



California ISO

Western EIM Base Schedule Submission Deadline

Draft Final Proposal

Danny Johnson

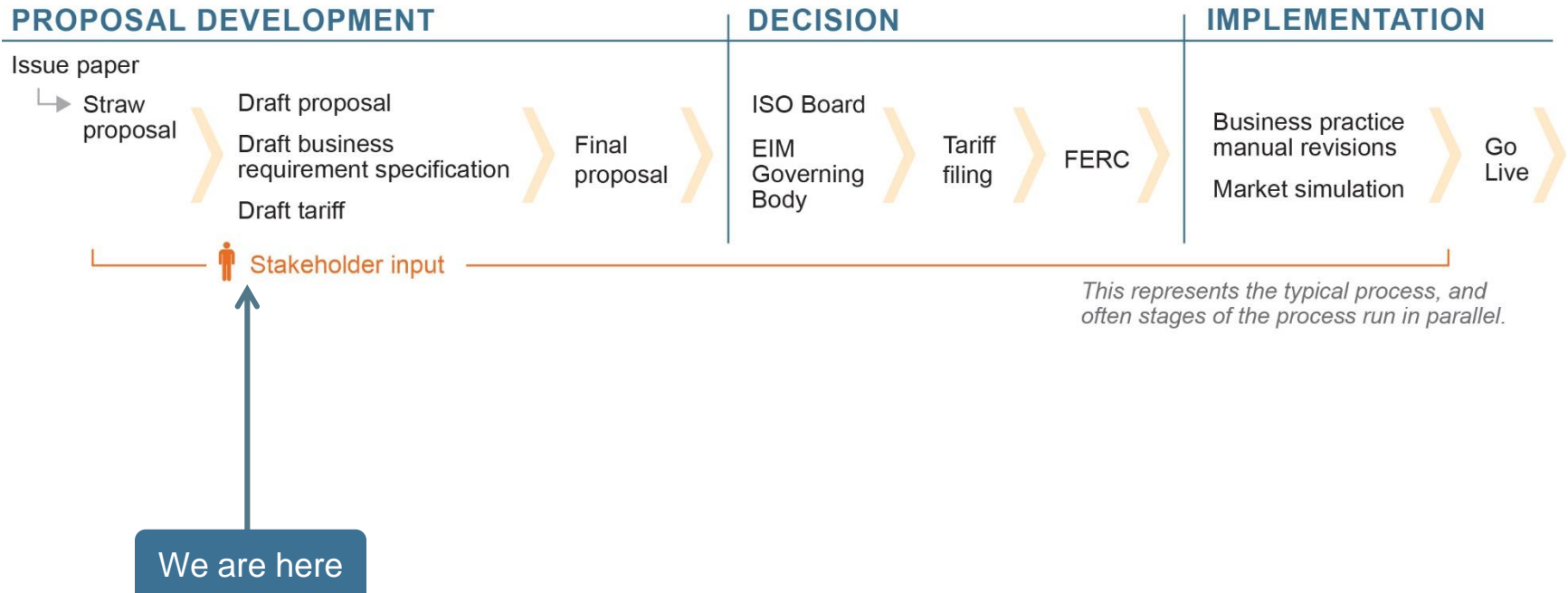
Market Design Policy

November 6, 2020

Agenda

Topic	Presenter
Welcome and stakeholder process	Kristina Osborne
Background	Danny Johnson
Stakeholder comments and changes to proposal	Danny Johnson
Proposal	Danny Johnson
EIM Classification and next steps	Kristina Osborne

CAISO policy initiative stakeholder process



EIM Base Schedules Submission Deadline – Background

- A base schedule is a forward energy schedule with hourly granularity that is the baseline to measure deviations for settlement through the EIM
- EIM entities submit base schedules at the following times prior to each operating hour
 - T-75
 - T-55
 - T-40
- The T-40 EIM base schedule is the final base schedule. This schedule serves as the baseline for settling imbalance energy in the EIM
- Energy below a resources minimum load cannot currently be included in a base scheduled

STAKEHOLDER COMMENTS & CHANGES TO THE PROPOSAL

Base Schedule Submission

Base Schedule Submission (T-40 to T-30) - Comments

- EIM entities offered general support of moving the final base schedule deadline from T-40 to T-30
 - IPCO and Powerex highlighted the potential limited benefits in straw proposal
- Many EIM entities requested moving the T-55 base schedule submission deadline to T-50 as a way to create additional benefits for their transmission costumers
 - To facilitate this request the solution time for the RTPD interval that currently initiates at T-52.5 (RTPD 6) would have to be shortened.

The CAISO is proposing to preform testing on this change during implementation of this initiative

Base Schedule Submission Comment (T-40 to T-30)

- Multiple stakeholders requested the CAISO retain the T-40 RSE as an advisory run
- SRP raised a reliability concern regarding the revised submission deadline of T-30 not allowing sufficient time for manual balancing actions to be taken following a potential failure of the T-30 RSE
 - The CAISO hosted a call with EIM participants on October 28th. The reliability concern identified by SRP was echoed by additional EIM entities

The CAISO is proposing to run additional RSE at T-40

Base Schedule Submission Comments (T-40 to T-30)

- Stakeholders questioned the performance implications of this change, how it may impact nodal FRP, and asked for the results of performance testing the CAISO has completed to date

CAISO is proposing in the DFP to implement this change concurrent with FRP but delay activation in production until testing shows no performance concerns

Base Schedule Submission Comments (Startup Energy)

- Broad support for this proposed change
 - CAISO members requested the ISO investigate similar functionality for full participants
- Multiple stakeholders requested a DOT for startup energy
 - This request is not feasible as it would require IFM market optimization to consider startup energy
 - Intended scope of initiative is to allow startup energy to be included for purposes of passing the RSE and to reduce uninstructed imbalance charges related to startup energy

Base Schedule Submission Comment (Startup Energy)

- Stakeholders requested additional information on the CAISO's proposed validation and monitoring actions
 - The CAISO is concerned this functionality has the potential to be abused to pass the RSE
 - Any type of validation or automated monitoring would require coordination between BSAP, Settlements and webOMS. This would be difficult to automate and implement prior to Spring 2021

The CAISO is proposing in the DFP to revise proposal to after-the-fact monitoring with identified cases of abuse subject to CAISO Tariff

DRAFT FINAL PROPOSAL

Base Schedule Submission Deadline – T-30 Deadline

The CAISO proposes to move the market closing timeline for the final hourly resource plans from forty minutes prior to the operating hour (T-40) to thirty minutes prior to the operating hour (T-30).

- Move the existing T-37.5 RTPD run to initiate shortly after the T-30 RSE. The RTPD interval will still publish at T-22.5 allowing time for tagging by the T-20 tagging deadline
- Move the existing RSE that begins shortly after the T-40 deadline to after T-30

Base Schedule Submission Deadline – T-40 RSE

The CAISO proposes create an additional RSE at T-40.

The T-40 RSE will use the following as inputs

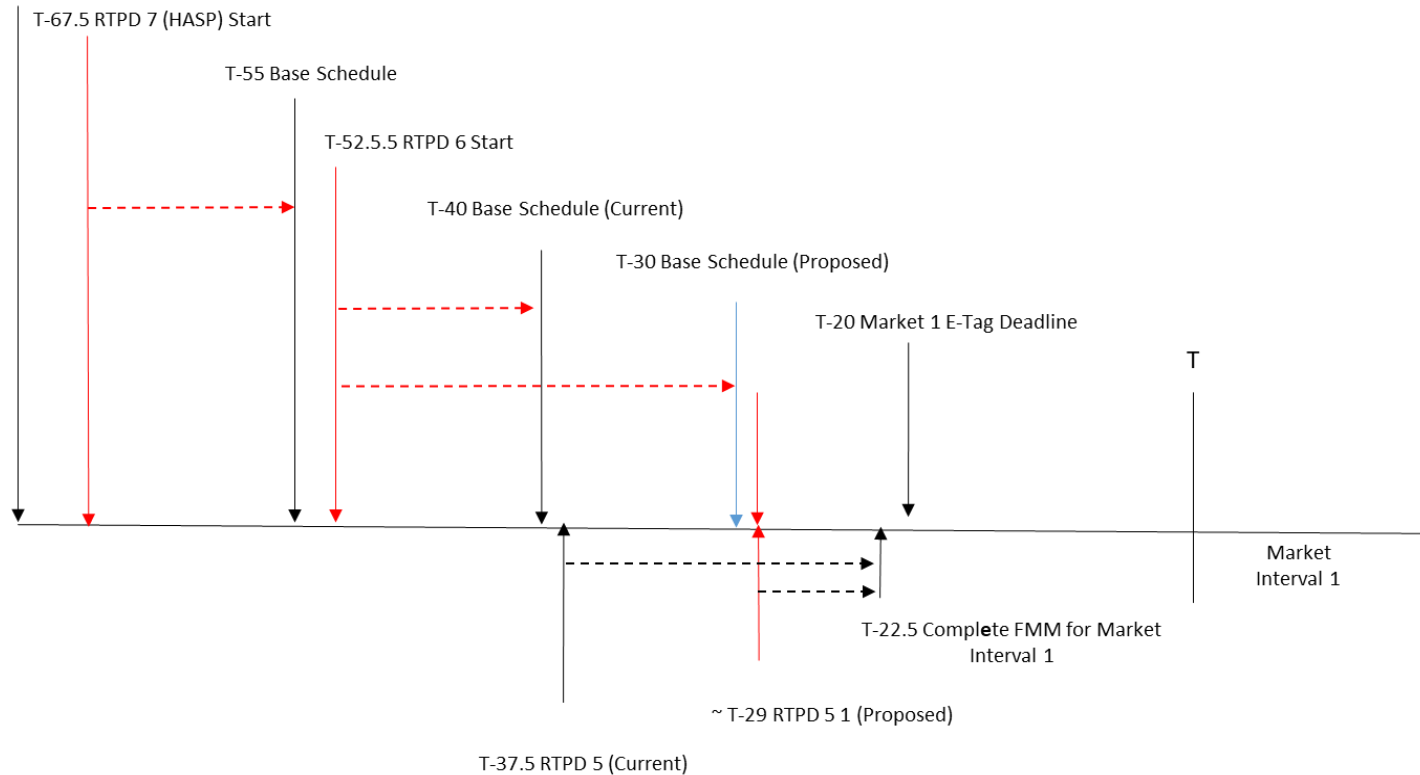
- Variable energy resource and load forecasts for T-7.5 locked at T-55. Initial resource conditions determined by the RTPD interval that starts at T-52.5

The additional RSE at T-40 creates the following benefits:

- Reduces variability between the final two RSE, as initial condition for resources will be the same in the T-40 and the T-30 RSE
- Allows additional time for manual operator actions to be taken

EIM Base Schedule Submission – Revised Timeline

T-75 Base Schedule



EIM Base Schedules Energy below minimum load – Monitoring

- Allow startup energy to be accounted for in a resource's base schedule
 - Included startup energy for purposes of passing the RSE
 - Reduce uninstructed imbalance charges related to startup energy
- All monitoring will be preformed on an after-the-fact basis
 - Misuse of this functionality will be subject to the CAISO Tariff

EIM Base Schedule Submission


NEXT STEPS

EIM Governing Body classification

The CAISO believes that this initiative falls within the EIM Governing Body's primary approval authority. The T-40 to T-30 change while generally applicable is intended to address EIM entity specific issues while only EIM entities will be able to submit energy below a resources minimum load within their base schedules. The two items in this initiative pass the identified tests.

- Stakeholders are encouraged to submit responses to the EIM classification in written comments

Next Step in the Stakeholder Process

Date:	Activity:
Oct 10, 2020	Comments Issue Paper / Straw proposal due
Oct 30, 2020	Publish draft final proposal
Nov 6, 2020	Stakeholder call
 Nov 13, 2020	Comments on DFP due
Dec 2, 2020	EIM GB
Dec 16-17, 2020	CAISO Board

Please submit comments using the online template available on the initiative webpage at

<https://stakeholdercenter.caiso.com/StakeholderInitiatives/Western-EIM-base-schedule-submission-deadline>