

Bonneville Power Administration

Presentation to the Northwest Energy Efficiency Taskforce
Executive Committee by Mike Weedall, VP Energy Efficiency

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1. ***“Is your organization planning to ramp up energy efficiency acquisition? If so, how much and over what time period? Do you have a conservation potential study and/or energy efficiency implementation plan? Is the study/plan based on assumptions similar to those being used in the development of the 6th power plan?”***

BPA is committed to working with its utility customers to achieve the public power share of conservation targets in the Council’s 6th Power Plan. For FY’10, BPA has increased its internal conservation target to 80aMW – up from 52aMW in FY’09 – and anticipates further increase through FY14 to achieve the 5-year targets in the Power Plan.

Over the last several years, BPA has taken several steps to prepare for increasing targets and prepare for the phase-out of CFLs. BPA has developed sector strategies that are guiding the expansion of existing programs and development of new programs, including 3rd party delivery, to meet near-term targets. Given that much of the potential identified in the Power Plan is not yet market or program ready, BPA has also drafted an internal framework for technology innovation and emerging technology work. BPA is ramping up program marketing and developing communication mechanisms. This information is currently incorporated into an updated EE Plan set to be complete by December 2009.

2. ***“Are there specific existing program areas that are the focus of your efforts? If so, why do those programs come to the forefront?”***

In order to realize the conservation potential identified in the 6th Power Plan, BPA is looking to expand existing programs across all sectors. Examples by sector include:

- *Residential:* ductless heat pumps, lighting, weatherization, HVAC
- *Commercial:* lighting, Energy Smart Grocer Program
- *Agricultural:* variable frequency drives, motors
- *Industrial:* Energy Smart Industrial Program

These programs are areas of emphasis because they have the potential to generate significant near-term savings while BPA, working with its partners, undertakes other initiatives to make new technologies program and market ready.

3. “What three or four newer technologies do you see having the best potential to be a significant contributor to your efforts to significantly ramp up energy efficiency achievement? Do you have or are you developing new programs for these technologies?”

It is unlikely that a technology will emerge that will yield the same level of cost-effective savings as CFLs over the next 5 years. Consistent with the Council's Conservation Potential Assessment, BPA believes that several newer technologies – including commercial light emitting diodes, consumer electronics, ductless heat pumps, and energy management – will contribute to meeting regional targets. BPA is collaborating with regional partners to develop and/or expand program offerings in these areas. For example, BPA is working with NEEA to expand ductless heat pump applications and consumer electronics and has incorporated energy management into its new industrial program.

4. Are there emerging technologies, new initiatives or research activities that you are independently pursuing? What market and program research are you pursuing?

Ensuring that emerging technologies become program ready in the next several years is critically important to achieving the conservation potential identified in the 6th Power Plan. Given the resources available to the region, it is important that we leverage the knowledge and information available and coordinate our efforts. To that end, BPA has collaborated with experts around the country to develop a framework for its technology innovation (TI) and emerging technology (ET) work and is looking forward to collaboration with NEEA on a regional framework. Significant TI and ET work is also ongoing. In FY10, BPA plans to continue work on a range of technologies including: heat pump water heaters, ductless heat pump, rooftop unit servicing, multi-family reverse cycle chillers, and smart monitoring and diagnostics.

5. Are there completely new approaches that you are considering as part of your overall conservation efforts?

BPA is currently pursuing several new approaches to conservation. For example, BPA is working with utilities that are piloting programs to evaluate whether there are persistent savings associated with consumer behavior modification strategies. As part of the new Energy Smart Industrial Program, BPA will also be evaluating the savings potential associated with incorporating energy efficiency information into industrial operations and maintenance decisions and processes. BPA is also collaborating on innovative program delivery mechanisms and on tools to better support program marketing.

6. What are the challenges/opportunities that you see in your efforts energy efficiency efforts? What are your plans to address those challenges / opportunities? Are any of those challenges/opportunities capable of being more productively addressed at the regional level?

BPA and the region face several challenges when it comes to meeting higher conservation targets. For example,

- **Replacing CFLs** – CFLs currently account for about half of BPA’s conservation. BPA is ramping up programs to maintain constant acquisition numbers, thus increasing the pressure to quickly ready new technologies for implementation.
- **Human Resources** – Developing and implementing new and existing programs at the pace necessary to achieve higher targets could be hindered by lack of skilled personnel. While BPA is working to focus existing staff and leverage contractors, the region would be well served to improve overall collaboration.
- **Pace of New Technology Development** – To ramp up the array of new technologies that will be needed to reach regional targets, coordination on new technology development will be critical. To this end, BPA will be working with NEEA to collaborate on an emerging technology framework.
- **Measure Approval and Program Development**–Given the rate at which new measures need to be implemented, the region needs to expand and improve the process for approving measures through the Regional Technical Forum (RTF). Further, BPA will continue to streamline our own program delivery mechanisms.

7. *Are there other organizations you are relying upon to make your energy efficiency efforts more successful? How will you be relying on them?*

BPA is committed to achieving the public power share of all cost-effective conservation in the Council’s Power Plan. Collaboration is key to BPA’s success. While BPA delivers savings through several mechanisms, BPA relies largely on its utility customers to market programs to end users. Assessing the potential of a new technology and preparing it for implementation is also a collaborative process. BPA works with organizations like NEEA to research new technologies, with the RTF to approve measures for broad implementation, and with states, tribes, utilities, and other organizations (e.g., the Energy Trust of Oregon) to develop program delivery mechanisms.