

Resource Interconnection Management System (RIMS)

Transmission Training Manual

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1. Launching the Market Participant Homepage

Type the following URL into the address field of Internet Explorer

https://portal.caiso.com

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Since this is a secure site you will need to have a valid ISO certificate loaded on your computer first. If the certificate is valid you will see the following screen. You can also go directly to RIMS using the link <u>https://portal.caiso.com/rims</u>.



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2. Navigate to Transmission

Initial view after using your certificate with RIMS is shown below. Note that the user name is in the upper right hand corner (in this example it is GE). Your certificate determines which modules are visible (App and Study, Transmission, and/or Generation). To access the Transmission module click on either of two Transmission links.



Since this example is logged in as a ISO representative the screen shows all project summaries. Any of the columns can be sorted by clicking on the desired column header or you can enter a word in the cell below the header and click on filter at the bottom of the screen. The example below shows a filter of "CRO" being added in the Utility Name field and clicking on the "Apply Filter" button therefore only projects at CRO are shown. The next example shows another filter options. An existing project can be accessed by double clicking on its blue project name.

Project Name 😓	Project ID	Utility Project Status	ISO Project Status	Utility Name	Utility Est. Operational Date	ISO Est. Operational Date	ISO PM	Utility PM	ISO OE
		Status	Status			1			
TRN_TEST002	TRN002		Planning	CRO		10/04/2026	ISO_Project Mana		
seville Sub new 230kV Substation	RCX01		Planning	CRO		04/30/2011	ISO_Project Mana		

Clicking on a date field filter gives the following date range dropdown menu. Select the "Date Range" to see just projects at this utility for a specific date range. Note that you can export your filter results to an Excel spread sheet or PDF report by clicking on the corresponding icon located in the upper left hand corner of the transmission projects screen.

Transmission Projects										
Reset Grid Apply Filter										
Project Name 😓	Project ID	Utility Project Status	ISO Project Status	Utility Name	Utility Est. Operational Date	ISO Est. Operational Date	ISO P	м	Utility PM	ISO OE
				CRO						
00_TRN_TEST002	TRN002		Planning	CRO		Today	C	ct Mana		
Roseville Sub new 230kV Substation	RCX01		Planning	CRO		(t Mana		
						Last 7 days				
						Month to date				
						Year to date				
						The previous Month				
ф Go to Page				🗉 🔍 Page	e 1 of 1 🗠 🕬	Specific Date	•			
IMS Home						All Dates Before				
						All Dates After	•			
						Date Range				

3. Adding a new Transmission Project

- To add a new project click on the <u>New Transmission Project</u> name in the upper left hand corner of the above summary screen to get the following screen example.
- Note that the user can only populate the fields that are faded and the fields that are required before it can be saved have an " * " after the field name.
- The user of the following screen failed to complete all of the required fields before saving as noted by the red outlined fields with the 2 upper left hand notes explaining what is missing.
- All entrees since the last successful save will be lost if the user
 - exits this screen
 - clicks on either the refresh, reset, or back buttons
 - doesn't waiting until the successfully been saved message is displayed

Failed to create project					
 Project Description is required Purpose & Benefit is required 					
Failed to create project					
Project Project Name * Proje ABC 115kV Substation, N COV		ISO Project Status * Planning 🗸	Utility Projec	ct Status	Utility Name *
Project Details	Capacity Increase (MW)		Cost \$MM *		ed Original Cost \$MM (confidential)
Los Angeles County		NA			
ISO Est. Operational Date *	Utility Est. Operational Date		Operational Date	Utility	Project Code
SCADA Visibility	SCADA Visibility Date		Connection Date	ISO M	leter Inst. Date
Project Description *					
		2			
	2				
Purpose & Benefit *		6			
	~	6			
- Miscellaneous		-			
EMS Display Name	Data Acquis	ition Method		Inter/Intra Tie	
RAS?	Related Pro	ject		CPUC Report	
Market Model Impact Only	Operating P	rocedure			
Approval Utility Approval	ISO Approva	ıl		CPUC Approval	
Approval Date	Approval Da	te		Approval Date	
Activities					
Failed to create project					
Save					

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When the application has finished saving the new entrees it shows the message "Failed to create project" above the project name field plus the note "There are no Primary Contacts for this utility. Please contact ISO administrator. The application auto populates the Utility Contact and the ISO Project Manager Contact upon successfully saving. You will receive this message if either one of these has not been defined by the ISO administrator. Please contact Jim McHan at extension 5815 if you receive this message.

Failed to create project			
Ontere are no Primary Contacts for this utility	ty. Please contact ISO administrator.		
Failed to create project			
Project Project Name * Project II ABC 115kV Substation, N COVX01			tatus Utility Name *
Project Details Location * Los Angeles County ISO Est. Operational Date * 05/31/2012 SCADA Visibility Project Description * New City of Vernon ABC 115kV Substation.	Capacity Increase (MW) Utility Est. Operational Date SCADA Visibility Date	Plan Cost \$MM * NA Actual Operational Date MDAS Connection Date	Planned Original Cost \$MM (confidential) Utility Project Code ISO Meter Inst. Date
Purpose & Benefit * Expansion			
Miscellaneous EMS Display Name RAS? Market Model Impact Only	Data Acquisition Method Related Project Operating Procedure		nter/Intra Tie
Approval Utility Approval Approval Date	ISO Approval	[CPUC Approval

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4. Selecting, changing, adding a contact – the "Copy Contacts" link will show after the successful saving of a new project. If you have created a project for this same utility in the past the Copy Contacts will list that project and you can copy the same contacts into the current project



To select a contact click on "View/Edit Contact" link, this brings up the contact administration window shown below.

	ises				
Project roject Name * FOLSOM 230kV Substatic Contacts	^{Contact} Contact Ac	Iministration			×
Utility Planning Representa Barbara Madrid <u>view/edit</u>	Utility Project Search	Manager]	
ISO Network Applications E	Contact First Name * Title	Barbara Sr. Project Manager	Last Name * Organization *	Madrid PGE 💌	
SO Grid Operations Engine	Company Name City Zip Code	GE Anywhere	Street Addres State Phone Number *	123 First Street California 1234568033	
ISO Master File Engineer	Extension Fax Number	12345	Cell Number Email Address *	cbedford580747@caiso.	
Project Details ocation * OLSOM	PGE PGE				
0 Est. Operational Date *	New Edit	Save Apply Res	Remove Contact		
CADA Visibility Date		DAS Connection Date	ISO MIELEMINSL. Dalle		
roject Description * New Folsom 230 kV substat	ion	~			

Selecting a contact

- The contact administration search field is very flexible it will bring back all contacts with any field that has any whole portion of what is entered in the field.
- In the following example "test" was entered into the search and it brought up all contacts with the word "test" shown in any field.
- Click on the desired contact's name and then click on the "Apply" button to transfer it to the contact field on the summary page.
- This is the field used to know where the automatic notification e-mails will be sent.

Selecting a contact example

🚳 https://ftweb1	.ete.wepex.net:4443 - R	esource Interco	onnection Manage	
				<u>^</u>
https://ftweb1	.ete.wepex.net:4443 - R	esource Interco	onnection Manage	
	Administratio	n:		
test		4004507777		
GE DL3 TI	EST Utility contact EST Otility Rep Cont est	1234567777 444444444 123123123	dleung@caiso.com dleung@caiso.com 123123@test.com	
City	SAN			
State	California 💌			
Zip Code	2222222			
Phone Number*	33333333			
Ext	444			
Fax Number	555555555			
	jmchan@cais .com			
* Denotes requir				

Adding a new contact

- If the desired contact is not shown in the drop down list you can add a new user by clicking on the "New" button at the bottom of the window and filling out the new contact information.
- The fields ending with an " * " are required if "save" is selected before they are all filled in the required fields are marked in red and have the phrase "value is required" as shown below.
- When the required fields are filled in another "save" will send it to the summary screen and permanently add it to the contact list.

Adding a new contact example

Contact			×
Contact A	dministratior	ו	^
Utility Projec	t Manager		
Failed to save	e contact!		
	not be blank not be null		
Contact			≡
First Name *	Jane	Last Name * Doe	
Title		Organization * GE 🗸	
Company Name		Street Addres	
City		State 🗸	
Zip Code		Phone Number *	
Extension		Cell Number	
Fax Number		Email Address *	

Editing a contact

- Contact information can also be edited by selecting the desired contact and then clicking on the "Edit" button at the bottom of the window.
- **Note** that editing any of the fields will change the same fields in all projects that have this contact (this includes the first and last names of the contact).

Resource Summary Ph	Contact A	dministration			
- Project					
Project Name * FOLSOM 230kV Substatic	Utility Project Search	t Manager			
Contacts					
Utility Planning Representat Barbara Madrid	Contact First Name *	Jeff	Last Name *	Hart	
view/edit	Title	Project Manager	Organization *	GE 💙	
	Company Name	GE	Street Addres	1234 First St.	
ISO Network Applications E	City	Anywhere	State	California 🗸 🗸	
	Zip Code	12345	Phone Number *	4159737648	
ISO Grid Operations Engine	Extension		Cell Number		
	Fax Number	Edit existing contact	Email Address *	cbedford380306@caiso.	
ISO Master File Engineer	PGE PGE				
	New Edit	Save Apply Reset	Remove Contact		
Project Details	1	Apply visible contact to			
FOLSOM		selected cell			

5. OPTING OUT OF AUTOMATIC E-MAIL NOTICES & CHECK SHEETS (ISO).

Only ISO user groups can "Opt Out" of receiving e-mail notices associated with a specific project. The "Opt Out" feature also sets all phase check sheets to "NA" and should only be used for projects not related to the group. The following example is for the OE group. Note that when the person successfully opted out that the default went to "Opt In". Selecting opt in reactivates the e-mail notices, but does not reset all of the "NAs" from the check lists.

	ect ID * /X01	ISO Project Status *	Utility Project Status	Utility Name * WAPA
Contacts Opy Contacts				
tility Planning Representative * Predefined Person iew/edit	Utility Project Manag	ger ISO Pro Jim Mo Opt Ou view/eo	<u>t</u>	ISO Grid Assets Engineer Grid Assets Opt Out view/edit
O Network Applications ngineer Net Apps <u>pt Out</u> ew/edit	ISO Operations Engin Jim Alford Opt In Opted out of a view/edit	EMS IT Opt Ou	-	ISO Outage Management Gene Quintana <u>Opt Out</u> <u>view/edit</u>
O Real-Time Operations pt Out iew/edit	ISO Operations Data - Metering <u>Opt Out</u> <u>view/edit</u>	a Compliance - Telen Opt Ou view/ed	<u>t</u>	ISO Planning Engineer Opt Out view/edit
50 OST Engineer Opt Out iew/edit				
Project Details cation * os Angeles County	Capacity Increase (MI	W) Plan Cos NA	t \$MM *	Planned Original Cost \$MM (confidential)

6. Adding equipment ratings

- Any project which increases the existing capacity must list the equipment responsible for that increased capacity rating by clicking on the add button shown below.
- Note that when the add button is selected it allows the user to select the following types of equipment:
 - Lines
 - Transformer
 - Shunt Compensator
 - Series Compensator
- Show the highest continuous rating capacities in MVA.
- Multiple pieces of equipment can be added by clicking "Add" multiple times.

Adding equipment ratings example

Major Equipment Types and R	atings			
Transformer 🗸 Add				
Lines	_			
Series Compensator				
Shunt Compensator				
Transformer				
MVA Rating (Summer)	MVA Rating (Winter)	Voltage Rating (I		
400.0	450.0	115.0	69.0	edit
Miscellaneous				
EMS Display Name	Data Acquisiti	on Method	Inter/Intra Tie	
	*		*	
RAS?	Related Proje	ct	CPUC Report	
	itelated Proje			
			P	
Market Model Impact Only	Operating Pro	cedure		
Approval				
Utility Approval	ISO Approval		CPUC Approval	
~	~		~	
Approval Date	Approval Date		Approval Date	
	Approval Date	-	Approval Date	
Activities				
Save				

7. Approval Status

The last two fields that should be filled in on this screen are "Utility Approval" and "CPUC Approval" as shown below. The ISO Planning Engineer should fill out the "ISO Approval" field. These are a "yes" or "no" fields with associated calendars below each. These should be updated as the status changes. Note that the "Planned Original Cost \$MM" value can only be changed by the project manager after the creation of a project.

Approv	val		
Utility Ap	oproval	ISO Approval	CPUC Approval
*		~	~
	l Date	Approval Date	Approval Date
Yes			
UNo			

Date indication

 Clicking on the calendar icon to the right of the date field brings up a calendar that can be used for selecting a date or the date can be typed into the field or any character can be changed in an existing date or it can be pasted in.



8. Project Phases

- Every project needs to have at least one phase. The phase information should be filled out by the originator of the project. Additional phases are required if the project involves energizing new/revised equipment at different time intervals.
- There is no limit on the number of phases that can be added.
- This screen is used to communicate with all involved groups when the model/screens/procedure need to be modified and what items are involved.
- To edit a phase, click on the "Edit" link below the Phase number.

Project phase example



Phase example (cont.)

Simplified	Cleanup		DB Number	
PSLF Change?	PSLF CR Number	SCADA?	DBE Number	
SCADA Finish DB Number		DCR?	DCR Number	
Save				
Phase Controls	Click here to add	l another phase to	this project	

9. Navigating from the Transmission Summary Screen

> When you are finished with the Transmission Summary screen and have successfully saved all changes you can navigate to several locations as demonstrated on the next slide.



10. Reports & substation name editing can be accessed from the dashboard screen as shown below:



After clicking on "Reports" you will also need to click "OK" when the certificate window comes up after which the following window is shown. Note that there are up to 6 types of reports that can be run, but these are limited to 2 types for users outside the ISO.

🚰 https://portal.caiso.com - Active Portal - [Documents view] - Microsoft Internet Explorer 📃 🗖								
California ISO								
ACISO Documents Personal RIMS Transmission I TR	Folders RIMS IOS Reports You Can Run Adhoc Transmission Reports CPUC Transmission Report Project Status Report Project Status Report Transmission Projects with No Net Model Impact Transmission Projects							
<								

Note the title block indicates the name of the report family, the dropdown box shows a choice of 3 reports, the date range needs to be selected on the right, and to run the report click on the "View Report" button.

Scalifornia ISO Your Link to Power			/				
ACISO ACISO Documents	Adhoc Transmission Reports					^	
Personal RIMS Transmission Reports TR		Project Information Project Information Equipment Information Phase Information	Parameter Type • All • + 120 days • between now and • between now and • "n" number of days • "n"	009			
	View Report						~
	TOC First Pro	ev Next Last Goto Page <mark>1</mark>	of 1 🛛 100% 🔽 Search	Download Excel	Print	Help	х
		Enter paramater if desired and p button.	ress the "View Report"				

11. Transmission Module Conclusion

For individual questions, application problems or training related issues feel free to contact:

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