

FEDERAL UTILITY PARTNERSHIP WORKING GROUP SEMINAR

November 2-3, 2016
Bellevue, WA

Bonneville Power Administration
Energy Smart Federal Partnership Program

David J. Lee, CEM
Michael R. Huber, PE, CEM

Hosted by:



Today's Talk

- What is BPA
- Why BPA is Involved/Agency Benefit
- ESFP
- Where we Target our Services
- UESC/Process
- Past Program Accomplishments
- Current Program Engagements

What is BPA?

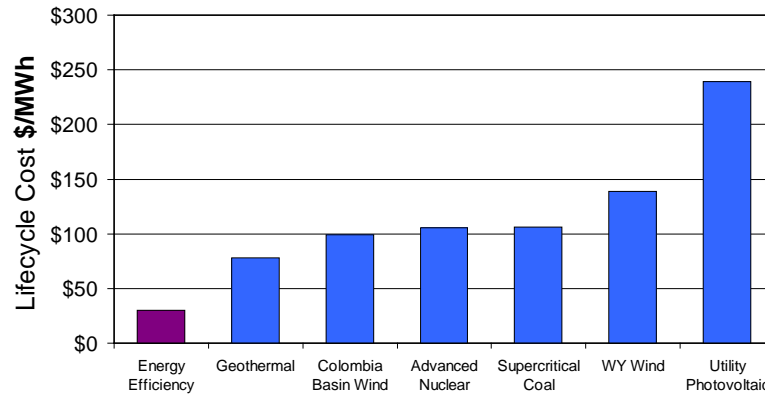
- Nonprofit self funded federal power marketing administration based in the Pacific Northwest...since 1937!
- One of several USDOE Federal Power Marketing Administrations/agencies
- Markets **wholesale** electrical power from
 - 31 federal hydroelectric projects in the Northwest
 - one nonfederal nuclear plant
 - several small nonfederal power plants.
- 28% of nearly carbon free electricity for Northwest Region
- O&M for $\frac{3}{4}$ of high voltage transmission lines in territory

What is BPA?

- Promotes energy efficiency, renewable resources and new technologies
- Funds regional efforts to protect and rebuild fish and wildlife populations affected by CRB hydropower development
- Committed to public service
- BPA's Vision
 - provides high system reliability,
 - low rates/sound business principles,
 - environmental stewardship and accountability.

Why BPA is involved?

- EE is our least cost resource



- Per Northwest Power Act(1980), BPA must meet EE Targets from NWPPCC Plan... currently on our 7th power plan.
- Limits BPA reliance on open power market/manages load, creates opportunities

Benefits to Federal Agencies

- Reduces Federal Agency energy, utility, O&M costs.
- Improves agency facilities infrastructure (lighting, HVAC, etc.)
- Supports agency to meet their sustainability EO goals

Energy Smart Federal Partnership

- General Energy Efficiency Information
- Technical Assistance (Planning)
- Financing/Financial Incentives
- Verifying Project Performance
- Holding Earned Incentives
- UESC/Task Orders
- Contracting surveys, designs, installations

WHAT THE PARTNERSHIP IS, WILL DEPEND ON YOUR NEEDS...

UESC/Process Highlights

- Process begins with discussion of EE opportunity
- UESC...enabling agreement/MOU...roles/responsibilities
- Task Orders with service/project deliverables/Cost
- Funded by agency or BPA facilitates 3rd party financing.
- Subcontracts using BPA Supply Chain
- “Pass through” pricing as per BPA Policy- No profit
- Project mgmt./oversight by BPA EE Staff
- Utility Incentives can be held by BPA for more EE work

Past Program Accomplishments

- History: In the 1990s, during a downturn in Conservation programs, BPA launched its Federal Program to help agencies meet FEMP requirements; this reimbursable work kept several BPA field engineers employed.
- Past Agencies worked with: State Department, National Park Service, Coast Guard, NOAA, GSA, Navy, JBLM, VA, etc.

Past Program Accomplishments

- CO₂ Emissions Reduction
 - 75,000 Metric Tons/year
- Energy Savings
 - 41 aMW (enough power for ~30,000 avg. U.S. homes)
- Water Savings
 - 2.8 Billion Gallons/year
- Cost Avoidance
 - \$18.5 Million/year
- Recognition
 - Awards for client Fed Agency and BPA



Current UESC Program Engagements

- **JBLM.** Partnership with Tacoma Public Utilities. LED street/parking fixtures underway; interior/wallpack LEDs planned.
- **Navy Region NW.** New BOA signed.
- **Veterans Affairs**
 - Seattle, American Lake(Tacoma), Vancouver
- **USDA.** Multiple USFS Sites

Navy Region NW UESC Highlights

- Since 1989 there have been a sequence of Basic Ordering Agreements (BOAs).
- BPA worked at California bases; PG&E had no federal program at the time.
- BPA also worked at PSE bases after their BOA expired & before their current UESC.

Navy Region NW UESC Highlights

- We now address only Pacific NW federal sites, and we prefer those that are served by BPA itself or BPA utility customers.
- Bremerton and Bangor are direct served by BPA. Naval Station Everett is served by Snohomish PUD, BPA's largest customer.
- We address energy efficiency for all fuels and water. We count O&M savings.

Navy Region NW UESC Highlights

- All NW bases (including PSE-served) have LED street/parking lights. Many bases have LED wall packs.
- At Everett bases we will soon retrofit interior with LED reflector kits.
- De-commissioning steam systems at some locations. Upgrading central steam plants elsewhere.

Future....

- More UESCs in territory
- ?SEM Cohort for EO13693?
- ?Advisory EE role for agencies out of territory?

Thank you!



For more info: David J. Lee, Federal Energy Efficiency Program Sector Lead
djlee@bpa.gov 503.230.4349
Michael R. Huber, Navy UESC Program Mgr.
mrhuber@bpa.gov 503.220.6778
www.bpa.gov/EE/sectors/federal

Federal Utility Partnership Working Group
November 2-3, 2016 Bellevue, WA

