a: Bay A	rea		v 0	ueue/Wi	AT#:								
Req#	ResourceId	SCID	LRA	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Disp.	FuleType	Hist	Que./WDAT#	Area	Path	Deliv.Status	DeLMW	Effective	Comments
																						Desig.			Date	
581			CPUC	APPROVED	0.05	0.25	1.25	14.34	14.79	15.13	13.62	13.65	14.09	11.12	0.03	0.02	N	SOLR	Y		CAISO System	South	Interim	100%	09/01/2016	
581		ΠГ	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	Ν	GAS	N		Big Creek- Ventura	South	Full Capacity		09/01/2016	3
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	
41		U E	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	v	GAS	N		LA Basin	South	Partial	484.5	06/01/2016	
441			CPUC	APPROVED	494.5	484.5	484.5	484.5	494.5	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	
			CPUC	APPROVED														GAS			Bay Area		Full Capacity		06/01/2016	

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.





View 崎 Reset																								
Req# ResourceId	SCID LRA	Status		Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Disp.	FuleType	Hist.	Que./WDAT#	Area	Path Desig.	Deliv.Status	Del.MW	Effective Date	 Comments
					0.31	0.32	0.46	0.5	0.54	0.49	0.4	0.26	0.28	0.29	N	WATR	N			North	Partial	80.00	01/01/2018	
		APPROVED			0.08	0.73	0.77	0.9	0.82	0.9	0.84	0.66	0	0	N	SOLR	N			North	Partial	80%	01/01/2018	Pending
		APPROVED	0	0.02	0.1	0.91	0.96	1.13	1.03	1.12	1.05	0.83	0	0	N	SOLR	Y			North	Full Capacity		12/01/2017	
		APPROVED	0	0	0	0	0	0	0	0	0	0	0	0	N	WATR	Y			South	Energy Only		12/01/2017	
		APPROVED	100	100	100	100	100	100	100	100	100	100	100	100	Y	GAS	Y			North	Full Capacity		12/01/2017	
		APPROVED	100	100	100	100	100	100	100	100	100	100	100	100	Y	GAS	Y			North	Full Capacity		12/01/2017	
		REJECTED	0	0.02	0.1	0.91	0.96	1.13	1.03	1.12	1.05	0.83	0	0	N	SOLR	Y						12/01/2017	
		APPROVED	0	0.02	0.1	0.91	0.96	1.13	1.03	1.12	1.05	0.83	0	0	N	SOLR	N			North	Full Capacity		04/01/2017	
		PENDING	0	0.01	0.09	1.07	1.1	1.13	1.03	1.03	1.05	0.83	0	0	Y	OTHR	N						01/01/2017	
		APPROVED	0.31	0.29	0.31	0.32	0.46	0.5	0.54	0.49	0.4	0.26	0.28	0.29	N	WATR	N			North	Full Capacity		01/01/2017	
1 3 4 5 6 7 8	9 10 . 35 Ne	et																						Max: 10

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 View S Reset

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.

Validation View									
Submittal Type: Month	Ahead V Month: March V Year:	2018 Validation Type: -Select-	· v						
📄 View 🏼 🔊 Reset									
Run Num	Validation Type	Submittal Type	Plan Month	Plan Year	OutageType	Run Start Date	Run Status	Created By	View Detail
-bad /	Validation Type CV	Submittal Type	Plan Month 03	Plan Year 2018	OutageType	Run Start Date 01/26/2018 08:05	Run Status COMPLETE	Created By cvAnalysisJob	View Detai

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

Cross Validation Supply Details							
Run Num		e	Submittal Type	м		Plan Mo	nth
SCID	-Select-	F	Resource ID				
Detail Type	Supply Plans RA Plans LSE Obligations	\sim					
🕞 View 崎 Reset	LSE Obligations						
Validation Status Supplier Resource ID	Local RA Capacity	System RA Capacity	Supplier's Total RA Capacity (MW)	Effective Start Date	Effective End Date	SCID of LSE	Errors & Warnings

Details presented are:

- 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.

	Cross Validation RA	Details						
	Run Num			Submittal T	уре	м	Pl	an Month
	LSE	-Select- 🗸		Resource II	0			
	Detail Type	RA Plans	~					
	💼 View 🏼 🖍 Reset							
L	Validation Status LSE	Resource ID	Local RA Capacity	System RA Capacity	LSE's Total RA Capacity (MW)	Effective Start Date	Effective End Date	Errors & Warnings



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

Run Num		Submittal Type	М		Plan Month	01		Plan Year	20
Detail Type		LSE Obligations	-Select- 🔽		Туре	-Select-	v		
🔒 View 🏼 🗂 Reset									
Validation Status	V LSE	Effective Start Date	Effective End Date	Validation Type	Obligation MW	Plan RA MW	Short/Long (MW)	Obligation Status	TAC



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**.

Validation View									
Submittal Type: Month	Ahead V Month: March Vear:	2018 Validation Type: -Select	- 💌						
💼 View 崎 Reset									
Run Num	Validation Type	Submittal Type	Plan Month	Plan Year	OutageType	Run Start Date	Run Status	Created By	View Details
	cv	м	03	2018		01/26/2018 08:05	COMPLETE	cvAnalysisJob	
	FLEX CV	м	03	2018		01/26/2018 08:05	COMPLETE	cvAnalysisJob	· · · · · · · · · · · · · · · · · · ·

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.

	Cross Validatio	on Supp	oly Details								
	Run Num				Submittal Type	м		Plan Mon	th 01	Plan Year	2018
	Detail Type		Flex Supply Plan Flex RA Plans	ns	Resource ID						
	SCID		-Select- 🗸		\searrow						
	📄 View 🏼 🗂 Res	set									
L	Validation Status	Supplier	Resource ID	Category	Flex Capacity (MW)	Effective Start Date	Effective End Date	LSE	Errors & Warnings		

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.



Cross Validation RA	A Details							
Run Num		Submittal	Туре	М	Plan Month	10	Plan Year	2017
Detail Type	Flex RA Plans	Resource	ID					
LSE	-Select-							
🐚 View 崎 Reset								
-uu /								
Validation Status LSE	Resource ID Category	Flex Capacity (MW)	Effective Start Date	Effective End Date	Errors & Warnings			

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.

Validation View									
Submittal Type: Month Ahead	Month: January Vear: 2018	Validation Type: OIA			Planned/ Forced / Planned & Forced				
Ge men / Meser									
Run Num	Validation Type	Submittal Type	Plan Month	Plan Year	OutageType	Run Start Date	Run Status	Created By	View Details
	OIA	м	01	2018	PLANNED	01/26/2018 12:30	COMPLETE	outageAnalysisJob	

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.

Outage Impact Analysis Details				
Run Num : Detail : MW Impact by Outage	SubmittalType : Monthly ResourceID :	ValidationType : OIA OutageID :	Plan Month : 01 Start Date :	Plan Year : 2018 End Date :
Operational RA Image: Cancel Image: Cancel Image: Cancel				

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.

Outage Impact Analysis Details				
Run Num : :	SubmittalType : Monthly	ValidationType : OIA	Plan Month : 01	Plan Year : 2018
Detail : MW Impact by Outage	ResourceID :	OutageID :	Start Date :	End Date :
🔁 View 🎽 Cancel				
ID ResourceID	▲ Impact MW Short/Long	StartDate EndDa	ate OutageId (Dutage Status Priority TS

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.

0	utage Impact Analysis Details				
F	tun Num :	SubmittalType : Monthly	ValidationType : OIA	Plan Month : 01	Plan Year : 2018
C	Detail : Operational RA	Supplier : -Select-	ResourceID :		
	🗄 View 🏼 🎦 Cancel				
s	upplier Resource ID	• 01/1/2018 01/2/2018 01/3/2018 01/	/4/2018 01/5/2018 01/6/2018 01/7/20	18 01/8/2018 01/9/2018 01/10/2018	8 01/11/2018 01/12/2018 01,

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.



Indicates Initial POSO

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

Validation View									
Submittal Type: Month A	Nhead 🗸 Month: December 🕚	Vear: 2022 Validati	on Type: RASC_CALC	~					
💼 View 🄄 Reset									
Run Num	Validation Type	Submittal Type	Plan Month	Plan Year	OutageType	Run Start Date	Run Status	Created By	View Details
2578418795928	RASC_CALC	м	12	2022		12/14/2022 16:05	COMPLETE	racsCalcAnalysisJob	

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.

RASC Assignments			
Run Num: 2578432233690	Submittal Type: Monthly	Plan Month : 12	Plan Year : 2022
Resource ID :	Outage ID :	SCID : -Select- V	Date :
🖭 View 🙀 Cancel			

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)
 - I. 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)

Showin	Assignmen g 0 to 0 of n Num	0 entries Run Date	Date	[♦] scid	Resource Id	Outage Id	[∲] PMAX	[†] Curt. Mw	e RA Mw	RASC Mw	SubMw	Nature Of Work	Status	ShowPeriodE	End
							No	o data available in	table						
Show	50 🗸 ent	ries												Previous	Next
	wnload Scr wnload All	een Results													
	whioad All	Results													



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.

Download Screen Results
Cownload All Results
CSV EXCEL 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	Plan, CPM,		Planned Substitution, if RASC is
RA	Substitution	Planned	assigned
Generic	Plan, CPM,		
RA	Substitution	Forced	Forced Substitution
	Plan, CPM,		
Flex RA	Substitution	Planned	Forced Substitution
	Plan, CPM,		
Flex RA	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.

onth	July 🗸	Year	2022 🗸	OutageId:		ResourceId:			Outa	ge Type: -Select- 🗸	Pt Export Flag:	<u>~</u>
è vi	iew 崎 Reset											
uta	ges											
owin	g 1 to 24 of 24 e	version	∲ Type	[≜] ResourceId	ResourceName		PT Export Flag	[♦] scid	[♦] Status	[♦] StartDt	[≜] EndDt	ReceivedDate
С	12032004	6	FORCED				Y		OUT	07/04/2022 18:33:00	07/06/2022 21:00:00	07/04/2022 18:35:58
С	12037196	2	FORCED				Y		APPROVED	07/10/2022 00:00:00	07/10/2022 23:59:00	07/05/2022 16:44:22
C	12033794	4	FORCED				Υ		OUT_OK	07/06/2022 00:00:00	07/06/2022 23:59:00	07/05/2022 05:46:05
С	12005662	4	FORCED				Υ		OUT	07/06/2022 00:00:00	07/06/2022 23:59:00	06/29/2022 06:34:55
C	12039554	3	FORCED				Υ		APPROVED	07/07/2022 00:00:00	07/07/2022 23:59:00	07/06/2022 04:45:20
С	12039725	2	FORCED				Y		APPROVED	07/13/2022 00:00:00	07/13/2022 23:59:00	07/06/2022 05:48:24

5.2 Forced

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

Substitutions	
Export Resource Curtailment allocation	
Forced >	Create
Planned >	Review
Outage Exemptions	Release
	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- V	Substitution Required -Select- V	
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
0			Big Creek-Ventura		FORCED	08/30/2017 11:27:00	09/30/2018 17:00:00	ENVIRONMENTAL_RESTRICTIONS		YES	Generic RA Flex RA
0			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
0			CAISO System		FORCED	10/31/2016 14:16:00	12/31/2019 23:59:00	PLANT_TROUBLE		YES	Generic RA Flex RA
0			LA Basin		FORCED	01/19/2018 15:18:00	01/22/2018 00:00:00	PLANT_MAINTENANCE		YES	Generic RA Flex RA
0			LA Basin		FORCED	12/29/2017 00:00:00	01/31/2018 23:59:00	PLANT_MAINTENANCE		YES	Generic RA Flex R
0					FORCED	12/29/2017 00:00:00	01/30/2018 23:59:00	PLANT_TROUBLE		YES	Generic RA Flex RA
0					FORCED	12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEMP		YES	Generic RA Flex RA
0			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.

Start Date End Date NQC Total RA MW Local MW System MW CPM MW Dispatchable										
Start Date	chu Date	ngc	TOLOT KA PIW	LOCAL MAN	System MW	CELL MAN	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.

Search function:

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.



Review Forced Outage Subs	titution Request (For Flex S	ubstitution, Substitute Resource must provide	must offer obligation for Outage reso	urce)
Substitution ID	Original Resource ID	Sub Resource ID	Outage ID	Substitution Status -Select-
Trade Month January	Trade Year 2018	Substitution Type -Select-	Supplier SC -Select- 🔽	DA 🗌 Third Party 🗌 RT
Search				

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 Origi	al SCID Original Res ID	Original Res Name	Sub Res ID	Description	Sub Type	Market Timefra
۲		12/29/2017 00:00:00	01/30/2018 23:59:00	PLANT_TROUBLE						GENERIC	DA
0		12/29/2017 00:00:00	01/31/2018 23:59:00	PLANT_MAINTENANCE						GENERIC	DA
0		01/01/2018 00:00:00	01/31/2018 23:59:00	PLANT_MAINTENANCE						FLEX	DA
0		12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEM	IP					FLEX	DA
0		12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEM	1P					GENERIC	DA
0		12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEM	1P					GENERIC	DA
0		12/29/2017 00:00:00	01/30/2018 23:59:00	PLANT_TROUBLE						GENERIC	DA
0		12/29/2017 00:00:00	01/30/2018 23:59:00	PLANT_TROUBLE						GENERIC	DA
0		12/29/2017 00:00:00	01/31/2018 23:59:00	AMBIENT_DUE_TO_TEM	1P					GENERIC	DA
Outage	ID:	Resource on Outag				ic RA Flex RA Outage Info					
Day				01/24	01/25	01/26	01/27	01/28	01/29	(1/30
Outage Generic		Outage Info		0	0	0	0	0	0		0
Substitu	ite Local MW			0	0	0	0	0	0		0
Substitu	ite System M	w		12.52	2.52	1.52	0.52	3.52	4.52		5.52
CPM Sub	bstitute MW			0	0	0	0	0	0		0
Total Su	ibstitution M	w		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.



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

Release Substitution Resources	
Outage Id:	Substitution Req Id:
Resource Id:	Substitution Type: -Select-
Substitution Start Date:	Substitution End date:
View	

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.

Release Substitution Resources										
Outage Id:	Subs	titution Req Id:								
Resource Id:	Resource Id: Substitution Type: Select- 🔽									
Substitution Start Date:										
View										
"Substitution should be commenced for release to be requested										
Substitution Release Requests										
Outage ID Substitution Req ID Original Resource ID Original SC ID Original SC A	pproval Substitution Resource ID Substitution SC ID	Substitution SC Approval Release Date	Comments Sub Star	t Date Sub End Date S	Substitution Type					
SELECT		SELECT V	01/05/2018	00:00:00 01/05/2018 23:59:59	GENERIC					
😭 Save										



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.

Trade Year	Outage Resource	Outage Resource SC ID	Potential Substitute Resource	Potential Substitute Resource SCID	Effective Start Date	Effective End Date
2016					01/01/2016 00:00:00	12/31/2016 23:59:59
2016					01/01/2016 00:00:00	12/31/2016 23:59:59
2016					01/01/2016 00:00:00	12/31/2016 23:59:59
2016					01/01/2016 00:00:00	12/31/2016 23:59:59
2016					01/01/2016 00:00:00	12/31/2016 23:59:59
2016					01/01/2016 00:00:00	12/31/2016 23:59:59
2016					01/01/2016 00:00:00	12/31/2016 23:59:59
2016					01/01/2016 00:00:00	12/31/2016 23:59:59
2016					01/01/2016 00:00:00	12/31/2016 23:59:59
2016					01/01/2016 00:00:00	12/31/2016 23:59:59

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

5.3 Planned

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

Substitutions	_
Export Resource Curtailment allocation	
Forced >	l
Planned >	Create
Outage Exemptions	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

							Review Plann	ed Outage Sub
ide Month January 👻 *	Trade Year 2023 💙 🍍							
age ID	Resource ID	Sup	plier SC -Select- 💙					
Showfilldo Doouffe								
New Show/Hide Results								
ing 1 to 2 of 2 entries 1 row select								
	Resource Name	[©] Outage ID	† Start Date	© End Date	Nature of Work	Opportunity Flag	4 Area	[†] SCID
ing 1 to 2 of 2 entries 1 row select		Outage ID	© Start Date	© End Date 01/30/2023 23:59:00		Opportunity Flag	Area	¢ scid

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 Su	Planned Substitute Resource Selection														
Sub Start Dat	te	*		Sub E	ind Date		*		🗌 Only Th	ird Party Reso	ources		\checkmark	Non-RA Capa	city Only
Resource ID				SC IE	-SCID-	~			Area -Sele	ct-	~				
Search Show/Hide Results															
Substitute MW															
*Press Ctrl + -> or Ctrl + <- keys to copy data in the cells right or left															
Outage ID:	F	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.

ub Start Date 01/01/2018 *	Sub End Date 01/31/2018 *	Only Third Party Resources	Non-RA Capacity Only		
source ID SC ID -SCID-		Area -Select-			
Search Show/Hide Results					
ving 1 to 50 of 147 entries					
CID Resource ID	[⊕] Resource Name		RA Info	+ Area	S
			RA Info	Kern	A
			RA Info	LA Basin	A
				LA Basin	F
			RA Info	DA Dasin	/

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

Dutage ID: Resource	e on Outage:		Ou	tage SCID:	_						
Day		01/01	01/02	01/03	01/04	01/05	01/06	01/07	01/08	01/09	01/10
RA MW	2	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.

Review Planned Outage Substitution			
Substitution ID	Original Resource ID	Sub Resource ID	Outage ID
Trade Month January 💌 *	Trade Year 2018 💌 *	Substitution Status -Select-	□ Third Party □ Released
Search			

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

Showing	1 to 8 of 8 entries									
	igoplus 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
0		01/01/2018 00:00:00	01/31/2018 23:59:00	PLANT_MAINTENANCE						
0		01/01/2018 00:00:00	01/31/2018 23:59:00	PLANT_MAINTENANCE						

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.

Outage ID:	Resource on Outage:	Outage SCID: I		Generic Outage Info	
Release	Day		02/20	02/21	02/22
_	POSO MW		0	455.21	455.21
1	Total Cumulative Sub Cap		0.00	455.21	455.21
Ľ	<substitute id="" resource=""> \ SC ID</substitute>		APPROVED	APPROVED	APPROVE
	Substitute MW		0	455.21	455.21
	CPM Substitute MW		0	0	0
/					

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.

Substitutions	
Export Resource Curtailment	allocation
Forced	>
Planned	>
Outage Exemptions	

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.

Outage Exemption Requ	iests				
OutageId:	ResourceId:	Outage Start Date:	Outage	End Date: Status -Status-	Outage Exemptions
Search Outages					
Search Outages					
OutageId:	ResourceId:	Outage Start Date:	01/31/201	18 Outage End Date: 01/31/2018	Show Outages
OutageID V Resou	urceID	Outage Start	(Outage End	Outage Type
		01/31/2018 00:00:00	(02/01/2018 00:00:00	FORCED
New Outage Exemption Reque	est:				
OutageId:	ResourceId:	OutageStartDate:		OutageEndDate:	
Outage Exemption Type:					
Comments:			^		
			\checkmark		
Submit					

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.

AIM Calcula	ations								
alculation Period I	Month J	lanuary 🔽			Calculation	n Period Year 2018 🔽			
larket Timeframe	-Select	- 🗸			Status -S	elect-			
🛓 View 🏼 🏷 Re	set								
Run ID	۲	Calculation Start Date	Calculation End Date	Executed Date	Status	Run Type	Comments	Is Auto Publish	View Details
		01/29/2018 15:00:00	01/29/2018 15:59:59	01/29/2018 14:00:00	COMPLETED	SCHEDULER			· •

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



in ID					Resourc	e ID											Market	Timefra	me RTM	~								
ate From 10/30	/2017				Date To	11/29/	2017																					
🛓 View 🛛 R	eset																											
Resource	Outage Info	Run Marl	et 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	HE
	View Outages	RTI	1 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	115
	View Outages	RTI	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	RTI	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	115
	View Outages	RTI	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	115
	View Outages	RTI	1 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	RTI	1 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	115
	View Outages	RTI	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	26.7
	View Outages	RTI	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	6.7
	View Outages	RTI	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	RTI	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



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 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
2 3	Next 10 V							

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 <u>Reliability Requirements BPM</u>, 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.
 - o 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.

	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.

• ISO may issue a CPM designation.



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.

CSP Offers	
Create and Submit CSP	Offers
Select -Offer Type-	D- V -Trade Month- V -Trade Year- V View Load Offers
Monthly /	ources
Resource:	Physical O Ities Area: -Select-V FlexCategory: -Select V Search Show/Hide



Monthly view:

Create and Submit CSP O	Offers									
Select: Monthly V	✓ August ✓ 2023 ✓	View Load Offers								
Search for available Reso	urces		\sim							
Resource:	Physical Ities Area:	· FlexCategory:		h Show/Hide						
ResourceID		· PMAX	-Select- 1 2 3	PMIN	NQC		EFC		FlexCategory	Area
CSP Offers										
Resource		NQC	EFC	GenMW	FlexMW	Price \$/kW	FlexCat	OfferStatus		Comments
Cancel										
🖹 CSV 📓 EXCEL 📙 PDF										
Submitter Details First Name:										
Last Name:										
SC Email 1: SC Email 2:										
ISO Description:										

Intra-Monthly View:

Create and Submit CSP Of	fers								
Select: IntraMonthly ~	July View 2023 View Load C	ffers							
Search for available Resou	rces								
Resource:	Physical O Ities Area: SDG FlexCateg		Search Show/H	ide					
ResourceID	• PMAX	-Select- 1 2 3	PMIN		NQC		EFC	FlexCategory	Area
1 2 3 4 5 Next 10 ¥									
CSP Offers									
Resource		NQC	EFC	GenMW	FlexMW	Price \$/kW	FlexCat	OfferStatus	Comments
								VALID	
								VALID	
								VALID	
Cancel									
🖹 CSV 📓 EXCEL 🔑 PDF									
Submitter Details First Name:									
Last Name:									
SC Email 1: SC Email 2:									
ISO Description:									



Yearly view:

Back Park Park <th< th=""><th>ResCat</th></th<>	ResCat
Note: Note: <th< td=""><td></td></th<>	
Next Next Set Set </td <td></td>	
1 1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>	
100 100 <td></td>	
1 1 <td></td>	
111 0 1 64 </td <td></td>	
1 1	
14 0 1 1 0 1 1 0 1 10 1 5 10 1 5 10 1 5 10 1 5 10 1 5 10 1 5 11 1 5 12 1 5 13 1 5 14 1 5	
1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1	
414 21 1 404 (be)	
4.0 3 1 644 mm 5 18 0 1 544 mm 5	
119 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
28.8 0 Store Municipal	
Gran Hanni A	
January Personary Ream P Personary Ream P Personary Ream P Personary Ream P Personary Personary <th></th>	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	
story 54.1 54.1 54.1 54.1 531 1 ACCEPTED	
Belley 1.7 1.7 6.1 4.0970 Relay 2.0 2.0 6.3 4.0970	
natury 4.43 4.43 0.3 0.4.100 alary 3.64 3.44 1.0 (ACCETED	
Natory 27 27.0 2.7 ACCEPTED	
May 1.0 1.0 3.0 ACOPTD May 6.33 6.33 6.43 6.40 ACOPTD	
Num 6.13 6.33 6.33 4.0 ACOPTO Relay 3.34 3.34 3.23 3.22 ACOPTO	_
Pry 15 15 15 15 15 15 15 15 15 15 15 15 15	
Contract of the second s	
an fi an ji an	
Salmiter Details	
Fork None	
Sc Craul 5	
K Insi 2	
380 Description	

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

Load Offers

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

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

CSP Offers									
Create and Submit CSP	Offers								
Select: Monthly 🔹	▼ October ▼	2015	•	View	Load Offe	ers			
Search for available Re	sources								
Resource:	Physical C Ities	Area: -	Select-	FlexCat	egory: -S	elect- 🔻	Search	Show/Hide	
CSP Offers									
Resource	NQ	C EF	FC	GenMW	FlexMW	Price \$/kW	FlexCat	OfferStatus	Comments
) г							ACCEPTED	
								ACCEPTED	
								ACCEPTED	



SP Offers Create and Submit CSP Offers	
Select: Vearly	Offers can be viewed by month on Yearly submission.
CSP Offers	bw/Hide
January February March April May June July August September October Nov Resource NQC EFC GenMW FlexMW Price FlexCat OfferSta \$/kW	atus Comments
	* *

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 <u>Search for Available Resources</u> column to further update the Offer form.

Create	and Submit (
Select:	Yearly -Offer Type-
Search	IntraMonthly

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



January	February	March	April	May 1	June	July	Augu	ist Se	ptember	Octobe	r November	December
Res	ource			NQC	EF	С	GenMW	FlexMW	Price \$/kW	FlexCat	OfferStatus	Comments
				41.28			3.0		1.0		RECEIVED	
				668	558	3	5.0	5.0	1.0	1	RECEIVED	



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.
- 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 Search
- 6. Click **Show/Hide** to show or hide available resources.

Select: Monthly	October 💌 201	5 👻 Vie	w 🗌 Load Offers			
earch for available	Resources					
Resource:	Physical Tites Ar	ea: 🔽 🔻 F	lexCategory: 1	✓ Search	Show/Hide	
ResourceID	▼ PMAX	PMIN	NQC	EFC	FlexCategory	Area
					1	
					1	1.1
					1	
						4
					1	1.1
					1	6
					1	1

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.



CSP Offers												
Create and Submit	CSP Offers											
Select: Yearly -	-Trade	e Month- * 201	в 👻	View 🔲	Load Off	ers						
Search for availabl	e Resources											
Resource:	Phy	sical C Ities Are	ea: 💶 🔻	FlexCate	egory:	•	Search	Show	/Hide			
ResourceID	PMAX	PMIN	FlexCategory	Are	Star	tMonth	EndMo	onth	GenMW	FlexMW	Price	FlexCat
	1.38	0			-Sta	art Month-	-End f	1onth- 🔻				
	6.25	0			-Sta	rt Month-	-End I	1onth- 👻				
	24	0	1		-Sta	art Month-	-End I	Ionth- 🔻				
	5	0			-Sta	art Month-	-End f	1onth- 🔻				
	22	0	1		-Sta	art Month-	-End f	Ionth- 🔻				
	17.2	0			-Sta	art Month-	-End I	1onth- 🔻				
	46	20	1		-Sta	art Month-	-End f	Ionth- 🔻				
	33.7	0			-Sta	art Month-	-End f	Ionth- 🔻				
	94.5	0	1		-Sta	ort Month-	-End f	Ionth- 🔻				
	22	0			-Sta	art Month-	-End f	1onth- 🔻				
1 2 3 4 5 6 AddResource CSP Offers	7 8 9 10	36 Next	10 -									
January Februar	y March Ap	oril May	June July	Augus	t Sep	tember	October	Nove	mber	Decembe	r	
Resource		NQC	EFC	GenMW	FlexMW	Price \$/kW	FlexCat	OfferStat	us	Comm	nents	
		94.5	94.5					RECEIVED				^ *
				5.0	788995	1.0	1	RECEIVED				*
		42.12		3.0		1.0		RECEIVED				*
		668	558	5.0	5.0	1.0	1	RECEIVED				* *

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** ^I and click
 Delete ^{Delete}.

Search for available	e Res	ources						
Resource:		Physical	ical C Ities A	rea: -Select- 🔻	FlexCatego	ry: -Select- 🔻 S	earch	Show/Hide
ResourceID	٠	РМАХ	PMIN	FlexCategory	Area	StartMonth	EndMonth	GenMV
		2	0	1		January 🔻	June	•



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.

Data Maintenance Candidate Sear	ch		
Submittal Type Select-	Start Date:	End Date:	Search

- 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.

ID Des	ignation Search F		r Filter											
ID		Resource ID	Resource Name	Period Type	Schedule Type	Flex Cat.	CPM MWs	StartDate	End Date	CPM Type	Price \$/kW-mon	Tac Area	Designation Details	Status
				MONTHLY	GENERIC		11.90	09/01/2016 00:00	09/30/2016 23:59	CADEF	6.31		For September Mkt Sim	DESIGNAT
				MONTHLY	GENERIC		35.26	09/01/2016 00:00	09/30/2016 23:59	CADEF	2.75		For September Mkt Sim	DESIGNAT
				MONTHLY	FLEXIBLE	1	92.00	09/01/2016 00:00	09/30/2016 23:59	FRDEF	2.75		For September Mkt Sim	DESIGNA
				MONTHLY	GENERIC		92.00	09/01/2016 00:00	09/30/2016 23:59	CADEF	2.75		For September Mkt Sim	DESIGNA
				MONTHLY	GENERIC		32.20	09/01/2016 00:00	09/30/2016 23:59	CADEF	7		For September Mkt Sim	DES IGNA

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.



ID
Resource
Schedule Type
Flex Category
CPM MWs
CPM Type
Price \$/kW-mon
Tac Area
Decline ED
Status

- 7. Enter desired filtered information and click Apply Filter.
- 8. To return to the default search information, click Clear Filter.

CPM Designation Search Results		
	Apply Filter	Clear Filter

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

CSV	EXCEL	PDF	

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



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

Generic Obligation Report Flex Obligation Report
Flex Obligation Report
Credits Report
RA Report
SC Transfer Report
Acquired Contracts
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

Generic (Obligatio	on Report																		
Submittal T	Туре		Month Ahead	~		Start Month			Janua	ry 🔽			End Month		January 🔽		Year		2018 💌	
LSE			-Select-			TYPE			-Selec	t-	•		TAC		-Select- 💌					
View 🌑	Reset																			
LRA	LSE	TYPE	▼ TAC	REQ	DR	ADJ_DR	RMR	CAM	LD	UC	Tot_Adj	PRM	REQ+PRM	ADJ_OBL	Local RA	System RA	Total RA	Sht/Lng	Generic Factor	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
- 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

Flex Obligation Repo	ort						
Submittal Type	Month Ahead						
Start Month	October 🔽	End Month	De	cember 🔽	Ye	ar 2017	~
LSE	-LSE- 🗸	Flex Category	-Fl	ex-Category-	~		
📑 View 崎 Reset							
Entit# Type	StartDate	EndDate	Obligations	Showings	Qualified Showings	Short/Long	Assessment



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.

	Flex/Peak Demand/LCR By Tac Credits	
	Submittal Type : Month Ahead V Year : 2022 V Month : November V Type: -Select- V LSE: -Select- V TAC: -Select- V	
ĺ	🔄 View 🏼 Seset	i

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.

RA Rep	ort		
Resource:		StartDate:	EndDate:
Search [Download All Results Re	eset	

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

RA Report														
Resource:	StartDate: 01/31/2018 En	dDate: 01/31/2018												
Search Download All Results Res	et													
Resource ID	[≜] Start Date	$\stackrel{\text{\tiny (a)}}{=}$ End Date	PMAX	PMIN	NQC	EFC	ТАС	Local Area	[⊕] Generic RA	Generic CPM	Flex RA	[≜] Flex CPM	[≜] Flex CAT	$\stackrel{\texttt{L}}{=}$ Must Offer Obligation



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

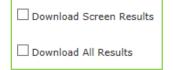
Field Name	Meaning	UI + Download/ Only Download
SCID	Supplier	Only Download
Resource ID	Resource ID for each resource adequacy resource	UI + Download
Start Date	Start date selected by the user. RA is displayed at a daily granularity in PST.	UI + Download
End Date	End date selected by the user. RA is 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
СРМ	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

📄 CSV 國 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

SC Trans	sfer Detail	S									
Select Mor	nth Ahead 🔽	-Trade Month- 💙 -1	Trade Year- V Show	/ Results							
Old SCID	New SCID	Resource	StartDate	EndDate	PlanID	SubmissionID	New PlanID	Plan Year▼	Plan Month	SubmittalType	Comments

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.

cquired Contracts Report					
SCID -Select- ¥ Resource:					
🚡 View 📩 Download					
© Contract Id	Resource Id	¢ scid	Contract Start Date	© Contract End Date	
Second Street Property	and a second		11/14/2008 00:00:00	09/15/2041 00:00:00	
	1000 J. 1000	and the second se	11/14/2008 00:00:00	09/15/2041 00:00:00	
	1000 () (1000)		11/14/2008 00:00:00	07/28/2041 00:00:00	
	1000 C 1000		11/14/2008 00:00:00	07/28/2041 00:00:00	
	100 J 10 J 10 J		04/01/2009 00:00:00	06/15/2027 23:59:59	
			04/01/2009 00:00:00	06/15/2027 23:59:59	
	and a state of the		04/01/2009 00:00:00	07/01/2036 23:59:59	
	and a state of a state		04/01/2009 00:00:00	06/30/2025 23:59:59	
	and a second sec		04/01/2009 00:00:00	03/01/2029 23:59:59	
			04/01/2009 00:00:00	09/30/2017 23:59:59	
	and an experimental second second		04/01/2009 00:00:00	01/01/2023 23:59:59	
			04/01/2009 00:00:00	01/26/2021 23:59:59	



- 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

							Map-Stage [v. 6.5.0-61]
Plans	RA Validat	ion	Substitutions	RAAIM Pre-Calc	CSP Offers	Reports	Legacy Replacements
mport Capability	/ RA Report						
Submittal Type: Mon	th Ahead	✓ Month:	August Vear: 20	23 V Intertie:	Select- V		
🔄 View 🛛 🔊 Reset							
yiew S Reset mport Capability	/ RA Report D	etails					
mport Capability	/ RA Report D	etails _{Year}	Intertie	Jurisdiction	LSE ID SCID	Total Import Capability	RA Showing MW
mport Capability	/ RA Report D		Intertie MONAIPPDC_ITC	Jurisdiction	LSE ID SCID	Total Import Capability 182.01	RA Showing MW



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.

Legacy Replacements
Tac Results
Peak Results
View Outage Impact
View Outage Availability
Approve/Reject Replacements
View Replacement Details
OM Replacements
Approve/Reject OM Replacements
Replacement Requirement

9.1 TAC Results

To view historical TAC results:

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

TAC Results			
Submittal Type	м		
Year	-Select- 🗸	Month	-Select- 🗸
LSE	-Select- 🗸	TAC	-Select- 🗸
View 崎 Rese	t		



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.

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	10/13/2010
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 Ade	quacy 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 Out	ages												
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 Spe	cified Replacen	nents											
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 Repl	acements											
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

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.

PEAK Results	
Submittal Type	М
Year	-Select- V Month -Select- V
LSE	-Select-
View S Res	t

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.

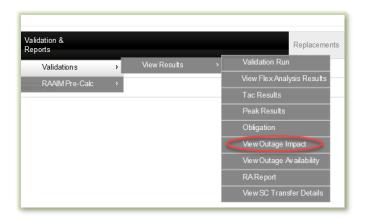
Date	09/1/2016	09/2/2016	09/3/2016	09/4/2016	09/5/2016	09/6/2016	09/7/2016	09/8/2016	09/9/2016	09/10/2016	09/11/2016	09/12/2016	09/13/2016	09/14/201
Peak Obligation	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6	16,678.6
Resource Ad	equacy Show	ing												
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 Ou	Itages													
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 Sp	ecified Repla	cements												
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 No	on-Specified R	eplacements												
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



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.

View Outage Impact			
Submittal Type	М		
Year	2016 🗸	Month	October 🗸
LSE		Resource ID	
Outage View	-Select T45	Supplier	
View 🌇 Reset			

The screen displays the following:

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



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

View	Dutage Impact												
Submit	tal Type		М										
Year			2017	~		Month		C	ecember 🔽				
LSE			-Select-	~		Resource IE)						
Outage	View		-Select-	~		Supplier		-	Select- 🗸				
View	Reset												
LSE	Resource ID	RA	Start	End	Designation	Supplier	Outage View	12/1/201	7 12/2/2017	12/3/2017	12/4/2017	12/5/2017	12/6/

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.

Plans		lidation & ports	Replacements
View Outage Availability			
Submittal Type	Μ		
Year	2015 🔻	Month	October 🔻
LSE		Resource ID	
Outage View	 -	Supplier	
View Reset			

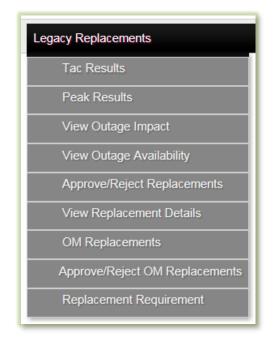
The screen displays the following:

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



i. Date-wise break-up of the outage availability for the ro	i.	Date-wise	break-up	of the	outage	availability	for the rov	v
---	----	-----------	----------	--------	--------	--------------	-------------	---

ans				Valida Repor				Repla	acements			
/iew	Outage Availa	bility										
Submit	ttal Type		м									
Year			2015	•	Month	n		September	•			
LSE				•	Resou	urce ID						
				_								
Outage	e View		-Select-	•	Suppl	ier		— -				
Outage View	Reset		-Select-	•	Suppl	ier						
		RA	-Select-	End			Outage View	_	09/2/2015	09/3/2015	09/4/2015	09/5/
View	Reset	RA 26			Suppl Designation D		Outage View	_	09/2/2015 26	09/3/2015 26	09/4/2015 26	09/5/ 26
View	Reset		Start 09/01/2015	End	Designation		_	09/1/2015				
View	Reset	26	Start 09/01/2015	End 09/30/2015	Designation		T45	09/1/2015 26	26	26	26	26
View	Reset	26 580	Start 09/01/2015 09/01/2015 09/01/2015	End 09/30/2015 09/30/2015	Designation D D		T45 T45	09/1/2015 26 580	26 580	26 580	26 580	26 580
View	Reset	26 580 85	Start 09/01/2015 09/01/2015 09/01/2015 09/01/2015	End 09/30/2015 09/30/2015 09/30/2015	Designation D D D		T45 T45 T45	09/1/2015 26 580 85	26 580 85	26 580 85	26 580 85	26 580 85



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**.

Approve/Reject Replacer	nents		
Replacement Type	SR 🔍	Replacement Status	-Select-
Target Period	-Select- V Month -Select- V Year		
LSE	-Select 🔽	Resource ID	
🔒 View			

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.

View Replacement Details		
Replacement Type	-Select- 🗵	Replacement Status -Select-
Target Period	-Select- V Month -Select- V Year	
LSE	-Select V	Resource ID
Original Resource ID		
😭 View		

9.7 OM Replacements

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

View Outage In	formation						
Trade Month:	-Trade Month- 🔽	Trade Year:	-Trade Year- 🗸	OutageId:		ResourceId:	
Outage Start Date:		Outage End Date:		Time Frame:	€T45 Ootd	Show Outages	

9.8 Approve/Reject OM Replacements

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

Select Replacement Request								
	Trade Month:	-Trade Month- 🗸	Trade Year:	-Trade Year- 🗸	OutageId:		ResourceId:	
	Outage Start Date:		Outage End Date:		Time Frame:	€T45 OOTD	Show Pending	Show Requests

9.9 Replacement Requirement

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



Resource Replacement Requirements
Target Period -Select- V Month -Select- V Year Show Replacement Requirements

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.

Compatibility View Settings						
Change Compatibility View Settings						
Add this website:						
caiso.com Add						
Websites you've added to Compatibility View:						
Remove						
Blank						
Display intranet sites in Compatibility View Uncheck both Use Microsoft compatibility lists Check-boxes						
Learn more by reading the <u>Internet Explorer privacy statement</u>						



11 Appendix

11.1 Entity Relationship for Planned Outage Substitution

