

## DOCKETED

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<b>Project Title:</b>	Palen Solar Power Project - Compliance
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<b>Filer:</b>	Alicia Campos
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**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



September 11, 2013

**NOTICE OF AVAILABILITY OF THE  
FINAL STAFF ASSESSMENT – PART A  
FOR THE PROPOSED PALEN SOLAR ELECTRIC GENERATING SYSTEM  
AMENDMENT (09-AFC-7C)**

**TO: MEMBERS OF THE PUBLIC**

This notice is to inform you that the California Energy Commission (Energy Commission) staff has prepared a Final Staff Assessment-Part A (FSA) for the December 12, 2012 Petition to Amend to modify the Palen Solar Power Project (PSPP). The FSA Part A contains staff's independent, objective evaluation of the Petition to Amend for all technical areas except cultural resources which will be provided in Part B, and air quality which will be provided in Part C after the South Coast Air Quality Management District completes its Preliminary Determination of Compliance (PDOC) with its rules and regulations.

The FSA-Part A is now available for public review and comment at <http://www.energy.ca.gov/sitingcases/palen/>

Under its certified regulatory program, Energy Commission staff has completed an independent assessment of the PSEGS Petition to Amendment (09-AFC-7C). The Energy Commission staff's final conclusions are summarized in this notice. The Energy Commission encourages public participation in the review of the PSEGS Amendment.

With respect to the Energy Commission's CEQA review, the public and agencies may continue to comment on the FSA or any aspect of the proposed PSEGS project, even though there is not a formal comment period for the FSA. The Energy Commission will accept and consider comments until the close of evidentiary hearings that will be noticed and held by the Energy Commission. Comments received on the FSA will be addressed by the Energy Commission's Committee in the Presiding Member's Proposed Decision (PMPD). The PMPD will be published after conclusion of the Energy Commission's evidentiary hearings.

If you wish to provide comments on the project, please submit comments to the Energy Commission using the Energy Commission's e-commenting feature by going to the Energy Commission's Palen Solar Power Project webpage, <http://www.energy.ca.gov/sitingcases/palen/>, and click on the "Submit e-Comment" link. A full name, e-mail address, comment title, and either a comment or an attached document (.doc, .docx, or .pdf format) is mandatory. After entering CAPTCHA (a challenge-response test used by the system to ensure that responses are generated by a human user and not a computer), click on the "Agree & Submit Your Comment" button to submit the comment to the Energy Commission Dockets Unit. If you are preparing non-electronic written comments, please mail or hand deliver them to:

California Energy Commission  
Dockets Unit, MS-14  
Docket No. 09-AFC-7C  
1516 Ninth Street  
Sacramento, CA 95814-5512

All comments and materials filed with the Dockets Unit will become a part of the public record of the proceeding. Additionally, your comments will be posted on the Energy Commission's PSEGS webpage.

You can also subscribe to receive e-mail notification of all notices and announcements at: <http://www.energy.ca.gov/listservers>. By being on this email list, you will receive all project related notices and documents pertaining to the project's evaluation and review.

For additional information contact Christine Stora, Energy Commission Compliance Project Manager, at (916) 654-4745 or email at [christine.stora@energy.ca.gov](mailto:christine.stora@energy.ca.gov).

### **Energy Commission Licensing Authority**

The Energy Commission is responsible for reviewing and ultimately approving or denying all applications for construction, operation and modification of thermal electric power plants, 50 megawatts (MW) and greater, proposed for construction in California. The Energy Commission's facility certification process carefully examines public health and safety, environmental impacts and engineering aspects of proposed power plants and all related facilities, such as electric transmission lines and natural gas and water pipelines. The Energy Commission is the lead agency under the California Environmental Quality Act (CEQA) and through its certified regulatory program produces Preliminary and Final Staff Assessments rather than Draft and Final Environmental Impact Reports.

### **Summary of the Amended Palen Electric Generating System**

On December 17, 2012, the project owner filed a Petition to Amend with the Energy Commission requesting to modify the Palen Solar Power Project (PSPP) now called PSEGS. The PSPP, as licensed by the Energy Commission on December 15, 2010, is a 500-megawatt (MW) solar thermal power-generating facility utilizing parabolic trough technology. The project site is approximately 3,794 acres in size and is located approximately 0.25 mile north of Interstate 10, approximately 10 miles east of Desert Center and approximately halfway between the cities of Indio and Blythe, in Riverside County, California.

The modifications proposed in the 2012 Petition to Amend include replacing the parabolic trough solar collection system and associated heat transfer fluid with BrightSource's solar tower technology. Heliostats—elevated mirrors guided by a tracking system mounted on a pylon—focus the sun's rays on a solar receiver steam generator (SRS) located atop a 750-foot tower near the center of each solar field to create steam to drive a turbine that generates electricity. The project would use air-cooled condensers for power plant cooling.

The modified project, the PSEGS, would be comprised of two adjacent solar fields and associated facilities with a total combined nominal output of approximately 500 MW. The project owner proposes to develop PSEGS in two operational phases. Each phase would consist of one solar field and power block with approximately 250 MW of generation capacity. Each solar field would have an array of approximately 85,000 heliostats for a total of 170,000 heliostats for the project. Each phase would also share common facilities, including an administration building, warehouse, evaporation ponds, maintenance complex with a meter/valve station for incoming natural gas service to the site, an on-site switchyard, and a single-circuit 230-kV generation tie-line to deliver power to the electricity grid. Other on-site facilities would include access and maintenance roads (either dirt, gravel, or paved), perimeter fencing, tortoise fencing, and other ancillary security facilities.

The PSEGS amendment does not propose to change the generating capacity of the PSPP, or the site access, or the interconnection point at the Red Bluff Substation, although there would be a slight re-routing of the generation tie-line near the western end of the route and around the newly constructed Red Bluff Substation. A new natural gas pipeline is also proposed.

### **Summary of the California Energy Commission Staff's Final Conclusions**

Based upon the information provided, discovery achieved and analyses completed to date, Summary Table-1 illustrates the Energy Commission staff's final assessment of the Petition to Amend and compares it to the originally approved Palen Solar Power Project (PSPP) as previously licensed by the Commission. Please review the FSA for a detailed discussion of the significance of staff's conclusions.

**Summary Table 1  
Environmental and Engineering Assessment**

<b>Technical Area</b>	<b>PSPP Decision Complies with LORS</b>	<b>PSPP Decision Impacts Mitigated</b>	<b>PSEGS Amendment Complies with LORS*</b>	<b>PSEGS Amendment Impacts Mitigated</b>
Air Quality/Greenhouse gases	Yes	Yes	To be provided in Part C	To be provided in Part C
Biological Resources	Yes	Yes	Yes	<b>Uncertain</b>
Cultural Resources	Yes	<b>No</b>	To be provided in Part B	To be provided in Part B
Hazardous Materials	Yes	Yes	Yes	Yes
Land Use	<b>No</b>	<b>No</b>	Yes	Yes
Noise and Vibration	Yes	Yes	Yes	Yes
Public Health	Yes	Yes	Yes	Yes
Socioeconomics	Yes	N/A	Yes	Yes
Soil and Water Resources	Yes	Yes	Yes	Yes
Traffic & Transportation	Yes	Yes	Yes	Yes
Transmission Line Safety/Nuisance	Yes	Yes	Yes	Yes
Visual Resources	Yes	<b>No</b>	<b>No</b>	<b>No</b>
Waste Management	Yes	Yes	Yes	Yes
Worker Safety and Fire Protection	Yes	Yes	Yes	Yes
Facility Design	Yes	Yes	Yes	Yes
Geology & Paleontology	Yes	Yes	Yes	Yes
Power Plant Efficiency	N/A	N/A	N/A	N/A
Power Plant Reliability	N/A	N/A	N/A	N/A
Transmission System Engineering	Yes	Yes	Yes	Yes
Alternatives	N/A	N/A	N/A	N/A

\*laws ordnances regulations and standards (LORS)

**Public Resources, Contact Information and Additional Sources for Information**

If you desire information on how to participate in the Energy Commission's review of the proposed project, please contact Alana Mathews, the Energy Commission's Public Adviser, at (916) 654-4489 or toll free in California at (800) 822-6228, or by email at: [publicadviser@energy.ca.gov](mailto:publicadviser@energy.ca.gov).

The status of the project, copies of notices and other relevant documents are also available on the Energy Commission's web site: <http://www.energy.ca.gov/sitingcases/palen/> . News media inquiries should be directed to Sandy Louey, at (916) 654-4989, or by email at: [mediaoffice@energy.ca.gov](mailto:mediaoffice@energy.ca.gov).

Paper copies of the FSA will be available for review at the following local libraries:

Palo Verde Valley Dist. Library  
125 W. Chanslor Way  
Blythe, CA 92225

Riverside Library – Main Branch  
3581 Mission Inn Avenue  
Riverside, CA 92501

Cathedral City Branch Library  
33520 Date Palm Drive  
Cathedral City, CA 92234

Coachella Branch Library  
1538 Seventh Street  
Coachella, CA 92236

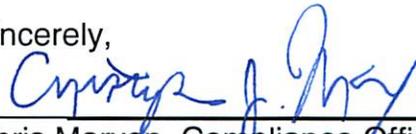
Lake Tamarisk Library  
43880 Lake Tamarisk Drive  
Desert Center, CA 92239

The FSA is also available at the Energy Commission and California State Libraries in Sacramento, and at public libraries in Eureka, Fresno, San Francisco, Los Angeles, and San Diego. In addition, electronic copies (CDs) will be distributed to those public agencies that would normally have jurisdiction except for the Energy Commission's exclusive authority to certify sites and related facilities.

If you would like a paper copy or CD of the FSA, please fill out the enclosed form and return it to the California Energy Commission, attention: Alicia Campos, Project Assistant, or by e-mail at [alicia.campos@energy.ca.gov](mailto:alicia.campos@energy.ca.gov).

Date: SEPT 11, 2013

Sincerely,



Chris Marxen, Compliance Office Manager  
Siting, Transmission and Environmental  
Protection Division

cc: Mail List No. 7373,  
Proof of Service list, and  
Docket Unit

Please send me a paper copy / CD (please circle one) of the California Energy Commission's Final Staff Assessment (FSA) for the proposed Palen Solar Electric Generating System project (PSEGS), Amendment (09-AFC-7C).

**Name:**

**Address:**

**City/State/Zip:**

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California Energy Commission  
Attention: Alicia Campos  
1516 Ninth Street, MS-15  
Sacramento, CA 95814-5512

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**Staple or Tape closed**