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March 20, 2013

427930.DI.HR

Mr. Kenneth Celli  
Hearing Officer  
California Energy Commission  
1516 Ninth Street, MS-43  
Sacramento, CA 95814

California Energy Commission

**DOCKETED**

**11-AFC-02**

TN # 69979

MAR. 21 2013

Subject: Exhibits Numbered During Hearing, Exhibits 85, 86 and 87  
Hidden Hills Solar Electric Generating System (11-AFC-2)

Dear Mr. Celli:

On behalf of Hidden Hills Solar I, LLC; and Hidden Hills Solar II, LLC, please find attached copies of Exhibits 85-87 that were admitted into evidence during the hearings, but had not been served on the parties.

Please call me if you have any questions.

Sincerely,

CH2M HILL

A handwritten signature in blue ink, reading "John L. Carrier".

John L. Carrier, J.D.  
Program Manager

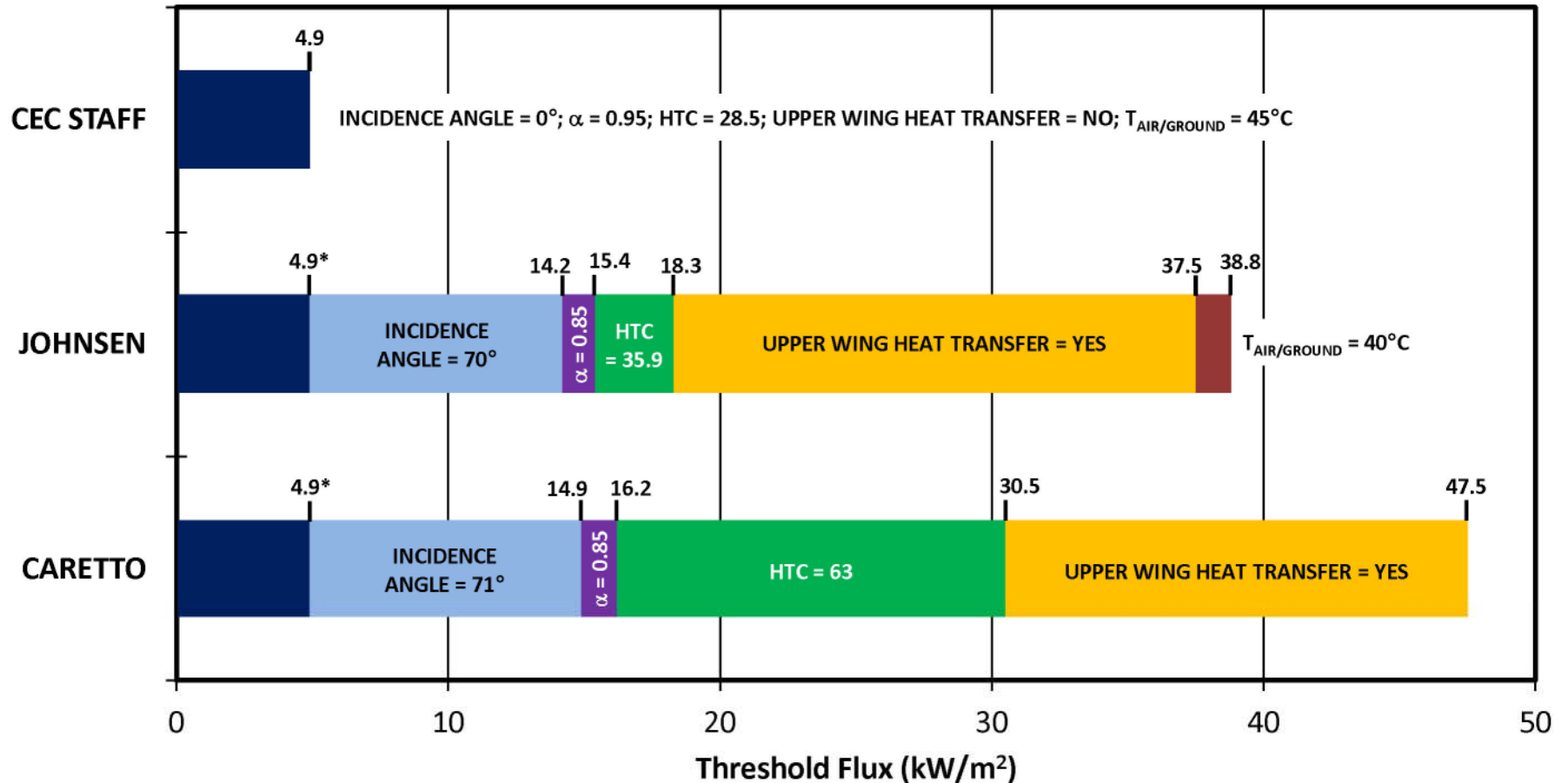
Encl.

c: POS List  
Project file



# Exhibit 85

## Avian Solar Flux Calculations



\* Assumed same starting point as CEC staff.



# EXHIBIT 86 - Acreage and MWh Comparison of California Solar Projects

Approved Contracts in Development	Technology type	Min MW	Min Expected GWh/yr	Implied CF	Land use (acres)	Acres/ MW	MWh/ acre	% increase in acreage to match HHSEG output	Location
Desert Topaz	Thin-film fixed tilt	550	1066	22.1%	3,500	6.36	305	52%	Carrizo Plains
First Solar Desert Stateline	Thin-film fixed tilt	300	673	25.6%	2,144	7.15	314	47%	Ivanpah, CA (Eldorado)
First Solar Desert Sunlight	Thin-film fixed tilt	300	619	23.6%	2,073	6.91	299	55%	Desert Center, CA (Riverside East)
First Solar Desert Sunlight	Thin-film fixed tilt	250	571	26.1%	1,727	6.91	331	40%	Desert Center, CA (Riverside East)
NextLight Agua Caliente	Thin-film fixed tilt	290	688	27.1%	2,400	8.28	287	61%	Yuma, Arizona
NextLight Antelope Valley	Thin-film fixed tilt	230	592	29.4%	2,100	9.13	282	64%	Lancaster, CA (Mohave)
AVSP I and AVSP II(Solar Star California XIX)	Tracking system	579	1502	29.6%	3,230	5.58	465	-1%	Rosamond, CA (Mohave)
AVSP II (Solar Star California XX)	Tracking system	276	730	30.2%	2,062	7.47	354	31%	Rosamond, CA (Mohave)
McCoy Solar 2, LLC	Tracking system	250	611	27.9%	1,597	6.39	383	21%	Blythe, CA (Riverside East)
McCoy Solar, LLC	Tracking system	250	611	27.9%	1,597	6.39	383	21%	Blythe, CA (Riverside East)
North Star Solar	Tracking system	60	136	25.9%	640	10.67	213	118%	Mendota, CA (Westlands/Fresno)
SolarGen 2	Tracking system	150	390	29.7%	1,500	10.00	260	78%	Northern Imperial County (IID)
SunPower High Plains & High Plains Ranch III	Tracking system	250	662	30.2%	1,500	6.00	441	5%	Carrizo Plains
HHSEGS	Solar Power Tower	500	1432	32.7%	3,097	6.19	462	0%	
Average	Thin-film fixed tilt	320	702	25.0%	2,324	7.26	302	53%	
Average	Tracking system	259	663	29.2%	1,732	6.68	383	21%	
Average	Solar Power Tower	500	1432	32.7%	3,097	6.19	462	0%	

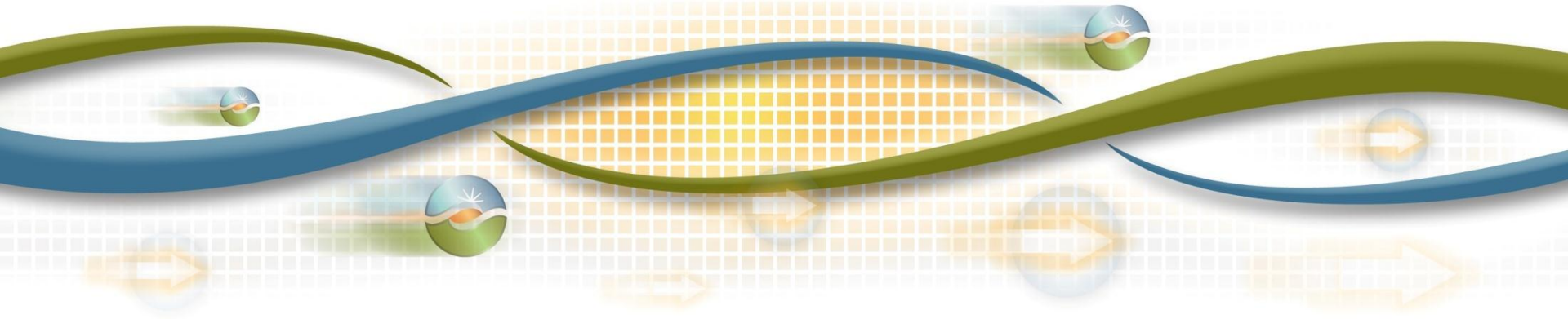


# Long Term Resource Adequacy Summit

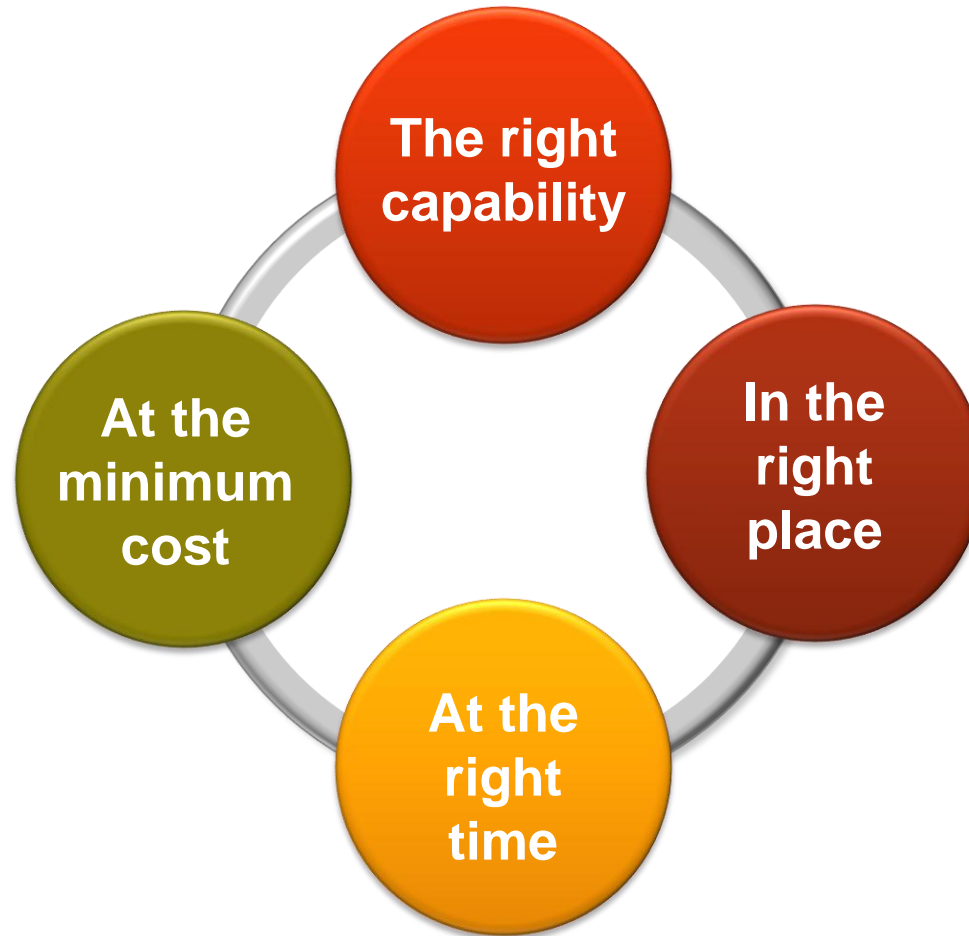
**Mark Rothleder**

VP Market Quality and Renewable Integration

February 26, 2013

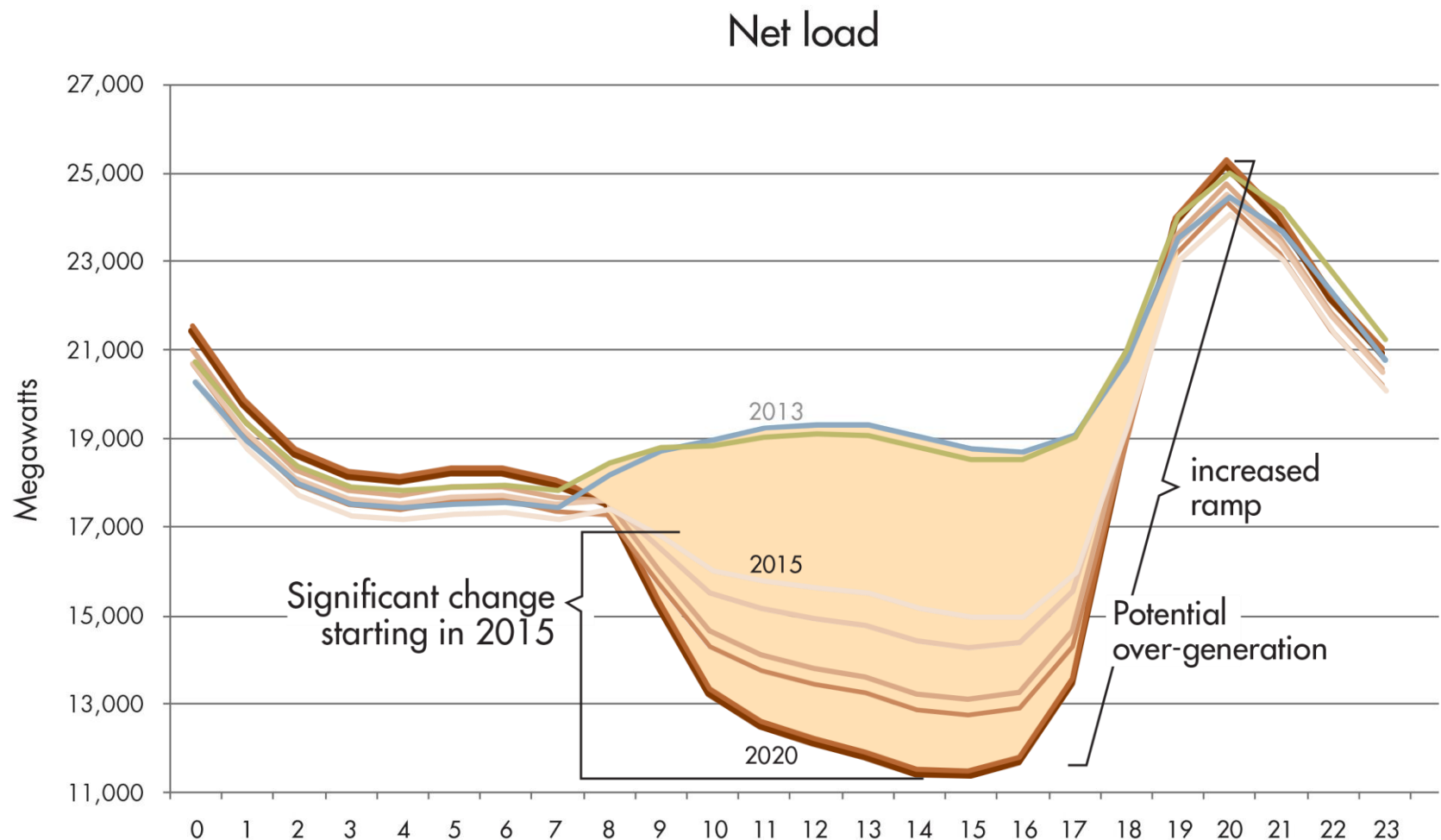


# To achieve policy objectives and reliability





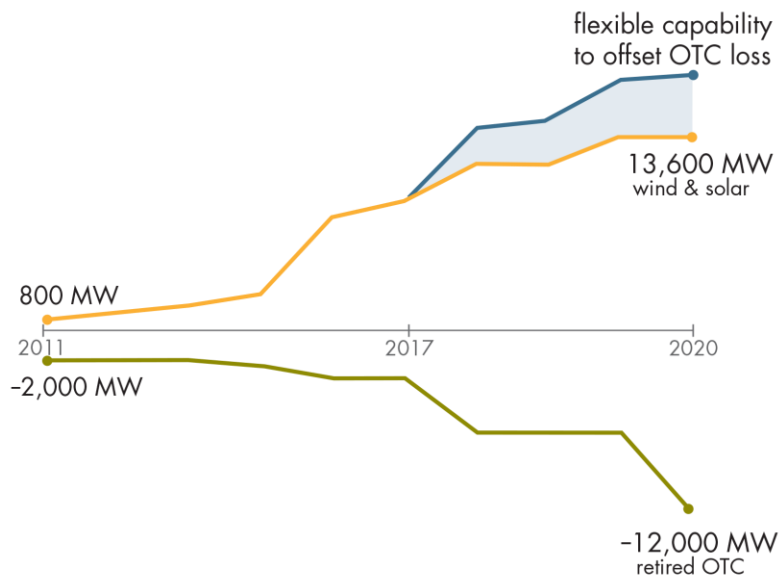
# Growing need for flexibility starting 2015



# Need for capacity in local areas



# Need to manage retirement of resources

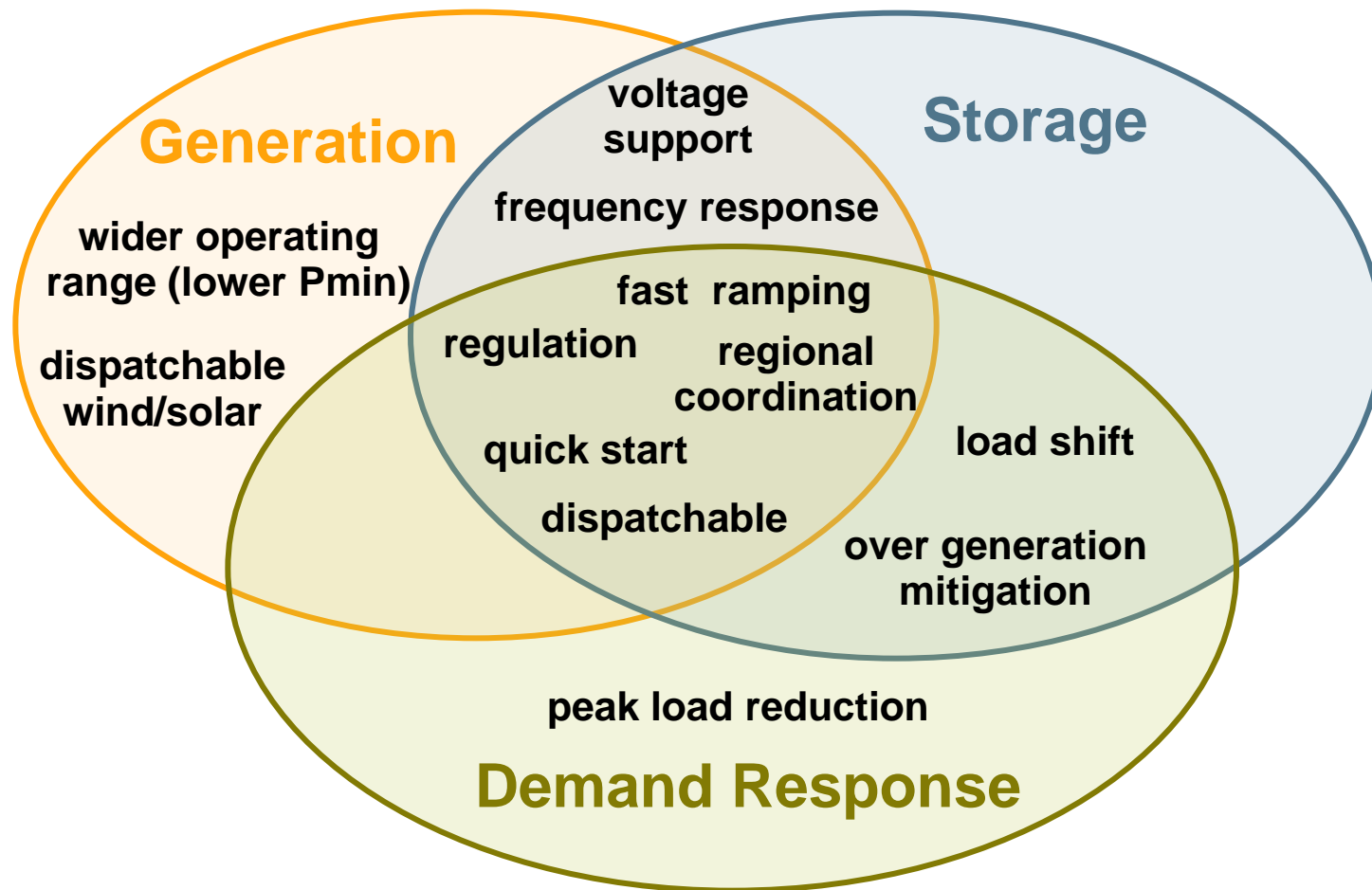


## Caveat

LA Basin number includes 2,246 MW of capacity at the San Onofre Nuclear Generating Station currently subject to an extended outage.



# To achieve objective need to optimize considering all possible solutions





**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT  
COMMISSION OF THE STATE OF CALIFORNIA  
1516 NINTH STREET, SACRAMENTO, CA 95814  
1-800-822-6228 – WWW.ENERGY.CA.GOV**

***APPLICATION FOR CERTIFICATION FOR THE  
HIDDEN HILLS SOLAR ELECTRIC  
GENERATING SYSTEM***

**Docket No. 11-AFC-02**

**PROOF OF SERVICE  
(Revised 3/8/13)**

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KAREN DOUGLAS  
Commissioner and Presiding  
Member

DAVID HOCHSCHILD  
Commissioner and Associate  
Member

Ken Celli  
Hearing Adviser

Galen Lemei  
Adviser to Presiding Member

Jennifer Nelson  
Adviser to Presiding Member

Jim Bartridge  
Adviser to Associate Member

Eileen Allen  
Commissioners' Technical  
Adviser for Facility Siting

**DECLARATION OF SERVICE**

I, Mary Finn, declare that on March 20, 2013, I served and filed copies of the attached Applicant's Exhibits #85-87, dated March 20, 2013. This document is accompanied by the most recent Proof of Service, which I copied from the web page for this project at: <http://www.energy.ca.gov/sitingcases/hiddenhills/>.

The document has been sent to the other persons on the Service List above in the following manner:

*(Check one)*

**For service to all other parties and filing with the Docket Unit at the Energy Commission:**

- x   I e-mailed the document to all e-mail addresses on the Service List above and personally delivered it or deposited it in the US mail with first class postage to those parties noted above as "hard copy required"; **OR**
- Instead of e-mailing the document, I personally delivered it or deposited it in the US mail with first class postage to all of the persons on the Service List for whom a mailing address is given.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that I am over the age of 18 years.

Dated:   3/20/13  



Mary Finn  
CH2M HILL