



Date: March 28, 2013

Subject: **FY14 Technology Innovation (TI) Funding Opportunity Announcement BPA-0002617 – Questions and Answers**

The following questions have been provided to the Financial Assistance Officer (FAO) as of the date indicated above either in writing or at the pre-conference on March 15, 2013 with answers available at this time. All questions that are not clearly answered within the announcement will be provided separately on the TI Funding Opportunity Exchange website for applicants review. Questions should be submitted in writing to the FAO Matt DeLong at mldelong@bpa.gov.

Questions and Answers are separated by category; General, Focus Area, and Transmission Roadmap. Please scroll through each section to determine whether your application may be affected.

GENERAL QUESTIONS

1. Q. Would BPA could consider a company from outside the US as a potential contractor – collaborator?

A. BPA does not prohibit entities from outside the US from submitting applications and have collaborated with several over the last few years. The same requirements for the application apply.

2. Q. Can principal investigators, organization project leaders, partners, or participants change or be added between the phase 1 and 2 applications?

A. Yes, but the expectation would be that they are at least as experienced/ qualified as those identified in Phase 1. Adding additional partners or participants would usually be okay.

3. Q. How much BPA collaboration is required for each project?

A. BPA is substantially involved in each project from initial review, project change recommendations, stage gate reviews, monthly status reports, and overall support. However, specific BPA staff time and input is not required for each task nor a specific number of meetings required (beyond a TI Summit Presentation). Please identify your required amount of BPA involvement if additional is needed above the project management practices noted above.



FOCUS AREA QUESTIONS

FOCUS AREA #1 – TRANSMISSION POWER FLOW CONTROLS

No new Questions.

FOCUS AREA #2 - SYNCHROPHASOR DATA INTELLIGENCE

No new Questions

FOCUS AREA #3 – DEMAND RESPONSE EMERGING TECHNOLOGIES

1. Q. Can parties other than BPA dispatch a DR asset now or in the future?

A. While this is possible, it is a complicated issue the BPA would need to fully coordinate. Multi-tenancy would be required for this to be acceptable. This may be considered in the future and could be proposed by an applicant.

2. Q. Does BPA track, and would they share, information about distribution utilities AMI equipment and MDMS (meter data management systems)?

A. BPA informally tracks AMI activity from time-to-time, but does not maintain an accurate or thorough inventory of AMI and MDMS systems in the region.

3. Q. Is BPA able to grant access to an OpenADR server either directly or through a partner/vendor?

A. BPA has a subscription to a hosted/web-based OpenADR compliant DR dispatch platform through 8/2014. There are some one-time and ongoing monthly costs to add additional sites and licenses to the system. BPA is assessing future DR dispatch options. Any projects requirements for this access must be included in your application so it can be fully assessed for cost and feasibility.

4. Q. Is BPA interested in transactive control? If so, is BPA able to provide access to a transactive control signal?

A. BPA is helping sponsor the Pacific Northwest Smart Grid Demonstration Project. That project is developing a transactive control signal that will be tested by utilities and other project participants across the region. The project lasts five years, is about half completed and is just beginning to test transactive control. BPA does not expect to have a transactive control signal ready for use by additional organizations by fiscal year 2014.

5. Q. Would BPA be interested in a project that would demonstrate DR from both lighting and HVAC?

A. BPA has no specific preference for this type of project. BPA welcomes proposals assessing the DR potential of combined projects if aligned with at least one section of the focus area.



6. Q. Does BPA know of any DR lighting projects in the NW?

A. During approximately 2008-2009, BPA helped sponsor a DR project with Seattle City Light and Lawrence Berkeley National Lab. The project assessed the DR potential of several commercial building loads, including some lighting. For more information, please see: <http://drrc.lbl.gov/publications/northwest-open-automated-demand-response-technology-demonstration>. BPA is not aware of any other significant DR lighting projects in the Pacific Northwest. BPA encourages the applicant to review current projects that are similar to what they are doing to understand why it is different.

7. Q. On page 9 of the Opportunity Announcement, it says that BPA is focused on either demand response pilots that have the ability to provide INCs and DECs year round or DECs during Light Load Hours. Generally, DR lighting is only capable of providing INCs. Would a successful DR lighting project need to provide DECs?

A. BPA recognizes that some loads may not be suitable for and/or efficient when used for providing dispatchable load increases (DECs). BPA will consider lighting DR projects without load increase (DEC) testing.

8. Q. Does the following on page 11 of the Opportunity Announcement mean that projects that do not include all of the facility types (e.g. only include a public facility and commercial office/retail) would not be successful?

Assess and demonstrate the use of lighting controls to provide DR. Include a broad scope to assess what can be controlled and what it costs across several types of residential, commercial, industrial, street and area, and public facility lighting applications.

A. A submitted project would not have to include all areas, only a broad scope that could compare multiple facility types and applications.

9. Q. Is there a minimum project size or preferred project size in terms of DR target decrease?

A. There are no DR-specific minimum project sizes (beyond any in the general opportunity announcement).

10. Q. Which, if any, of the following would BPA consider a priority with regard to a DR lighting project?

1. Control through OpenADR
2. Transactive control
3. Demonstration of Fast DR
4. HVAC DR integration
5. Occupancy use/preferences to estimate anticipated potential DR decrease by building use, time of day, and year
6. Cost associated with different types of installations (e.g. different building type, level of control, integration with HVAC)
7. Showing benefits in addition to DR including EE and other benefits the system provides to the user/building manager



A. BPA does not consider any one of the seven project attributes more important than the other six. The specifics of each project would determine which would provide the most benefits, most feasible, and most applicable to BPA.

FOCUS AREA #4 – CLIMATE CHANGE STREAMFLOW MODELING

1. Q. **Can land use modeling be considered as a part of any project in this focus area?**

A. It can be if it affects hydrologic modeling. Any land use modeling that would not be related to hydrologic modeling would be considered out of scope.

FOCUS AREA #5 – HYDRO OPERATQION FORECASTING OF SINGULAR WEATHER USAGE READINGS AND REGIONAL LOADS

No questions.

TRANSMISSION ROADMAP QUESTIONS

No questions.