

From: Rice Lori

To: Anthony Serafini

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Subject:

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Message:

Experiments will implement and investigate the feasibility of broadband connectivity (via experimental white space technology) to wirelessly enable remote power distribution substations and allow electrical utility consumers to track and manage real-time energy consumption (ref: National Broadband Plan Goal #6).

Broadband connectivity between 2 sets of substations will enable real-time monitoring of switchgear, consumption, and fault data. Geographically, these experiments will wirelessly enable two substations (Beckwourth, CA and Quincy, CA) using available TV Band White Spaces spectrum.

Broadband connectivity to residences will be used to facilitate residential power monitoring and management (remote and local). These experiments will be performed in Plumas Pines, CA (1 access point + 6 residences (CPE)) and Sloat, CA (1 access point + 2 residences (CPE)). Different types of CPE may be tested and evaluated but the initial test will be run using Google Green Energy technology.

The total number of units (of all types) is ~14.

All equipment is experimental and will be deployed on a temporary basis. This is a technology trial it will not be provided as a commercial service. Should additional or different tests and experiments be required as a result of the first phase an amended experimental license will be requested.