Hybrid Resources Phase 2C – RIMS Pre-Market Simulation Training



Dottie Vance Customer Readiness Trainer





Housekeeping



REMAIN MUTED Keep yourself muted to minimize background noise

ASKING QUESTIONS

Unmute to ask verbal questions or write in the chat pod

RAISING HAND Raise your hand using WebEx interactivity tools

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Training Agenda



SUMMARY

Review who is impacted and the upcoming project timeline.

NEW COLUMN - COMPONENT ID

Learn the purpose and application of the new Component ID column in Resource Interconnection Management System (*RIMS*).

NEW RIMS WEB FORM

Understand how to fill out and meet requirements for the new Site Information web form.

REQUIREMENTS FOR DOCUMENTS

Walkthrough the different documents required for a Solar and/or Wind project (e.g., *TopoMap, Shapefile, Sharing Agreement*).

MARKET SIMULATION & WRAP UP

Review your role in market simulation tasks within RIMS and the action items from today's training.



Who does this impact?

Resource Owners that participate in the New Resource Implementation (NRI) process. Specially those that are:

Will eventually add a new resource

Are currently onboarding a resource

Project type that has a Wind and/or Solar Component





Timeline of Project









Navigating in RIMS – Project View

Navigation: Market Participant Portal (MPP) > RIMS > MPAI > MPAI Dashboard > All Active > View button

20	California IS	o R	esourc	ce Interconnect	tion Manageme	nt System	⇔⇒x ⊄	☆			利								RIMS
Glob	al Dashboard 🛛 🗛	pp & Study	MF	рај (1)	Reporting														
MPAI Dasi	iboard																		
All Active	All Active 2 Meter and Real-Time Device Canceled																		
MPAI P	roject Dasht	oard - A	ll Activ	e															
\$ <u>X</u> Z	🛛 🖄 🚝 📕	1 - 25	of 1427	▶ ▶ GO								_							Ro
MPAI Projec Status	t MPAI Process Status	Туре	PTO	Project Name	Equipment Type	Equipment List		Project Key	Resource ID	Queue Number	Implement 4 Date	Target/COD Date	Projected Model	DBModel	MPAI Comments	HyperLink Doc Cour	Previous t Date	Status	
On Track	In Process																10/04/2017		View
On Track	In Process															⊳ (3)	05/01/2019	IN PROGRESS	View
Change	In Process															4	01/01/2018	IN PROGRESS	View

The process for navigating to projects in RIMS will remain the same.

There are no User Interface (UI) changes until we get into the project view.



General Project Information – New Column for Component ID

RIMS > MPAI > MPAI Dashboard > All Active > View button > General Project Information

General Info -								 DB Model Info —— 		
Generation Pro	oject Name:							ISO Project Num:	19A S8974	
P	Project Type:	Storage	~	Distributed Resource Type:	Select Or	10	\vee	Assoc With:		
Project [Description:	Test project for training		Baseline	Select Or	10	~	Projected Model:	25M5	
			11	Methodology:				Assigned Model:		
	IA Type:	3-party 🗸 🗸		Sublap:				DB Model Date		
Pro	oject Status:	Active 🗸		Distribution:	Select Or	ne 🗸		Email Notification :	On 🗸	
R	Resource ID:			Pnode:				l		
Assigned Point	of Delivery:		, 	Generation				- Contact Info		
	DTO:			Distribution Factor:				Contact Name:	Please Fill in	
	PIU:	~	S	Status:				Contact Phone Number:	000-000-0000	
Name	eplate(MW):	200	G	QM Limited Operations:				Email Address		
Nearest(60kV)	Substation:			Connection	230			(semi colon seperated)	PleaseFillin@x.com	n /
			/ V	(oltage:(kV)						
Point of Inter	connection:]					 Resource Address and 	nd Phone Number	
 Megawatt By 	y Fuel Type	·						Street Address:	TBD	
Configuration T	Type: Hybri	d & Co-located 🗸						City:	TBD	
Fuel Typ	e and M	egawatt						County:		
		-						Chatas]
Fuel Type Inde	ex 🔺 Fuel Tyr	pe	COMPONENT ID	Net MW	MWh	PMin	Forecast Election	State:	California 🗸	
Fuel 1	Battery			5			CAISO	Zip Code:	93516	
Fuel 2	Solar		SOLR1	5			CAISO	Latitude(calc):		
Fuel 3	Wind		WIND1	5			CAISO	Longitude(cal):		
Fuel 4	[None]							Longitudo(out)		
								Control Room Phone#:	Please Fill in	٦

Understanding Component IDs



Only for Configuration Types Hybrid or Hybrid & Co-located.



Component IDs are system generated unique identifiers for Wind and Solar fuel types only.



Users can edit the User Interface (UI) to different fuel types.



If users re-add a Wind/Solar fuel type, the Component ID will change to a new identifier.

Megawatt By Fuel Type									
Configuration Type	Hybrid & Co-located	1							
Fuel Type and Megawatt									
Y I	_								
Fuel Type Index	Fuel Type	COMPONENT ID	Net MW	MWh	PMin	Forecast Election			
Fuel Type Index 4	Fuel Type Wind	COMPONENT ID WIND1	Net MW 5	MWh	PMin	Forecast Election CAISO			
Fuel Type Index 4 Fuel 1 Fuel 2	Fuel Type Wind Solar	COMPONENT ID WIND1 SOLR1	Net MW 5 5	MWh	PMin	Forecast Election CAISO CAISO			
Fuel Type Index 4 Fuel 1 Fuel 2 Fuel 3	Fuel Type Wind Solar Wind	COMPONENT ID WIND1 SOLR1 WIND2	Net MW 5 5 5 5	MWh	PMin	Forecast Election CAISO CAISO CAISO			



Example – Component ID Naming Conventions

Megawatt By Fuel Type										
Configuration Type:	Hybrid & Co-located \checkmark									
Fuel Type and Megawatt										
Fuel Type Index	Fuel Tures	COMPONENT ID	Not MM	MMA	DMin	Forecast Election				
r der Type maex	ruertype	COMPONENTID	NEL MVV			TOrecast Liection				
Fuel 1	Wind	WIND1	5	WIVVII	F WIIT	CAISO				
Fuel 1 Fuel 2	Wind Solar	WIND1 SOLR1	5 5			CAISO CAISO				
Fuel 1 Fuel 2 Fuel 3	Wind Solar Wind	WIND1 SOLR1 WIND2	5 5 5 5			CAISO CAISO CAISO CAISO				

COMPANY A

Project Details form indicated their project would have four fuel types two Wind and two Solar.

Realized, they'd like to change a fuel type (and they can do so via the UI in RIMS!)



Example – Component ID Naming Conventions Cont.

Megawatt By Fuel Type										
Configuration Type	Hybrid & Co-located 🗸]								
Fuel Type and Megawatt										
Fuel Type Index 🏼	Fuel Type	COMPONENT ID	Net MW	MWh	PMin	Forecast Election				
Fuel 1	Battery		5			CAISO				
Fuel 1 Fuel 2	Battery Solar	SOLR1	5 5			CAISO CAISO				
Fuel 1 Fuel 2 Fuel 3	Battery Solar Wind	SOLR1 WIND2	5 5 5			CAISO CAISO CAISO				

COMPANY A

Via the RIMS UI, they were able to change the Fuel Type to Battery.

Battery is not Wind/Solar so no Component ID.

Oh no... they just realized it actually should have been Wind!



Example – Component ID Naming Conventions Cont.

Megawatt By Fu	еІ Туре ————								
Configuration Type:	Hybrid & Co-located \checkmark								
Fuel Type a	nd Megawatt								
€ 7 €									
iuel Type Index 🔺	Fuel Type	COMPONENT ID	Net MW	MWh	PMin	Forecast Election			
Fuel 1	Wind	WIND3	5			CAISO			
Fuel 2	Solar	SOLR1	5			CAISO			
Fuel 3	Wind	WIND2	5			CAISO			
Fuel 4	Solar	SOLR2							

COMPANY A

Through the RIMS UI, they were able to change the Battery back to Wind.

Please note that the Component ID is now WIND3.



What Questions Do You Have?









Current Process: Download Excel Spreadsheet on NRI Page

CAISO website > Generation and Transmission > Generation > <u>New Resource Implementation</u> > Upload in RIMS

Bucket 1 – Full network model and forecast preparation

The following deliverables are required to create an ISO market Resource I documents are essential for participation in ISO markets, plus documents to systems. This is also the time to submit the necessary information for ISO for items must be submitted in advance of the bucket acceptance due dates.

Please refer to the Metering and telemetry webpage ⊿ for metering docur Image form.

Visit the Requesting access and certificates webpage for information on es (ECN) and the Connected Entity Service Guide FOF.

- Sample Wind Site Information Form PDF 08/24/2022, 1:02 PM
- Sample Solar Site Information PDF 08/24/2022, 1:02 PM
- Wind Site Information ILS 02/21/2020, 8:35
- Solar Site Information ILS 02/06/2020, 11:37 AM
- Network Application Information Template
 09/25/2024, 9:38 AM
- Generator MVAR Data Template INS 09/16/2024, 9:38 AM

	_					
ce l	4	A	B C	D E	F G	H I
ts to	1	🍣 California ISO	Wind	Site Infor	mation Fo	orm v4
for	2	Wind Site Name & Physical Address				
	3	CAISO Resource ID:				
	4	Generation Capacity (AC)				
	5	Note: "See topographical	map" is not accepta	ble statement on thi	is Wind Site Inform	ation Form.
cun	6	Sei	ction below is regard	ing Hybrid Resource	s only.	
oate	7	Plant Type (Wind, Hybrid, or Co-Located				
esic	9	Se	ction below is regard	ing Hybrid Resource	s only.	
	10	lf Hybrid please state:	Name plate capacity of wind component:		Name plate capacity of battery:	
	11		MW Point of Interconnection (POI) Agreement:		Wind Component Forecast:	
	12	Plant Location				
	13	Use as many points as necessary to	Corner 1	Corner 2	Corner 3	Corner 4
		describe the site (WGS84 only)				
	14	Make and aster Reading Langever	Lat Long	Lat Long	Lat Long	Lat Long
	15	Meteorological station Location				



Current Process: Upload Project Site Sheet

MPP > RIMS > MPAI > MPAI Dashboard > All Active > View button > Documents





New Process: Web Form in RIMS Replaces Site Info Document

RIMS > MPAI > MPAI Dashboard > All Active > View button > Short Term Forecast (STF) Information > Components web form

Documents		(
STF Information STF Info Project Type: Non-Generation Configuration Type: Hybrid & Co-located Address: Plant Location: Latitude:			<u>New Process</u> Under the STF Information section, users fill out the web form for applicable components. Each component will have it's own form.
Longitude: Megawatt Generation Capacity:			
Components ⇒ ⊽ t			
Fuel Type Index 🔺 Fuel Type Net MW	Component ID	Forecast Election	
Fuel 1 Wind 15	Wind_1	Scheduling Coordinate	Dr View
Fuel 2 Solar 5	Solar_2	Scheduling Coordinate	View

Related Transmission Projects



Comparison Example – Excel v. Web Form



Solar Site Information		-
\times		
Park Potential (MW): * 345		
Solar Plant Type: *	If thermal, please state hours or % of supplemental heat 6	Hours
None		O Percentage
Solar Thermal		
Photovoltaic		
CPV		



Comparison Example – Excel v. Web Form

🍣 California ISO	S	olar	Site	Info	rma	tion	For	m v5	
Generation Capacity (MWs):	DC:				AC:				
Plant Type (PV, CPV, Thermal, Hybrid, or Co- Located):	PV				If therr please hours o supple heating	nal, state or % of mental g:			
Section be	low is r	egarding	Hybrid F	Resources	only.				
lf Hybrid please state:	Nam capa s com	e plate acity of olar ponent:			Name capa bat	e plate city of tery:			
	MW Point of Sola Interconnection Compo (POI) Foreca		blar bonent ecast:						
Note: "See topographical map" is	s not ac	ceptable	stateme	ent on this	Solar S	ite Infor	mation [orm.	
Plant Location Use as many points as necessary to describe the site (Use WGS84 only)	Cor	Corner #1 Corner #2			Corr	ier #3	C	Corner #4	
· //	Lat	Long	Lat	Long	Lat	Long	Lat	Long	

Solar Site Corner Coordinates (WGS84 datum) * required to enter at minimum four (4) project corner coordinates

+ Add	Q Search	X = E
Actions	Lat :	Long
× D,	Lat	Long
×Ð	Lat	Long
× D,	Lat	Long
× D,	Lat	Long
	Rows per page	5 v 1-4 of 4 < >



Resource Interconnection Management System Solar STF - SOLR1 Solar Site Information + Solar Site Information + Capacity Information + Meteorological Information

Solar Panel Information



Features

Each section allows users to edit and add their solar information *(indicated by a pencil icon).*

Solar Component Web Form Walkthrough



Validations

RIMS runs validations to ensure user success:

- At each section level
- · At the entire submission level



Web Form – Solar Site Information Section



Park Potential (MW)

Numeric value required



Solar Plant Types

- Photovoltaic
- Concentrated Photovoltaic (CPV)
- Solar Thermal* (enter hours/percent)



Features

Be sure to click the check mark to save.

Solar Site Information	-
\times	
Park Potential (MW): *	
Solar Plant Type: *	6 Hours
None	O Folcollinge
Solar Thermal	
Photovoltaic	
CPV	



Web Form – Solar Site Coordinates Section



Site Corner Coordinates

List of latitude and longitude for each corner.



Validations

A minimum of four coordinates are required. No repeating coordinates.



Features

Click the +Add button to add a new row. Click the Pencil icon to edit.

Solar Site Corner Coordinates (WGS84 datum) * required to enter at minimum four (4) project corner coordinates											
	+ Add	Q Search	X I I								
	Actions	Lat :	Long								
	×D	Lat	Long								
	× D,	Lat	Long								
	× D,	Lat	Long								
	× D,	Lat	Long								
		Rows per page	5 😽 1-4 of 4 < >								



Web Form – Capacity Information Section

Capacity Information

 \times \checkmark

Nameplate Capacity of Solar Component (MW):

MW Point of Interconnection (POI) Agreement (MW):

Solar Component Forecast: CAISO

AC Capacity (MW): *

DC Capacity (MW): *



Capacity Information

MWs for capacity information of Solar component.



Validations

AC Capacity (MW) and DC Capacity (MW) are required.









Web Form – Meteorological Information

Meteorological Information

- Mete	eorolog	gical S	station	n Shar	ing: *-			
Y								~
ISO	Proje	ct Nu	mber	Met	Stati	ion Sł	nared: *	
This	field is	s requ	iired.					
Sha	iring A	gree	ment	Date:	*			
<		Ma	rch 2	025		>		
Su	Мо	Tu	We	Th	Fr	Sa		
23	24	25	26	27	28	1		
2	3	4	5	6	7	8		
0	10	11	12	13	14	15		

Meteorologico	Meteorological Station Location											
+ Add			× = =									
		Meteorological Station date										
Actions	Meteorological Station ID Numbers	Lat	Long	AGL Height (ft)								
Ø Ū	21	37.007617	-120.965561	10								
Ø Ū	24	36.930259	-120.965561	55								
			Rows per page	5 ▼ 1-2 of 2 < >								



Station Sharing

Sharing Agreement only required if select Y. If "Y" is selected:

• Provide Project Number of existing project in RIMS system.



Features

Clicking +Add will provide an additional row for users to enter information.



Web Form – Meteorological Information cont.

Meteorological Equipment Information										
+ Add × Ξ I .										
			Anemometer							
Actions	Met Station Equipment Make	Met Station Equipment Model	Wind Speed	Wind Direction	Air Temperature	Barometric Pre	Irradiance	Back Panel Irradiance	F	
× D /	Met Station Equipmen	Met Station Equipmen	Wind Speed	Wind Direction	Air Temperature	Barometric Pressure	Irradiance	Back Panel Irradiance	•	

Rowsperpage 5 🕶 1-1 of 1 < >



Met Equipment Information

Free text fields for users to update information about their met station equipment details such as make, model, wind speed, air temp, remote sensing tools, etc.



Validations

Minimum of one row of record is required in this grid (*RIMS will prompt validation message and not allow to save*).





Meteorological Information

-

Meteorological Station Sharing:

Clicking the save icon will run additional validations in RIMS (numeric numbers, required fields)

+ Add			Q Sear	ch \Xi
		Meteorological S	Station Coordinates (WGS84 o	latum)
Actions	Meteorological Station ID Numbers	Lat	Long	AGL Height (ft)
	30001	37.007617	long	AGL Height (ft)



Web Form – Solar Panel Information

Ś	Solar Panel Information —											
+ Add X Search X								Ē				
	Actions	;	Panel Manufac	Panel Model	Number of Pan	Panel Power Rating (MW)	Number of Inve	Inverter Ratings	Solar Tracking	Solar Tracking	Solar 1 Manuf	
	×	B,	Panel Manufacturer	Panel Model	Number of Panels	Panel Power Rating (M	Number of Inverters	Inverter Ratings	v	.	Solar	
		Rows per page $5 \neq 1-1$ of $1 < >$										



Solar Panel Information

Free text and drop down menu fields for users to update information about their solar panel details such as manufacturer, model, number of panels/inverters, ratings, etc.



Validations

Minimum of one row of record is required in this grid (*RIMS will prompt validation message and not allow to save*).



Once Completed, Click Save for RIMS Validations





Error Message on Web Form Example





What Questions Do You Have?





Resource Interconnection Management System Wind STF - WIND1 Save Cancel Wind Site Information + Capacity Information + Meteorological Information + Wind Turbine Information + Wind Turbine Information



Features

Each section allows users to edit and add their wind information *(indicated by a pencil icon).*

Wind Component Web Form Walkthrough



Validations

RIMS runs validations to ensure user success:

- At each section level
- · At the entire submission level



Web Form – Wind Site Information



Park Potential (MW)

Numeric value required

Wind Site Information	_
\times	
Park Potential (MW): *	

Features

Click the pencil icon to edit. RIMS has validations to ensure user success.



Web Form – Wind Site Coordinates Section

Plant C



Site Corner Coordinates

List of latitude and longitude for each corner.



Validations

A minimum of four coordinates are required. No repeating coordinates.



Features

Click the +Add button to add a new row.

+ Add	Q Search	
Actions	LAT	LONG
× D,	LAT	LONG
×D	LAT	LONG
× D,	LAT	LONG
× D	LAT	LONG



Web Form – Capacity Information Section

Capacity Information X Image: Capacity of Wind Component (MW): Point of Interconnection (POI) Agreement Megawatt... Wind Component Forecast Selection: CAISO CAISO



Capacity Information

MWs for capacity information of Wind component.



Features Click the pencil icon to edit. RIMS has validations to ensure user success.



Web Form – Meteorological Information

leteorological Information									
Meteorologica	Station Location								
+ Add				Q Search	× Ŧ				
		Meteorological Station Co	ordinates (V	WGS84 datum)					
Actions	Meteorological Station ID Numbers	Lat	Long		AGL Height (ft)				
× D,	Meteorological Station ID Nurr	Lat	Long		AGL Height (ft)				
				Rows per p	- page 5 v 1-1 of 1 <	< >			



Met Coordinates

Be sure that you are entering numeric values.



Features

Clicking +Add will provide an additional row for users to enter information.



Web Form – Meteorological Information cont.

Meteorologic	Meteorological Equipment Information										
+ Add	+ Add X = E										
			Anemo	ometer							
Actions	Make/Met Station Equipment	Model	Wind Speed	Wind Direction	Air Temperature	Barometric Pre	Remote Sensing Tools	Primary			
× D,	Make/Met Station Equ	Model	Wind Speed	Wind Direction	Air Temperature	Barometric Pressure					

Rows per page 5 👻 1-1 of 1 < >



Met Equipment Information

Free text fields for users to update information about their met station equipment details such as make, model, wind speed, air temp, remote sensing tools, etc.



Validations

Minimum of one row of record is required in this grid (*RIMS will prompt validation message and not allow to save*).



Web Form – Turbine Specifications

Wind Turbine	Information										-
Turbine 9	Specifications										
+ Add	+ Add 😤 🐺									EI.	
Actions	Turbine Make	Turbine Model	Number of Tur	Turbine Maximum Generation Capacity (MW)	Turbine Height Above Ground Level (meters)	Cut in Speed (Cut Out Speed	Cold Weather Package	Hot Weather Pa_	Low Temperature Cut Out (Deg F)	H T C
1	1 54546try	546ttry	55	43232	23423	23423	234	Y	Y,	34242	2
									Rows per po	ge 5 v 1-1 of1 <	×



Turbine Details

Free text and drop down menu fields for users to update information about their turbine details such as make, model, number of turbines, cut in/out speed, etc.



Validations

Minimum of one row of record is required in this grid (*RIMS will prompt validation message and not allow to save*).



Web Form – Turbine Locations Section

Turbine Loca	Turbine Locations											
+ Add			Q Search	\bigcirc Search \times $\overline{=}$								
				Turbine Latituc Coordinates (W	le/Longitude GS84 datum)							
Actions	Wind Turbine ID Numbers	Elevation (mete	Hub Height (me	Lat :	Long							
× D,	Wind Turbine ID Numbe	Elevation (meters)	Hub Height (meters)	Lat	Long							
	Rows per page 5 - 1-1 of 1											



Turbine Locations

Free text and drop down menu fields for users to update information about their turbine locations such as ID numbers, elevation, hub height, latitude, and longitude.



Validations

Number values are required, if anything is entered the RIMS system will run validations and prompt an error message.



Once Completed, Click Save for RIMS Validations





What Questions Do You Have?









Key Documents





Shapefile Naming Convention



Important Reminder: Shapefiles must be submitted as a Zip file.



Example of Shapefile Naming Convention (Hybrid v. Single projects)



Please note: ComponentID is only required for Hybrid or Hybrid&Co-located projects



Resources for Shapefiles

Readiness Note

Located on the <u>Training center</u>, users can walkthrough an example of creating and exporting Shapefiles.



CSV Templates

Located on the <u>Release planning page</u>.

- <u>Solar:</u> Project and Met Station Coordinates
- <u>Wind:</u> Project and Met Station Coordinates and Turbine Information.

Shapefile Software

<u>User to determine</u>. The software used in the example is Quantum Geographic Information System (QGIS). *Please note, that while the ISO* uses this software, this is not the only option.



Submitting a Sharing Agreement for Solar (if applicable)





Example of Sharing Agreement Naming Convention (Hybrid v. Single projects)



Please note: ComponentID is only required for Hybrid or Hybrid&Co-located projects



Submitting a TopoMap



Important Reminder: TopoMap must be submitted as a XLSX or PDF file.



Example of TopoMap Naming Convention (Hybrid v. Single projects)



Please note: ComponentID is only required for Hybrid or Hybrid&Co-located projects



Logistics – When to Upload Documents

RIMS > MPAI > MPAI Dashboard > All Active > View button > Documents > Upload Project Files

After completing each component's Web Form, users will upload required documents.

- ✓ Solar Project Documents → Shapefile, TopoMap, and Sharing Agreement (*if applicable*)
- ✓ Wind Project Documents → Shapefile and TopoMap.

▼ Documents			
Uploaded Files			
多近区内			
Document Group Document Type	File Name	Sharepoint Link Uploaded Status User	Uploaded Date Comment
Upload Project Files			
 STF Information 			



After Documents Uploaded, Click Submit on STF Information Section

RIMS > MPAI > MPAI Dashboard > All Active > View button > STF Information > Submit

Clicking Submit will prompt RIMS will run validations at each component level.

STF Informatio	n							
STF Info —								
Project Type: Configuration Type: Hybrid & Co-located Address:								
Plant Location: Latitude:								
Longitude:								
Megawatt Generation Capacity:								
Components								
> ∀ tx								
Fuel Type Ind	ex 🔺 Fuel Type	Net MW	Component ID	Forecast Election				
Fuel 2	Solar	5	SOLR1	CAISO	View			
Fuel 3	Wind	5	WIND1	CAISO	View			
Subn	nit							



Validations Email to Resource Owner Example



In addition to the UI in RIMS, validation emails send to listed resource owner(s).

From: rims-noreply@caiso.com <rims-noreply@caiso.com> Sent: Thursday, February 6, 2025 11:42 AM To: Project Owner Subject: [Project Code] STF document/s rejected

For [Project Code] the final submission of the STF documents have been rejected for the following reason(s): SOLR1: System notices that meteorological station installation does not meet required number of stations relative to megawatt generation that is >= 5 MW (compare against the Generation of stations). Plate (MW) field) requires at least two meteorological stations SOLR1: The [Project Code] has indicated that there is Meteorological Station Sharing. A sharing Agreement is required per Appendix Q of the CAISO Tariff. You are to submit a Sh Agreement for this in the format of SharingAgreement SOLR1 for each Solar component in the project. SOLR1: SharingAgreement file has not been uploaded SOLR1: TopoMap file has not been uploaded SOLR1: Shapefile file has not been uploaded SOLR3: Please provide all required information before submiting the form. SOLR3: TopoMap file has not been uploaded SOLR3: Shapefile file has not been uploaded WIND1: Please provide all required information before submiting the form. WIND1: System notices that meteorological station installation does not meet required number of stations relative to megawatt generation that is >= 5 MW (compare against the Gene Name Plate (MW) field) requires at least two meteorological stations WIND1: TopoMap file has not been uploaded WIND1: Shapefile file has not been uploaded

Login in to RIMS to make the required updates and resubmit.



What Questions Do You Have?









Recap of Timeline of Project





Unstructured Market Simulation

Hybrid Resource Phase 2C RIMS Unstructured Market Simulation will begin in mid-March.

 Dates and additional details (e.g., access, timing) will be communicated to users via email and user group forums.

Additional details can be found in the project's <u>Business Requirements</u> <u>Specifications (BRS).</u>

ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
MKT – 006	Unstructured Market Simulation Market Participant must have the capability to see on UI uploaded Topo Map, Sharing Agreement, Shapefile, and provide Site Info via web form.	N/A	RIMS	Unstructured Market Sim, New Data type
	Note: See BRQ150, BRQ285, BRQ144, BRQ300.			
MKT – 007	Unstructured Market Simulation Market Participants must have the capability to add Topo Map, Site Info, Shapefile, and Sharing Agreement (applicable only to Fuel Type of Solar) to Bucket 1 for any hybrid resource project created with a fuel type of Solar or Wind.	N/A	RIMS	Unstructured Market Sim, New Data type
	Note: BRQ145, BRQ275.			
MKT – 008	Unstructured Market Simulation In the event Market Participant's upload fails validation, Market Participant must receive notification of the error.	N/A	RIMS	Unstructured Market Sim, New Data type
	Note: See BRQ350A, BRQ350B, BRQ205, BRQ335, BRQ325.			





What Questions Do You Have?







Tell us how we did

Takes 3-5 minutes to complete

Helps us improve future training

Link: https://www.surveymonkey.com/r/caisocoursesurvey

Instructor Dottie Training course Other: Hybrid Resources Phase 2C – RIMS



Thank you for your participation!

For clarification on anything presented in this training, send an email to: <u>CustomerReadiness@caiso.com</u>

For other questions or stakeholder specific questions or concerns use one of these methods:

- Submit a <u>CIDI ticket</u>
- Contact your Scheduling Coordinator
- Use the "Contact us" page on caiso.com to submit questions





Reference Links

Notice of training <u>https://www.caiso.com/notices/pre-market-simulation-training-for-hybrid-resource-phase-2c-rims-on-3-5-25</u>

Release User Group (RUG) presentation on 2/18

https://www.caiso.com/documents/presentation-release-user-group-feb-18-2025.pdf

Readiness note <u>https://www.caiso.com/documents/readiness-notes-sample-shapefile-submission-walkthrough.pdf</u>

Business Requirements Specifications (BRS)

https://www.caiso.com/documents/businessrequirementsspecificationhybridresourcesphase2c-rims.pdf

Market Simulation Forum https://www.caiso.com/meetings-events/topics/market-simulation-meeting

New Resource Implementation Guide

https://www.caiso.com/documents/newresourceimplementationguide.doc