



California ISO

# Technology User Group (TUG)

July 24, 2018

10:00 – 11:00 AM Pacific

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# TUG Agenda

Web Conference Information		Conference Call Information	
<i>URL</i>	<a href="https://caiso.webex.com/meet/CAISO-TUG">https://caiso.webex.com/meet/CAISO-TUG</a>	<i>Domestic Call-In</i>	(866) 528-2256
<i>Meeting Number</i>	966 010 353	<i>International Call-In</i>	(216) 706-7052
<i>Access Code</i>	389 588 9	<i>Access Code</i>	389 588 9

Topic	Facilitator
Agenda and Roll Call	John Huetter
Late closing of DA Market	Guillermo Bautista Alderete
Geographic IP Blocking	Ramon Gomez
CMRI – VER Forecast Report Change – Follow Up	Arul Jayaraman
DRRS Technical Specification Update	Vijay Kondragunta

## Issues resulting in late closing of DA Market

- The ISO has been addressing the occurrences of multiple DC-based solutions in the network application process of the day-ahead market, which typically may require to rerun the day-ahead market.
- Additionally, the ISO market has experience slowness in completing the market solution run. This leads to longer times to complete the day-ahead market run.
- These conditions may be impacted by high loading in the system, transmission conditions and some identified data input issues, which may lead to more complicated market runs to achieve a solution.



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# Geographic IP Blocking at the California ISO

Ramon Gomez

Senior Information Security Analyst, Incident Response

7/24/2018

# What are we doing and why?

- The ISO is moving to prevent public access to all authenticated sites from geographic locations where it is not necessary
- Whitelisted countries: United States, Canada, Mexico, Spain, United Kingdom, China, Germany, Barbados, Denmark, France, Honduras, Hong Kong, Lebanon, Romania, Seychelles, Russia, India, Japan, Puerto Rico, Republic of Korea, Australia, Cayman Islands, Netherlands, US Virgin Islands
- Still publically allowed: www, Oasis, e-mail
- We do NOT expect this control to be effective against highly-motivated attackers
- There is a substantial amount of opportunistic/automated scanning that we hope to reduce

## How are we implementing this?

- Phase I: North Korea – 6/26/2017
- Phase II: Iran, Sudan, Syria – 7/11/2017
- Phase III: Balkans, Belarus, Burma, Ivory Coast, Democratic Republic of Congo, Iraq, Liberia, Zimbabwe – 7/10/2018
- Phase IV: Afghanistan, Brazil, Central African Republic, Ukraine, Cuba, Cyprus, Eritrea, Fiji, Haiti, Kyrgyzstan, Lebanon, Libya, Rwanda, Somalia, Sri Lanka, Venezuela, Vietnam, Yemen – proposed 8/20/2018
- Phase V: Block all remaining countries not specifically whitelisted – proposed 9/20/2018

## Future Work (possible/likely, but not certain)

- As the control matures, we expect to be able to block regions within countries - particularly within China and Russia (both whitelisted as countries, but send significant amounts of hostile traffic to us)
- Periodic reviews of the whitelist to remove countries no longer sending us authenticated traffic



## How will this affect you?

- If this control is blocking your access, it will just look like the site is down; you won't get any errors, you just won't be able to connect. If you can still access [www.caiso.com](http://www.caiso.com), but not authenticated sites, then this control is the most likely culprit.
- We don't expect this to affect anything you're currently doing; the whitelist for this plan was specifically modelled off of observed behaviors of authenticated users, sampled in 60 day windows multiple times over the last year.
- If you travel to and work in new places frequently, we ask that you plan to connect to a VPN at work prior to connecting to the ISO so that your access continues to come from a previously observed/allowed location.
- Requesting access from additional countries can be done through our Service Desk (ask them to route the request to Information Security)

## Questions?

- Direct any questions or comments about this control to your Customer Services Representative
- Prior to implementation (8/20), you may contact Ramon Gomez at [rgomez@caiso.com](mailto:rgomez@caiso.com)

# CMRI Day-Ahead Variable Energy Resource Forecast

As part of an enhancement project, Variable Energy Resource Forecast data set for **Forecast Type of Day Ahead** will be updated as follows:

	AS-IS	TO-BE
UI Change	Data is available for one trade date, which is Day Ahead  Example: If user selects 6/26/18 as a trade date, CMRI will display data for 6/26/18.	Data is available for four trade dates  Example : If user selects 6/26/18 as a trade date, CMRI will display data for 6/26/18 ,6/27/18,6/28/18 and 6/29/18
API Change	retrieveEIRForecast_v1 service returns data for DA trade dates which are in between dateTimeStart and dateTimeEnd	retrieveEIRForecast_v1 service will return data for Trade Day +1 through Trade Day +4 where Trade Day +1 trade dates are in-between dateTimeStart and dateTimeEnd

**Deployed to MAP Stage : Jul 11, 2018**

**Planned deployment to Production: Aug 13, 2018 (Proposed)**



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# DRRS Technical Specification Updates for ESDER 2

Vijay Kondragunta  
IT Product Development

# DRRS - ESDER2 Project Related Changes

- Baseline methods being added with ESDER2 activation. These methods will be available for registrations 15 days ahead of the activation date to enable the DRPs to create the registrations that start from the activation date.
  - Weather Matching
  - Day Matching Combined
  - Day Matching 10/10
  - Day Matching 5/10 (Residential Only)
  - Control Group
- Baseline methods that will continue to be available after ESDER2 activation
  - Meter Generation Output
  - Meter Generation Output with 10 in 10
- Baseline methods not available after ESDER2 activation
  - Hourly Gen
  - 10 in 10 with SMA
- PDR admin will approve the baseline methods valid for each DRP before registrations can be created using those baseline method

## DRRS – Registrations with Control Group Baseline Method

- Locations can span across multiple subLAPs
- The subLAP for these registrations should be specified as the word “NULL” in the API request
- A valid DLAP should be submitted explicitly for the registration from the API. From the UI, the user is allowed to choose the DLAP from all the available DLAPs
- A new optional element “locationGroupType” is added to the XSD with valid values of “CG” (control group location) and “TG” (treatment group location).
- The subLAP of all locations flagged as TG should be the same
- There should be a minimum of 150 control group locations and at least one treatment group location
- A treatment group location is not allowed to participate in a different registration with overlapping timeframe
- Control group location can participate in a different control group baseline registration with overlapping timeframe as long as it is marked as a control group location in the other registration as well.

# Next TUG: Aug 07, 2018

Contact for Questions & Agenda Requests: Indu Nambiar, [inambiar@caiso.com](mailto:inambiar@caiso.com)

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