

# CAISO EIM Congestion Management Update

CAISO EIM Implementation Stakeholder Meeting  
April 15, 2014



# Overview

**BPA presented its plan for congestion management of EIM Flows in the February 20 stakeholder meeting**

## **SOL Protection**

- The Market Operator will enforce limits on EIM's contribution to flows on BPA's Paths and Flowgates such that the next 5-minute EIM dispatch will not be the cause of total flow exceeding an SOL.
  - This ensures that congestion management events (i.e. curtailments and other mitigation actions) are not increased due to the PAC-CAISO EIM.

## **Initial Action in Curtailment**

- When an e-tag for a resource that is bid into the EIM is curtailed as part of a flowgate curtailment, a resource will be decremented and a relief obligation will be calculated.

# Curtailment Relief Obligation

- When e-tags are curtailed (potentially EIM Participating Resources), a relief obligation will be calculated based on the resource's contribution to the flowgate and sent via e-tag.
- Achieving relief obligations will be coordinated such that load serving entities know what resource(s) to increase in order to achieve the relief obligation.

# Implementation

- Implementation of the curtailment relief obligation includes the following:
  - BPA to make modifications to its curtailment calculator to calculate the relief obligation and send it via e-tags.
  - CAISO to receive the relief obligation, from PAC, and incorporate it into their security constrained economic dispatch.
  - PAC to coordinate with CAISO the movement of the INC and DEC resources.

# Implementation Continued

- Implementation is preferable, but not critical for EIM go-live on October 1, 2014.
  - Fall back strategy is that when an EIM Participating Resource e-tag gets curtailed as part of a BPA flowgate curtailment, PAC will reduce the output of the resources on the tag and instead of the Market Operator determining what resource(s) to increase to provide the relief, the only constraint is that the resource(s) chosen to be increased does not further push flows over the SOL, which could result in no relief.
  - May not achieve full Relief Obligation, however this is better than current, standard congestion management, as units on response sometimes further push flows over the SOL.

- Questions?