



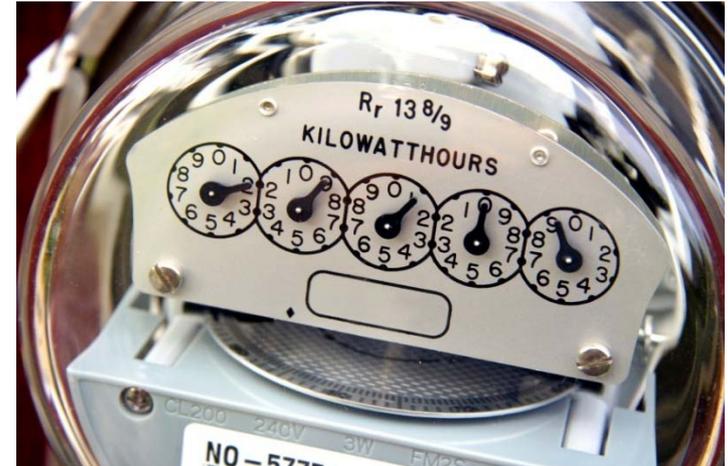
Federal Sector Energy Efficiency: The Unique Way that BPA Works with Other Federal Agencies

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(Thanks are due Curt Nichols & Allie Robbins)



Today's Topics

- Federal Sector defined & potential savings
- How BPA Targets Federal Agencies
- Steps to Savings (by federal sub-sector)
- BPA's Role (How we help)
- Source/Scope of Savings
- Past Accomplishments
- What's Ahead
- Contacts



The Federal Sector

- **The Federal Sector includes**
 - Federally owned or occupied facilities
 - Examples: post offices, military bases, ranger stations, courthouses, national parks

- **Within the Pacific Northwest**
 - Oregon
 - Washington
 - Idaho
 - Western Montana



Federal Sub-Sectors

- **Utility Served Federal (USF)**
 - Most federal facilities – including GSA buildings, VA clinics and hospitals, Forest Service ranger stations, Coast Guard bases, FAA control towers, JBLM
 - Serving utility can work with them directly
- **Direct Served Federal (DSF)**
 - US Navy (3 Puget Sound sites)
 - DOE-Hanford
 - Fairchild Air Force Base (Spokane)
- **No Serving Utility (NSU)**
 - Station Service (hydro and BPA transmission facilities)
 - Reserve Power (irrigation districts and fish hatcheries)



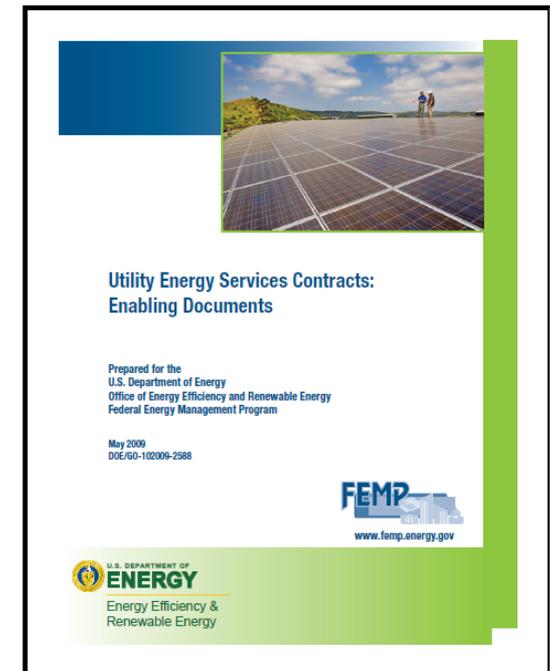
Total Federal Sector Potential

- **Utility Served Federal (USF)**
 - 15-25 aMW
- **Direct Served Federal (DSF)**
 - 20-30 aMW
- **No Serving Utility (NSU)**
 - 40-50 aMW
- **Federal Sector Total**
 - 75-115 aMW (BPA's planning estimate = 90 aMW)
- **Savings Goal (FY12)**
 - 3.0 aMW (no savings from the NSU sub-sector)



How ESFP Targets its Services

- **BPA's Federal Work Focuses On:**
 - Electric Energy-Saving Projects
 - In Consumer-Owned Utility Areas (only if needed)
 - Agencies with UESC Agreements
 - Advise/assist Feds (Labs do too)



Energy Smart Federal Partnership

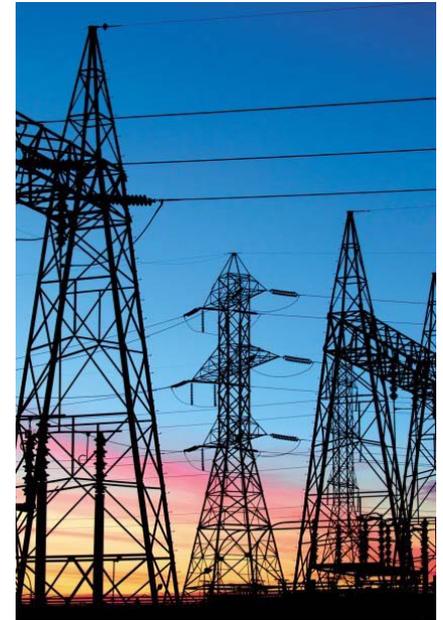
Federal Agencies are helped by ESFP

- **General Energy Information**
- **Technical Assistance & Planning**
- **Access to Financing**
- **Connect to local utility & incentives**
- **Design/Construct/Verify**
- **Hold Earned Incentives**
- **Meet FEMP and EO goals**
- **Facilitate Recognition**
 - **Case Studies and Awards**



Federal Agencies Get Savings

- **Sign an Interagency Agreement with BPA**
- **Complete site efficiency assessment**
- **Obtain capital to implement efficiency project**
 - Appropriated funds, or end of year funds
 - ESCO shared savings (ESPC route)
 - UESC financing (third-party loan)
- **Apply for utility incentive**
- **Complete efficiency project**
- **Verify performance**
- **Collect (or assign) incentive**
- **Report savings / Produce case study**



USF – Utility Served Federal sites

USF Projects Work like other Sectors

- Utilities set incentive levels; provide rebate
- Measures follow BPA Implementation Manual and utility requirements
- BPA Programs staff may facilitate project financing (and the analysis leading to that)
- BPA Engineers may manage projects
- BPA can hold an Agency's earned incentive
- Earned incentives can be reinvested to get even more savings



DSF – Direct Served Federal sites

DSFs now have their own ECAs/EEIs

- Will use EE Central like a utility customer
- Measures follow the BPA Implementation Manual
- EE Engineers may manage projects
- Example: **Navy (multiple bases)**
 - Six \$3 – 7 Million UESC financings
 - Implement some appropriated projects
 - BPA serves as Prime Contractor
 - Financing cover some gas-saving & IOU electric projects
 - Gas, IOU rebates can be re-invested to our projects
 - Can purchase & drop ship products for Navy installation



NSU – Sites with No Serving Utility

Energy Smart Reserve Power (ESRP)

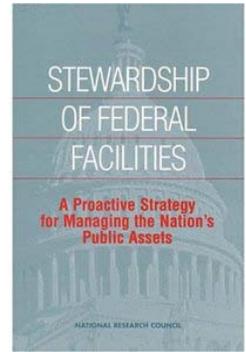
- Target Reserve Power Irrigation Districts
 - Send out an annual solicitation (call for projects)
 - Select projects with the lowest incentive rate
 - RPIDs do their own installation (in the off season)
- Include other NSU sites if funds remain
 - Federal Hydropower Facilities
 - Reserve Power Fish Hatcheries
 - BPA's Station Service Substations
- Funded as a FY13-14 regional program pilot



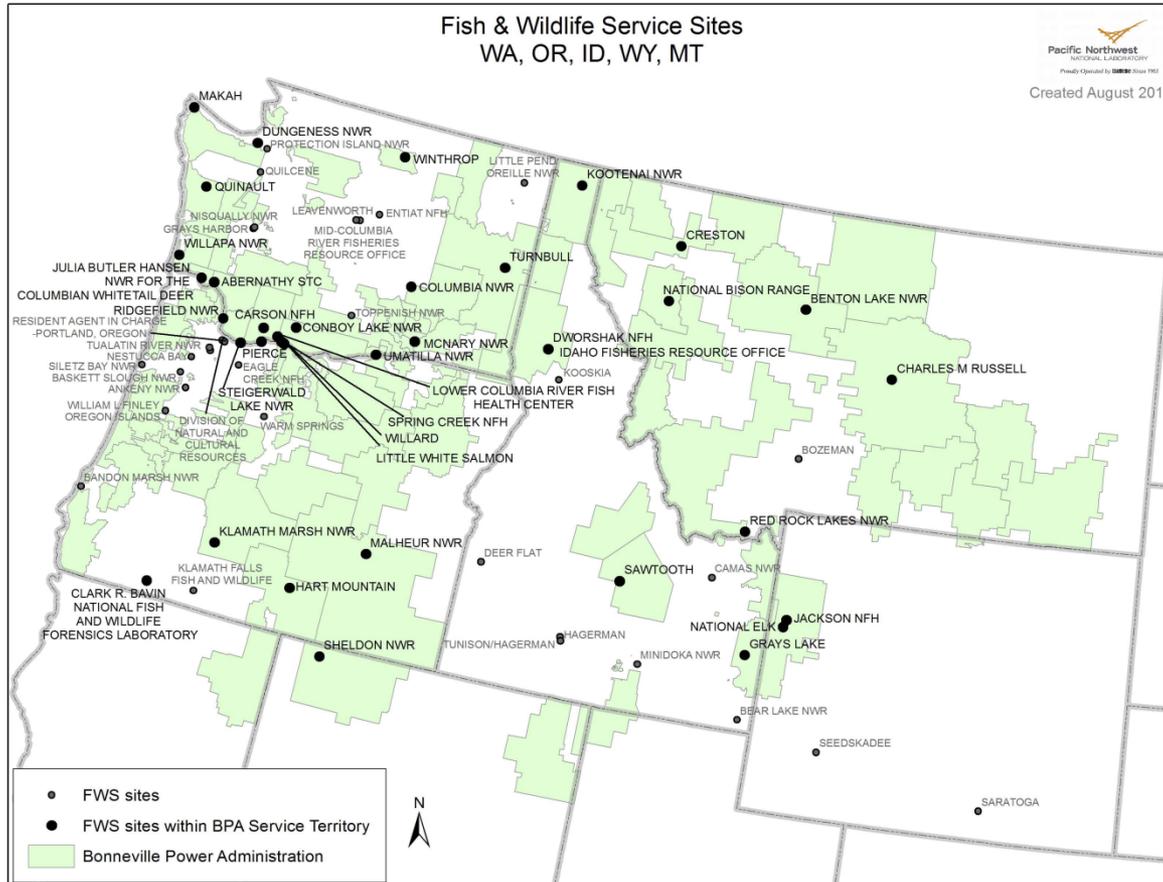
Working with Multi-Sited Agencies

A Federal “Chain & Franchise” Exercise

- Work with the Regional Headquarters
- Identify Broad Energy Efficiency Goals
- Identify Specific Sites for Efficiency Projects
- Connect the Agency with the Serving Utilities
- Assist the Agency with Contractor Selection (or manage the implementation ourselves)
- Hold their Earned Incentives for Future Reinvestment (if necessary)
- Help them Document/Report their Savings



Fish & Wildlife: One Agency, Many Sites



Utility Energy Service Contract (UESC) with the Agency's Regional Office. Individual Projects Possible in a Variety of Utility Service Areas

Single Site Efficiency Projects

- **Much like EE work in other sectors**
 - Utilities set the incentive levels & provide rebates to Agency, Contractor, or BPA
 - Measures follow Utility & BPA requirements
 - EE Engineers or Contractors assist on projects
 - Example: **JBLM (Tacoma Power)**
 - \$18 Million UESC Financing in 2008
 - Includes PSE gas-saving projects too
 - Voltage Optimization being considered
 - Coordinating with the Corps of Engineers to implement financed funds



Who We've Worked With

- **Army**

- Joint Base Lewis McChord (JBLM)



- **Forest Service**

- West Yellowstone



- **Fish & Wildlife**

- Dworshak Fish Hatchery



- **GSA**

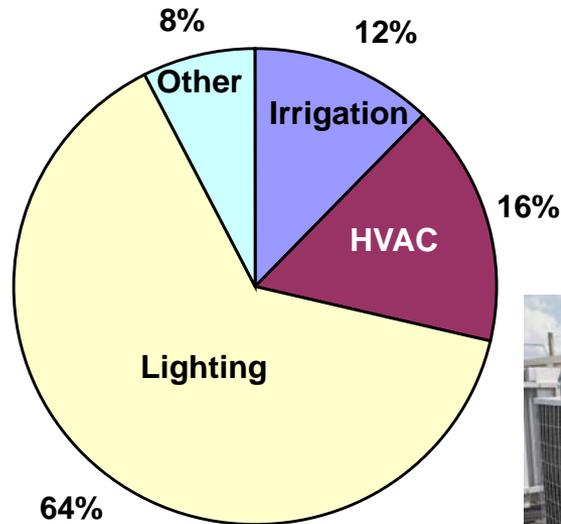
- Tacoma Union Station



- **Navy** (DSF & USF bases)

Source of ESFP Savings

Efficiency Project Type (FY '08 through FY '10)



What ESFP Has Accomplished

- **Energy Savings**
 - 33 aMW (power for 9,600 homes)
- **Water Savings**
 - 2 Billion Gallons/year
- **Cost Avoidance**
 - \$14.5 Million/year
- **CO₂ Emissions**
 - 99,900 Metric Tons/year
- **Recognition**
 - Awards for BPA and client agencies



Energy Smart Federal Partnership

What's Ahead for ESFP:

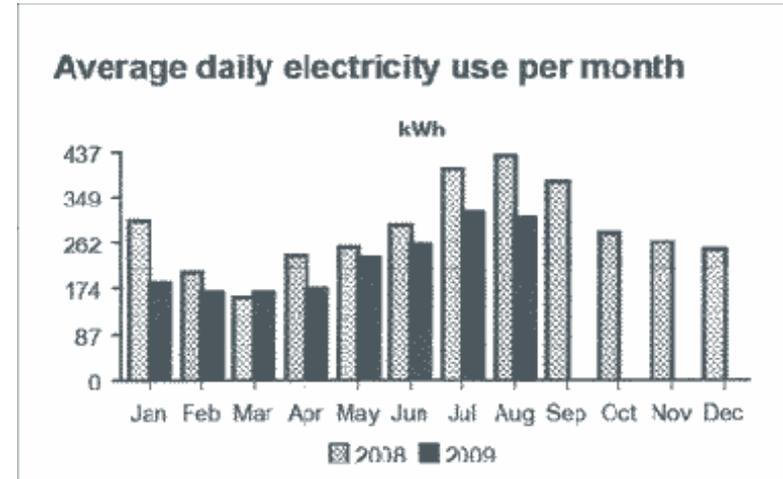
- **Agency Rep at BPA – Single point of contact**
- **Closer ESFP/EER/Utility coordination**
- **Potential new agency agreements:**
 - **Veterans Administration**
 - **Forest Service (Region 6)**
 - **Fish & Wildlife**
 - **Federal Aviation Admin**
- **More Content on the Federal Sector web page:
www.bpa.gov/Energy/N/federal.cfm**



Energy Smart Federal Partnership

Partnering is Smart:

- **Federal Agency**
- **Local Utility**
- **Financier**
- **Vendor**
- **Contractor**
- **Bonneville Power**



Contacts

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