



California ISO

2026-2027 Transmission Planning Process

Stakeholder Meeting
September 23-24, 2026

Housekeeping Reminders

- Stakeholder calls and meetings related to Transmission Planning are not recorded.
 - Given the expectation that documentation from these calls will be referred to in subsequent regulatory proceedings, we address written questions through written comments, and enable more informal dialogue at the call itself.
 - Minutes are not generated from these calls, however, written responses are provided to all submitted comments.
- Calls are structured to stimulate an honest dialogue and engage different perspectives.
- Please keep comments professional and respectful.

Instructions for raising your hand to ask a question

- Click on the raise hand icon  at the bottom of your screen.
 - NOTE: If you dialed into the call outside of Webex, press *3 to get into the question queue.
- If you would like to view attendees, refresh your screen and open the “Intellor Transparency Viewer” at the bottom right of your screen.
- Closed captioning is now available by clicking the “CC” button on the bottom left of your screen.
- Please remember to state your name and affiliation before making your comment.
- You may also send your question via chat: Open the **Direct** message tab and select **all panelists** in the dropdown.
- If you need technical assistance during the meeting, please send a chat to the event producer **@Intellor Events**.

2026-2027 TPP Stakeholder Meeting - Agenda

Topic	Presenter
Day 1 - September 23	
Overview	Andrew Rivera
Preliminary Reliability Assessment - North	RT North Engineers
Preliminary Reliability Assessment - South	RT South Engineers
High Voltage TAC Update	Yara Khalaf
Day 2 - September 24	
PTO Proposed Reliability Solutions	PG&E, SCE, GLW, SDG&E
Policy Driven Assessment Update	Meng Zhang
Economic Driven Assessment Update	Yi Zhang
Wrap up	Yelena Kopylov-Alford



California ISO

PTO Proposed Reliability Solutions



Policy-Driven Assessment Updates

Meng Zhang

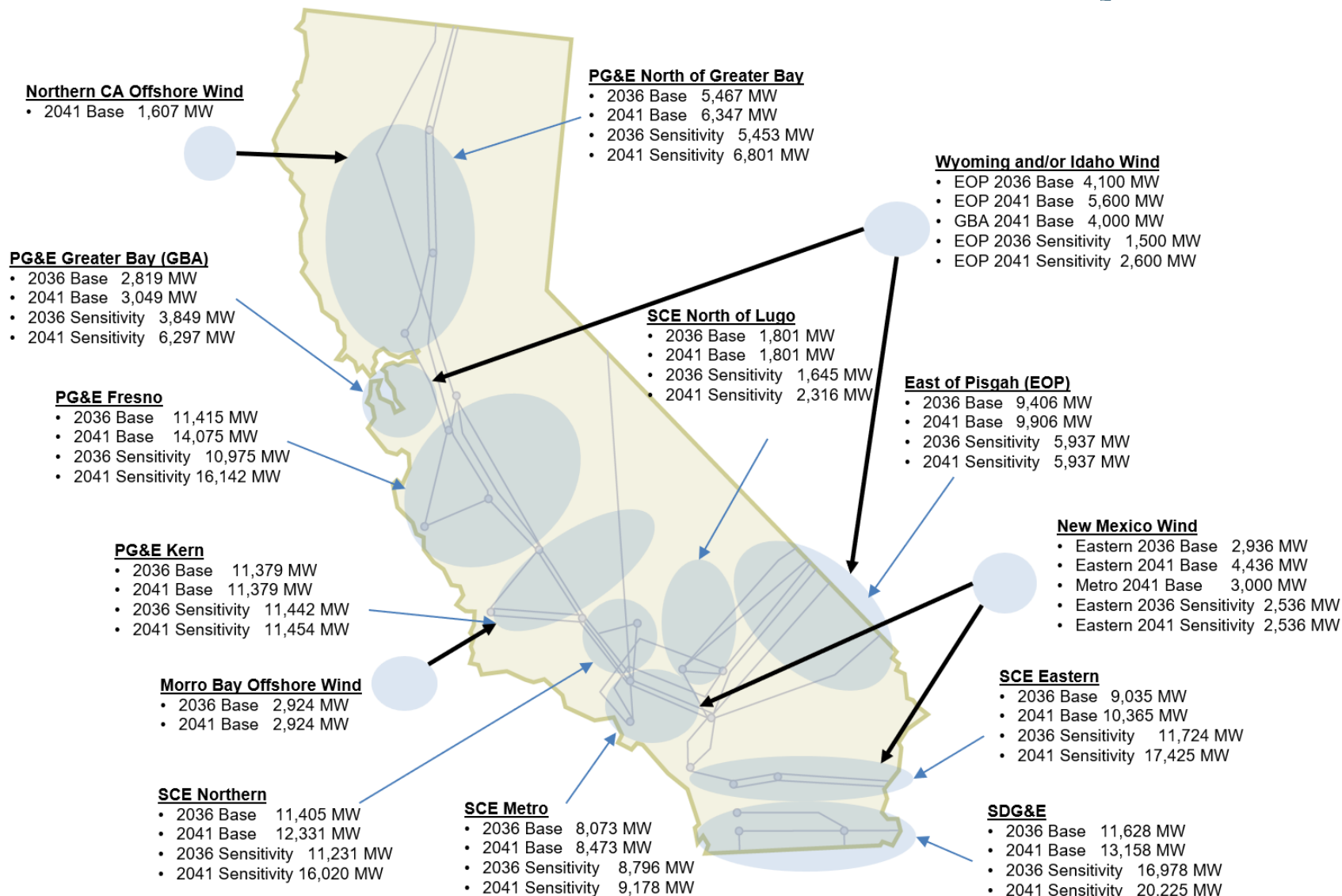
Regional Transmission Engineer Lead

*2026-2027 Transmission Planning Process Stakeholder Meeting
September 23-24, 2026*

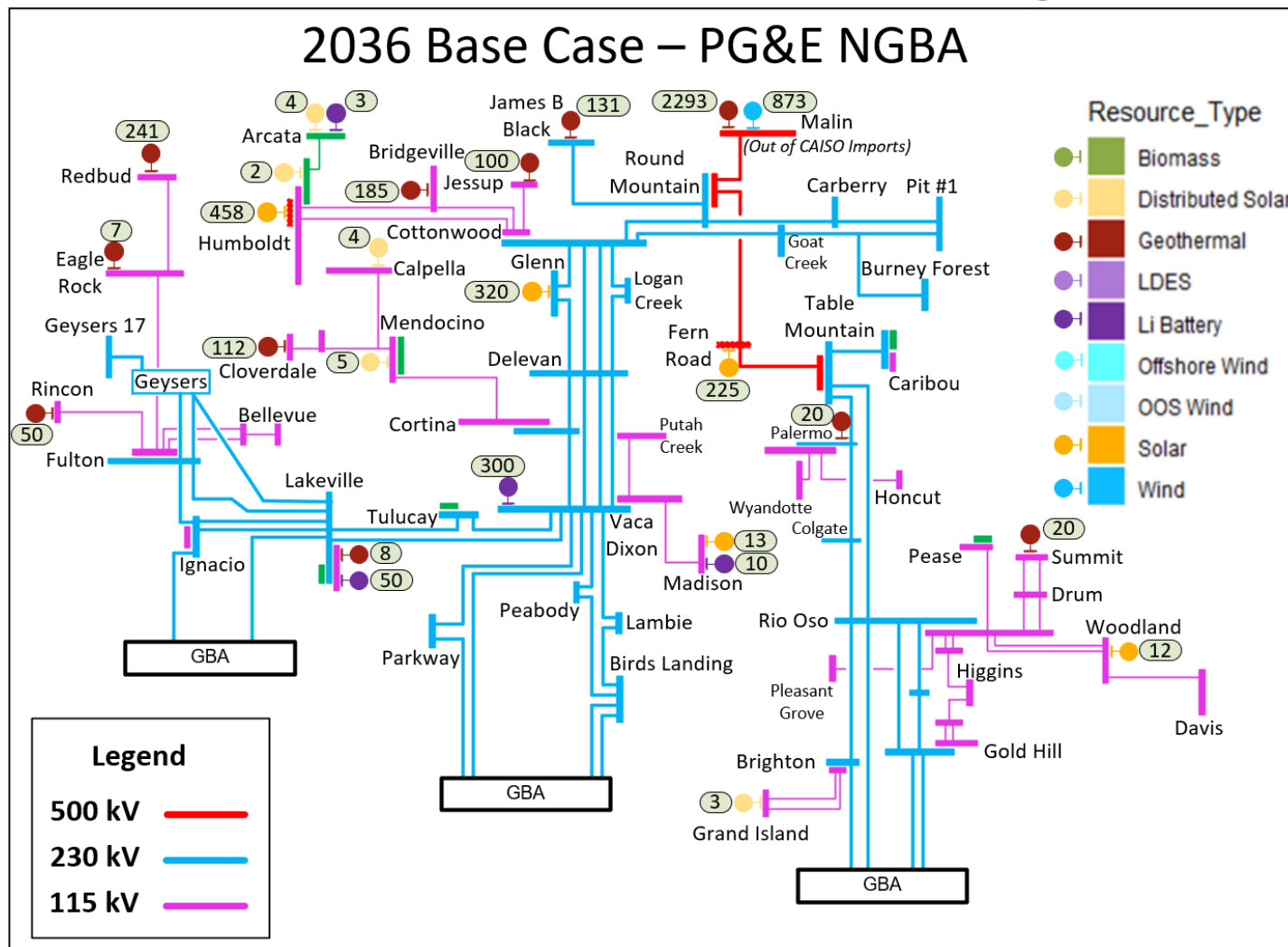
Introduction

- In February, the CAISO presented the scope, resource portfolios, including non-CPUC jurisdictional approved IRP resources, and the methodology for the policy-driven assessment
- Today's update covers:
 - Detailed portfolio busbar mapping for each interconnection area
 - Unaccounted for TPD allocation included in the study
 - Additional modeled resources and portfolio adjustments
 - MIC expansion requests being assessed
 - Out-of-state wind HSN/SSN study factors update
 - Final portfolios and scenarios selected for the policy study in this TPP cycle

2036 and 2041 CPUC Portfolio Resources by Area



PG&E North of Greater Bay Area 2036 Base Portfolio Busbar Mapping



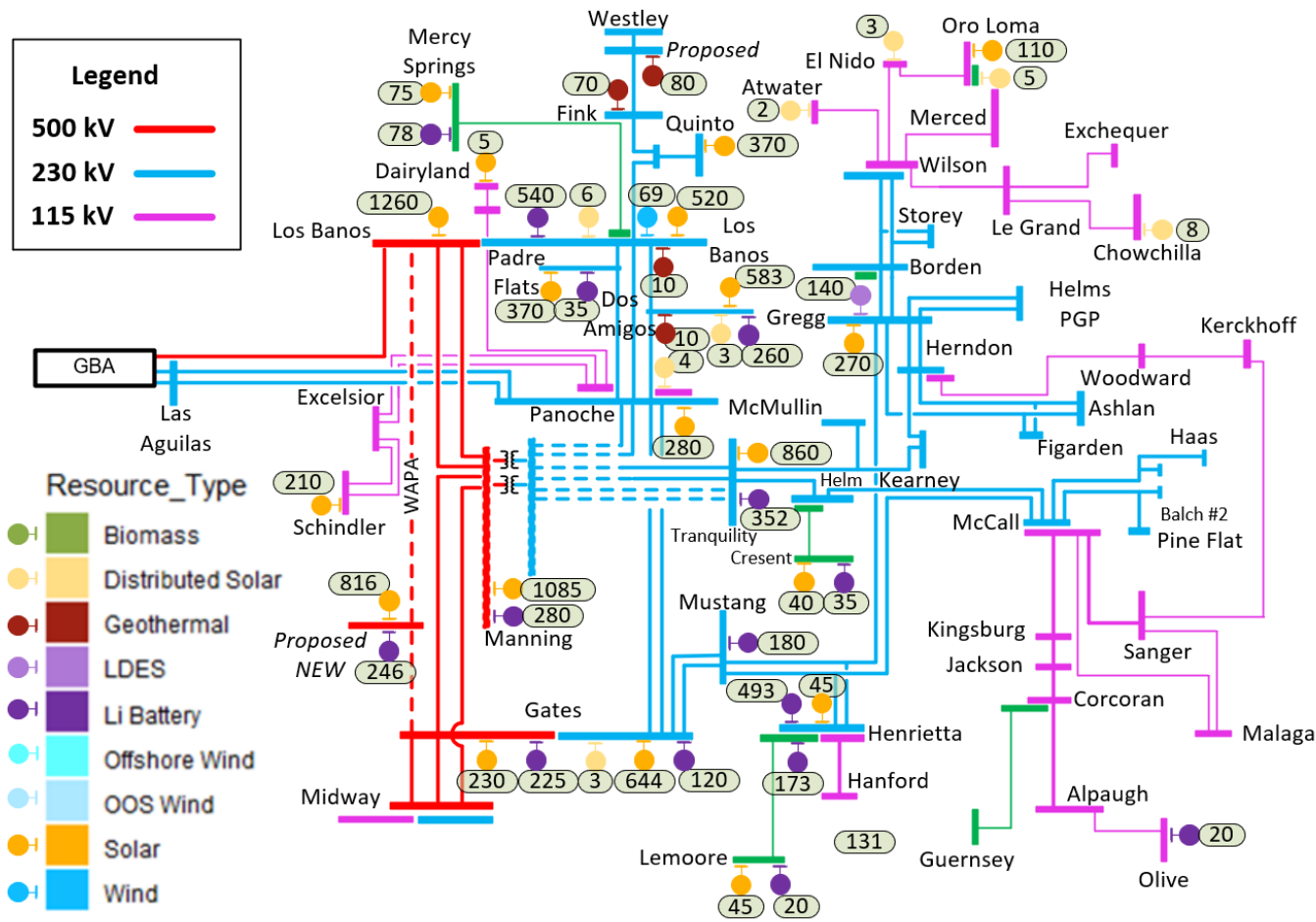
2036 Base Portfolio Busbar Mapping



Total
2,819
MW

PG&E Fresno Area 2036 Base Portfolio Busbar Mapping

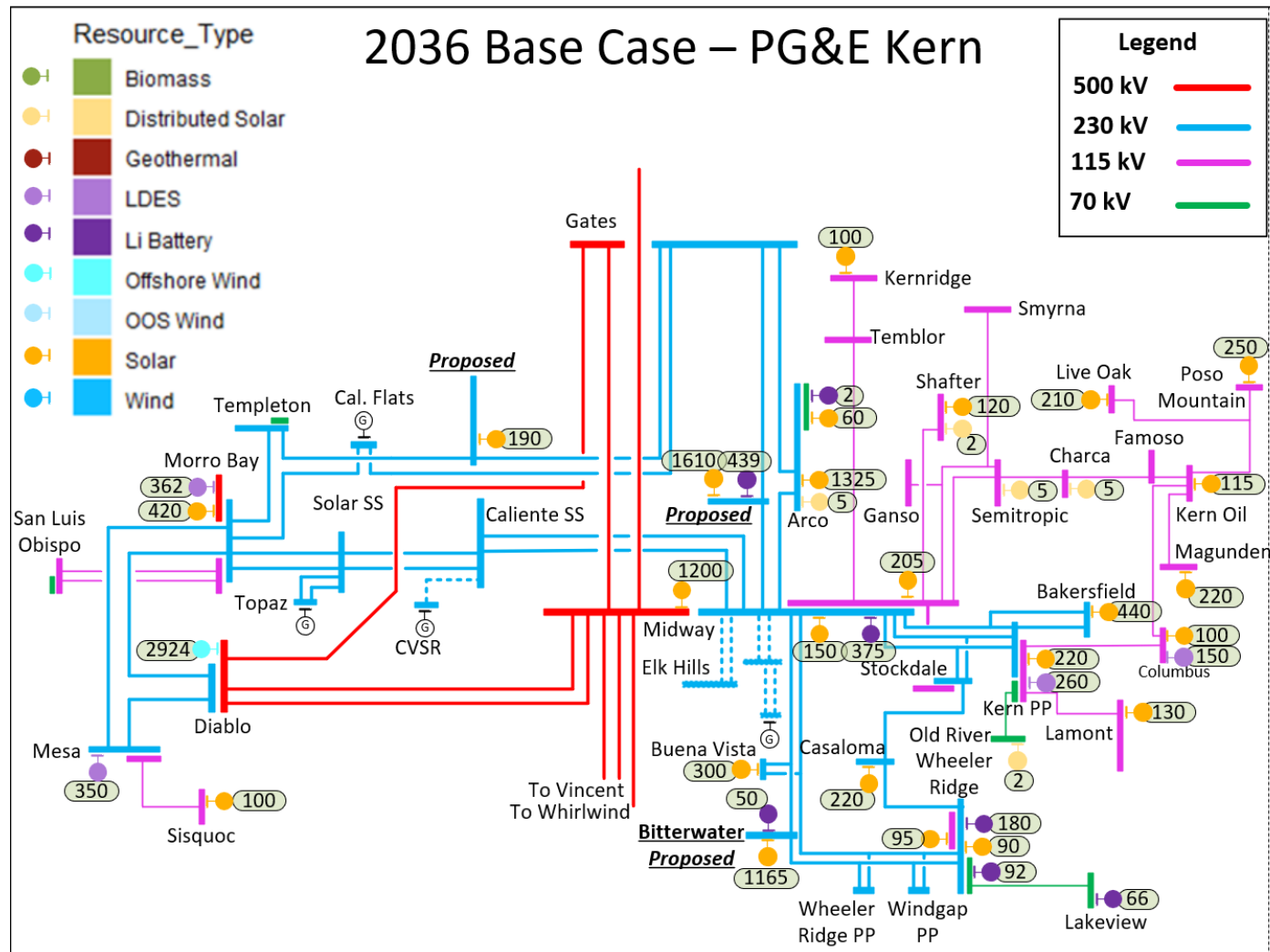
2036 Base Case – PG&E Fresno



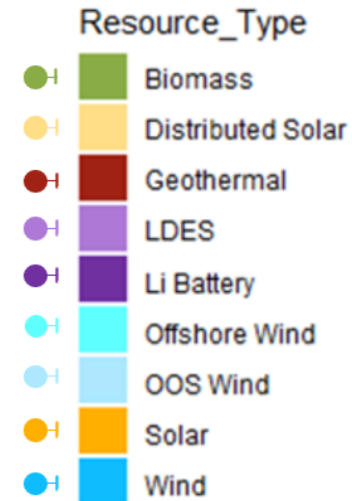
Total
11,415
MW

PG&E Kern Area

2036 Base Portfolio Busbar Mapping

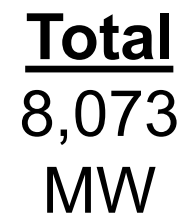


2036 Base Portfolio Busbar Mapping



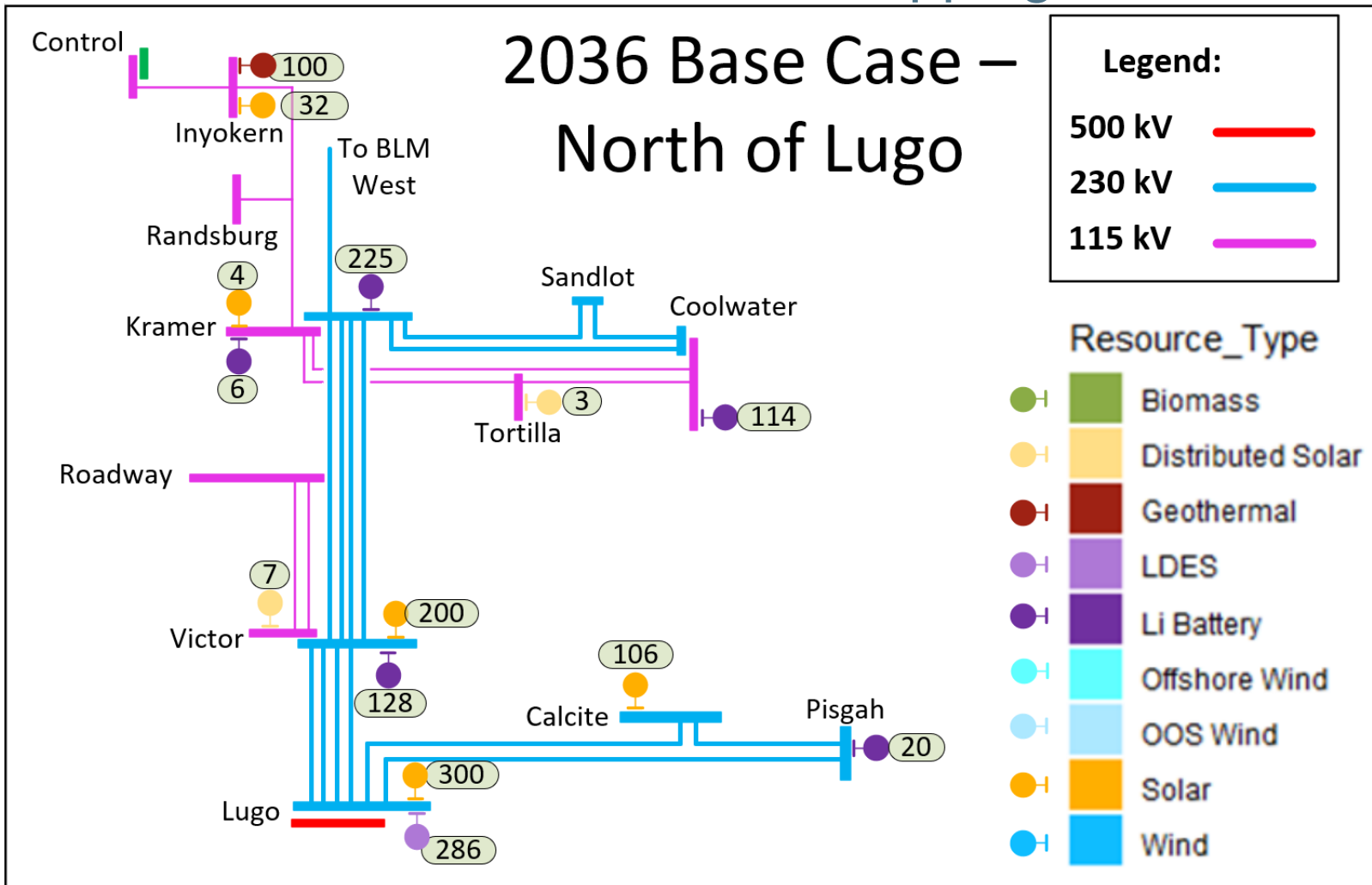
Total
11,405
MW

2036 Base Case – SCE Metro



SCE North of Lugo Area

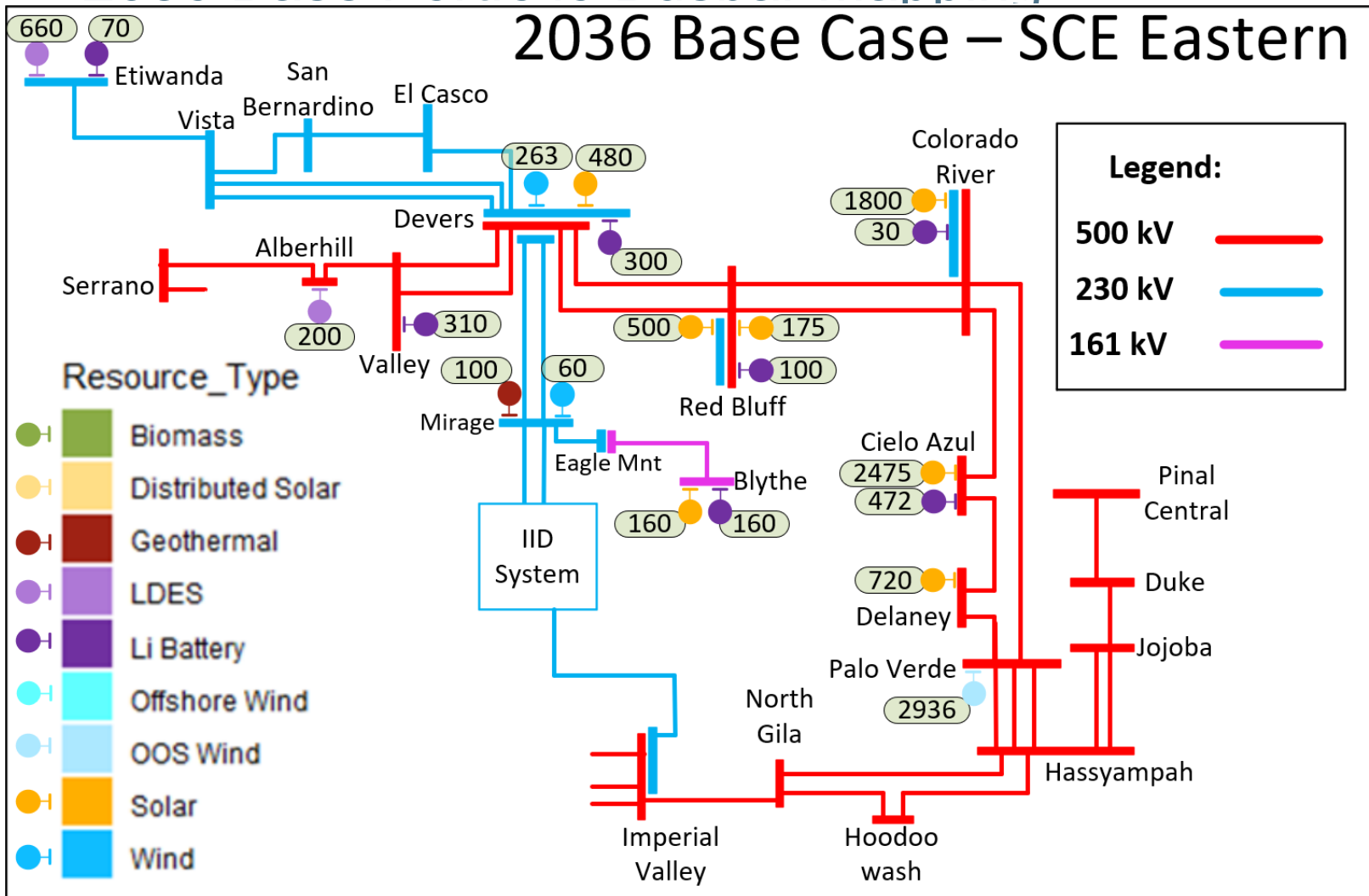
2036 Base Portfolio Busbar Mapping



Total
1,801
MW

SCE Eastern Area 2036 Base Portfolio Busbar Mapping

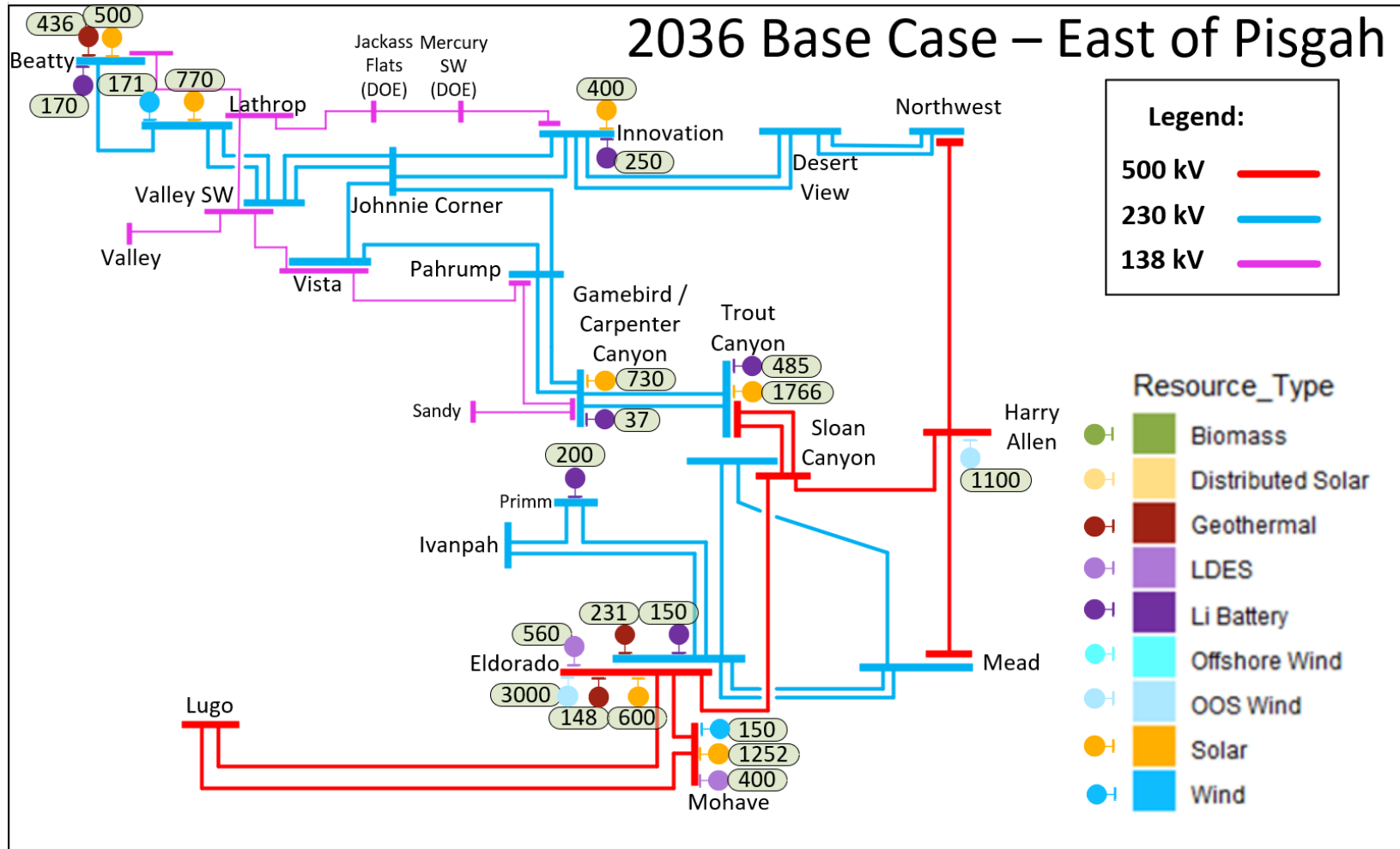
2036 Base Case – SCE Eastern



Total
11,971
MW

East of Pisgah Area

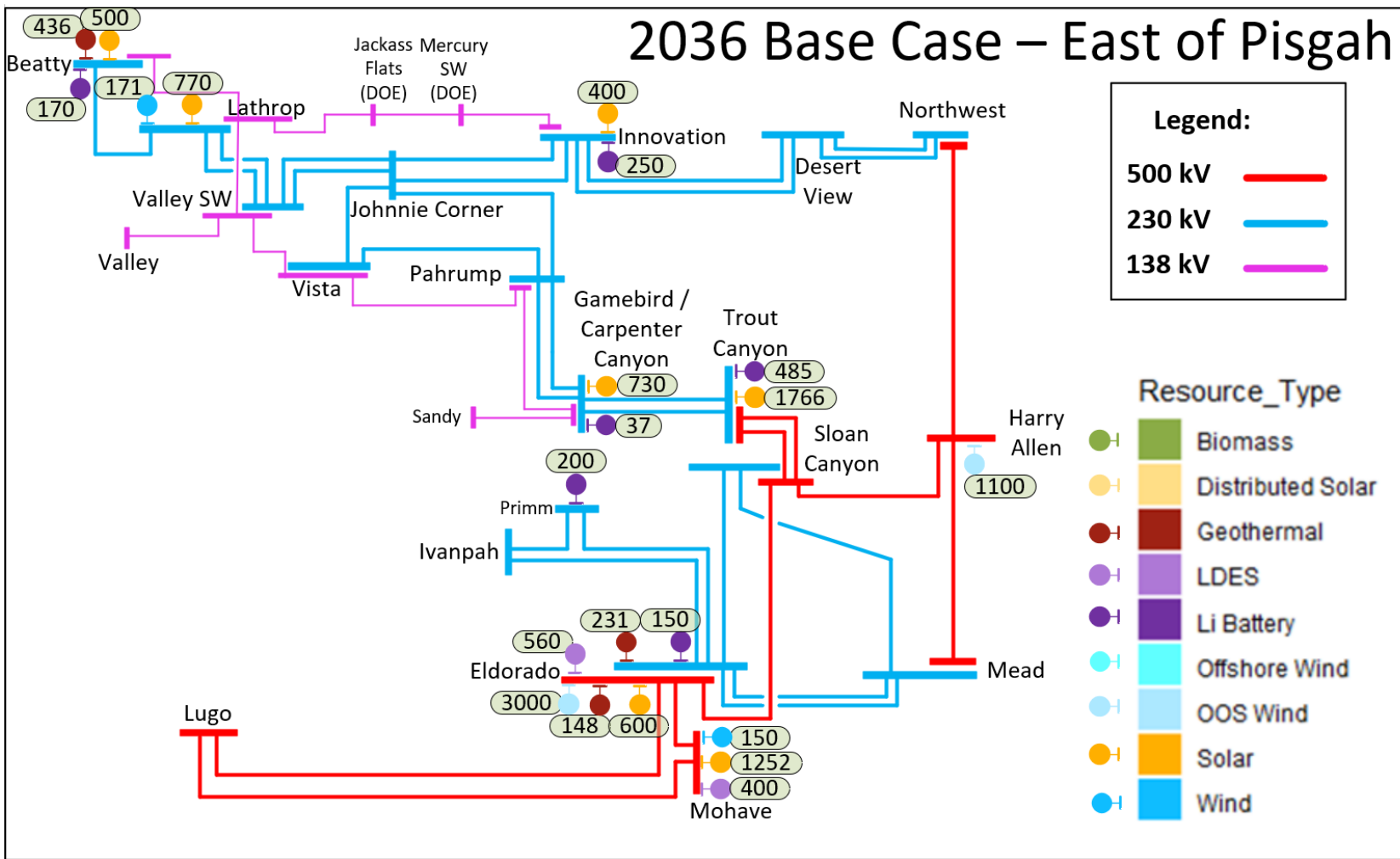
2036 Base Portfolio Busbar Mapping



Total
13,505
MW

SDG&E Area

2036 Base Portfolio Busbar Mapping



Total
11,628
MW

Unaccounted for TPD Allocation

- For the 2026-2027 TPP, CPUC staff identified unaccounted for TPD allocations at locations that would impact reserving deliverability for LLTs: out-of-state wind, in-state geothermal, offshore wind and location-constrained LDES.
- Where portfolio resources exceeded TPD allocations, unaccounted TPD allocations at other buses behind the same constraint might be reduced as appropriate.
- Additional resources modeled by PTOs under Level 2 Bullet 3 criteria also reduced corresponding unaccounted TPD allocations where applicable.
- Tables in the following slides show the final adjusted unaccounted for TPD allocations modeled in the policy study.

Unaccounted For TPD Allocations Impacting LLT Deliverability

CAISO Study Area	Substation	Voltage	2036 Base	2041 Base
SCE Eastern	Red Bluff	230	1,112	1,112
SCE Eastern	Red Bluff	500	199	199
SCE Eastern	Valley	500	750	750
SCE Eastern	Etiwanda	230	445	367
SCE Eastern	Delaney	500	428	428
SCE Eastern	Cielo Azul	500	296	296
SCE Eastern	Colorado River	230	201	201
SCE North of Lugo	Kramer	230	167	167
SCE North of Lugo	Calcite	230	227	227
SCE North of Lugo	Pisgah	230	220	220
SCE Northern	Vincent	500	1,150	1,150
SCE Northern	Antelope	230	632	632
SCE Northern	Moorpark	230	500	500
SCE Northern	Mandalay	230	400	400
SCE Northern	Vestal	230	91	91
SCE Northern	Saugus	230	60	60
SCE Northern	Neenach	66	57	57
SCE Northern	Whirlwind	500	366	366

(Continued)

CAISO Study Area	Substation	Voltage	2036 Base	2041 Base
East of Pisgah	Mohave	500	1,645	1,605
East of Pisgah	Trout Canyon	230	1,282	1,282
East of Pisgah	Eldorado	230	331	331
East of Pisgah	Innovation	230	289	289
East of Pisgah	Sloan Canyon	230	127	127
SDG&E	Glamis	500	1,111	1,111
SDG&E	El Cajon	69	50	50
SDG&E	Avocado	69	30	30
SDG&E	Mesa Heights	69	3	3
SDG&E	Alpine	69	1	1
Total			12,170	12,053

(Continued)

CAISO Study Area	Substation	Voltage	2036 Base	2041 Base
PG&E GBA	Vierra	115	1	1
PG&E GBA	Los Esteros	115	3	3
PG&E GBA	Delta PP	230	5	5
PG&E GBA	Crow Creek	60	13	13
PG&E GBA	Cottle	230	54	54
PG&E GBA	Cooley Landing	60	65	65
PG&E GBA	Metcalf	115	75	75
PG&E GBA	Cayetano	230	100	100
PG&E GBA	Santa Teresa	115	100	100
PG&E GBA	Valley Springs	60	100	100
PG&E GBA	Crazy Horse Canyon	115	110	110
PG&E GBA	Birds Landing	230	111	111

(Continued)

CAISO Study Area	Substation	Voltage	2036 Base	2041 Base
PG&E GBA	Llagas	115	120	120
PG&E GBA	Newark	230	180	180
PG&E GBA	Green Valley	115	200	200
PG&E GBA	Los Esteros	230	200	200
PG&E GBA	Weber	60	240	240
PG&E GBA	Martin	115	221	221
PG&E GBA	Pittsburg	115	325	325
PG&E GBA	Metcalf	230	350	350
PG&E GBA	Rancho Seco	230	350	350
PG&E GBA	Pittsburg	230	675	675
PG&E GBA	Tesla	230	726	726
PG&E GBA	Tesla	500	900	900
PG&E GBA	Moss Landing	500	1,500	1,500

(Continued)

CAISO Study Area	Substation	Voltage	2036 Base	2041 Base
PG&E FRESNO	Panoche	115	6	-
PG&E FRESNO	Corcoran	115	10	10
PG&E FRESNO	Los Banos	230	16	16
PG&E FRESNO	Crescent	70	34	34
PG&E FRESNO	Quinto	230	95	95
PG&E FRESNO	Excelsior	115	66	66
PG&E FRESNO	Fink	230	108	78
PG&E FRESNO	Mendota	115	160	160
PG&E FRESNO	Sanger	115	200	200
PG&E FRESNO	Wilson	115	200	200
PG&E FRESNO	Westley	230	300	277
PG&E FRESNO	Gates	500	541	541
PG&E FRESNO	Tranquility	230	153	136
PG&E FRESNO	Manning	500	782	782
PG&E FRESNO	Gates	230	383	383
PG&E FRESNO	Los Banos	500	668	668

(Continued)

CAISO Study Area	Substation	Voltage	2036 Base	2041 Base
PG&E KERN	Lamont	115	4	4
PG&E KERN	Fairway	115	10	10
PG&E KERN	Arco	70	22	22
PG&E KERN	Midway	230	38	38
PG&E KERN	Mesa (PGE)	230	100	100
PG&E KERN	Midway	115	40	40
PG&E KERN	Kern PP	230	110	110
PG&E KERN	Diablo Canyon	500	451	451
PG&E KERN	Midway	500	582	582
Total			11,803	11,708

Additional Resources Modeled and Adjustments to the Portfolio

- As outlined in 2026-2027 TPP Study Plan, generation interconnection projects that are known to have commenced construction or have a PPA with an LSE are modeled in the studies under Level 2 Bullet 3 criterion.
- PTOs identified and modeled several additional resources that meet this criterion but are not included in the CPUC in-development portfolio.
- Where applicable, corresponding unaccounted for TPD allocations at the same bus were reduced.
- The table below lists the resources that were added to the study after the adjustments.

Substation	Voltage	Resource Type	FCDS MW	
			2036 Base	2041 Base
Springville	66	Battery	40	40
Antelope	66	Battery	121	121
Lighthipe	66	Battery	179	29
Barre	66	Battery	110	110
Walnut	66	Battery	113	113
La Fresa	66	Battery	75	75

MIC Expansion Requests Being Assessed

No.	Requestor Name	Intertie Name (Scheduling Point)	MW quantity (NQC)	Resource type
1	Sunzia	PALOVRDE_ITC (PVWEST)	1727.42	Wind
2-11	Pattern	ELDORADO_ITC (WILLOWBEACH)	42.69	Wind
12-13	Valley Electric Association	MEAD_ITC (MEAD 230)	24	Hydro
14			85.84	Hybrid (Solar/Battery)
15-17	California Community Power	IID-SDGE_ITC (IVLY2)	63	Geothermal
		SILVERPK_ITC (SILVERPEAK55)	13	Geothermal

* = As back-up locations only – main delivery point included as MEAD_ITC (MEAD230) and part of the CPUC portfolio.

Out-of-State Wind HSN/SSN study factors

- The Out-of-State wind HSN / SSN values have been updated to align with the standard methodology followed for the other areas.

	Previous HSN	Previous SSN	Updated HSN	Update SSN
Wyoming	67%	35%	30%	16%
New Mexico	67%	35%	37%	13%
Idaho	67%	35%	33%	11%

Portfolios and Scenarios for Study

- Five cases will be built for study which cover 2036 base portfolio, 2041 base portfolio and 2041 low wind sensitivity portfolio
- On-peak HSN deliverability analysis will be performed for all three portfolios while on-peak SSN and off-peak deliverability analysis will only be performed for 2036 base portfolio

	2036 Base Portfolio	2041 Base Portfolio	2041 Low Wind Sensitivity Portfolio
HSN	√	√	√
SSN	√		
Off-Peak	√		

Current Status and Next Steps

- The CAISO is developing the policy study cases and performing studies
- Preliminary results of the policy-driven assessment will be presented at the November 18 stakeholder meeting



Economic Assessment Assumption Update for 2026-2027 Planning Cycle

Yi Zhang

2026-2027 Transmission Planning Process Stakeholder Meeting
September 23-24, 2026

PCM cases in this TPP cycle

- Study year:
 - 2036 and 2041
- Starting PCM case: ADS PCM 2036 version 2.0
 - With incremental updates from WECC
- Generator models: CPUC portfolios for 2036 and 2041
- Transmission models: ISO 2036 and 2041 summer peak bulk power flow cases
- Load models: Updated CEC 2024 IEPR Planning Forecast

Current status and next step

- The CAISO is developing the planning PCM cases
- Will present preliminary results in the November stakeholder meeting

Economic study requests

Study Request	Submitted By	Location
High West Transmission Project	GridLiance West	Southern Nevada/Utah
Sloan Canyon - Mead Project	GridLiance West	Southern Nevada
New Cielo Azul - Imperial Valley 500 kV line	Horizon West Transmission	AZ/Southern California
New Dunes to Devers 500 kV line and Slab City Substation Project	Horizon West Transmission	Southern California
Kern-Southland Energy Link (K-SEL) project	Grid United, LLC	Southern California
Los Banos - Gates #3 500 kV Upgrade	Viridon Path 15 LLC	Northern/Southern California
Investigate Grid Enhancing Technologies to reduce congestion	WATT Coalition	California
Adding a third transformer at Red Bluff 500 kV substation	Clearway Energy Group	Southern California
Main West Desert Transmission project	Pattern Energy	Southern California/Southern Nevada

NEXT STEPS

Additional information

- Comments due by end of day **October 8, 2026**
- Submit comments through the ISO's commenting tool, using the template provided on the process webpage:
<https://stakeholdercenter.caiso.com/RecurringStakeholderProcesses/2026-2027-Transmission-planning-process>
- If you have any questions, please contact
isostakeholderaffairs@caiso.com

This Week at the ISO – 9/21/26

Stakeholder Meetings *For an overarching view of where each initiative is in the development process, view the [Policy Initiatives Timeline](#).*

All public stakeholder meetings are also listed on the [CAISO Calendar](#)

- Tuesday, September 22, 2026 – Storage Design and Modeling
 - 9:00am – 12:00pm PT ([registration required](#) for in-person attendance, [link](#))
- Tuesday, September 22, 2026 – BPM Change Management Proposed Revision Request Review
 - 11:00am – 12:00pm PT ([registration](#))
- Tuesday, September 22, 2026 – Interconnection Customer User Group
 - 1:00pm – 2:00pm PT ([link](#))
- Wednesday, September 23, 2026 – 2026-2027 Transmission Planning Process
 - 9:00am – 4:00pm PT ([link](#))
- Wednesday, September 23, 2026 – Settlement User Group
 - 10:00am – 11:00am PT ([link](#))
- Thursday, September 24, 2026 – 2026-2027 Transmission Planning Process
 - 9:00am – 4:00pm PT ([link](#))

Comment Submission Deadlines

- Wednesday, September 23 – 2027 Default Resource Adequacy Values
- Thursday, September 24 – Assembly Bill 825 California Jobs Study

This Week at the ISO continued

DAME/EDAM Resources

FAQ & Training:

- [EDAM FAQ Guide](#) - Designed to address general EDAM related questions
- [EDAM Training Resources](#) - A comprehensive set of EDAM training materials is available, offered in both instructor-led and computer-based training (CBT) formats. These resources include courses covering:
 - Bids and Base Schedule
 - EDAM Bidding Basic Concepts
 - Scheduling Infrastructure Business Rules (SIBR)
 - EDAM Scheduling Coordinator responsibilities
 - Intertie Scheduling
- [EDAM Business Requirements Specifications](#) - Describes EDAM's business processes and the associated business requirements.
- [DAME Business Requirements Specifications](#) - Describes DAME's business processes and the associated business requirements.
- [EDAM Scheduling Coordinator Decision Matrix](#)

Settlements:

- [Settlements BPM Walkthrough](#)
- Known Issues List

BPMs:

- [Extended Day-Ahead Market BPM](#)
- [Market Instruments BPM](#)
- [Reliability Requirements BPM](#)
- [Market Operations BPM](#)
- [BPM Change Management Process \(PRRs\)](#)

EDAM Stakeholder Initiative:

- Meeting materials and recordings can be accessed through the stakeholder initiative page [here](#).

This Week at the ISO continued

Market Simulations

Please refer to our [Release Schedule](#) for the most recent updates of initiatives scheduled for MAP- and Production- stage market sims

To participate in the DAME and EDAM Implementation pre-Market Simulation meeting series, please follow these steps:

Submit a CIDI Request:

- Log in to the CAISO Customer Inquiry, Dispute, and Information (CIDI) system.
- Create a new request with the 'Functional Environment' set to "Market Simulation."
- In the request, specify your intent to participate in the DAME & EDAM Market Simulation.
- Include the following information:
 - Market Simulation initiative(s) you will participate in.
 - Any specific resources or systems you plan to test.
 - Contact names and email addresses for coordination.

Email Option:

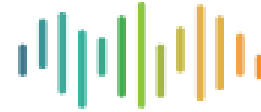
- If you do not have access to CIDI, you may send an email to marketsim@caiso.com with the subject line "DAME & EDAM Market Simulation Registration."

Business Practice Manual (BPM) Updates

- The status of all PRRs and updated BPMs in the [BPM Library](#) are published on the [BPM Change Management Website](#).
- *Please note: The California ISO has updated how participants access call-in information for Business Practice Manual (BPM) Change Management meetings. Going forward, registration is required to receive Webex and audio participation details. Previously, meeting links were posted directly on the event calendar. This change allows us to collect participant contact information to support future outreach, communication, and process improvement efforts.*



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FREQUENCY BAND

The *Energy Matters* blog provides timely insights into ISO grid and market operations as well as other industry-related news and a new energy podcast, *Frequency Band*.



Story | Transmission

**SWIP-North construction underway;
provides key link in Western
transmission connectivity**

By ISO Staff

09/16/2026



Story | Leadership

**ISON: A valuable network for
international information sharing,
innovation and best practices in
grid management**

By Elliot Mainzer

09/03/2026



Story | Reports, Regulatory, Markets

**ISO Department of Market Monitoring
plays an important – and required – role
in markets transparency and effectiveness**

By Eric Hildebrandt

08/13/2026



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Announcing the launch of a new publication series:



Western Energy Markets Observations

This new periodical offers concise and accessible insights into notable developments across the western power markets. [Read the first issue](#) for highlights on market performance during the first weeks of Extended Day-Ahead Market (EDAM) operations.

The document will be posted on the [EDAM Overview page of WesternEnergyMarkets.com](#) website.

REGISTRATION IS OPEN

2026 STAKEHOLDER SYMPOSIUM

Welcome reception - Oct. 5

at Kimpton Sawyer Hotel, Sacramento, CA

Symposium program - Oct. 6

SAFE Credit Union Convention Center
Sacramento, CA

Visit: <https://www.caiso.com/meetings-events/events/stakeholder-symposium>

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