

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

Order Instituting Rulemaking to Implement
Portions of AB117 Concerning Community
Choice Aggregation

Rulemaking 03-10-003
(October 2, 2003)

**ROBERT FREEHLING PHASE II REBUTTAL TESTIMONY
ON BEHALF OF LOCAL POWER**

May 16, 2005

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OF THE STATE OF CALIFORNIA**

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REBUTTAL TESTIMONY OF PAUL FENN ON BEHALF OF LOCAL POWER

Q: Have you previously submitted testimony in this phase of the proceeding?

A: Yes, my Opening Testimony was distributed on April 28, and my Reply Testimony distributed on May 12 after Judge Malcolm granted my Motion to Accept Late Filing until that date.

Q: What is the purpose of this reply testimony?

A: I am responding to the direct and reply testimony submitted by other parties to this Community Choice Aggregation (CCA) rulemaking, particularly with respect to issues regarding the process for handling CCA implementation plans at the Commission, the “open season” for CCAs to declare their intent to provide service, tariff issues raised by the investor-owned utilities (IOUs) and other parties, including CCAs, and matters relating to the calculation of the CCA Cost Responsibility Surcharge (CRS). Failure to comment on any particular issue does not imply any position on such issues.

Q: Do you agree with the Reply Testimony of the utilities indicating that there is no basis for limiting a CCA CRS Liability based on the contents of an Implementation Plan?

A: No, there clearly is a basis for identifying benefits .

Q: Can you estimate the benefits based on an example?

A: I will propose the attribution of a Kwh Rate for the Implementation Plan approved with recommendation by the San Francisco Local Agency Formation Commission on May 13, 2005 and which will be considered for adoption by the Board of Supervisors. This involves the installation of 360 MW of renewables, conservation and energy efficiency over the first three years of the ESP contract. I would estimate liability for externalities with a *Summary estimated benefit: .6 to 1.3 cents/kilowatt hour of new renewables*). *This consists of* Kwh rate for emissions damages set by EU under ExternE, NOx emissions currently valued over cap thresholds in US, CO2 value per ton trading at near 16 Euro; US and CA regulation cases pending, Emission control of other pollutants (PM10; SO2; O3) reflected in new capacity costs. Total cost of emissions for SF under ExternE ranges for SF can be estimated at between .6 and 1.3 cents per kilowatt hour, *with the majority of environmental benefit going outside the City*. (e.g., Bay Region, Central Valley, Sierras, etc.) This value is assessed as renewable power comes on-line as i) newly built renewable and efficiency/conservation infrastructure in San Francisco/CCA jurisdiction limits and ii) excess RPS portfolio beyond PG&E

Q: Can you estimate benefits from a transfer of Renewable Portfolio Standard Obligations?

A: Yes. *(summary estimated benefit of 1 to 2 cents/kwh for new renewables)* As San Francisco transfers responsibility for its energy supply to an Electric Service Provider, the state mandated RPS value of existing PG&E procurement for San Francisco (currently at about 13% RPS for PG&E) will revert to the general pool of other PG&E ratepayers. Premium value of renewable energy freed up can be assessed by its RECs market value, which is the cost PG&E would have needed to spend to replace the renewable assets/purchases, but without the actual benefit of a real power source. RECs currently cost 1 to 2 cents per kilowatt-hour, depending on the energy source. The scarcity of renewable generation, and the competition in California to get it, will help drive this market value. Purchase of RECs from a remote site imposes a cost on customers who do not see a benefit in either real power supply, and the resource value and security it provides, or their local environment. A second cost burden that PG&E would avoid is potential state mandated fees for shortfall in renewable portfolio when these come into effect.

Q: Can you estimate benefits from reduced market pressure on Resources?

A: **Yes.,** *based on functional relationship between lower expected demand for resource; translates into lower kwh rates for all PG&E customers due to investments of SF CCA.)* Volatility of natural gas prices is driven by marginal utility. Reduction in demand reduces gas prices for all. SF schedule of renewables/energy efficiency should be evaluated as it comes on line to replace demand for natural gas resources. San Francisco uses 2% of California's electricity, and likely a similar percentage of its natural gas. Approximately 1/3 of natural gas usage in the state is for electricity, thus about .65% of NG regional demand is for San Francisco's electricity supply. SF renewable/efficiency infrastructure will reduce this initially by about 14%, and later by up to 51%. This represents a significant market leverage over price. Any function between lower demand and lower general price means a transfer of benefits to other customer who continue to by electricity generated from natural gas. In PG&E territory this currently amounts to 42%. The constraint on natural gas prices by reduced demand (either an actual price reduction or avoidance of even higher potential cost) will be a benefit to all ratepayer, especially since NG prices are passed through and account for almost the entire cost of electricity from this source. Price exposure/risk is revealed through 79% over cost of natural gas relative to CEC estimates only 3 years ago (in 2002). NG supplies 43% of PG&E electricity, and represents almost 90% of the cost of generation. Reduction of exposure, because generation sources for all PG&E customers will not have to procure this gas, thus

represents up to 2 cents/kwh risk value under current market conditions. Regional price volatility is also affected by marginal demand reductions of the type discussed in the previous point. Cost of 7% reserve requirement lowered. Again, the marginal cost of reserve power is reduced for all ratepayers by new generation and control of demand. Peak hours benefits to transmission and generation system from locally sited renewables. While these benefits may not be large relative to the overall grid system, they are significant when measured against renewable generation/and efficiency driven demand curtailment.

Q: Can you estimate Grid System Benefits?

A: Yes, eestimated system benefit of 3 to 5 cents/kwh for PV and peak coincident generation and demand reduction. Estimates of benefits of local PV, other distributed power, and demand reduction propagate throughout the entire grid system. Studies have listed these values as:

Reliability

Loss savings from power plant output and transmission/distribution power losses

Substation cost reduction (due to longer life)

Transmission and distribution capacity deferral

Minimum load savings when generation coincides with peak load

One study showed a system savings value for PV set at or near a substation in PG&E territory at between \$295 and \$425 per kilowatt year. *This translates to between 3.4 and 4.9 cents per kilowatt-hour in system wide benefits.* These benefits accrue particularly when renewable energy is a) distributed on the power grid and b) coincident with peak loads Thus, PV in particular has the ability to realize large benefits to the entire rate paying population. As San Francisco builds out 31 megawatts of PV, the researched system benefits should be evaluated on this basis.

Q: Does this conclude your Rebuttal Testimony?

A” Yes, it does.

**CERTIFICATION OF SERVICE
R.03-10-003**

I, Julia Peters, certify that on this day May 16, 2005, I caused copies of the attached REBUTTAL TESTIMONY OF ROBERT FREEHLING ON BEHALF OF LOCAL POWER to be served on all parties by emailing a copy to all parties identified on the service list provided by the California Public Utilities Commission for this proceeding, and also by delivering an original and six copies to the Docket office.

Dated: May 16, 2005 at Oakland,
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