

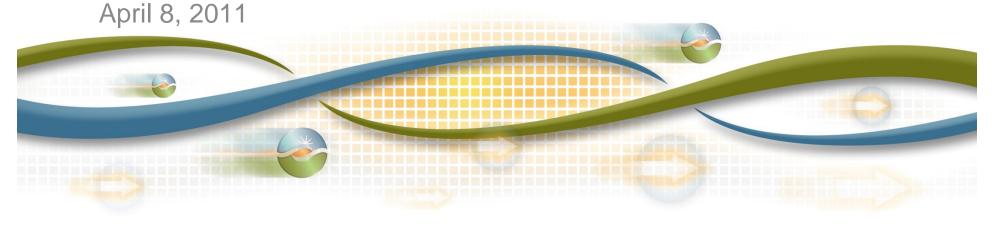
# Overview of ISO Grid Reliability Report – 2011 Local Capacity Technical Analysis

Neil Millar

Executive Director

Market & Infrastructure Development

SACCWIS Meeting



## Local Capacity Technical Analysis Study Scope, Methodology and Input Assumptions

- The scope of the LCR studies is to reflect the minimum resource capacity needed in transmission constrained areas in order to meet the established criteria.
- Used for one year out RA compliance, as well as longterm look in order to guide LSE procurement.
- For latest study assumptions, methodology and criteria see the November 10, 2010 stakeholder meeting. This information along with the 2012 LCR Manual can be found at:
  - http://www.caiso.com/18a3/18a3d40d1d990.html.



#### Transparency Efforts of the LCTA Study

- Base Case Disclosure
  - ISO has published the 2012 LCR base cases and will publish the 2014-16 LCR base cases on the ISO protected web site

(https://portal.caiso.com/tp/Pages/default.aspx)

- Remember to execute WECC/ISO non-disclosure agreements (<a href="http://www.caiso.com/1f42/1f42d6e628ce0.html">http://www.caiso.com/1f42/1f42d6e628ce0.html</a>)
- Publication of Study Manual (Plan)
  - Provides clarity and allows for study verification
     (<a href="http://www.caiso.com/2867/286794795d0b0.pdf">http://www.caiso.com/2867/286794795d0b0.pdf</a>)
- ISO to respond in writing to questions raised (also in writing) during stakeholder process

(http://www.caiso.com/1c44/1c44b8e0380a0.html)



### Local Capacity Requirements Criteria

- The LCR study is a planning function that currently forecasts local operational needs (i.e., minimum generation capacity requirements) one year in advance
- The LCR study relies on both:
  - ISO/NERC/WECC Planning Standards
  - WECC Minimum Operating Reliability Criteria (MORC)
- Applicable Ratings Incorporate:
  - ISO/NERC/WECC Planning Standards Thermal Rating
  - WECC MORC Path Rating



Local Capacity Requirement (LCR) Areas Having OTC Plants within ISO Legend: 2011 LCR for specific area (Category B/C Requirements) Legend Coastal Power Plants Local Reliability Areas (generalized) Local Capacity Requirement Area **Humboldt Bay** 147/205 MW North Coast/ North Bay **Drawing Courtesy Jones & Stokes Greater Bay Area** 4036/4878 MW •Total 10 LCR Areas Moss Landing •5 LCR Areas have OTC plants •1 LCR Area with OTC plant has re-powering project (Humboldt) that satisfies OTC Policy requirement •Local Capacity Requirement = Minimum capacity requirement to maintain national Diablo Canyor and regional reliability criteria Biq Creek/Ventura Mandalay Ormond Beach 2786 MW San Diego Redondo Reach 3146/3207 MW Harbor Haynes Alamitos L.A. Basin SONGS Huntington Beach 10,589 MW

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# Total 2011 Local Capacity Requirement Needs

	Qualifying Capacity			2011 LCR Need Based on Category B			2011 LCR Need Based on Category C with operating procedure		
Local Area Name	QF/ Muni (MW)	Market (MW)	Total (MW)	Existing Capacity Needed	Deficiency	Total (MW)	Existing Capacity Needed	Deficiency	Total (MW)
Humboldt	57	166	223	147	0	147	188	17	205
North Coast / North Bay	133	728	861	734	0	734	734	0	734
Sierra	1057	759	1816	1330	313	1643	1510	572	2082
Stockton	267	259	526	374	0	374	459	223	682
Greater Bay	1210	5296	6506	4036	0	4036	4804	74	4878
Greater Fresno	485	2434	2919	2200	0	2200	2444	4	2448
Kern	699	9	708	243	0	243	434	13	447
LA Basin	4206	8103	12309	10589	0	10589	10589	0	10589
Big Creek/ Ventura	1196	4110	5306	2786	0	2786	2786	0	2786
San Diego	194	3227	3421	3146	0	3146	3146	61	3207
Total	9504	25091	34595	25585	313	25898	27094	964	28058





