

Local Capacity Requirements Technical Analysis and Procurement Issues

Market Surveillance Committee Meeting July 7, 2005

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CALIFORNIA ISO **Resource Adequacy Requirement: Deliverability**

California Independent **System Operator**

- Established by October 28, 2004 CPUC decision
- Three types of Deliverability requirement:
 - Imports (Maximum Import Limits)
 - Generation Pockets (Maximum Generation Limits)
 - Load Pockets (Minimum Generation) Requirements)
 - Also called Local Resource Adequacy Requirements ("LRAR")

July 7, 2005 MSC Meeting 2



LRAR for Local Capacity Areas (1)

- CPUC requires LSEs to procure enough resources within transmission-constrained areas. (beginning June 2006)
- Annual CAISO technical analysis defines areas and MW requirements.
- LRAR obligations allocated among LSEs within those Local Capacity Areas.

July 7, 2005 MSC Meeting 3



LRAR for Local Capacity Areas (2)

- CAISO intends to phase out RMR.
- LSEs have flexibility to contract for resources, so the capacity that's procured may not fully meet CAISO reliability needs in each area. (?)
- CAISO will develop Local Area Reliability Contract (LARC) for "backstop" reliability role.

July 7, 2005 MSC Meeting 4



CALIFORNIA ISO California Independent **System Operator Local Capacity Technical Analysis** -- The Bottom Line -- (1)

- The results of this preliminary study show:
 - MWs requirements within Local Capacity Areas that are higher than current RMR contracts.
 - Additional areas that are identified, due to transmission constraints, beyond those already established in Local Area Reliability Service (LARS) studies.

July 7, 2005 5 MSC Meeting

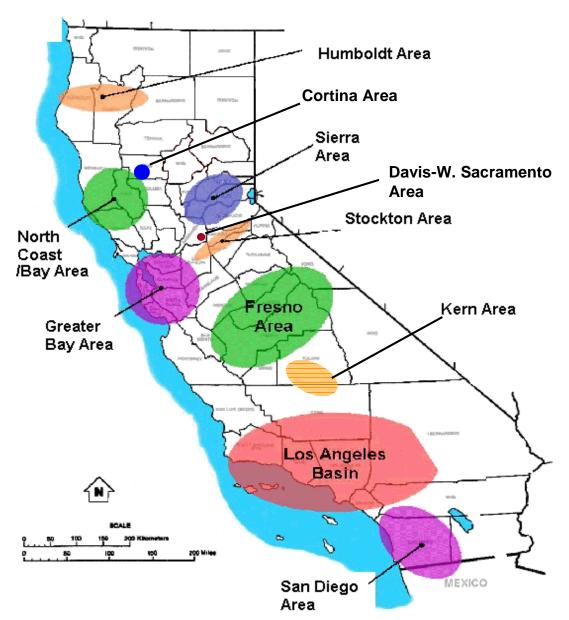


CALIFORNIA ISO California Independent **System Operator Local Capacity Technical Analysis** - The Bottom Line – (2)

- Compared to RMR/LARS studies, LRAR technical analysis uses different criteria and assumptions to identify and determine the MWs needed in each Local Capacity Area:
 - LRAR includes simultaneous and overlapping contingencies that require generators inside the load pockets.
 - LRAR studies assumes a 1 in 10 summer peak load level. (vs. 1 in 5)

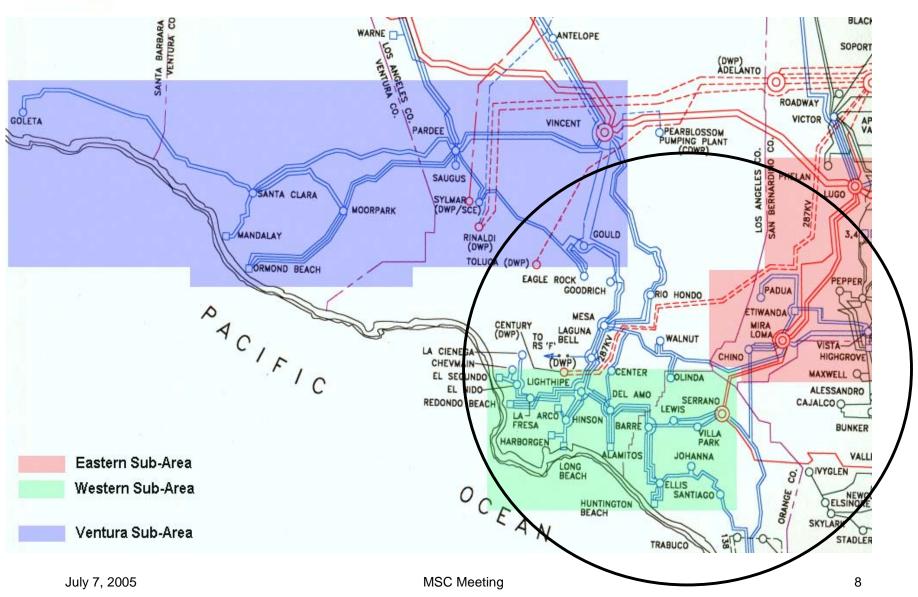
July 7, 2005 6 MSC Meeting





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Comparison of MW Requirement for 2006 RMR and LCR

	2005			
	RMR/	2006	2006 LCR without	
Local Area Name	MO	RMR/MO	Muni & QFs	2006 LCR
Humboldt	124	125	126	162
North Coast / North Bay	517	273	518	658
Sierra	384	468	662	1587*
Cortina	N/A	N/A	0	25
Davis/W. Sac.	N/A	N/A	0	25*
Stockton	57	100	154	449
Greater Bay	4000	4000	4600	5769
Fresno	3220	2522	3672	4325*
Kern	N/A	N/A	797	797*
LA Basin	1390	2120**	5300***	
	4700	2930		8627
San Diego	2019	2369	2434	2620
Total	16411	17429	18263	25044

All Values shown in MW

^{*} Generation deficient areas

^{**} Exact amount to be determined through LARS

^{***} Without San Onofre NPP



Initial Review of Local Market Power in Major Local Areas

Local Area	Supply	LCR	Pivtol Players (RSI)
San Die go	2,095	2,434	Dynergy (.39), Duke (.57), CalPeak (.80)
Western LA Basin	5,057	4,450	AES/Williams (.21), Dynegy (.99)
Eastern LA Basin	1,696	850 3	SCE (.75)
Bay Area	8,590	4,600*	?
	15,343	12,334	

^{*}Further analysis being done to identify more detailed requirements for "sub-pockets" within area.

July 7, 2005 MSC Meeting 10



Next Steps

- July 8, 2005 Initial comments due on CPUC workshop report.
- July 12, 2005 Stakeholder comments on Local Capacity Areas to CAISO.
- July 20, 2005 Second stakeholder meeting on Local Capacity Areas?
- July 29, 2005 CAISO posts final Local Capacity Technical Analysis, as well as Phase I Baseline Deliverability Study.
- October 2005 CPUC Order?
- Late 2005 LSE's begin RA procurement for June 2006?