



GRIDWORKS

2024 Future Grid Workshop #3: Developing Recommendations to Address Gaps

Date, Time and Virtual Connection:

Wednesday, May 1, 2024

11:00am - 5:00pm PST

This will be a virtual (only) meeting.

Join Zoom Meeting

<https://us02web.zoom.us/j/83040808994>

Meeting ID: 830 4080 8994

+1 669 900 9128 US (San Jose)

[Find your local number](#)

Workshop Objectives:

- A. Review the Operational Needs and Gaps identified in response to key questions in the Amended Scoping Memo in Rulemaking R.21-06-017.

“What are the operational needs necessary to efficiently operate a high DER grid, unlock economic opportunities for DERs to provide grid services, limit market power, reduce ratepayer costs, increase equity, support grid resiliency, and meet State policy objectives?”

“What are the existing gaps and barriers in achieving the needs identified above within our current Distribution System Operator (Utilities)?”

- B. Co-create solutions to the identified gaps and barriers.

*“What are the potential solutions in overcoming these barriers?”
(see detailed discussion questions starting on page 3)*



GRIDWORKS

#	Agenda Item	Facilitator	Duration	Start Time
1	Introductions	Gridworks	10 min	11:00am
2	Remarks from Commissioner Darcie L. Houck		5 min	11:10am
3	Operational Needs & Gaps Matrix Overview	Gridworks	10 min	11:15am
Developing Recommendations to Address Gaps				
4	Topic 1: Implementation of Flexible <u>Generation</u> Interconnection	Gridworks	30 min	11:25am
5	Topic 2: Scoping of IOU system upgrades to support dynamic rates	Gridworks	30 min	11:55am
<i>lunch</i>			30 min	12:25pm
6	Topic 3: DER Visibility to a. DSOs b. CAISO	Gridworks	75 min	12:55pm
<i>break</i>			15 min	2:10pm
7	Topic 4: Roadmap for Distribution-Level Grid Services from Flexible <u>Load</u> Energization	Gridworks	80 min	2:25pm
<i>break</i>			15 mins	3:45pm
8	Topic 5: Data Sharing in a High DER Future	Gridworks	50 min	4:00pm
9	Next Steps and Closing	Gridworks	10 min	4:50pm

Workshop Materials

All available workshop materials can be downloaded from
<https://gridworks.org/initiatives/california-future-grid-study/>



GRIDWORKS

Workshop #3 Discussion Questions

Topic 1 - Implementation of Flexible Generation Interconnection

Context: Flexible Interconnection is not presently a broad capability but is expected to be supported through future upgrades.

- What milestones should the CPUC monitor to ensure this operational need is fully implemented in the IOUs' Grid Modernization Plans?
- What other actions should the CPUC consider taking to implement Flexible Interconnection?

Topic 2 – Scoping of IOU system upgrades to support dynamic rates

Context: The demand flexibility rulemaking is currently developing policy on this topic.

- What milestones should the CPUC monitor to ensure this operational need is implemented in future upgrades to IOU IT systems?
- What other actions should the CPUC consider taking to implement Dynamic Pricing?

Topic 3a – DER Visibility to DSOs

Context: The IOUs' Workshop #2 presentations and Grid Modernization progress reports indicate that the IOUs expect to meet this operational need after fully implementing their Grid Modernization Plans.

- What milestones should the CPUC monitor in the IOUs' Grid Modernization Plans to understand if this capability is met?

Topic 3b – DER Visibility to CAISO

Context: The gap analysis indicates gaps in the data that the CAISO expects to collect or receive. Further dialogue between the IOUs, CAISO, and interested stakeholders can address these gaps. The discussion in this session is intended to identify potential next steps to proactively address those gaps.

- What actions can the CPUC take to address this gap?
- What other actions outside of CPUC jurisdiction can stakeholders take to address this gap?



GRIDWORKS

Topic 4 – Roadmap for Distribution-Level Grid Services from Flexible Load Energization

Context:

This topic focuses on recommendations to establish flexible energization for new loads and to identify distribution-level grid service for further development as part of establishing an open-access distribution grid. The focus is on enabling growth from new sources of electricity demand, particularly transportation.

Studies by the CPUC and Cal Advocates have identified potentially significant new distribution costs if these new loads are primarily added at peak periods. In addition, they could hit current load hosting capacity limits and encounter delays with energization.

In Workshop #2, Cal Advocates recommended a priority focus on establishing Firm Import Limits as a “bridge-to-wires” that would allow earlier energization in capacity constrained areas along with other customer benefits.

In establishing this near-term bridge, the flexible loads could support broader distribution-level grid services as electrification loads increase in aggregate and across each utility’s service territory.

The focus of this discussion is to identify actions to establish “bridge-to-wires” flexible load energization and actions to develop grid services from these new loads.

- What near-term actions should the CPUC consider taking to support Firm Import Limits and flexible (Non-Firm) load energization.
- What actions should the CPUC consider taking to develop distribution-grid services (building on Firm Import Limits and flexible (Non-Firm) load energization)? (e.g. reducing net load in constrained areas in response to a control signal by the DSO,¹ reducing contingent loading of grid infrastructure to enable operational flexibility to safely and reliably reconfigure the distribution system to restore customers²)

Topic 5 – Data Sharing in a High DER Future

Context: In each workshop, participants emphasized the importance of data sharing amongst customers and market actors.

- What actions should the CPUC consider taking to enhance data access?