



## California Energy Commission

# Staff Presentation on Electricity Resource Plans Forms and Instructions

Prepared in Support of the *2009 Integrated Energy Policy Report*

Docket 09-IEP-1B  
November 13, 2008

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<b>DOCKET</b> <b>09-IEP-1B</b>
DATE <u>NOV 13 2008</u>
RECD. <u>NOV 18 2008</u>



# Staff Proposed Data Request

Staff is requesting historical and forecast electricity supply data from all POUs and from all other LSEs with annual peak demand > 200 MW.

- Filings are due by Feb. 13, 2009.
- Instructions and procedures for requesting confidentiality are summarized in ***Forms And Instructions For Submitting Electricity Resource Plans—Staff Draft Report.*** (CEC-100-2008-011-SD).



# Electricity Resource Plans Have Statewide Aggregate Values

- Assess generation system infrastructure
- Identify major statewide trends and needs
- See outlook for EE, DSM, and RPS progress
- Quantify expected resource additions
- Gain insights on system reliability by timely procurement and resource adequacy rules
- Recognize repowering & retirement potentials



# Assumptions and Expectations Behind the Data to be Provided

- LSEs asked to include realistic estimates
- Specify capacity counting conventions
- LSE's Planning Reserve Margin is explicit
- Data should match filings to BA & WECC
- Will future generic energy be deliverable ?



# Aggregated Data is Preferred:

- Load calculation adjustments from new DSM, new CSI, uncommitted EE, load migration
- Utility-owned hydro  $> 30$  MW or  $\leq 30$  MW
- QF Resources by technology types
- DG resources (renewable & non)
- Generic resource needs (renewable & non)
- Contractual resources under 1 MW or numerous contracts from 1 supplier



# Major Changes from 2007

- Early collaboration with CPUC and IOUs on forms
- Dispatchable DSM is all shown as load adjustments
- S-1 (MW) and S-2 (GWh) forms only ask for annual data — now 2009-2018
- Annual MW and GWh also requested for 2007 and 2008 (on the S-1 and S-2 forms)
- LSE Non-Coincident Peak Load and *Adjusted* Non-Coincident Peak Load for 2007 & 2008
- Monthly forecast MW and GWh for only 2010 from all POUs and all other > 200 MW LSEs



# Minor Changes from 2007

- Coincident Peak-Hour Adjustment line added  
Supply Form S-1, line 11
- Hydro Capacity now 1-in-5, Energy still 1-in-2
- Nuclear split from utility-controlled fossil resources
- LSE input data is in dark green font (or red)
- Sub-total lines self-generate (shown in bold font)
- Resource Need typology much simplified on S-1  
Supply Form S-1, line 25 (vs. baseload, load-following and peaking, year-round load-following, seasonal peaking in 2007)



# Form S-1 Capacity Resource Accounting Table (CRATS)

- Column C categories largely unchanged from 2007  
Blue font = new: line 12a Imports That Carry Own Reserves
- Sub-totals for each category are listed first  
example: line 15a Total Fossil Capacity  
add lines for individual fossil resources as needed
- **New:** Actual Peak Load for 2007 & 2008 & how supplied  
requested from small POUs & all > 200 MW LSEs  
reduce data request to S-1 lines 9 —14 ?  
change to *ex ante* data request to begin next year ?
- **New:** Non-Coincident Peak Load data 2007 & 2008  
requested from small POUs & all > 200 MW LSEs





# Form S-2 Energy Balance Resource Accounting Table

- Form S-2 also largely unchanged from 2007
  - New: line 27 Total Retail Sales
  - line 20: combines Short Term and Spot Market Purchases
  - line 22: (LSE Energy Need) or Surplus need not = line 25
- Renewable Energy Accounting data mostly self-generates
  - only line 26f requires LSE data input (discretionary)
  - estimate procurement & sales data (need not = “certified”)
- **New:** Annual energy demand for 2007 & 2008 & how supplied
  - requested from small POUs & all > 200 MW LSEs
  - supply data may be difficult to compile *ex post*
  - reduce data request to S-2 lines 9 —11 ?
  - change to *ex ante* data request to begin next year ?



# Form S-3 Recorded Hourly Loads for 2008 from Small POUs

- Simplified version of CEC Demand Form 1.6a
- Small POUs not required to use Demand forms
- Actual hourly demand (average MW) x 8,784
- Measured at balancing area take-out point
- PST year-round (no daylight savings time changes)



# Form S-5 Bilateral Contracts / Power Purchase Agreements

- Includes all contracts & agreements over 90 days
- OK to aggregate contracts each under 10 MW
- Be specific: Delivery Point(s) & Locational Attributes
- Categories unchanged but rearranged
- Separate tab (not file) requested for each contract



# Supply Form S-1 Monthly for 2010

- Mid-size & large LSEs provided 120 months in 2007
- Request to small POU is new and unexpected
- Coincident Peak demand calculations require data from all LSEs in CA ISO
- Require only Peak Load Calculations?

Form S-1 Monthly, lines 1 — 14

Delete requirement to project supply resources?



# Supply Form S-2 Monthly for 2010

- Mid-size & large LSEs provided 120 months in 2007
- New request to small POUs this year, may be difficult
- Assessment benefits from data are modest
- Require only Energy Demand Calculations?

Form S-2 Monthly, lines 1 — 11

Delete requirement to project supply resources?



# IOUs and Contractual Procurement Progress — Narrative Explanations

- Delineate assumptions & expectations for future generic resources *2009-2018*
- Explain current procurement processes with lapse times and success rates
- Assess patterns of contract “failures” and delays
- Elucidate assumptions for grid expansion & RECs
- Identify expected values of energy market drivers affecting procurement, DG and self-gen



# POUs and Resource Adequacy (RA) Progress — Narrative Protocols

- Goal is to update the *Progress Report on Resource Adequacy Among Publicly Owned LSEs in CA* (CEC 200-2007-016)
- Detailed descriptions of RA obligations, standards, planning and procurement protocols
- Adopted policies and definitions
  - Planning Reserve Margin, MW counting conventions
- Nexus to operating reserves, system or local reliability



# LSE Requests for Confidentiality

- Follow filing instructions in Appendix 1 (pages 57-59)
- Clearly describe & ID data: use *yellow fill / highlight*
- Citations & non-disclosure justifications
- Sign “penalty of perjury” certification
- Correct defects within 14 calendar days
- Section 2505 (a) (4) allows applicants to simply identify “information that is substantially similar to information that was previously deemed confidential” if the relevant “facts and circumstances” “remain unchanged.”





# CEC Staff Request for Comments

- Nov 14 for written comments to be docketed
- Nov 19 for informal calls and emails
- Posting of final proposed forms and instructions planned for Nov 21 to 25 prior to...
- Dec 3 adoption by the Commission