



2023 & 27 Final LCR Study Results Summary of Findings

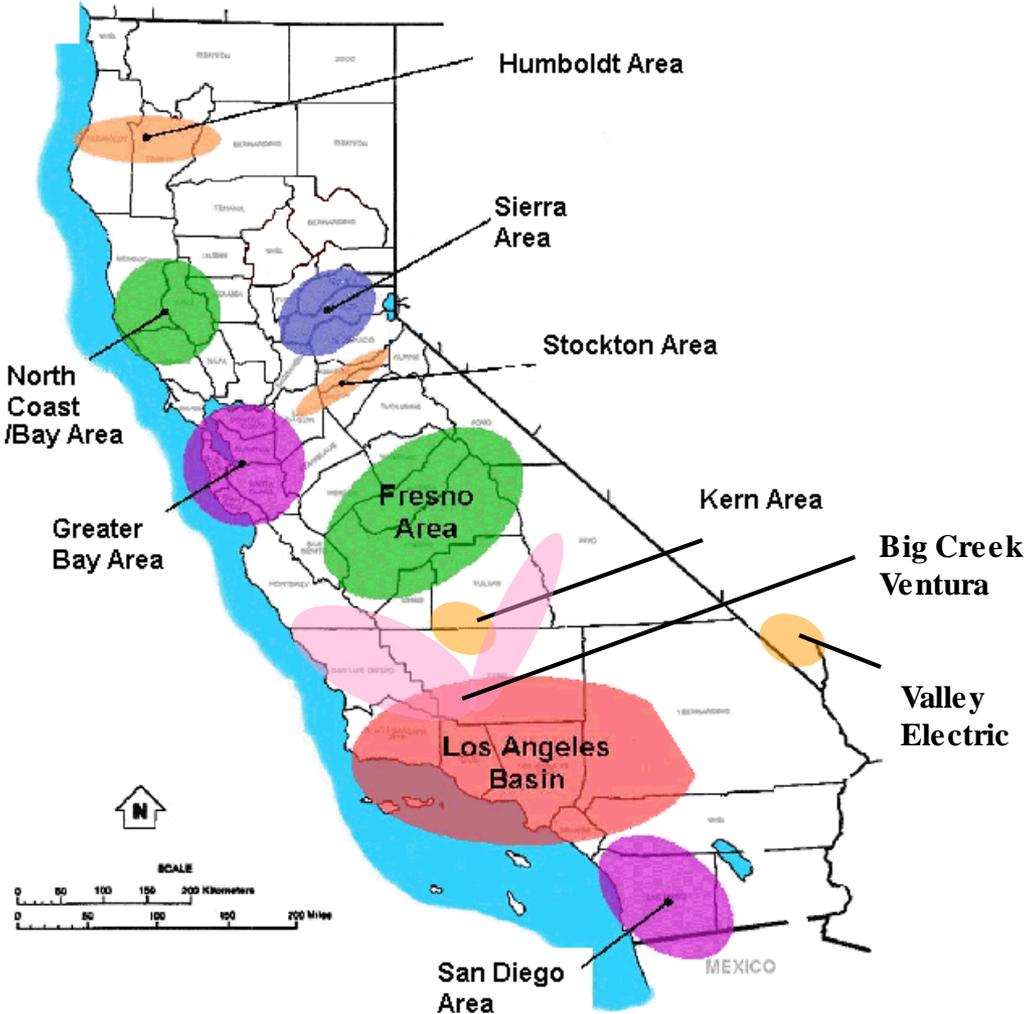
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Stakeholder Call

April 12, 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. **New NQC data – triggers small changes to “deficient” areas.**
2. **LCR results herein use CEC load forecast posted on 2/3/2022.**
3. **Total 2023 LCR capacity needed has increased by 336 MW or ~ 1.3%**
4. **2023 LCR needs decrease in: North Coast/North Bay and Fresno** due to load forecast decrease, **Sierra** due to change in resources NQC values, **Stockton** due to new line ratings and **San Diego-Imperial Valley** due to new transmission projects.
5. **2023 LCR needs increase in: Humboldt, 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 Final 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	773	0	911	911	857
Sierra	1206	698	5	1909	1904	1150*
Stockton	136	431	12	579	567	579*
Greater Bay	611	7151	8	7770	7770	7312*
Greater Fresno	216	2759	436	3411	2979	1870*
Kern	6	360	73	439	366	439*
Big Creek/ Ventura	407	4593	475	5475	5475	2240
LA Basin	1080	8570	11	9661	9656	7529
San Diego/ Imperial Valley	2	4960	396	5358	4962	3332
Total	3802	30473	1416	35691	34768	25449

Major Changes from last year studies

1. **Total 2027 LCR capacity need has decreased by about 756 MW or ~3.1%**
2. **2027 LCR needs decrease in: Kern and Fresno** due to load forecast decrease, **Bay Area** due to resource dispatch outside the area, **Sierra** due to change in resources NQC values, **Stockton** and **LA Basin** due to new transmission projects, and **San Diego** due to effective new resource additions.
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 Final 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	773	0	911	911	911*
Sierra	1206	698	5	1909	1904	1345*
Stockton	112	431	12	555	543	555*
Greater Bay	611	7151	8	7770	7770	7540*
Greater Fresno	216	2759	436	3411	2979	2179*
Kern	6	360	73	439	366	320
Big Creek/ Ventura	407	3321	475	4203	4203	1126
LA Basin	1080	6368	11	7459	7454	6131
San Diego/ Imperial Valley	2	5390	396	5788	5392	3369*
Total	3778	27429	1416	32623	31700	23623

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 28th
- Receive and incorporate CEC load forecast February 1-4th
- Draft study completed by March 7, 2022
- ISO Stakeholder meeting March 9, 2022 – comments by the 23rd
- 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 22nd
- 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)