

# Efficient Irrigation Districts: **Financial Incentives for Federal Irrigation Districts and other FCRPS sites**

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A Presentation to the Tri-State Meeting  
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# Presentation Outline

- Why Bonneville Power is Involved
- Who we are Targeting with this Program
- How you can Improve Efficiency
- What Bonneville Power can do to Help
  - Technical Assistance
  - Financial Incentives
  - Success Stories
- What you can Expect Next



# Why BPA is Involved

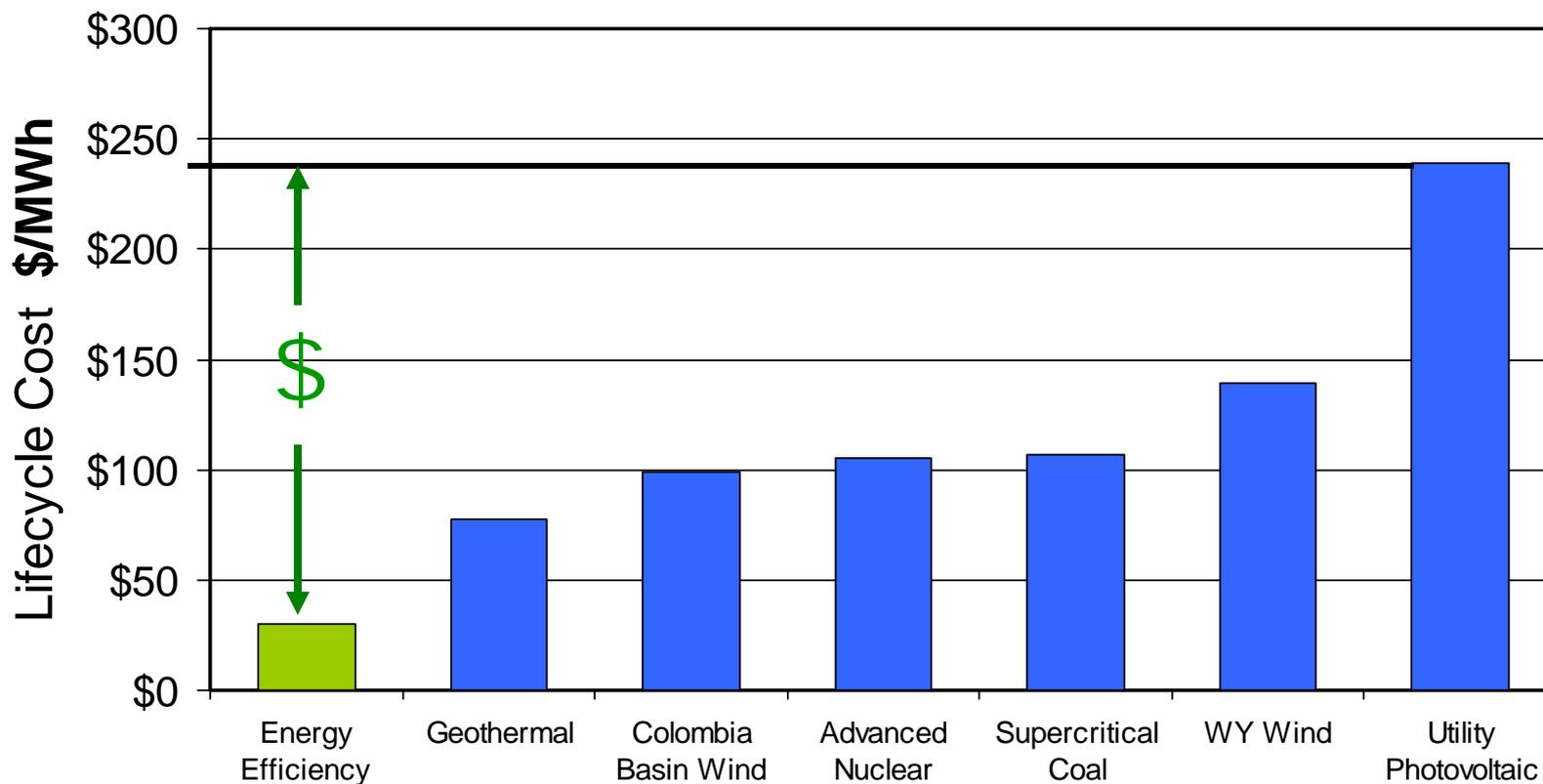
- Optimize FCRPS Resources
- Obtain Additional Electric Supply
- Preserve Streamflow (occasional bounus)
- Support the NW Agricultural Industry



# Efficiency is Inexpensive

As Ben Franklin might say:

**“A Dollar Spent is a Dollar Saved.” Or More.**



# The Savings Add Up

Since 1978, the region's energy savings has effectively "built" two additional powerplants.

**Power Saved:**  
3.9aGW \*



\* Equal to the output of two Grand Coulee Dams

# Federal Sector Accomplishments

## Federal Agencies Assisted

- **21 separate federal agencies (Corps of Engineers, Bureau of Reclamation, Navy, Forest Service, etc)**

## Federal Projects Completed

- **Roughly 300 different projects (Lighting, HVAC, Controls, Specific Processes, Building Shell, etc)**

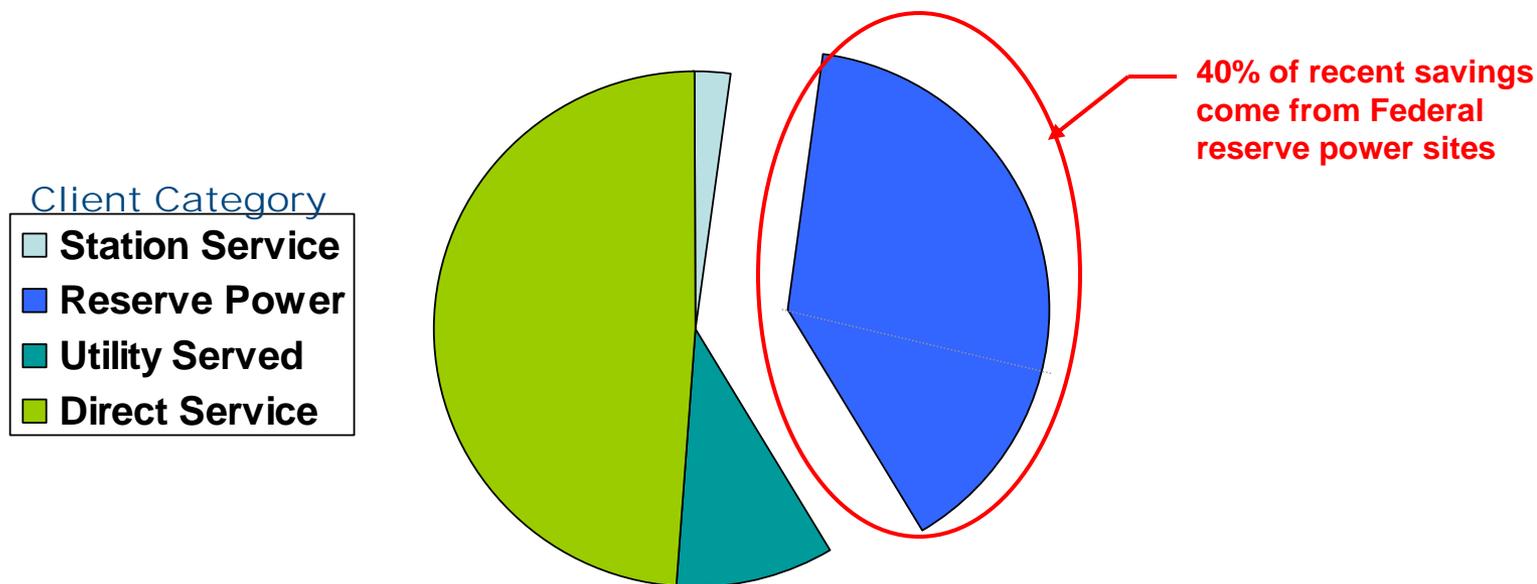
## Energy (and Cost) Savings Achieved

- **73.2 million kWh/yr (equal to 5,000 homes)**
- **\$3.66 million/yr operating budget savings**

Note: Data from the period of FY08 – FY10

# Federal Sector Energy Savings

## Share of Savings by Sub-Sector (Projects Completed FY08-10)



# Introducing....

A background image consisting of several overlapping US dollar bills, including a \$100 bill and a \$20 bill, rendered in a light green, semi-transparent style. The bills are scattered across the page, with some showing the portrait of George Washington and the number '100'.

# Energy Smart Reserve Power

# Who ESRP is Targeting

## Primary Target

- Federally Chartered Irrigation Districts  
(Irrigation Districts using Reserve Power)

## Secondary Targets

- Bureau of Reclamation Hydro Facilities
- Corps of Engineers Hydro Facilities
- BPA Transmission Substations  
(Substations operating on Station Service)
- Federal Fish Hatcheries  
(Hatcheries operating on Reserve Power)

# Irrigation District Upgrades

## ■ Energy/Water Efficiencies

- Lining/Enclosing Canals
- Efficient Pump Motors
- Variable Speed Drives
- Pump Motor “Rightsizing”



# What ESRP can do to Help

- **Technical Assistance**
- **Financial Incentives**
- **Success Stories**



# What to Expect Next

## June '11

- ESRP incentive applications available

## August '11

- ESRP applications due to BPA

## October '11

- ESRP incentive agreements signed

## Later

- ESRP projects completed (by the IDs)
- Performance verified, incentives paid (by BPA)

With remaining funds available for Corps, Bureau, etc

# Program Overview

## Energy Smart Reserve Power (ESRP)

- **\$2.0 Million of incentive available (FY12)**
- **Access by project-specific application**
- **Allocations of funds based on cost per kWh**
- **Water savings can be factored in too**
- **Unallocated funds available for Bureau, Corps, or other facilities with no serving utility**
- **Incentives paid upon project completion and performance verification**
- **Annual solicitations planned for future years**

# Utility Served Irrigation Districts

Similar assistance is available for:

- **Non-Federal Irrigation Districts**
- **Individual Irrigators**

Technologies targeted include:

- **Efficient Irrigation Equipment Retrofits**
- **Scientific Irrigation Scheduling (SIS)**
- **Green Motors Initiative**

Contact your local utility for details.

# Questions & Answers

Energy Smart Reserve Power

**For Questions Now:**

**Ask away (as much as time will allow)**

**To Follow-up Later:**

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# Thank You!

