

Southern California Edison
2012 LTPP R.12-03-014

DATA REQUEST SET R.12-03-014 CEJA-SCE-002

To: CEJA
Prepared by: Megan Mao
Title: Manager, MS\$RP
Dated: 07/23/2012

Question 01:

On page 3 of SCE's Supplemental Testimony, SCE states that it "will provide its assumptions on the availability of preferred resources in any application that it submits seeking approval of LCR procurement." What are SCE's current assumptions of available preferred resources? If SCE cannot provide preferred resource assumptions, please state what SCE believes the Commission should rely on to determine the preferred resource assumptions.

Response to Question 01:

SCE has not scoped out its analysis on any potential application seeking approval of LCR procurement; hence, SCE currently does not have assumptions on availability of preferred resources. SCE believes the Commission should rely on the latest available information on preferred resources at the time of the analysis.

Southern California Edison
2012 LTPP R.12-03-014

DATA REQUEST SET R.12-03-014 CEJA-SCE-002

To: CEJA

Prepared by: Carl Silsbee

Title: Manager of Resource Policy and Economics

Dated: 07/23/2012

Question 05:

In its reply testimony, SCE states that “As with EE, the Western LA Basin is predominately in a cooler coastal climate zone that may diminish the opportunities to use DR for local needs.” SCE Reply Test. at p. 13.

Please provide data used by SCE in developing the above statement. Specifically, please provide information on the rate of air conditioning use in the Western LA Basin and the rate of DR use in the Western LA Basin.

Response to Question 05:

This is a statement of general knowledge and was not based on any specific data. The witness has lived in Southern California most of his life, in both coastal and inland areas, and is familiar with regional weather patterns as a result. However, CEJA may wish to review the California building climate zones (see a map of the climate zones at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html) work undertaken by the California Energy Commission (CEC) and the Database for Energy Efficiency Resources (see the Database for Energy Efficiency Resources (DEER) <http://www.energy.ca.gov/deer/>) work undertaken by the California Public Utilities Commission (CPUC). The aforementioned work details California's climate zones, and shows the EE savings associated with weather sensitive energy savings by climate zone .

Southern California Edison
2012 LTPP R.12-03-014

DATA REQUEST SET R.12-03-014 CEJA-SCE-002

To: CEJA

Prepared by: Carl Silsbee

Title: Manager of Resource Policy and Economics

Dated: 07/23/2012

Question 06:

In its reply testimony, SCE states that “Based on the California Energy Commission’s 2011 Integrated Energy Policy Report, the entire State may only require an additional 3,017 MW of localized energy resources beyond what is necessary, and already considered to meet the goals of other renewable energy programs. Only a subset of this additional statewide localized energy resource development would be located in the LA Basin and Big Creek/Ventura areas.” SCE Reply Test. at p. 13-14.

Please provide data used by SCE to support its statement that “Only a subset of this additional statewide localized energy resource development would be located in the LA Basin and Big Creek/Ventura areas.” Specifically, please provide any forecasts or estimates of localized renewable energy resource development the SCE has relied on in formulating this statement, or any other pertinent information.

Response to Question 06:

The statement is not based on any specific forecasts of localized energy resource development. It reflects the reasonable expectation that additional localized renewable resources will be dispersed throughout the state. See for instance, the cited 2011 IEPR at page 33, which shows preliminary regional DG targets apportioning 4000 MW and 470 MW of localized energy resources (out of 12,000 MW) to Los Angeles and Orange counties, respectively, including areas outside the CPUC's jurisdiction (principally the Los Angeles Department of Water and Power).

Southern California Edison
2012 LTPP R.12-03-014

DATA REQUEST SET R.12-03-014 CEJA-SCE-002

To: CEJA
Prepared by: Megan Mao
Title: Manager, MS&RP
Dated: 07/23/2012

Question 09.a.i-vi:

(A) SCE stated that CAISO's assumptions are generally reasonable. Does SCE understand CAISO's assumptions for the Western LA Basin to include the following:

- i. No demand response is available, and
- ii. No distributed generation beyond the assumptions from the 2010 LTPP Scoping Memo assumptions is available, and
- iii. No uncommitted energy efficiency is available, and
- iv. No energy storage is available, and
- v. All the OTC plants in the LCR area retire, and
- vi. No incremental CHP is available, and

Response to Question 09.a.i-vi:

Yes, SCE understands CAISO's resource assumptions used for the LCR analysis for the Western LA Basin.

Southern California Edison
2012 LTPP R.12-03-014

DATA REQUEST SET R.12-03-014 CEJA-SCE-002

To: CEJA
Prepared by: Mark Minick
Title: Manager of Resource Planning
Dated: 07/23/2012

Question 09.b-c:

(B) If SCE has a different understanding of what CAISO's assumptions are, please list SCE's understanding of CAISO's assumptions and how they differ from what is stated in (i) through (viii) above.

(C) Does SCE specifically find that it is reasonable to assume that all of the above assumptions will occur at the same time, and to use this as a basis to give SCE authority to procure new generation for the Western LA Basin?

Response to Question 09.b-c:

B. SCE does not have a different understanding of CAISO's assumptions.

C. The LCR analysis is based on FERC-approved tariff and the NERC reliability standards and WECC regional criteria. Neil Millar in CAISO's reply testimony (Neil Millar, page 4) answers this question well. He states: "The deterministic test is exactly that - a test. It is not an assessment of every possible operating condition and the anticipated system response to each possible operating condition." SCE understands the uncertainty surrounding these assumptions; hence we have asked the Commission to grant purchasing flexibility in the amount of generation that will be needed to meet future LCR.

Southern California Edison
2012 LTPP R.12-03-014

DATA REQUEST SET R.12-03-014 CEJA-SCE-002

To: CEJA
Prepared by: Megan Mao
Title: Manager, MS&RP
Dated: 07/23/2012

Question 10.a.i-vi:

(A) SCE stated that CAISO's assumptions are generally reasonable. Does SCE understand CAISO's assumptions for the LA Basin to include the following:

- i. No demand response is available, and
- ii. No distributed generation beyond the assumptions from the 2010 LTPP Scoping Memo assumptions is available, and
- iii. No uncommitted energy efficiency is available, and
- iv. No energy storage is available, and
- v. All the OTC plants in the LCR area retire, and
- vi. No incremental CHP is available, an

Response to Question 10.a.i-vi:

Yes, SCE understands CAISO's resource assumptions used for the LCR analysis for the LA Basin.

Southern California Edison
2012 LTPP R.12-03-014

DATA REQUEST SET R.12-03-014 CEJA-SCE-002

To: CEJA
Prepared by: Mark Minick
Title: Manager of Resource Planning
Dated: 07/23/2012

Question 10.b-c:

(B) If SCE has a different understanding of what CAISO's assumptions are, please list SCE's understanding of CAISO's assumptions and how they differ from what is stated in a through above.

(C) Does SCE specifically find that it is reasonable to assume that all of the above assumptions will occur at the same time, and to use this as a basis to give SCE authority to procure new generation for the Western LA Basin?

Response to Question 10.b-c:

Please see response to question 9 B and C.

Southern California Edison
2012 LTPP R.12-03-014

DATA REQUEST SET R.12-03-014 CEJA-SCE-002

To: CEJA
Prepared by: Megan Mao
Title: Manager
Dated: 07/23/2012

Question 11:

On page 4 of its reply testimony, SCE states that it plans to "alter its LCR procurement need to reflect the development CHP systems (and other resources) that meet or ameliorate the LCR need." Please explain in detail the analysis that SCE plans to perform and when this analysis will be completed.

Response to Question 11:

SCE has not yet scoped out its analysis, thus, it cannot make a determination as to when the analysis will be completed at this point.

Southern California Edison
2012 LTPP R.12-03-014

DATA REQUEST SET R.12-03-014 CEJA-SCE-002

To: CEJA
Prepared by: Megan Mao
Title: Manager
Dated: 07/23/2012

Question 12:

On page 20 of its reply testimony, SCE states that "[s]maller size generation may be able to be built in 5-7 years."

- a. What is SCE's definition of smaller size generation?
- b. What is this estimate based on?
- c. What is SCE's estimate about how long it takes to build or make available the following resources:
 1. solar PV less than 5 MW;
 2. demand response;
 3. energy efficiency;
 4. energy storage

Response to Question 12:

- A. SCE's definition of smaller size generation in this context is 50 - 100 MW.
- B. This estimate is based on CEC's 2011 Integrated Energy Policy Report (page 122) which cites CAISO's memo to its board (CAISO, Casey memo to CAISO board 8/18/2011). In addition, SCE has had discussions with general contracting firms and has deemed these estimates to be reasonable.
- C. SCE does not have specific estimates on how long it takes to build, or make available, the list of resources noted above. In some cases regulatory approvals are required and programs need to be approved and then implemented.