

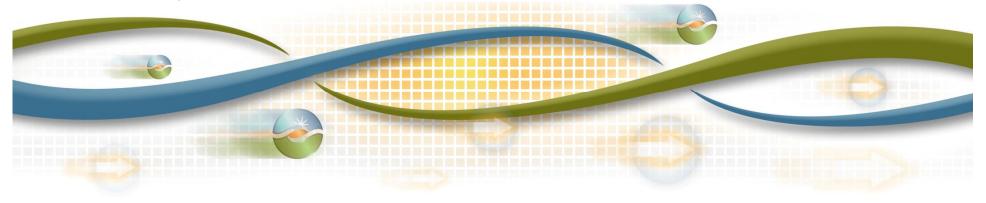
2014 and 2018 Final LCR Study Results - Summary of Findings

Catalin Micsa

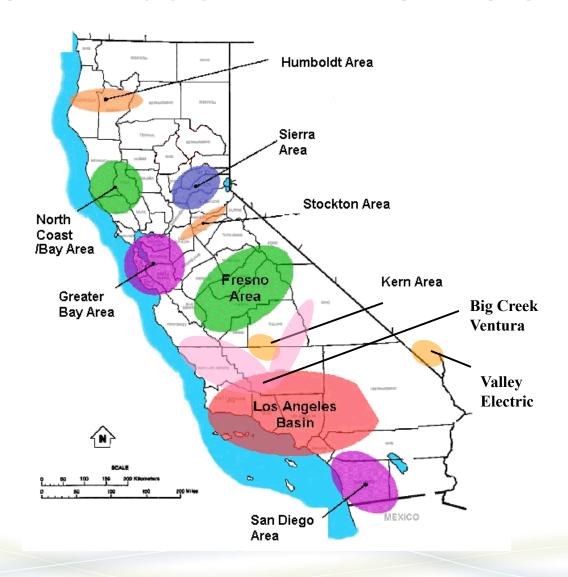
Lead Regional Transmission Engineer

Stakeholder Conference Call

April 4, 2013



LCR Areas within CAISO





Input Assumptions, Methodology and Criteria

See November 8, 2012 stakeholder meeting - for study assumptions, methodology and criteria. The latest information along with the 2014 LCR Manual can be found at:

http://www.caiso.com/Documents/2014LocalCapacityRequirementsFinalStudy Manual.pdf .

Transmission system configuration – all-projects with EDRO up to June 1, 2014

Generation – all-generation with COD up to June 1, 2014

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

Criteria – see report for details

Methodology

- 1. Maximize Imports Capability into the local area
- 2. Maintain path flows
- 3. Maintain deliverability for deliverable units
- 4. Load pocket fix definition
- 5. Performance levels B & C (if equal category B is most stringent)



Major Changes from last year studies

- 1. Updated NQC data.
- 2. Total LCR has increased by ~ 6% including deficiency or 3.4% else.
- 3. Big Creek/Ventura, North Coast/ North Bay and Valley Electric Association LCR needs are about the same as last year
- Humboldt and Kern decrease due to new transmission projects and decrease in load forecast.
- LCR needs increase in: Sierra, Stockton, Bay Area, LA Basin, Fresno and San Diego due to load growth.
- **6. San Diego** LCR needs have increased significantly due to absence of SONGS
- SONGS sensitivity applied to impacted local areas and sub-areas.

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



Total 2014 Final LCR Needs

	Qualifying Capacity			2014 LCR Need Based on Category B			2014 LCR Need Based on Category C with operating procedure		
Local Area Name	QF/ Muni (MW)	Market (MW)	Total (MW)	Existing Capacity Needed	Defici ency	Total (MW)	Existing Capacity Needed**	Defici	Total (MW)
Humboldt	70	173	243	145	0	145	195	0	195
North Coast/ North Bay	150	771	921	623	0	623	623	0	623
Sierra	1288	762	2050	1414	0	1414	1803	285*	2088
Stockton	212	392	604	354	25*	379	446	255*	701
Greater Bay	1336	6280	7616	3747	0	3747	4423	215*	4638
Greater Fresno	318	2510	2828	1857	0	1857	1857	0	1857
Kern	613	64	677	421	14*	435	421	41*	462
LA Basin	2242	9547	11789	10063	0	10063	10430	0	10430
Big Creek/Ventura	1112	4206	5318	2156	0	2156	2250	0	2250
Greater San Diego/ Imperial Valley***	200	4506	4706	3605	167*	3772	3605	458*	4063
Total	7541	29211	36752	24385	206	24591	26053	1254	27307



Total 2018 Final LCR Needs

	Qualifying Capacity			2018 LCR Need Based on Category B			2018 LCR Need Based on Category C with operating procedure		
Local Area Name	QF/ Muni (MW)	Market (MW)	Total (MW)	Existing Capacity Needed	Defici ency	Total (MW)	Existing Capacity Needed**	Detici	Total (MW)
Humboldt	70	173	243	149	0	149	197	0	197
North Coast/ North Bay	150	771	921	424	0	424	424	0	424
Sierra	1288	762	2050	864	26*	890	1114	39*	1153
Stockton	308	392	700	284	0	284	374	44*	418
Greater Bay	1426	6932	8358	3860	0	3860	4478	8*	4486
Greater Fresno	318	2510	2828	2110	0	2110	2110	0	2110
Kern	613	64	677	421	26*	447	421	53*	474
LA Basin	4488	9547	14035	9882	0	9882	11071	0	11071
Big Creek/Ventura	1112	4206	5318	2397	0	2397	2688	0	2688
Greater San Diego/ Imperial Valley	262	5914	6176	3310	2*	3312	3310	52*	3362
Total	10035	31271	41306	23701	54	23755	26187	196	26383



2014 and 2018 LCR Study Schedule

CPUC and the ISO have determined overall timeline

- Criteria, methodology and assumptions meeting Nov. 8, 2012
- Submit comments by November 22, 2012
- Posting of comments with ISO response by the January 15, 2013
- Base case development started in December 2012
- Receive base cases from PTOs January 3, 2013
- Publish base cases January 15, 2013 comments by the 29th
- Draft study completed by March 4, 2013
- ISO Stakeholder meeting March 7, 2013
- ISO receives new operating procedures March 21, 2013
- Validate op. proc. publish draft final report March 28, 2013
- ISO Stakeholder meeting April 4, 2013 comments by the 18th
- Final 2014 LCR report May 1, 2013





2013 ISO Procurement Schedule

Per ISO Tariff and BPM - overall timeline

- Final 2014 LCR Report May 1, 2013
- LSE self-guided local allocation; first week in May, 2013
- Receive new CEC coincident load forecast June 30, 2013
- ISO or CPUC to send out final local allocation; middle of July, 2013
- If Oakland under contract; LSEs to submit showings by 9/13/2013
- ISO to decide on retaining units under RMR by October 1, 2013
- Final LSE showings TBD Usually last week of October, 2013
- ISO to send a market notice out stating deficiencies in procurement about 3 weeks after final showing - about November 22, 2013
- ISO receives additional showing (30 days after market notice)
- ISO to enter back-stop procurement for local reasons (if needed)

Your comments and questions are welcome.

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

