



California ISO

2022 & 26 Draft LCR Study Results Summary of Findings

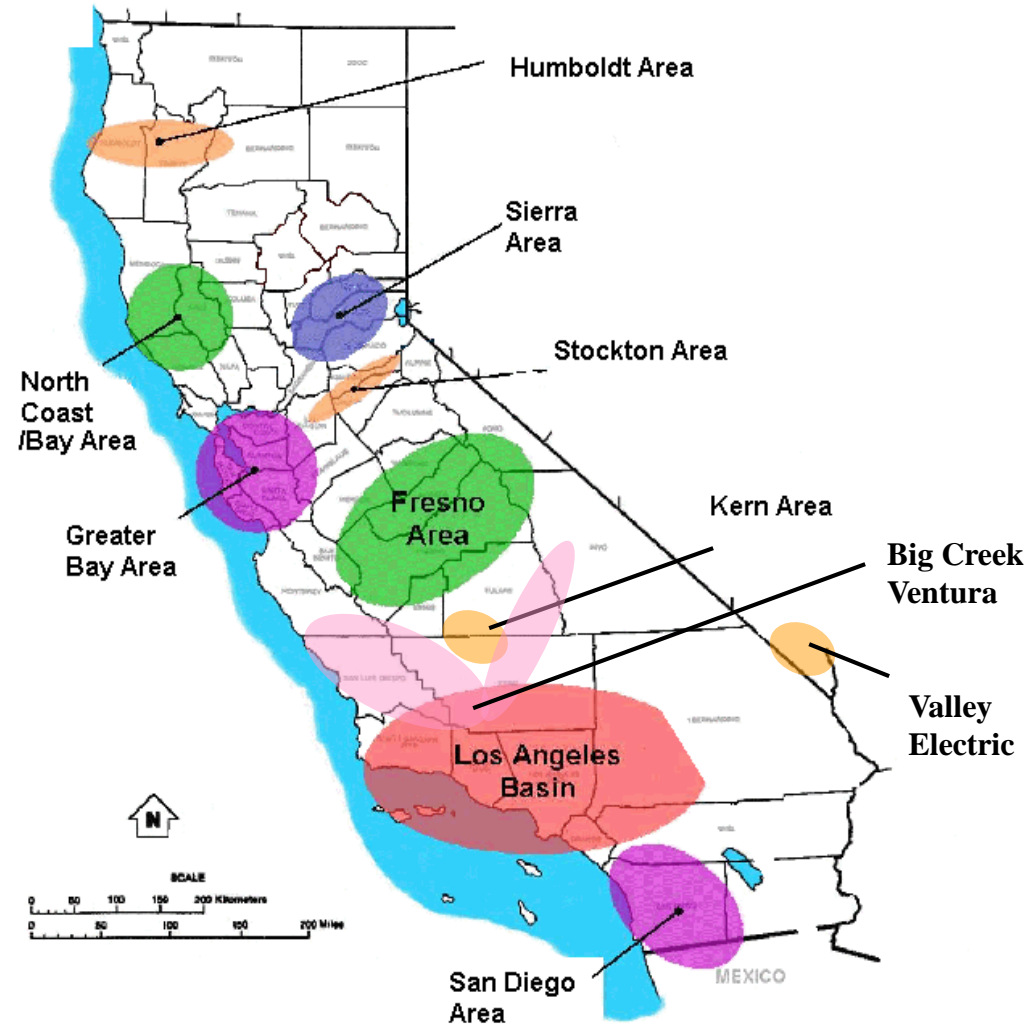
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Stakeholder Call

March 11, 2021

LCR Areas within CAISO



Input Assumptions, Methodology and Criteria

See November 3, 2020 stakeholder teleconference - for study assumptions, methodology and criteria. The latest information along with the 2022 LCR Manual can be found at:
<http://www.caiso.com/informed/Pages/StakeholderProcesses/LocalCapacityRequirementsProcess.aspx>.

Transmission system configuration – all-projects with EDRO up to June 1, 2022

Generation – all-generation with COD up to June 1, 2022

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

Retain Deficiency Calculation

1. ISO has eliminated the “Deficiency” from the summary tables.
2. Due to stakeholder requests ISO decided to continue calculating “Deficiency”.
3. Still estimated by using the most effective resource.
4. Deficiency is only presented in the detailed section of the report
 - calculated vs. available NQC and,
 - calculated vs. available capacity at peak.

Major Changes from last year studies

1. **Old 2020 NQC data.**
2. **LCR results herein use CEC load forecast posted on 1/29/2021.**
3. **Total 2022 LCR capacity needed has increased by 1203 MW or ~ 5.0%.**
4. **2022 LCR needs decrease in: Humboldt, Kern and Big Creek/Ventura due to load forecast decrease, Sierra due to load forecast decrease and new transmission projects.**
5. **2022 LCR needs increase in: North Coast/North Bay and Fresno due to load forecast increase, Bay Area due to load increase in San Jose (SVP), San Diego-Imperial Valley due to load forecast increase and higher imports from IID area, Stockton due to lower rating for the limiting equipment, LA Basin due to transmission configuration required for fault-duty mitigation during Mesa 500 kV loop-in project.**

2022 Draft LCR Needs

	August Qualifying Capacity				Capacity Available at Peak	2022 LCR Need
Local Area Name	QF/ Muni (MW)	Non-Solar (MW)	Solar (MW)	Total (MW)	Total (MW)	Capacity Needed
Humboldt	0	181	0	181	181	111
North Coast/ North Bay	119	723	0	842	842	842*
Sierra	1156	739	5	1900	1895	1220*
Stockton	139	445	12	596	584	593*
Greater Bay	604	7027	8	7639	7639	7423*
Greater Fresno	216	2815	361	3392	3191	1987*
Kern	5	330	78	413	335	375*
Big Creek/ Ventura	424	4454	250	5128	5128	2173
LA Basin	1197	8456	11	9664	9664	6646
San Diego/ Imperial Valley	2	4003	356	4361	4005	3993
Total	3862	29173	1081	34116	33464	25363

Major Changes from last year studies

1. **Total 2026 LCR capacity need has increased by about 2192 MW or ~9.9%.**
2. **2026 LCR needs decrease in: Big Creek/Ventura** due to decrease in load forecast, **San Diego** due to new transmission projects, **Humboldt** requirement is about the same.
3. **2026 LCR needs increase in: North Coast/North Bay** due to change in limiting contingency and element, **Sierra, Stockton and Kern** due to delay in transmission projects in-service dates, **Bay Area, Fresno and LA Basin** 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

2026 Draft LCR Needs

Local Area Name	August Qualifying Capacity				Capacity Available at Peak	2026 LCR Need
	QF/ Muni (MW)	Non-Solar (MW)	Solar (MW)	Total (MW)	Total (MW)	Capacity Needed
Humboldt	0	181	0	181	181	128
North Coast/ North Bay	119	723	0	842	842	842*
Sierra	1156	739	5	1900	1895	1690*
Stockton	139	445	12	596	584	596*
Greater Bay	604	6952	8	7564	7564	7564*
Greater Fresno	216	2815	361	3392	3191	2314*
Kern	5	330	78	413	335	413*
Big Creek/ Ventura	424	2963	250	3637	3637	982
LA Basin	1197	6215	11	7423	7423	6359
San Diego/ Imperial Valley	2	4438	378	4818	4440	3394
Total	3862	25801	1103	30766	30092	24282

Near-Term LCR Study Schedule

CPUC and the ISO have determined overall timeline

- Criteria, methodology and assumptions meeting Nov. 3, 2020
- Submit comments by November 17, 2020
- Base case development started in December 2020
- Receive base cases from PTOs January 2021
- Publish base cases January 15, 2021 – comments by Jan 29th
- Receive and incorporate CEC load forecast February 1-12th
- Draft study completed by March 9, 2021
- ISO Stakeholder meeting March 11, 2021 – comments by the 25th
- ISO receives new operating procedures March 25, 2021
- Validate op. proc. – publish draft final report April 1, 2021
- ISO Stakeholder call April 7, 2021 – comments by the 21th
- Final 2022 LCR report April 30, 2021



2021 ISO Procurement Schedule

Per ISO Tariff and BPM - overall timeline

- Final LCR Report May 1, 2021
- LSE self-guided local allocation; May-June, 2021
- Receive new CEC coincident load forecast June 30, 2021
- ISO or CPUC to send out final local allocation; middle of July, 2021
- For any current RMR resource; LSEs to submit showings by 9/6/2021
- ISO to decide on retaining units under RMR by October 1, 2021
- Final LSE showings TBD – Usually last week of October, 2021
- ISO to send a market notice out stating deficiencies in procurement – about 3 weeks after final showing - about November 21, 2021
- ISO receives additional showing (30 days after market notice)
- ISO to enter back-stop procurement for local reasons (if needed)

THANK YOU

Your comments and questions are welcome.

For written comments, please send to: RegionalTransmission@caiso.com

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