

Ref: Defining the Living Pilot: Symposium of Ideas

Nov. 6, 2013, 9:30 a.m.-4 p.m.

CPUC, 505 Van Ness Ave., San Francisco

A Proposal for a Transactive Retail Tariff Living Pilot

In response to this CPUC request for ideas for a “living” pilot to help address the SONGS closure, local reliability, grid stability and resiliency, we are pleased to make this proposal for a Transactive Retail Tariff Living Pilot.

This pilot would implement the idea of a transactive retail tariff on an opt-in basis for customers in the western Los Angeles basin affected by the closure of SONGS and limitations on transmission and local generation resources.

A transactive retail tariff could

- Save money, energy and improve the environment
- Stabilize customer bills and utility revenues
- Enable buy and sell transactions by customers
- Reduce peak usage
- Enable more renewables, distributed generation and storage

A transactive retail tariff is an opt-in tariff that combines forward subscriptions for energy and distribution services with spot transactions. Transactive retail tariffs can apply to both cost-based and competitive retail services.

The Smart Grid Interoperability Panel (SGIP) has developed a “White Paper on Transactive Retail Tariffs” (<https://www.dropbox.com/s/e2dp1v9c2ricqxs/ITRT-WP-20131015.pdf>). This paper describes the current challenges for utilities and customers that a transactive retail tariff could help address, and outlines how such a tariff could be designed and how it could help.

A transactive retail tariff living pilot for the western Los Angeles Basin or a sub area would be accomplished in a number of stages outlined below:

1. Development of high-level design
2. Approval of high-level design by the CPUC
3. Appointment by the CPUC of an independent board for the pilot
4. Detailed design
5. Workshops to review the design
6. Approval of design by the independent board and submission to the CPUC
7. Approval of design and pilot by the CPUC
8. Implementation
9. Monitoring, analysis, feedback, and improvements
10. Final recommendations by the independent board
11. CPUC, IOU decisions on any further implementations.

We are interested in comments on this idea and we are looking for comments and further ideas to refine this proposal.

Edward Cazalet, PhD ed@temix.com; 408-621-2772

Steven Barrager, PhD steve.barrager@gmail.com

Additional references:

For a high level introduction to Transactive Energy concepts please see
(<http://www.slideshare.net/barrager/transactive-energy-keystone-of-sustainable-electricity-markets>)

For an open discussion of many Transactive Energy concepts, please visit the Transactive Energy Association discussion group at
http://www.linkedin.com/groups?home=&gid=4778076&trk=anet_ug_hm.