

## Savala, Sabrina@Energy

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**From:** Raitt, Heather@Energy  
**Sent:** Monday, December 08, 2014 11:24 AM  
**To:** Energy - Docket Optical System  
**Cc:** Kavalec, Chris@Energy; Bailey, Stephanie@Energy; Kravitz, Raquel@Energy  
**Subject:** FW: funny numbers

**Categories:** Ready to Docket

California Energy Commission

**DOCKETED**

**14-IEP-1E**

**TN 74139**

**DEC 08 2014**

Please docket these comments under 14-IEP-1E

Thank you,  
Heather

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**From:** Francis Brandt [<mailto:f.brandt@att.net>]  
**Sent:** Saturday, December 06, 2014 2:37 PM  
**To:** Raitt, Heather@Energy  
**Subject:** funny numbers

Heather Raitt  
Assistant Executive Director for Policy Development  
California Energy Commission

Dear Ms Raitt  
I wish to comment on the draft report:  
Kavalec, Chris, 2014 California Energy Demand Updated Forecast,  
2015- 2025 California Energy Commission, Electricity Supply Analysis Division.  
Publication Number:CEC -200 2014 -009-SD

I am not sure who the comments should be directed to and I wish you could see that they go to the correct person perhaps Chris Kavalec.

My comments are similar to ones I have made in the past about previous versions of this report.

Does anyone in the CEC worry about the ever increasing demand for electricity in the state? Presumably the report is about RELIABLE electricity and thus eliminates solar, wind and other non reliable sources.

It takes a lot of time to make reliable electric plants and this means that if we are to avoid brownouts we should be considering only the high demand estimates. I expect that PG&E and the other utilities have no other choice but to use the high estimates is projecting their plant inventories. So of what use are the low estimates?

Now we get to one of my favorite subjects. What kind of a crystal ball do you use to determine future demand to 6 figures? I expect you would be fortunate to judge future demand to three significant figures. I am sure when you draw up the graphs you are able to use perhaps 2 significant figures. I don't believe that the people planning new plants can rely on any more than 2 figures. So of what value are numbers such as 123456 megawatts? The 456 numbers are phantoms. I would believe 123000. Thus in the real world a calculator generated number of 123567 should be rounded to 124000, 123456 should be rounded to 123000.

When I have complained about this in the past you said you had insufficient staff to round out the numbers to some rational value. I find this hard to believe. You should inform the utilities to round out the numbers they feed you then your staff won't be tempted to use phantom numbers.

Frank Brandt  
Engineer and private citizen