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11-IEP-1N

DATE	April 09 2011
RECD.	April 14 2011

9 April 2011

Public Comment **11-IEP-1N** "Energy Storage for Renewable Integration"

As a taxpayer and ratepayer all I can do is cringe and weep for my children and grandchildren when I observe the machinations of the CEC. Now they are spending their time and energy on another boondoggle. The state legislature has mandated that unsuitable energy sources shall be used to generate commercial electricity in California. The CEC instead of advising the legislature that this a colossal and expensive mistake is doing all it can to implement the disastrous legislation.

Just what does the CEC hope to accomplish by studying energy storage devices? They don't know enough to help the people who will actually have to purchase and install the storage devices. The CEC can hold seminars until the end of time and write lengthy reports directed to the legislature but which are not useful for the responsible people. The CEC should devote its efforts to study topics that the legislature can use such as the energy sources which are suitable for generating 24/7 commercial electricity.

I know that this advice will not be heeded by the CEC so here are some things that they must consider.

First and foremost you are trying to compensate for the largest faults of solar and wind energy, They are diffuse and unreliable. They cannot generate 24/7 commercial electricity Their useful output does not match the load demand of the grid. You will have to deal with the large difference between the nameplate rating of solar and wind devices and their actual output. It will be necessary to install as much as four times the nameplate output to adequately feed the storage devices. Energy storage can aid in overcoming this fault but only at great expense which the taxpayers and ratepayers will see in their tax rates and electric bills. Make no mistake, the public will not be happy when they finally learn the cost of reducing greenhouse gas production by less than meaningful amounts.

Francis A. Brandt