

# BPA FACTS

Unless otherwise noted, information is for fiscal year 2003.

## Profile

The Bonneville Power Administration is a federal agency, under the U.S. Department of Energy, that markets wholesale electrical power and operates and markets transmission services in the Pacific Northwest. The power comes from 31 federal hydro projects, one nonfederal nuclear plant and several other small nonfederal power plants. The hydro projects and the electrical system are known as the Federal Columbia River Power System. About 45 percent of the electric power used in the Northwest comes from BPA. BPA's transmission system accounts for about three-fourths of the region's high-voltage grid, and includes major transmission links with other regions.

BPA is a self-funding agency, which pays for its costs through power and transmission sales. Both power and transmission are sold at cost, and BPA repays any borrowing from the U.S. Treasury with interest.

BPA's customers include publicly owned and investor-owned utilities, as well as some large industries. BPA also sells or exchanges power with utilities in Canada and the western United States.

Revenues BPA earns help it fulfill public responsibilities that include low-cost and reliable power and investments in energy conservation and renewable resources. BPA also funds the region's efforts to protect and rebuild fish and wildlife populations in the Columbia River Basin.

## General Information

BPA established	1937
Service area size (square miles)	300,000
Pacific Northwest population	11,430,633
Transmission line (circuit miles)	15,341
BPA-owned substations	251
Employees (FTE)	3,153

## BPA service area

Oregon, Washington, Idaho, western Montana and small portions of Wyoming, Nevada, Utah, California and eastern Montana.

## Other facts

- About 70 percent of the power BPA sells is hydroelectric.
- BPA owns and operates more than three-fourths of the high-voltage transmission grid in the Pacific Northwest.
- BPA has spent more than \$7 billion to support Northwest fish and wildlife recovery which includes more than \$3.5 billion in energy purchases and loss of energy sales due to fish operations.
- Since 1981, BPA has saved over 800 average megawatts of energy through its energy conservation programs.

## Mission Statement

BPA exists to meet its public responsibilities through commercially successful businesses.

## Public Responsibilities

- Assure an adequate, economical, efficient and reliable power supply to the Pacific Northwest.
- Ensure transmission access, public preference and regional preference to customers.
- Fulfill environmental and social obligations, such as protection and enhancement of fish and wildlife and leadership in conservation and renewables development.
- Preserve and balance the economic and environmental benefits of the Columbia River federal hydropower system (as one of the key river managers).

## 2003 Financial Highlights <sup>1/</sup> (\$ in thousands)

### Operating Results

Revenues	\$3,556,839
SFAS 133 mark-to-market	55,265
Total operating revenues	3,612,104
Total operating expenses	2,711,089
Net operating revenues	901,015
Net interest expense	345,591
Net revenues	\$ 555,424

<sup>1/</sup> For the Federal Columbia River Power System.

## Balance Sheet (as of Sept. 30, 2003)

### Assets:

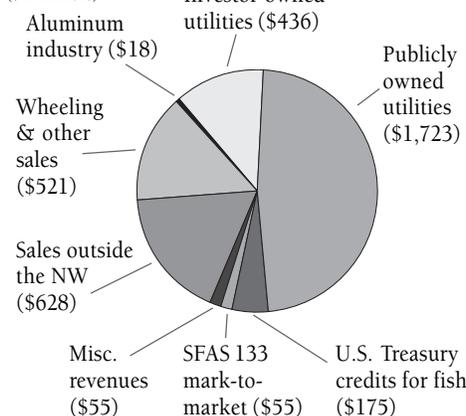
Federal generation & transmission	\$ 8,901,362
Nonfederal projects	6,286,593
Decommissioning cost	126,000
Conservation	374,443
Fish and wildlife	128,337
Current assets	1,212,584
Other assets	230,756
Total assets	\$ 17,260,075

### Capitalization & liabilities:

Accumulated net revenues	\$ 343,748
Federal appropriations	4,607,476
Capitalization adjustment	2,124,697
Long-term debt	2,521,554
Non-federal projects debt	6,045,931
Decommissioning reserve	126,000
Current liabilities	860,167
Deferred credits	630,502
Total capitalization & liabilities	\$ 17,260,075

## 2003 Sources of Revenue

(\$ in millions)



## Federal Hydro Projects

Name	River, State	In Service	Nameplate Rating
Albeni Falls	Pend Oreille, ID	1955	43 MW
Anderson Ranch	Boise, ID	1950	27 MW
Big Cliff	Santiam, OR	1953	18 MW
Black Canyon	Payette, ID	1925	10 MW
Boise River Diversion	Boise, ID	1912	0 MW <sup>2/</sup>
Bonneville	Columbia, OR/WA	1938	1,093 MW
Chandler	Yakima, WA	1956	12 MW
Chief Joseph	Columbia, WA	1958	2,458 MW
Cougar	McKenzie, OR	1963	25 MW
Detroit	Santiam, OR	1953	100 MW
Dexter	Willamette, OR	1954	15 MW
Dworshak	Clearwater, ID	1973	400 MW
Foster	Santiam, OR	1967	20 MW
Grand Coulee <sup>3/</sup>	Columbia, WA	1942	6,779 MW
Green Peter	Santiam, OR	1967	80 MW
Green Springs	Emigrant Crk, OR	1960	17 MW
Hills Creek	Willamette, OR	1962	30 MW
Hungry Horse	Flathead, MT	1953	428 MW
Ice Harbor	Snake, WA	1962	603 MW
John Day	Columbia, OR/WA	1971	2,160 MW
Libby	Kootenai, MT	1975	525 MW
Little Goose	Snake, WA	1970	810 MW
Lookout Point	Willamette, OR	1953	120 MW
Lost Creek	Rogue, OR	1977	49 MW
Lower Granite	Snake, WA	1975	810 MW
Lower Monumental	Snake, WA	1969	810 MW
McNary	Columbia, OR/WA	1952	980 MW
Minidoka	Snake, ID	1909	28 MW
Palisades	Snake, ID	1958	176 MW
Roza	Yakima, WA	1958	11 MW
The Dalles	Columbia, OR/WA	1957	1,808 MW
<b>Total (31 dams)</b>			<b>20,445 MW</b>

Owned and operated by the U.S. Army Corps of Engineers (21 dams)  
Owned and operated by the Bureau of Reclamation (10 dams).

<sup>2/</sup> Currently undergoing a major upgrade.

<sup>3/</sup> Includes pump generation.

## Transmission System

Operating voltage	Circuit miles
1,000 kV	264 <sup>4/</sup>
500 kV	4,498
345 kV	570
287 kV	125
230 kV	5,323
161 kV	46
138 kV	69
115 kV	3,838
below 115 kV	608
<b>Total</b>	<b>15,341</b>

<sup>4/</sup> BPA's portion of the PNW/PSW direct-current intertie. The total length of this line from The Dalles, Ore., to Los Angeles is 846 miles.



## BPA Rates

### Wholesale power rates<sup>5/</sup> (4/1/04-9/30/04)

Average Priority Firm (shaped, undelivered)	3.28 cents/kWh
Average Priority Firm (flat, undelivered)	2.90 cents/kWh
Residential Load (flat, undelivered)	2.90 cents/kWh
Priority Firm Exchange (flat, undelivered)	2.90 cents/kWh

<sup>5/</sup> Shaped and flat products are different. For a shaped product, BPA provides power to meet the moment-to-moment variability in load within the BPA customer's system. For a flat product, or block, there is no variation in the amount of power BPA provides to the customer. These rates do not include the cost of transmission.

### Transmission rates<sup>6/</sup> (FYs 2004-2005)

#### Network rates:

Firm	\$15.132/kW/yr
Nonfirm	.363 cents/kWh

#### Southern Intertie rates:

Firm	\$16.908/kW/yr
Nonfirm	.406 cents/kWh

<sup>6/</sup> Includes the rates for point-to-point transmission service plus the two required ancillary services. All short-term firm and nonfirm rates are downwardly flexible.

### Generation (CY 2003)

Average federal hydro generation	7,745 aMW
Average total generation	11,215 aMW
60-min. hydro peak generation	15,943 MW
60-min. total peak generation	17,690 MW
All-time 60-min. total peak generation record (June 2002)	19,802 MW

### BPA Resources<sup>7/</sup>

(for OY 2004 under 1937 water conditions)

<b>Sustained peak capacity</b>	<b>16,430 MW</b>
hydro: 13,620 MW (82.9%)	
nuclear: 1,150 MW (7%)	
firm contracts & other resources:	1,660 MW (10.1%)
<b>Firm energy</b> (12-month annual avg.)	<b>9,926 aMW</b>
hydro: 6,978 aMW (70.3%)	
nuclear: 1,000 aMW (10.1%)	
firm contracts & other resources:	1,948 aMW (19.6%)

### Regional Resources<sup>7/</sup>

(for OY 2004 under 1937 water conditions)

<b>Sustained peak capacity</b>	<b>39,777 MW</b>
hydro: 24,361 MW (61.2%)	
coal: 5,842 MW (14.7%) <sup>8/</sup>	
nuclear: 1,150 MW (2.9%)	
imports: 1,632 MW (4.1%) <sup>8/</sup>	
combustion turbines: 3,338 MW (8.4%)	
cogeneration: 2,227 MW (5.6%)	
non-utility generation: 1,135 MW (2.9%)	
other miscellaneous resources: 92 MW (0.2%)	
<b>Firm energy</b> (12-month annual avg.)	<b>23,974 aMW</b>
hydro: 11,681 aMW (48.7%)	
coal: 5,065 aMW (21.1%) <sup>8/</sup>	
nuclear: 1,000 aMW (4.2%)	
imports: 843 aMW (3.5%) <sup>8/</sup>	
combustion turbines: 2,018 aMW (8.4%)	
cogeneration: 1,963 aMW (8.2%)	
non-utility generation: 1,310 aMW (5.5%)	
other miscellaneous resources: 94 aMW (0.4%)	

<sup>7/</sup> Forecast figures from BPA's 2002 *Pacific Northwest Loads & Resources Study*. The values listed have been reduced to take into account capacity and energy adjustments. Capacity adjustments include forced outage reserves, spinning reserves, hydro maintenance and transmission loss reductions. Energy adjustments include hydro maintenance and transmission losses reductions.

<sup>8/</sup> PacifiCorp's shares of the Jim Bridger coal plant, units 1 through 4, are now shown as coal resources dedicated to the PNW region. In prior studies, power from these projects was shown as an import.

## Fish & Wildlife Investments

(\$ in millions)

BPA F&W program expense <sup>9/</sup> (does not include \$6.1 million capital)	\$147.1
F&W expenses of other entities	52.6
Repayment for capital investments	<u>56.7</u>
Program expenses subtotal	\$256.4
Hydro operations:	
Power purchases	\$171.1
Foregone power sales	<u>79.2</u>
Hydro operations subtotal	<u>250.3</u>
<b>Total F&amp;W Investments for FY 2003</b>	<b>\$506.7</b>

<sup>9/</sup> Integrated program and action plan/high priority.

## Conservation

(\$ in millions)

	FY 2003	Total <sup>10/</sup>
<b>Total BPA expenses</b>	<b>\$86</b>	<b>\$1,978</b>
<b>Megawatts saved:<sup>11/</sup></b>		
Residential programs	9.7 aMW	212 aMW
Commercial programs	13.4 aMW	137 aMW
Industrial programs	3.2 aMW	90 aMW
Agricultural programs	2.0 aMW	16 aMW
Multi-sector programs	6.8 aMW	118 aMW
Con/Mod	0 aMW	0 aMW
Programs subtotal	35.1 aMW	573 aMW
Improved building codes	4.2 aMW	185 aMW
Market transformation	<u>16.0 aMW</u>	<u>44 aMW</u>
<b>Total aMW saved</b>	<b>55.3 aMW</b>	<b>802 aMW</b>

<sup>10/</sup> Cumulative total since 1981.

<sup>11/</sup> Two significant adjustments were made to conservation savings in 2003: 1) Savings from the ConMod Program were removed since the plants are closed; and 2) CFL savings were overestimated and adjusted to reflect actual savings.

## Senior Executives

Steve Wright, *Administrator*  
 Steve Hickok, *Deputy Administrator*  
 Ruth Bennett, *Chief Operating Officer*  
 Allen Burns, *Executive Vice President,*  
*Industry Restructuring*  
 Terry Esvelt, *Senior Vice President,*  
*Employee and Business Resources*  
 Mark Maher, *Senior Vice President,*  
*Transmission Business Line*  
 Paul Norman, *Senior Vice President,*  
*Power Business Line*  
 Randy Roach, *Senior Vice President,*  
*General Counsel*

## Points of Contact

### General BPA Offices & Web Sites

**BPA Headquarters** • 905 N.E. 11th Ave. • P.O. Box 3621  
 • Portland, OR 97208 • (503) 230-3000 • Web site <http://www.bpa.gov>

**Public Information Center** • 905 N.E. 11th Ave.  
 • P.O. Box 3621 • Portland, OR 97208 • (503) 230-7334  
 • 1-800-622-4520

**Public Involvement** • P.O. Box 14428 • Portland, OR  
 97293-4428 • (503) 230-3478 • 1-800-622-4519

**Washington, D.C. Office** • Forrestal Bldg., Room 8G-061  
 • 1000 Independence Ave., S.W. • Washington, DC 20585  
 • (202) 586-5640

**Crime Witness Program** • 1-800-437-2744 • To report crimes to BPA property or personnel.

### Transmission Business Line's Regional Offices

**TBL Headquarters** • P.O. Box 491  
 • Vancouver, WA 98666-0491 • (360) 418-2000

**Eugene Regional Office** • 86000 Hwy. 99 S.  
 • Eugene, OR 97405 • (541) 465-6991

**Idaho Falls Regional Office** • 1350 Lindsay Blvd.  
 • Idaho Falls, ID 83402 • (208) 524-8750

**Olympia Regional Office** • 5240 Trospen Rd. S.W.  
 • Olympia, WA 98512-5623 • (360) 704-1601

**Redmond Regional Office** • 3655 W. Highway 126  
 • Redmond, OR 97756 • (541) 548-4015, ext. 3225

**Snohomish Regional Office** • 914 Ave. D  
 • Snohomish, WA 98290 • (360) 568-4962

**Spokane Regional Office** • 2410 E. Hawthorne Rd.  
 • Mead, WA 99021 • (509) 358-7376

**Walla Walla Regional Office** • 6 W. Rose St., Suite 400  
 • Walla Walla, WA 99362 • (509) 527-6241

### Power Business Line's Customer Service Centers

**Bend CSC** • 1011 S.W. Emkay Dr., Suite 211  
 • Bend, OR 97702 • (541) 318-1680

**Big Arm CSC** • P.O. Box 40  
 • Big Arm, MT 59910 • (406) 849-5034

**Burley CSC** • 2700 Overland  
 • Burley, ID 83318 • (208) 678-9481

**Eastern Area CSC** • 707 W. Main Ave., Suite 500  
 • Spokane, WA 99201 • (509) 358-7409

**Richland CSC** • Kootenai Bldg., Room 215 • North Power  
 Plant Loop • P.O. Box 968 • Richland, WA 99352  
 • (509) 372-5771

**Seattle CSC** • 909 First Ave., Suite 380  
 • Seattle, WA 98104-3636 • (206) 220-6759

**Western Area CSC** • 905 N.E. 11th Ave. • P.O. Box 3621  
 • Portland, OR 97208 • (503) 230-3584

## Transmission System and Federal Dams

