

Minutes, PSMA Energy Efficiency Committee

August 18, 2015

Most of the teleconference meeting was devoted to planning the Industry Session for APEC2016 in Long Beach, CA.

The topics were discussed and potential speakers were identified for a number of them. The names of candidate speakers are not included in the minutes because some have not been contacted.

We cannot make any official announcements or extend official invitations until we are notified of the acceptance of the proposal, though, in practice, no PSMA proposal has ever been rejected. Also, until formal notification, we will not know the specific time nor how many time slots we have. It very likely will be six or seven.

Attached is a draft of the proposal. The deadline for submittal is September 7, 2015, though we plan to submit it sooner. Please look it over and make suggestions, particularly if you see any errors.

The committee also voted to extend the contract for Anagenesis for maintaining the Energy Efficiency Database. This will be presented to the Board of Directors for approval on Friday, August 21, 2015.

Dusty Becker
Ed Herbert
Co-Chairmen
PSMA Energy Efficiency Committee

Proposal for an Industry Session for APEC2016

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The PSMA Energy Efficiency Committee is proposing an Industry Session for APEC2016: **“Smart Products for the Smart Grid”**.

The proposed Industry Session definitely is not a clone the dozens of Smart-Grid forums that are proliferating now. The Industry Session will target the specific interests of the PSMA and APEC audience.

Hypothetically, a small to medium sized power converter manufacturer with limited resources is facing the problem of making their products compatible with the “Smart Grid” or “The Internet of Things (IoT).” What issues must they confront, and what problems do they need to solve?

The following presentation topics were selected as the starting point, recognizing that the list may mature over time as potential speakers identify their specific interests. We already have committed speakers for some of the topics.

Smart Products for the Smart Grid:

1. Virtual Power Plant, what it is and why it is important

In some respects, the Virtual Power Plant wraps up the whole reason for the Smart Grid, and is a unifying topic for its many diverse parts.

2. Communications content

Command/response communications: This is not so much how (wireless, over the wire, telephone) as it is objectives, what will be monitored, what will be controlled, and why.

3. Smart meters

The smart meter potentially is the link between the “Grid” and the smart products that are behind the meter.

Presently, most smart meters do remote reading and delinquent-customer shut-off. Some are advising customers of usage. The future smart meter may be the gate-way for monitoring usage at the customer to the appliance level, and may selectively turn appliances on and off.

4. Load Leveling and Energy Storage

5. Frequency regulation

We will try to find someone who can talk about virtual rotating machines and the 50.2 Hz problem in Europe

6. Voltage and VARs regulation

I have seen some articles on using solar inverters for VARs injection to stabilize voltage.

Some old coal power plants are being reused as synchronous condensers. The boilers and turbines are removed, and the big rotating machine is used for VARs compensation.

7. Fault Tolerance and Healing.

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