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March 29, 2010

**DOCKET**

**09-AFC-8**

DATE MAR 29 2010

RECD. MAR 30 2010

California Energy Commission  
Attn Docket No. 09-AFC-8  
1516 Ninth Street, MS-4  
Sacramento, CA 95814-5512

Re: Genesis Solar Energy Project; 09-AFC-8

Dear Docket Clerk:

Enclosed are an original and one copy of **California Unions for Reliable Energy Data Requests, Set Two**. Please docket the original, conform the copy and return the copy in the envelope provided.

Thank you for your assistance.

Sincerely,

/s/

Rachael E. Koss

REK:bh  
Enc.

2364-037a

# ADAMS BROADWELL JOSEPH & CARDOZO

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March 29, 2010

### **Via Electronic Mail and U.S. Mail**

Mr. Ryan O'Keefe, Vice President  
Genesis Solar LLC  
700 Universe Boulevard  
Juno Beach, FL 33408  
Ryan.okeefe@nexteraenergy.com

Re: Genesis Solar Energy Project (9-AFC-8)  
CURE Data Requests Set Two (Nos. 1-9)

Dear Mr. O'Keefe:

California Unions for Reliable Energy (CURE) submits this second set of data requests to Genesis Solar LLC for the Genesis Solar Energy Project, pursuant to Title 20, section 1716(b), of the California Code of Regulations. The requested information is necessary to: (1) more fully understand the project; (2) assess whether the project will be constructed and operated in compliance with all laws, ordinances, regulations and standards; (3) assess whether the project will result in significant environmental impacts; (4) assess whether the project will be constructed and operated in a safe, efficient and reliable manner; and (5) assess potential mitigation measures.

Pursuant to section 1716(f) of the Energy Commission's regulations, written responses to these requests are due within 30 days. If you are unable to provide or object to providing the requested information by the due date, you must send a written notice of your objection(s) and/or inability to respond to Commissioners Boyd and Weisenmiller and to CURE within 20 days.

March 29, 2010

Page 2

Please contact us if you have any questions. Thank you for your cooperation with these requests.

Sincerely,

/s/

Rachael E. Koss

REK:bh

Enclosure

cc: Docket (09-AFC-8)  
Proof of Service List (09-AFC-8)

**STATE OF CALIFORNIA**  
**California Energy Commission**

In the Matter of:

The Application for Certification  
for the GENESIS SOLAR ENERGY  
PROJECT

Docket No. 09-AFC-8

**CALIFORNIA UNIONS FOR RELIABLE ENERGY**  
**DATA REQUESTS, SET TWO**

March 29, 2010

Tanya A. Gulesserian  
Rachael E. Koss  
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Attorneys for the CALIFORNIA UNIONS  
FOR RELIABLE ENERGY

The following data requests are submitted by California Unions for Reliable Energy. Please provide your responses via email (if available) by April 28, 2010 to each of the following people:

Tanya A. Gulesserian  
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Please identify the person who prepared your responses to each data request. If you have any questions concerning the meaning of any data requests, please let us know.

**GENESIS SOLAR ENERGY PROJECT  
CURE Data Requests Set Two (Nos. 1-9)**

**WATER RESOURCES**

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**Background: WELL DATA**

The California Environmental Quality Act (“CEQA”) requires an evaluation of the Project’s direct and indirect impacts on groundwater resources.<sup>1</sup>

In its response to Staff’s Data Requests Set 1A, number 149, the Applicant provided Figure WR-DR149b which indicates only two nearby wells (number 9 and number 15) with water level data collected during the time period of greatest interest to evaluating groundwater response to proposed Project pumping (i.e., 1988 to present, the period when local prison expansion and pumping increases occurred). This is a very limited data set of historical water levels from which to determine how the Chuckwalla Valley Groundwater Basin will respond to Project pumping.

Further, according to WR-DR149b, the responses in wells 9 and 15 to increased prison pumping are quite different even though the wells are roughly equidistant from the prison wells pumping center. Thus, it is unclear whether these two wells screen the same saturated zones and also whether they screen the same zones from which the Applicant proposes to pump groundwater. As a result, wells 9 and 15 may provide little value as to how the Chuckwalla Valley Groundwater Basin will respond to Project pumping.

**Data Requests**

1. Please explain the differences in measured water levels between wells 9 and 15 during the same period of increased prison well pumping (1995 to present).
2. Please confirm and demonstrate that wells 9 and 15 screen the same saturated zones from which the Applicant proposes to pump.
3. Please explain how the absence of wells and the historic water level data gaps in the immediate Project area may affect uncertainties in both the

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<sup>1</sup> Pub. Resources Code §§ 21100(B)(1), 21083.

analytical (Theis non-equilibrium) drawdown evaluation and the “impacts only” numerical groundwater model.

**Background:      AGRICULTURAL PUMPING**

CEQA requires an evaluation of the Project’s direct and indirect impacts on groundwater resources.<sup>2</sup> However, the Applicant’s groundwater analysis is inadequate because it fails to account for potential impacts on groundwater supplies from future increased agricultural pumping in the Western Chuckwalla Groundwater Basin.

In response to Staff’s Data Requests Set 1A, number 148, the Applicant provided Table WR-DR148 which indicates an increase in Western Chuckwalla Groundwater Basin agricultural pumping from 2700 AFY to 6400 AFY for the years 2004 through 2009. This is a clear reversal of an earlier trend in decreased agricultural pumping cited by the Applicant.

The AFC<sup>3</sup> and the Applicant’s response to Staff’s Data Request Set 1A number 148 both imply hydraulic continuity between the Western and Eastern Chuckwalla Basins. Thus, future increased agricultural pumping in the Western Chuckwalla Basin may impact available groundwater supplies for the Project.

**Data Requests**

4. What is the projected future agricultural pumping demand in the Western Chuckwalla Groundwater Basin?
  
5. Given the recognized hydraulic continuity between the Western Chuckwalla Groundwater Basin and Eastern Chuckwalla Groundwater Basin, please indicate how future increased agricultural pumping in the Western Chuckwalla Basin may impact available groundwater supplies for the proposed Project?

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<sup>2</sup> Pub. Resources Code §§ 21100(B)(1), 21083.

<sup>3</sup> AFC, p. 5.4-6.

**Background:        OUTFLOW FROM THE EASTERN CHUCKWALLA  
GROUNDWATER BASIN TO THE PALO VERDE MESA  
GROUNDWATER BASIN**

An adequate understanding of the hydraulic continuity between the Chuckwalla Groundwater Basin and the Palo Verde Mesa Groundwater Basin is necessary for the Energy Commission to adequately analyze whether the Project has a reliable water supply and the Project's impacts on local groundwater supplies. The well number 39 hydrograph presented by the Applicant shows a clear decline in water levels from 1981 through 1993, after which no data are reported. The Applicant does not provide an explanation for this decline.

This decline cannot be explained by prison pumping because the decline predates the post-1988 local prison pumping increase in the Eastern Chuckwalla Groundwater Basin, particularly from 1995 to the present. The decline also cannot be readily explained by significant declines in rainfall or changes in climate relative to historical conditions in this area. The AFC and the Applicant's responses to Staff's Data Requests Set 1A imply a very poor relationship between water levels in the Eastern Chuckwalla Groundwater Basin and local climatic/rainfall history because well number 39 screens the deeper Bouse Formation, which is reported by the Applicant to be in limited hydraulic continuity with overlying alluvial basin fill.<sup>4</sup>

Neither pumping extractions within the Chuckwalla Basin nor changes in climatic conditions can explain the decline in water levels from 1981 through 1993. Therefore, there must be another explanation for such decline. Outflow from the Eastern Chuckwalla Groundwater Basin to the Palo Verde Mesa Groundwater Basin may be a reasonable explanation. Hydraulic interconnection between the two basins implies a potential impact of Project pumping upon groundwater inflow to the adjudicated Colorado River, and a decline in the accounting surface in local aquifers.

**Data Requests**

6. Please evaluate the potential for outflow of groundwater from the Eastern Chuckwalla Groundwater Basin to the Palo Verde Mesa Groundwater Basin, and any uncertainties in the existing data set that is currently available to evaluate the hydraulic connection between the two basins.

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<sup>4</sup> Applicant's Response to Staff's Data Request Number 158.



**Background:       EVALUATION OF PALO VERDE MESA GROUNDWATER  
                          BASIN**

An adequate understanding of the hydraulic continuity between the Chuckwalla Groundwater Basin and the Palo Verde Mesa Groundwater Basin is necessary for the Energy Commission to adequately analyze whether the Project has a reliable water supply and the Project's impacts on local groundwater supplies. The Applicant has not provided a comprehensive evaluation of the effects of changes in pumping, groundwater storage, and future production demands in the Palo Verde Mesa Groundwater Basin on water levels in the Eastern Chuckwalla Groundwater Basin, or vice-versa. Rather, the Applicant relied exclusively on the conclusion of Wilson and Owens-Joyce (1994) that "the area through which the discharge (into Palo Verde Mesa Basin) occurs is significantly more limited than previously thought due to presence of a buried bedrock ridge."

However, Steinemann (1989) reports a steeper groundwater gradient near the outflow zone between the two basins. Thus, there may be significant discharge from the Eastern Chuckwalla Groundwater Basin to the Palo Verde Mesa Basin if there are changes in pumping, groundwater storage, or future production demands in the Palo Verde Mesa Basin. A wide variation exists in previous estimates of outflow between the two basins (e.g., 400 to 1162 AFY). This hydraulic interconnection between the two basins implies a potential impact of Project pumping upon groundwater inflow to the adjudicated Colorado River.

**Data Requests**

7. Please provide a comprehensive evaluation of potential decreased outflow into the Palo Verde Mesa Groundwater Basin due to increased Project pumping in the Eastern Chuckwalla Basin, using comparative water level data (hydrographs) and groundwater production data from both basins over the same historic time period.
  
8. Please provide a detailed assessment of the potential data gaps and uncertainty associated with the conclusions presented by Wilson and Owens-Joyce (1994), based on their geophysical model, with respect to its impact on estimates of potential outflow into the Palo Verde Mesa Basin.

## **Background: CUMULATIVE IMPACTS**

In response to Staff's Data Requests Set 1A, the Applicant provided Table WR-DR1512, which presents a significantly smaller water budget for the Eastern Chuckwalla Groundwater Basin than the water budget presented in the AFC. In light of the smaller revised budget inflow of 4,940 AFY and the revised existing outflow of 3,005 AFY, the proposed Project demand of 1,664 AFY leaves only a small margin of error of 271 AFY relative to the available basin operational yield.

CEQA requires an evaluation of significant cumulative impacts on groundwater resources.<sup>5</sup> However, the Applicant has not provided an evaluation of the following factors that will contribute to a cumulative impact on the Eastern Chuckwalla Groundwater Basin: (a) an accurate estimate of precipitation recharge; (b) the potential outflow from the Eastern Chuckwalla Groundwater Basin to the Palo Verde Mesa Groundwater Basin; (c) the groundwater demands of numerous projects along the I-10 corridor (see Table 2 – Existing Projects along the I-10 Corridor (Eastern Riverside County), attached here as Exhibit A); and (d) the potential impacts of increasing agricultural production in the Western Chuckwalla Groundwater Basin. Thus, the small margin of error of 271 AFY in the available water budget and yield poses serious concerns that the proposed Project groundwater pumping, in combination with factors (a) through (d) above, may result in an overdraft situation in the Eastern Chuckwalla Groundwater Basin.

### **Data Requests**

9. Please evaluate the potential for Project groundwater pumping, in combination with factors (a) through (d) above, which may result in a cumulative overdraft situation in the Eastern Chuckwalla Groundwater Basin during future Project pumping.

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<sup>5</sup> 14 Cal. Code Regs. § 15355(b); *see also* Pub. Resources Code § 21083 (b)(2).

## Declaration of Service

I Bonnie Heeley declare that on March 29, 2010, I served and filed copies of the attached **CALIFORNIA UNIONS FOR RELIABLE ENERGY DATA REQUESTS, SET TWO** dated March 29, 2010. The original document, filed with the Docket Office, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:  
[http://www.energy.ca.gov/sitingcases/genesis\\_solar](http://www.energy.ca.gov/sitingcases/genesis_solar).

The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission’s Docket Office via email and U.S. mail.

I declare under penalty of perjury that the foregoing is true and correct. Executed at South San Francisco, CA on March 29, 2010.

\_\_\_\_\_/s/\_\_\_\_\_  
 Bonnie Heeley

|                                                                                                                                                                            |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CALIFORNIA ENERGY COMMISSION<br>Attn: Docket No. 09-AFC-8<br>1516 Ninth Street MS 4<br>Sacramento, CA 95814-5512<br>docket@energy.state.ca.us                              | Ryan O’Keefe, Vice President<br>Genesis Solar LLC<br>700 Universe Boulevard<br>Juno Beach, Florida 33408<br><a href="mailto:Ryan.okeefe@nexteraenergy.com">Ryan.okeefe@nexteraenergy.com</a><br><b>EMAIL ONLY</b> | Scott Busa/Project Director<br>Meg Russell/Project Mgr<br>Duane McCloud/Lead Engr<br>NextEra Energy<br>700 Universe Boulevard<br>Juno Beach, FL 33408<br><a href="mailto:Scott.busa@nexteraenergy.com">Scott.busa@nexteraenergy.com</a><br><a href="mailto:Meg.Russell@nexteraenergy.com">Meg.Russell@nexteraenergy.com</a><br><a href="mailto:Daune.mccloud@nexteraenergy.com">Daune.mccloud@nexteraenergy.com</a><br><br>Matt Handel/Vice Pres.<br><a href="mailto:Matt.Handel@nexteraenergy.com">Matt.Handel@nexteraenergy.com</a><br><b>VIA EMAIL ONLY</b><br><br>Kenny Stein,<br>Environmental Srvs Mgr<br><a href="mailto:Kenneth.Stein@nexteraenergy.com">Kenneth.Stein@nexteraenergy.com</a><br><b>VIA EMAIL ONLY</b> |
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|                                                                                                                                                                            | Scott Galati<br>Galati & Blek, LLP<br>455 Capitol Mall, Suite 350<br>Sacramento, CA 95814<br><a href="mailto:sgalati@gb-llp.com">sgalati@gb-llp.com</a>                                                           | California ISO<br><a href="mailto:e-recipient@caiso.com">e-recipient@caiso.com</a><br><b>VIA EMAIL ONLY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Allison Shaffer/Project Mgr.<br/>Bureau of Land Management<br/>Palm Springs<br/>South Coast Field Office<br/>1201 Bird Center Drive<br/>Palm Springs, CA 92262<br/>Allison <a href="mailto:Shaffer@blm.gov">Shaffer@blm.gov</a></p> | <p>James D. Boyd<br/>Commissioner/Presiding Member<br/>California Energy Commission<br/>1516 Ninth Street<br/>Sacramento, CA 95814<br/><a href="mailto:jboyd@energy.state.ca.us">jboyd@energy.state.ca.us</a></p>               | <p>Robert Weisenmiller<br/>Commissioner/Associate Member<br/>California Energy Commission<br/>1516 Ninth Street<br/>Sacramento, CA 95814<br/><a href="mailto:rweisenm@energy.state.ca.us">rweisenm@energy.state.ca.us</a></p>                                                                                                                           |
| <p>Kenneth Celli, Hearing Officer<br/>California Energy Commission<br/>1516 Ninth Street<br/>Sacramento, CA 95814<br/><a href="mailto:kcelli@energy.state.ca.us">kcelli@energy.state.ca.us</a></p>                                     | <p>Mike Monasmith<br/>Siting Project Manager<br/>California Energy Commission<br/>1516 Ninth Street<br/>Sacramento, CA 95814<br/><a href="mailto:mmonasmi@energy.state.ca.us">mmonasmi@energy.state.ca.us</a></p>               | <p>Caryn Holmes, Staff Counsel<br/>California Energy Commission<br/>1516 Ninth Street<br/>Sacramento, CA 95814<br/><a href="mailto:cholmes@energy.state.ca.us">cholmes@energy.state.ca.us</a></p>                                                                                                                                                       |
| <p>Robin Mayer, Staff Counsel<br/>California Energy Commission<br/>1516 Ninth Street<br/>Sacramento, CA 95814<br/><a href="mailto:rmayer@energy.state.ca.us">rmayer@energy.state.ca.us</a></p>                                         | <p>Jennifer Jennings<br/>Public Adviser's Office<br/>California Energy Commission<br/>1516 Ninth Street<br/>Sacramento, CA 95814<br/><a href="mailto:publicadviser@energy.state.ca.us">publicadviser@energy.state.ca.us</a></p> | <p>Tanya A. Gulesserian<br/>Marc D. Joseph<br/>Rachael E. Koss<br/>Adams Broadwell Joseph &amp; Cardozo<br/>601 Gateway Boulevard, Suite 1000<br/>South San Francisco, CA 94080<br/><a href="mailto:tgulesserian@adamsbroadwell.com">tgulesserian@adamsbroadwell.com</a><br/><a href="mailto:rkoss@adamsbroadwell.com">rkoss@adamsbroadwell.com</a></p> |
| <p>Michael E. Boyd, President<br/>Californians for Renewable Energy, Inc. (CARE)<br/>5439 Soquel Drive<br/>Soquel, CA 95073-2659<br/><a href="mailto:michaelboyd@sbcglobal.net">michaelboyd@sbcglobal.net</a></p>                      | <p>Alfredo Figueroa<br/>424 North Carlton<br/>Blythe, CA 92225<br/><a href="mailto:lacunadeaztlan@aol.com">lacunadeaztlan@aol.com</a></p>                                                                                       | <p>Kerry Hattevik/Dierctor<br/>West Region Regulatory Affairs<br/>829 Arlington Boulevard<br/>El Cerrito, CA 94530<br/><a href="mailto:Kerry.Hattevik@nexteraenergy.com">Kerry.Hattevik@nexteraenergy.com</a></p>                                                                                                                                       |

# **EXHIBIT A**

**Draft Deliberative Information that may be considered for Cumulative Analysis - DRAFT  
I-10 Corridor Projects**

**Table 2. Existing Projects along the I-10 Corridor (Eastern Riverside County)**

| <b>Project Name;<br/>ID # Agency ID</b>  | <b>Location</b>                                                    | <b>Ownership</b>                                   | <b>Status</b>                           | <b>Acres</b> | <b>Project Description</b>                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Interstate 10                          | Linear project running from Santa Monica to Blythe (in California) | Caltrans                                           | Existing                                | N/A          | Interstate 10 (I-10) is a major east-west route for trucks delivering goods to and from California. It is a four lane divided highway in the Blythe region.                                                                                                                                                                                |
| 2 Chuckwalla Valley State Prison         | 19025 Wiley's Well Rd. Blythe, CA                                  | CA Dept. of Corrections & Rehabilitation           | Existing                                | 1,080        | State prison providing long-term housing and services for male felons classified as medium and low-medium custody inmates jointly located on 1,720 acres of State-owned property. APN 879040006,008, 012, 027, 028, 029, 030,                                                                                                              |
| 3 Ironwood State Prison                  | 19005 Wiley's Well Rd. Blythe, CA                                  | CA Dept. of Corrections & Rehabilitation           | Existing                                | 640          | ISP jointly occupies with Chuckwalla Valley State Prison 1,720 acres of State-owned property, of which ISP encompasses 640 acres. The prison complex occupies approximately 350 acres with the remaining acreage used for erosion control, drainage ditches, and catch basins. 879040001, 004, 009, 010, 011, 015, 016, 017, 018, 019, 020 |
| 4 Devers-Palo Verde Transmission Line    | From the Midpoint Substation to Devers Substation                  | SCE                                                | Existing                                | N/A          | Existing 500 kV transmission line parallel to I-10 from Midpoint Substation, approximately 10 miles southwest of Blythe, to the SCE Devers Substation, near Palm Springs.                                                                                                                                                                  |
| 5 Blythe Energy Project                  | City of Blythe, north of I-10, 7 miles west of the CA/AZ border    | Blythe Energy, LLC                                 | Existing                                | 76           | 520 MW combined-cycle natural gas-fired electric-generating facility. Project is connected to the Buck Substation owned by WAPA.                                                                                                                                                                                                           |
| 6 West-wide Section 368 Energy Corridors | Riverside County, parallel to DPV corridor                         | BLM, DOE, U.S. Forest Service                      | Approved by BLM and U.S. Forest Service | N/A          | Designation of corridors on federal land in the 11 western states, including California, for oil, gas, and hydrogen pipelines and electricity transmission and distribution facilities (energy corridors). One of the corridors runs along the southern portion of Riverside County.                                                       |
| 7 Eagle Mountain Pumping Plant           | Eagle Mountain Road, west of Desert Center                         | Metropolitan Water District of Southern California | Existing                                |              | 144 ft. pumping plant that is part of the Metropolitan Water District of Southern California's facilities. APNs 807150007, 807150009, 807150010                                                                                                                                                                                            |
| 8 Recreational Opportunities             | Eastern Riverside County                                           | BLM                                                | Existing                                | N/A          | BLM has numerous recreational opportunities on lands in eastern Riverside County along the I-10 corridor including the Wiley's Well Campground, Coon Hollow Campground, and Midland Long-Term Visitor Area.                                                                                                                                |
| 9 Kaiser Mine                            | Eagle Mountain, north of Desert Center                             | Kaiser Ventures, Inc.                              | Mining activities stopped in 1983.      |              | Kaiser Steel mined iron ore at Kaiser Mine in Eagle Mountain and provided much of the Pacific Coast steel in the 1950s. Mining project also included the Eagle Mountain Railroad, 51 miles long. Imported steel captured market share in the 1960s and 1970s and primary steelmaking closed in the 1980s. 701380031                        |

Cumulative Analysis – DRAFT  
I-10 Corridor Projects

|   |                                               |                                                                  |                    |                                       |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---|-----------------------------------------------|------------------------------------------------------------------|--------------------|---------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | Four Commercial Projects                      | Blythe, CA                                                       | Various            | Approved                              | N/A | Four commercial projects have been approved by the Blythe Planning Department including the Agate Road Boat & RV Storage, Riverway Ranch Specific Plan, Subway Restaurant and Motel, and Agate Senior Housing Development.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| B | Intake Shell                                  | Blythe, CA                                                       |                    | Under Construction                    | N/A | Reconstruction of a Shell facility located at Intake & Hobsonway. Demolition occurred in 2008, reconstruction planned for 2009-2010.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| C | Fifteen Residential Developments              | Blythe, CA                                                       | Various            | Approved/Under Construction           | N/A | Twelve residential development projects have been approved by the Blythe Planning Department including: Vista Palo Verde (83 Single Family Residential [SFR]), Van Weelden (184 SFR), Sonora South (43 SFR), Ranchette Estates (20 SFR), Irvine Assets (107 SFR), Chanslor Village (79 SFR), St. Joseph's Investments (69 SFR), Edgewater Lane (SFR), The Chanslor Place Phase IV (57 SFR), Cottonwood Meadows (103 Attached SFR), Palo Verde Oasis Phase IV (29 SFR).<br>Three residential development projects have been approved and are under construction including: The Chanslor Phase II & III (78 SFR), River Estate at Hidden Beaches, Mesa Bluffs Villas (26 Attached SFR). |
| D | Devers-Palo Verde 2 Transmission Line Project | From the Midpoint Substation to Devers Substation                | SCE                | Project was approved by CPUC 11/2009. | N/A | New 500 kV transmission line parallel to the existing Devers-Palo Verde Transmission Line from Midpoint Substation, approximately 10 miles southwest of Blythe, to the SCE Devers Substation, near Palm Springs. The ROW for the 500 kV transmission line would be adjacent to the existing DPV ROW and would require an additional 130 feet of ROW on federal and State land and at least 130 feet of ROW on private land and Indian Reservation land.                                                                                                                                                                                                                               |
| E | Colorado Substation                           | 10 miles southwest of Barstow                                    | SCE                | Project was approved by CPUC 11/2009. | 44  | The new 500/230 kV substation would be constructed within a rectangular area approximately 1,000 feet by 1,900 feet, resulting in approximately 44 acres permanently disturbed. The 500 kV switching station would include buses, circuit breakers, and disconnect switches. The switchyard would be equipped with 108-foot-high dead-end structures. Outdoor night lighting would be designed to illuminate the switchrack when manually switched on.                                                                                                                                                                                                                                |
| F | Blythe Energy Project Transmission Line       | From the Blythe Energy Project (Blythe, CA) to Devers Substation | Blythe Energy, LLC | Under construction                    | N/A | Transmission Line Modifications including upgrades to Buck Substation, approximately 67.4 miles of new 230 kV transmission line between Buck Substation and Julian Hinds Substation, upgrades to the Julian Hinds Substation, installation of 6.7 miles of new 230 kV transmission line between Buck Substation and SCE's DPV 500 kV transmission line.                                                                                                                                                                                                                                                                                                                               |

Cumulative Analysis – DRAFT  
I-10 Corridor Projects

|   |                                                |                                                                                     |                                     |                                                                                                                                                         |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---|------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G | Desert Southwest Transmission Line             | 118 miles primarily parallel to DPV                                                 | Imperial Irrigation District        | Final EIR prepared 2005. Approved by the BLM in 2006.                                                                                                   | N/A                                              | New, approximately 118-mile 500 kV transmission line from a new substation/switching station near the Blythe Energy Project to the existing Devers Substation located approximately 10 miles north of Palm Springs, California.                                                                                                                                                                                                                                                                                                                                                      |
| H | Green Energy Express Transmission Line Project | 70-mile transmission line from the Eagle Mountain Substation to southern California | Green Energy Express LLC            | September 9, 2009, Green Energy Express LLC filed a Petition for Declaratory Order requesting that FERC approve certain rate incentives for the project | N/A                                              | 70-mile double-circuit 500 kV transmission line and new 500/230 kV substation from near the Eagle Mountain Substation (eastern Riverside County) to Southern California                                                                                                                                                                                                                                                                                                                                                                                                              |
| I | Blythe Energy Project II                       | Blythe, CA. Near the Blythe Airport and I-10                                        | Blythe Energy, LLC                  | Approved December 2005                                                                                                                                  | 30 acres (located on Blythe Energy Project land) | 520 MW combined-cycle power plant located entirely within the Blythe Energy Project site boundary. Blythe Energy Project II will interconnect with the Buck Substation constructed by WAPA as part of the Blythe Energy Project. Project is designed on 30 acres of a 76-acre site.                                                                                                                                                                                                                                                                                                  |
| J | Eagle Mountain Pumped Storage Project          | Eagle Mountain iron ore mine, north of Desert Center                                | Eagle Crest Energy Company          | License application filed with FERC in June 2009                                                                                                        | 1,524                                            | 1,300 MW pumped storage project designed to store off-peak energy to utilize during on-peak hours. The captured off-peak energy will be used to pump water to an upper reservoir where the energy will be stored. The water will then be released to a lower reservoir through an underground electrical generating facility where the stored energy will be released back into the Southwestern grid during "high demand peak" times, primarily weekdays. Estimated water use is 8,100 AFY for the first four-year start-up period and replacement water is 1,763 AFY thereafter. 1 |
| K | Palen Solar Power Project                      | North of I-10, 10 miles east of Desert Center                                       | Solar Millennium LLC/Chevron Energy | Undergoing environmental review, construction to begin end of 2010 with one unit online in 2012 and one unit online in 2013.                            | 5,200                                            | 500 MW solar trough project on 5,200 acres. Facility would consist of two 250 MW plants. Approximately 3,870 acres would be disturbed. Project would include interconnection to the SCE Red Bluff Substation. Project would use 300 AFY.                                                                                                                                                                                                                                                                                                                                             |
| L | Blythe Solar Power Project                     | North of I-10, immediately north of the Blythe Airport                              | Solar Millennium LLC/Chevron Energy | Undergoing environmental review                                                                                                                         | 9,400                                            | 1,000 MW solar trough facility on 9,400 acres                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



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| M | NextEra (FPL) McCoy            | Northwest of Blythe, CA, immediately north of Blythe Solar Power Project  | NextEra (FPL)                              | Plan of Development in to Palm Springs BLM                                                                                      | 20,608 | 250 MW solar trough project. ROW in process for monitoring water well drilling.                                                                                                                                                                                                                          |
| N | McCoy Soleil Project           | 10 miles northwest of Blythe                                              | enXco                                      | Plan of Development in to Palm Springs BLM                                                                                      | 1,959  | 300 MW solar power tower project located on 1,959 acres. Project would require a 14 mile transmission line to proposed SCE Colorado Substation south of I-10. Would use 575-600 AFY.                                                                                                                     |
| O | Genesis Solar Energy Project   | North of I-10, 25 miles west of Blythe and 27 miles east of Desert Center | NextEra (FPL)                              | Undergoing environmental review. Construction to begin at the end of 2010.                                                      |        | 250 MW solar trough project located on 4,640 acres north of the Ford Dry Lake. Project includes six mile natural gas pipeline and a 5.5 mile gen-tie line to the Blythe Energy Center to Julian Hinds Transmission Line, then travel east on shared transmission poles to the Colorado River Substation. |
| P | Big Maria Vista Solar Project  | North of I-10, approximately 12 miles northwest of Blythe                 | Bullfrog Green Energy                      | Plan of Development submitted to BLM                                                                                            | 2,684  | 500 MW solar photovoltaic project on 2,684 acres of land. Project would be built in three phases and would require 6,000 gallons of water monthly.                                                                                                                                                       |
| Q | Chuckwalla Solar I             | 1 mile north of Desert Center                                             | Chuckwalla Solar I, LLC                    | Plan of Development submitted to BLM                                                                                            | 4,083  | 200 MW solar photovoltaic project on 4,083 acres of land. Project would be developed in several phases and would tap into an existing SCE 161-kV transmission line crossing the site.                                                                                                                    |
| R | Rice Solar Energy Project      | Rice Valley, Eastern Riverside County                                     | Rice Solar Energy, LLC (SolarReserve, LLC) | Undergoing environmental review. Construction to begin in 2011                                                                  | 1,410  | 150 MW solar power tower project with liquid salt storage. Project is located on approximately 1,410 acres and includes a power tower approximately 650 feet tall and a 10-mile long interconnection with the WAPA Parker-Blythe transmission line.                                                      |
| S | Blythe Airport Solar I Project | Blythe Airport                                                            | U.S. Solar                                 | Application has been submitted to City of Blythe, City of Blythe approved the project in November, 2009                         | 640    | 100 MW solar photovoltaic project located on 640 acres of Blythe airport land.                                                                                                                                                                                                                           |
| T | Blythe PV Project              | Blythe                                                                    | First Solar                                | CPUC approved project terms of a 20 year power purchase agreement for sale of 7.5 MW, Under construction in forth quarter, 2009 | 200    | 7.5 MW solar photovoltaic project located on 200 acres. Project was constructed by First Solar and sold to NRG Energy.                                                                                                                                                                                   |

**Table 3. Future Foreseeable Projects along the I-10 Corridor (Eastern Riverside County)**

| Project Name;<br>ID # Agency ID   | Location                                                        | Ownership                                                    | Status                                                                                                                                                                                                                                                                    | Acres       | Project Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U Desert Quartzite                | South of I-10, 8 miles southwest of Blythe                      | First Solar (previously OptiSolar)                           | POD in to BLM                                                                                                                                                                                                                                                             | 7,724       | 600 MW solar photovoltaic project located on 7,724 acres. Adjacent to DPV transmission line and SCE Colorado Substation. Approximately 27 AF would be used during construction and 3.8 AFY during operation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| V Desert Sunlight                 | North of Desert Center                                          | First Solar (previously OptiSolar)                           | POD in to BLM                                                                                                                                                                                                                                                             | 5,000-6,000 | 250 MW solar photovoltaic project located on 5,000-6,000 acres. Project would tie into the SCE Red Bluff Substation. Approximately 27 AF would be used during construction and 3.8 AFY during operation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| W EnXco                           | North of Wileys Well Road, east of Genesis Solar Energy Project | enXco                                                        | POD in to BLM                                                                                                                                                                                                                                                             |             | 300 MW solar photovoltaic project location on X acres.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| X Desert Lily Solcell Project     | 6 miles north of Desert Center                                  | enXco                                                        |                                                                                                                                                                                                                                                                           | 1,216       | 100 MW photovoltaic plant on 1,216 acres of BLM land. Would require a 5-8 mile transmission line to planned SCE Red Bluff Substation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Y Red Bluff Substation            | Unknown at this time – near Desert Center                       | SCE                                                          |                                                                                                                                                                                                                                                                           | N/A         | Proposed 230/500 kV Substation near Desert Center. Planned to interconnect renewable projects near Desert Center with the DPV transmission line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Z Chuckwalla Valley Raceway       | Desert Center Airport (no longer a functioning airport)         | Developer Matt Johnson                                       | Under construction, track expected to be open in mid 2010                                                                                                                                                                                                                 | 400         | Proposed 500-mile race track located on 400 acres of land that used to belong to Riverside County and was used as the Desert Center airport. APN <a href="#">811142016</a> , <a href="#">811142006</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| A Eagle Mountain Landfill Project | Eagle Mountain, North of Desert Center                          | Mine Reclamation Corporation and Kaiser Eagle Mountain, Inc. | U.S. Court of Appeals for the Ninth Circuit issued its ruling regarding the project in 11/09 and ruled that the land exchange for the project was not properly approved by the administrative agency. Kaiser's Mine and Reclamation is considering all available options. | ~ 3,500     | The project proposed to develop the project on a portion of the Kaiser Eagle Mountain Mine in Riverside County, California. The proposed project comprises a Class III nonhazardous municipal solid waste landfill and the renovation and repopulation of Eagle Mountain Townsite. The proposal by the proponent includes a land exchange and application for rights-of-way with the Bureau of Land Management and a Specific Plan, General Plan Amendment, Change of Zone, Development Agreement, Revised Permit to Reclamation Plan, and Tentative Tract Map with the County. The Eagle Mountain landfill project is proposed to accept up to 20,000 tons of non-hazardous solid waste per day for 50 years. |

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| A<br>Well Communication Tower (part of the Public Safety Enterprise Communication System) | East of Wileys Well Road, just south of I-10        | Riverside County      | Final EIR for the Public Safety Enterprise Communication System published in August 2008. | N/A   | The Public Safety Enterprise Communication project is the expansion of the County of Riverside's fire and law enforcement agencies approximately 20 communication sites to provide voice and data transmission capabilities to assigned personnel in the field. |
| B<br>Mule Mountain Solar Project                                                          | South of I-10, approximately 4 miles west of Blythe | Bullfrog Green Energy | Plan of Development in to Palm Springs BLM                                                | 2,684 | 500 MW solar concentrating photovoltaic project located on 2,684 acres. Considering interconnection with proposed SCE Colorado Substation. Approximately 6,000 gallons of water would be required monthly.                                                      |

Additional Projects Outside Cumulative Figure Boundaries

|                                                    |                                                                                      |                       |                                                                                                                                                           |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Paradise Valley "New Town" Development             | Approximately 30 miles west of Desert Center (7 miles east of the city of Coachella) | Glorious Land Company | Notice of Preparation of an EIR published in December of 2005. Still under environmental review.                                                          | 6,397         | Company proposed to develop a planned community as an international resort destination with residential, recreational, commercial, and institutional uses and facilities. The project is planned as a self-contained community with all public and quasi-public services provided. The project is located outside the Coachella Valley Water District (CVWD) boundaries and the applicant has entered into an agreement with the CVWD to manage artificial recharge of the Shaver's Valley groundwater. The proponent has purchased a firm water supply from Rosedale-Rio Bravo Water District in Kern County. In-kind water will be transferred to the MWD which will release water from the Colorado River Aqueduct to a 38 acre percolation pond on the project site. The MWD will deliver approximately 10,000 AFY to the percolation pond and over the long term, no net loss of groundwater in storage is anticipated. |
| Proposed National Monument (former Catellus Lands) | Between Joshua Tree National Park and Mojave National Preserve                       |                       | In December 2009, Senator Feinstein introduced bill S.2921 that would designate two new national monuments including the Mojave Trails National Monument. | 941,000 acres | The proposed Mojave Trails National Monument would protect approximately 941,000 acres of federal land, including approximately 266,000 acres of the former railroad lands along historic Route 66. The BLM would be given the authority to conserve the monument lands and also to maintain existing recreational uses, including hunting, vehicular travel on open roads and trails, camping, horseback riding and rockhounding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| BLM Renewable Energy Study Areas                   | Along the I-10 corridor between Desert Center and Blythe                             | BLM                   | Proposed                                                                                                                                                  |               | The DOE and BLM identified 24 tracts of land as Solar Energy Study Areas in the BLM and DOE Solar PEIS. These areas have been identified for in-depth study of solar development and may be found appropriate for designation as solar energy zones in the future.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Table 3. Future Foreseeable Projects along the I-10 Corridor (Eastern Riverside County)**

| Project Name;<br>ID # Agency ID            | Location                                                             | Ownership | Status                                                                                    | Acres | Project Description                                                                                                                                                                                                                                                                               |
|--------------------------------------------|----------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solar Energy projects along Arizona Border | Approximately 15 miles east of the CA/ AZ border along I-10 corridor | Various   | Applications filed in to Arizona BLM field offices, application status listed as pending. |       | Five solar trough and solar power tower projects have been proposed along the I-10 corridor approximately 15 miles east of the CA/AZ border. The projects have been proposed on BLM administered-land in the Yuma and Kingman Field Offices and have requested use of approximately 75,000 acres. |

**New Wind Project**

1. Water usage for the Eagle Mountain Pumped Storage Project was based on the information provided to FERC by the Eagle Crest Energy Company in the Responses to Deficiency of License Application and Additional Information Request dated October 26, 2009.