



# 2023 & 27 Draft LCR Study Results Summary of Findings

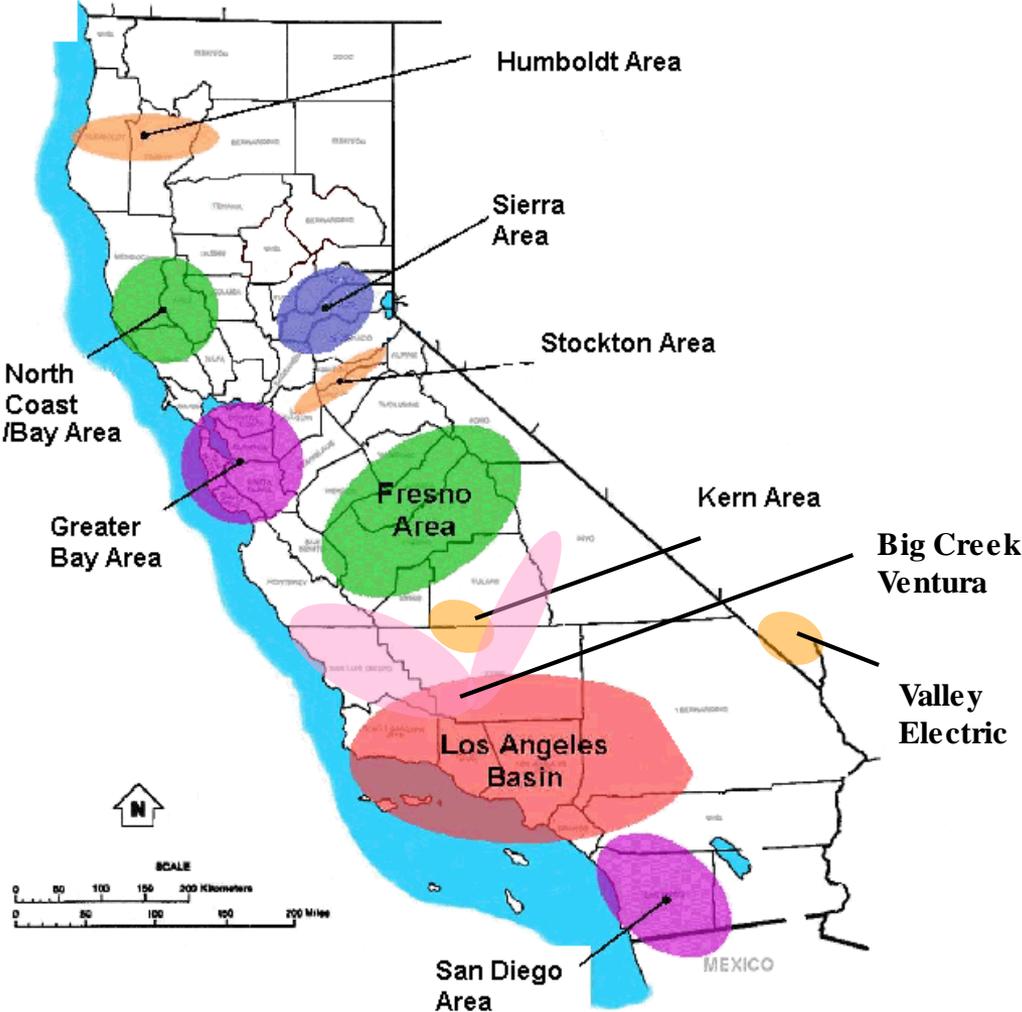
Catalin Micsa

Senior Advisor Regional Transmission Engineer

Stakeholder Call

March 9, 2022

# LCR Areas within CAISO



# Input Assumptions, Methodology and Criteria

See October 27, 2021 stakeholder teleconference - for study assumptions, methodology and criteria. The latest information along with the 2023 LCR Manual can be found at:

<https://stakeholdercenter.caiso.com/RecurringStakeholderProcesses/Local-capacity-requirements-process-2023>.

Transmission system configuration – all-projects with EDRO up to June 1, 2023

Generation – all-generation with COD up to June 1, 2023

Load Forecast – 1 in 10 local area peak (based on latest CEC forecast)

Criteria – most stringent of all mandatory standards (NERC, WECC, ISO)

## Methodology

1. Maximize Imports Capability into the local area
2. Maintain path flows
3. Maintain deliverability for deliverable units
4. Load pocket – fix definition

# Major Changes from last year studies

1. **Old NQC data.**
2. **LCR results herein use CEC load forecast posted on 2/3/2022.**
3. **Total 2023 LCR capacity needed has increased by 349 MW or ~ 1.4%**
4. **2023 LCR needs decrease in: North Coast/North Bay and Fresno** due to load forecast decrease, **San Diego-Imperial Valley** due to new transmission projects and **Sierra** requirements are about the same.
5. **2023 LCR needs increase in: Humboldt, Stockton, Bay Area and Big Creek/Ventura** due to load forecast increase, **Kern** due to more restrictive contingency and limiting equipment, and **LA Basin** due to load forecast increase and different constrain.

# 2023 Draft LCR Needs

	August Qualifying Capacity				Capacity Available at Peak	2023 LCR Need
Local Area Name	QF/ Muni (MW)	Non-Solar (MW)	Solar (MW)	Total (MW)	Total (MW)	Capacity Needed
Humboldt	0	178	0	178	178	141
North Coast/ North Bay	138	761	0	899	899	857
Sierra	1206	698	5	1909	1904	1150*
Stockton	136	425	12	573	561	573*
Greater Bay	611	7156	8	7775	7775	7340*
Greater Fresno	194	2819	357	3370	3172	1870*
Kern	6	351	73	430	357	430*
Big Creek/ Ventura	424	4816	369	5609	5609	2240
LA Basin	1080	8570	11	9661	9661	7529
San Diego/ Imperial Valley	2	4993	378	5373	4995	3332
<b>Total</b>	<b>3797</b>	<b>30767</b>	<b>1213</b>	<b>35777</b>	<b>35111</b>	<b>25462</b>

# Major Changes from last year studies

1. **Total 2027 LCR capacity need has decreased by about 698 MW or ~2.9%**
2. **2027 LCR needs decrease in: Kern and Fresno** due to load forecast decrease, **Bay Area** due to lower Path 15 flow, **Sierra** due to load allocation within the area and change in generation profile, **Stockton** due to new transmission projects and higher rating for limiting equipment, **LA Basin** due to new transmission projects, and **San Diego** due to new transmission project and location of new resources.
3. **2027 LCR needs increase in: Humboldt, North Coast/North Bay, Big Creek/Ventura** due to load forecast increase.

## Role and Purpose of sub-area LCR needs:

- Provide detail local procurement information
- Need to be satisfied in order to minimize ISO back-stop
- Sum of the parts may not equal the overall need

# 2027 Draft LCR Needs

	August Qualifying Capacity				Capacity Available at Peak	2027 LCR Need
Local Area Name	QF/ Muni (MW)	Non-Solar (MW)	Solar (MW)	Total (MW)	Total (MW)	Capacity Needed
Humboldt	0	178	0	178	178	147
North Coast/ North Bay	138	761	0	899	899	899*
Sierra	1206	698	5	1909	1904	1345*
Stockton	136	425	12	573	561	549*
Greater Bay	611	7156	8	7775	7775	7616*
Greater Fresno	194	2819	357	3370	3172	2179*
Kern	6	351	73	430	357	320
Big Creek/ Ventura	424	3334	369	4127	4127	1126
LA Basin	1080	6368	11	7459	7459	6131
San Diego/ Imperial Valley	2	4993	378	5373	4995	3369*
<b>Total</b>	<b>3797</b>	<b>27083</b>	<b>1213</b>	<b>32093</b>	<b>31427</b>	<b>23681</b>

# Near-Term LCR Study Schedule

## **CPUC and the ISO have determined overall timeline**

- Criteria, methodology and assumptions meeting Oct. 27, 2021
- Submit comments by November 10, 2021
- Base case development started in December 2021
- Receive base cases from PTOs January 2022
- Publish base cases January 14, 2022 – comments by Jan 28<sup>th</sup>
- Receive and incorporate CEC load forecast February 1-4<sup>th</sup>
- Draft study completed by March 7, 2022
- ISO Stakeholder meeting March 9, 2022 – comments by the 23<sup>rd</sup>
- ISO receives new operating procedures March 23, 2022
- Validate op. proc. – publish draft final report April 5, 2022
- ISO Stakeholder call April 12, 2022 – comments by the 22<sup>nd</sup>
- Final 2023 LCR report April 29, 2022



# 2022 ISO Procurement Schedule

## **Per ISO Tariff and BPM - overall timeline**

- Final LCR Report April 29, 2022
- LSE self-guided local allocation; May-June, 2022
- Receive new CEC coincident load forecast June 30, 2022
- ISO or CPUC to send out final local allocation; middle of July, 2022
- For any current RMR resource; LSEs to submit showings by 9/1/2022
- ISO to decide on retaining units under RMR by October 1, 2022
- Final LSE showings TBD – Usually last week of October, 2022
- ISO to send a market notice out stating deficiencies in procurement – about 3 weeks after final showing - about November 21, 2022
- ISO receives additional showing (30 days after market notice)
- ISO to enter back-stop procurement for local reasons (if needed)