

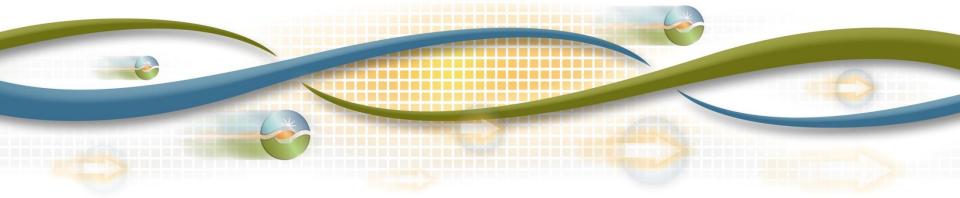
2016 and 2020 Draft LCR Study Results - Summary of Findings

Catalin Micsa

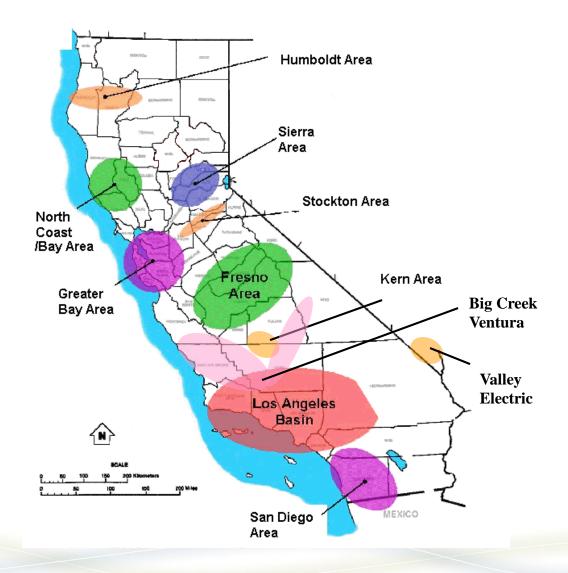
Lead Regional Transmission Engineer

Stakeholder Meeting

March 9, 2015



LCR Areas within CAISO





Input Assumptions, Methodology and Criteria

See October 30, 2014 stakeholder teleconference - for study assumptions, methodology and criteria. The latest information along with the 2016 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, 2016

Generation – all-generation with COD up to June 1, 2016

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. Same (old) NQC data will be updated before next meeting.
- 2. Total LCR needs have decreased by 766 MW or ~ 2.9% (2016) and increased by 620 MW or ~2.7% (2020).
- 3. 2016 LCR needs decrease in: LA Basin, Sierra due to decrease in load forecast, Bay Area due to combination of decrease in load forecast and new sub area requirements and San Diego due to load forecast and transmission projects.
- 4. 2016 LCR needs increase in: Humboldt, Stockton, Fresno and Kern due to load growth, North Coast/North Bay due to lower Pittsburg sub area requirements, and Big Creek/Ventura due to decrease in LA Basin needs.

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 2016 Draft LCR Needs

		2016 LCR Need Based					2016 LCR Need Based			
Qualifying Capacity			on Category B			on Category C with				
		, G superior,			J			operating procedure		
Local Area Name	QF/ Muni (MW)	Market (MW)	Total (MW)	Existing Capacity Needed	Defici ency	Total (MW)	Existing Capacity Needed**	DNCV	Total (MW)	
Humboldt	36	171	207	118	0	118	167	0	167	
North Coast/ North Bay	130	771	901	611	0	611	611	0	611	
Sierra	1299	771	2070	1139	0	1139	1765	247*	2012	
Stockton	197	392	589	357	0	357	426	372*	798	
Greater Bay	1262	6243	7505	3790	0	3790	4204	135*	4339	
Greater Fresno	316	2532	2848	2445	0	2445	2445	50*	2495	
Kern	408	87	495	299	0	299	485	0	485	
LA Basin	2208	8985	11193	7576	0	7576	8887	0	8887	
Big Creek/Ventura	1160	4203	5363	2141	0	2141	2398	0	2398	
San Diego/ Imperial Valley	219	4328	4547	2850	0	2850	3250	137*	3387	
Total	7235	28483	35718	21326	0	21326	24638	941	25579	



Total 2020 Draft LCR Needs

	Qualifying Capacity			2020 LCR Need Based on Category B			2020 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**	DNCV	Total (MW)
Humboldt	36	171	207	121	0	121	170	0	170
North Coast/ North Bay	130	771	901	202	0	202	509	0	509
Sierra	1299	771	2070	1632	0	1632	1688	32*	1720
Stockton	295	392	687	246	0	246	338	63*	401
Greater Bay	1262	5589	6851	3820	0	3820	4191	0	4191
Greater Fresno	316	2532	2848	1471	0	1471	1867	7*	1874
Kern	225	87	312	132	0	132	135	0	135
LA Basin	2207	8985	11192	7978	0	7978	9229	0	9229
Big Creek/Ventura	1160	4203	5363	2598	0	2598	2598	0	2598
San Diego/ Imperial Valley	219	4004	4223	2868	0	2868	2868	101*	2969
Total	7149	27505	34654	21068	0	21068	23593	203	23796



2016 and 2020 LCR Study Schedule

CPUC and the ISO have determined overall timeline

- Criteria, methodology and assumptions web conf. Oct. 30, 2014
- Submit comments by November 13, 2014
- Posting of comments with ISO response by the December 1, 2014
- Base case development started in December 2014
- Receive base cases from PTOs January 3, 2015
- Publish base cases January 15, 2015 comments by the 29th
- Draft study completed by March 3, 2015
- ISO Stakeholder Meeting March 9, 2015 comments by the 23rd
- ISO receives new operating procedures March 23, 2015
- Validate op. proc. publish draft final report April 7, 2015
- ISO Stakeholder Web Conf. April 14, 2015 comments by the 28th
- Final 2016 LCR report April 30, 2015





2015 ISO Procurement Schedule

Per ISO Tariff and BPM - overall timeline

- Final LCR Report April 30, 2015
- LSE self-guided local allocation; first week in May, 2015
- Receive new CEC coincident load forecast June 30, 2015
- ISO or CPUC to send out final local allocation; middle of July, 2015
- If Oakland under contract; LSEs to submit showings by 9/15/2015
- ISO to decide on retaining units under RMR by October 1, 2015
- Final LSE showings TBD Usually last week of October, 2015
- ISO to send a market notice out stating deficiencies in procurement about 3 weeks after final showing - about November 21, 2015
- 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

