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INTEGRATED ENERGY POLICY REPORT

IEPR Commissioner Workshop on

Demand Response

August 8, 2017



Overview of GFO 15-311

ADVANCING SOLUTIONS THAT ALLOW CUSTOMERS TO MANAGE THEIR ENERGY DEMAND THROUGH THE USE OF TRANSACTIVE SIGNALS

- Research goal: to compare response of different customer groups and program designs using existing incentive/tariff structures and a common transactive signal.
 - Specifically,
 - Develop, test and demonstrate the technical aspects of this communication and response
 - to evaluate demand response capabilities under both supply-side and demand-side approaches
 - to identify, inform and develop strategies for overcoming technical, institutional and regulatory barriers to expanding DR participation in California
 - to fund applied research and development projects that test and assess how groups or aggregations of distributed resources respond to current, planned and potential price signals.



CATEGORY 3: DEVELOP A TRANSACTIVE SIGNAL

- Electric Power Research Institute, Inc.
 - Transactive Incentive Signals to Manage Electricity Consumption (TIME): A System for Transactive Load Management

Working with Group 1 and 2 awardees, EPRI is developing the actual signal to be sent, received and evaluated for customer response by the other grant recipients



CATEGORY 1: DR AS A SUPPLY-SIDE RESOURCE

- BMW of North America, LLC
 - Total Charge Management: Advanced Charge Management for Renewable Integration
<http://innovation.energy.ca.gov/SearchResultProject.aspx?p=30999&tk=636349564461320395>
- Center for Sustainable Energy
 - Meeting Customer and Supply-side Market Needs with Electrical and Thermal Storage, Solar, Energy Efficiency and Integrated Load Management Systems
<http://innovation.energy.ca.gov/SearchResultProject.aspx?p=31042&tk=636349559301440703>
- OhmConnect, Inc.
 - Empowering Prosumers to Access Wholesale Energy Products
 - <http://innovation.energy.ca.gov/SearchResultProject.aspx?p=31036&tk=636349560340842051>



CATEGORY 2: DR AS A DEMAND SIDE RESOURCE

- Electric Power Research Institute, Inc. (EPRI)
 - Customer-centric Demand Management using Load Aggregation and Data Analytics
<http://innovation.energy.ca.gov/SearchResultProject.aspx?p=31041&tk=636349559977839359>
- Alternative Energy Systems Consulting, Inc. (AESC)
 - Residential Intelligent Energy Management Solution: Advanced Intelligence to Enable Integration of Distributed Energy Resources
 - <http://innovation.energy.ca.gov/SearchResultProject.aspx?p=31008&tk=636349560706340679>
- The Regents of the University of California (Berkeley)
 - Customer-controlled, Price-mediated, Automated Demand Response for Commercial Buildings
<http://innovation.energy.ca.gov/SearchResultProject.aspx?p=31035&tk=636349561620789231>
- Universal Devices, Inc.
 - Complete and Low Cost Retail Automated Transactive Energy System (RATES)
 - <http://innovation.energy.ca.gov/SearchResultProject.aspx?p=31034&tk=636349561962732463>
- The Regents of the University of California (UCLA)
 - Identifying Effective Demand Response Program Designs for Small Customer Classes
 - <http://innovation.energy.ca.gov/SearchResultProject.aspx?p=31007&tk=636349564300956507>



Questions:

- 1) What type(s) of DR do you expect your participants to be able to provide (in terms of the LBNL DR Potential Study DR taxonomy—Shape, Shift, Shed, Shimmy).
- 2) Describe the barriers/problems/issues you've run into in trying to get your project up and running.