

# BPA Facts

INFORMATION IS FOR FISCAL YEAR 2019, UNLESS OTHERWISE NOTED.

## Profile

The Bonneville Power Administration is a nonprofit federal power marketing administration based in the Pacific Northwest. Although BPA is part of the U.S. Department of Energy, it is self-funding and covers its costs by selling its products and services. BPA markets wholesale electrical power from 31 federal hydroelectric dams in the Northwest, one nonfederal nuclear plant and several small nonfederal power plants. The dams are operated by the U.S. Army Corps of Engineers and the Bureau of Reclamation. The nonfederal nuclear plant, Columbia Generating Station, is owned and operated by Energy Northwest, a joint operating agency of the state of Washington. BPA provides about 28% of the electric power generated in the Northwest, and its resources — primarily hydroelectric — make BPA power nearly carbon free.

BPA also operates and maintains more than 15,000 circuit miles of high-voltage transmission in its service territory. BPA's territory includes Idaho, Oregon, Washington, western Montana and small parts of eastern Montana, California, Nevada, Utah and Wyoming.

BPA promotes energy efficiency, renewable resources and new technologies that improve its ability to deliver on its mission. To mitigate the impacts of the federal dams, BPA implements a fish and wildlife program that includes working with its partners to make the federal dams safer for fish passage.

BPA is committed to public service and seeks to make its decisions in a manner that provides opportunities for input from all stakeholders. In its vision statement, BPA dedicates itself to providing high system reliability, low rates consistent with sound business principles, environmental stewardship and accountability.

## Mission

BPA's mission as a public service organization is to create and deliver the best value for our customers and constituents as we act in concert with others to assure the Pacific Northwest:

- An adequate, efficient, economical and reliable power supply.
- A transmission system capable of integrating and transmitting power from federal and nonfederal generating units, providing service to BPA's customers, providing interregional interconnections, and maintaining electrical reliability and stability.
- Mitigation of the impacts on fish and wildlife from the federally owned hydroelectric projects from which BPA markets power.

BPA is committed to cost-based rates and public and regional preference in its marketing of power. BPA will set its rates as low as possible consistent with sound business principles and the full recovery of all of its costs, including timely repayment of the federal investment in the system.

## Core values

### SAFETY

We value safety in everything we do. Together, our actions result in people being safe each day, every day. At work, at home and at play, we all contribute to a safe community for ourselves and others.

### TRUSTWORTHY STEWARDSHIP

As stewards of the Federal Columbia River Power System, we are entrusted with the responsibility to manage resources of great value for the benefit of others. We are trusted when others believe in and are willing to rely upon our integrity and ability.

### COLLABORATIVE RELATIONSHIPS

Trustworthiness grows out of a collaborative approach to relationships. Internally we must collaborate across organizational lines to maximize the value we bring to the region. Externally we work with many stakeholders who have conflicting needs and interests. Through collaboration we discover and implement the best possible long-term solutions.

### OPERATIONAL EXCELLENCE

Operational excellence is a cornerstone of delivering on our vision (system reliability, low rates, environmental stewardship and regional accountability) and will place us among the best electric utilities in the nation.

## General information

BPA established	1937
Service area size (square miles)	300,000
Pacific Northwest population	14,077,620
Transmission line (circuit miles)	15,108
BPA substations	262
Employees (FTE)	2,727

## Customers

Cooperatives	54
Municipalities	42
Public utility districts	28
Federal agencies	7
Investor-owned utilities	6
Direct-service industries	1
Port districts	1
Tribal utilities	3
Total	142

Marketers (power and transmission) <sup>1</sup>	209
Transmission customers	324

<sup>1/</sup> As of June 2020.

## Rates

### Wholesale power rates<sup>2</sup> (fiscal years 2018–2019)

Priority Firm Tier 1 (average <sup>3</sup> , undelivered)	3.56 cents/kWh
Priority Firm Avg. Tier 1 + Tier 2 (undelivered)	3.70 cents/kWh
Priority Firm Exchange (average, undelivered)	6.19 cents/kWh
Industrial Firm (average, undelivered)	4.35 cents/kWh

New Resources . . . . . 7.90 cents/kWh (average, undelivered)

<sup>2/</sup> The rates shown do not include the cost of transmission. They also do not include Spill Surcharge costs.  
<sup>3/</sup> The actual rate paid by an individual customer will vary according to the shape of the load and the products and services purchased.

### Transmission rates<sup>4</sup> (fiscal years 2018–2019)

<b>Network rates</b>	
Long-Term Firm	\$1.471/kW-month
Short-Term	0.423 cents/kWh
<b>Southern Intertie rates</b>	
Long-Term Firm	\$1.038/kW-month
Short-Term	0.956 cents/kWh

<sup>4/</sup> Reflects the rates for point-to-point transmission service. All short-term firm and nonfirm rates are downwardly flexible.

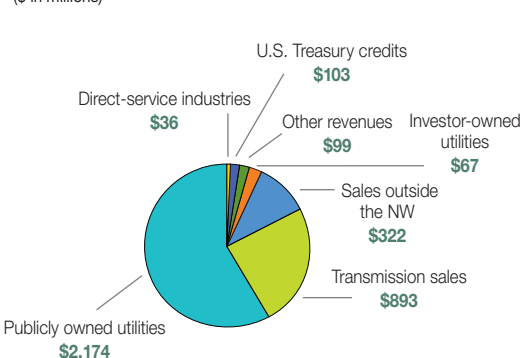
## 2019 Financial Highlights<sup>5</sup>

For the Federal Columbia River Power System (\$ in millions)

Total operating revenues <sup>6</sup>	\$3,656
Total operating expenses	3,200
Net operating revenues	456
Net interest expense	208
Net revenues	\$248

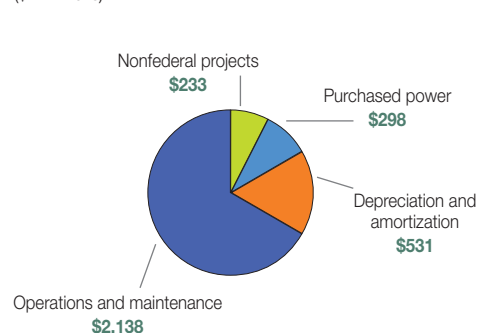
<sup>5/</sup> This information is consistent with BPA's 2019 Annual Report.  
<sup>6/</sup> Includes both power and transmission revenues.

## 2019 Sources of revenues<sup>7</sup>



<sup>7/</sup> Amounts exclude bookouts of -\$38 million. Bookouts represent energy activities not settled by physical delivery of power, when certain conditions apply.

## 2019 Operating expenses<sup>8</sup>



<sup>8/</sup> Purchased power includes the effects of bookouts.



## Transmission system

Operating voltage	Circuit miles
1,000 kV	264 <sup>9</sup>
500 kV	4,867
345 kV	570
287 kV	229
230 kV	5,253
161 kV	119
138 kV	56
115 kV	3,448
below 115 kV	<u>301</u>
Total <sup>10</sup>	15,108

<sup>9/</sup> BPA's portion of the PNW/PSW direct-current intertie. The total length of this line from The Dalles, Oregon, to Los Angeles is 846 miles.

<sup>10/</sup> Total circuit miles as of February 2019.

## Federal hydro projects

Name	River, state	In service	Max capacity
Albeni Falls	Pend Oreille, ID	1955	49 MW
<i>Anderson Ranch</i>	<i>Boise, ID</i>	<i>1950</i>	<i>40 MW</i>
Big Cliff	Santiam, OR	1953	21 MW
<i>Black Canyon</i>	<i>Payette, ID</i>	<i>1925</i>	<i>10 MW</i>
<i>Boise River Diversion</i>	<i>Boise, ID</i>	<i>1912</i>	<i>3 MW</i>
Bonneville	Columbia, OR/WA	1938	1,225 MW
<i>Chandler</i>	<i>Yakima, WA</i>	<i>1956</i>	<i>12 MW</i>
Chief Joseph	Columbia, WA	1958	2,614 MW
Cougar	McKenzie, OR	1963	28 MW
Detroit	Santiam, OR	1953	115 MW
Dexter	Willamette, OR	1954	17 MW
Dworshak	Clearwater, ID	1973	465 MW
Foster	Santiam, OR	1967	23 MW
<i>Grand Coulee<sup>11</sup></i>	<i>Columbia, WA</i>	<i>1942</i>	<i>7,079 MW</i>
Green Peter	Santiam, OR	1967	92 MW
<i>Green Springs</i>	<i>Emigrant Crk, OR</i>	<i>1960</i>	<i>17 MW</i>
Hills Creek	Willamette, OR	1962	34 MW
<i>Hungry Horse</i>	<i>Flathead, MT</i>	<i>1953</i>	<i>428 MW</i>
Ice Harbor	Snake, WA	1962	693 MW
John Day	Columbia, OR/WA	1971	2,480 MW
Libby	Kootenai, MT	1975	605 MW
Little Goose	Snake, WA	1970	930 MW
Lookout Point	Willamette, OR	1953	138 MW
Lost Creek	Rogue, OR	1977	56 MW
Lower Granite	Snake, WA	1975	930 MW
Lower Monumental	Snake, WA	1969	930 MW
McNary	Columbia, OR/WA	1952	1,120 MW
<i>Minidoka</i>	<i>Snake, ID</i>	<i>1909</i>	<i>28 MW</i>
<i>Palisades</i>	<i>Snake, ID</i>	<i>1958</i>	<i>177 MW</i>
<i>Roza</i>	<i>Yakima, WA</i>	<i>1958</i>	<i>13 MW</i>
The Dalles	Columbia, OR/WA	1957	<u>2,086 MW</u>
Total (31 dams)			22,458 MW

Owned and operated by the U.S. Army Corps of Engineers (21 dams, 14,651 MW)

Owned and operated by the Bureau of Reclamation (10 dams, 7,807 MW)

<sup>11/</sup> Includes pump generation.

## BPA resources<sup>12</sup>

(for operating year 2022 under 1937 water conditions)

**Sustained 120-hour peak capacity (January) 11,621 MW**

Hydro	10,110 MW (87%)
Nuclear	1,169 MW (10%)
Firm contracts and other resources	286 MW (3%)
Wind	0 MW (0%)

**Firm energy (12-month annual avg.) 7,658 aMW**

Hydro	6,344 aMW (83%)
Nuclear	1,116 aMW (15%)
Firm contracts and other resources	166 aMW (2%)
Wind	52 aMW (<1%)

## Regional resources<sup>12</sup>

(for operating year 2022 under 1937 water conditions)

**Sustained 120-hour peak capacity (January) 38,126 MW**

Hydro	21,752 MW (57%)
Natural gas	6,825 MW (18%)
Coal	4,195 MW (11%)
Cogeneration	2,715 MW (7%)
Nuclear	1,169 MW (3%)
Imports	1,059 MW (3%)
Other Renewables	206 MW (<1%)
Wind	137 MW (<1%)
Other miscellaneous resources	69 MW (<1%)

**Firm energy (12-month annual avg.) 27,339 aMW**

Hydro	11,564 aMW (42%)
Natural gas	5,872 aMW (21%)
Coal	3,699 aMW (14%)
Cogeneration	2,316 aMW (8%)
Wind	1,814 aMW (7%)
Nuclear	1,116 aMW (4%)
Imports	580 aMW (2%)
Other renewables	177 aMW (<1%)
Solar	175 aMW (<1%)
Other miscellaneous resources	26 aMW (<1%)

<sup>12/</sup> Forecast figures from BPA's "2019 Pacific Northwest Loads & Resources Study," tables 2-4, 2-5, 3-2. Firm resource projections before adjustment for reserves, maintenance and transmission losses. The hydro capacity is reduced by an operational "idle capacity" adjustment to estimate the monthly maximum operational capability that is available to meet the 120-hour peak load for 1937 critical-water conditions. For January 2022 the reduction is -8,133. Totals may not equal sum of components due to rounding.

## Federal generation

Hydro generation	7,252 aMW
Total generation	8,289 aMW
60-min. hydro peak generation	13,959 MW
60-min. total peak generation	14,699 MW
All-time 60-min. total peak generation record (June 2002)	18,139 MW

## Fish and wildlife

(\$ in millions)

BPA F&W program expense (does not include capital)	\$240
Direct funded expenditures	90
Interest, depreciation and amortization expenses	<u>106</u>
Total direct costs	\$436

Operational costs:

Replacement power purchases	178
Estimated forgone power revenues	<u>174</u>

Total F&W costs for FY 2019 \$788

BPA has committed nearly \$17.7 billion since 1978 to support Northwest fish and wildlife recovery.

## Energy efficiency<sup>13</sup>

	FY 2019	Total <sup>14</sup>
Residential programs	12 aMW	531 aMW
Commercial programs	23 aMW	437 aMW
Industrial programs	15 aMW	315 aMW
Agricultural programs	5 aMW	74 aMW
Multi-sector programs	0 aMW	109 aMW
Federal	1 aMW	17 aMW
Utility system efficiency	0 aMW	2 aMW
Improved building codes	0 aMW	189 aMW
Market transformation	5 aMW	254 aMW
Momentum savings <sup>15</sup>	TBD	<u>309 aMW</u>
Total aMW saved <sup>16</sup>	62 aMW	2,238 aMW

<sup>13/</sup> All figures are preliminary and subject to final revision.

<sup>14/</sup> Cumulative total, FY1982-2019.

<sup>15/</sup> Momentum savings are updated at the end of each Power planning period.

<sup>16/</sup> Data through 2018 aligns with 2019 Resource Energy Data Book and may be adjusted from past versions of BPA facts.

## Points of contact

### GENERAL BPA OFFICES AND WEBSITES

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

**BPA Visitor Center** 905 N.E. 11<sup>th</sup> Ave., P.O. Box 3621, Portland, OR 97208; 503-230-INFO [4636]; 800-622-4520

**Public Engagement** P.O. Box 14428, Portland, OR 97293; 800-622-4519; [www.bpa.gov/comment](http://www.bpa.gov/comment)

**Washington, D.C., Office** Forrester Bldg., Room 8G-061, 1000 Independence Ave. S.W., Washington, D.C. 20585; 202-586-5640

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

### TRANSMISSION SERVICES

**Transmission Services Headquarters** P.O. Box 491, Vancouver, WA 98666-0491; 503-230-3000

**Covington District** 28401 Covington Way S.E., Kent, WA 98042; 253-638-3700

**Eugene District** 86000 Hwy. 99 S., Eugene, OR 97405; 541-988-7401

**Idaho Falls Regional Office** 1350 Lindsay Blvd., Idaho Falls, ID 83402; 208-612-3100

**Kalispell District** 2520 U.S. Hwy. 2 E., Kalispell, MT 59901; 406-751-7802

**Longview District** 3750 Memorial Park Drive, Longview, WA 98632; 360-414-5600

**Olympia Regional Office** 5240 Trosper Road S.W., Olympia, WA 98512; 360-570-4305

**Redmond District** 3655 S.W. Highland Ave., Redmond, OR 97756; 541-516-3200

**Salem District** 2715 Tepper Lane N.E., Keizer, OR 97303; 503-304-5996

**Snohomish District** 914 Ave. D, Snohomish, WA 98290; 360-563-3600

**Spokane District** 2410 E. Hawthorne Road, Mead, WA 99021; 509-468-3002

**The Dalles District** 3920 Columbia View Drive E., The Dalles, OR 97058; 541-296-4694

**Tri-Cities District** 2211 N. Commercial Ave., Pasco, WA 99301; 509-544-4702

**Wenatchee District** 13294 Lincoln Park Road, East Wenatchee, WA 98802; 509-886-6000

### POWER SERVICES

**Boise Customer Service Center** 950 W. Bannock St., Suite 805, Boise, ID 83702; 208-670-7406

**Eastern Area Customer Service Center** P.O. Box 789, Mead, WA 99021; 509-822-4591

**Montana Customer Service Center** P.O. Box 640, Ronan, MT 59864; 406-676-2669

**Seattle Customer Service Center** 909 First Ave., Suite 380, Seattle, WA 98104; 206-220-6770

**Western Area Customer Service Center** 905 N.E. 11<sup>th</sup> Ave., P.O. Box 3621, Portland, OR 97208; 503-230-5856

