Bonneville Power Administration

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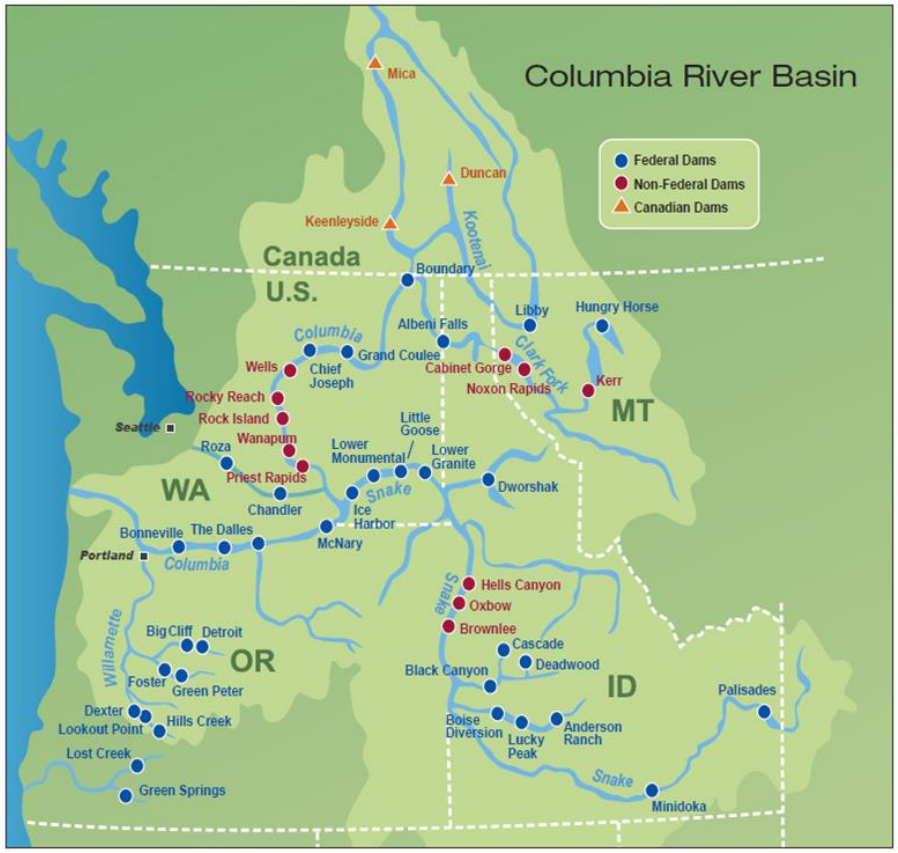
BPA Overview

BPA is a federal power marketing administration headquartered in Portland.

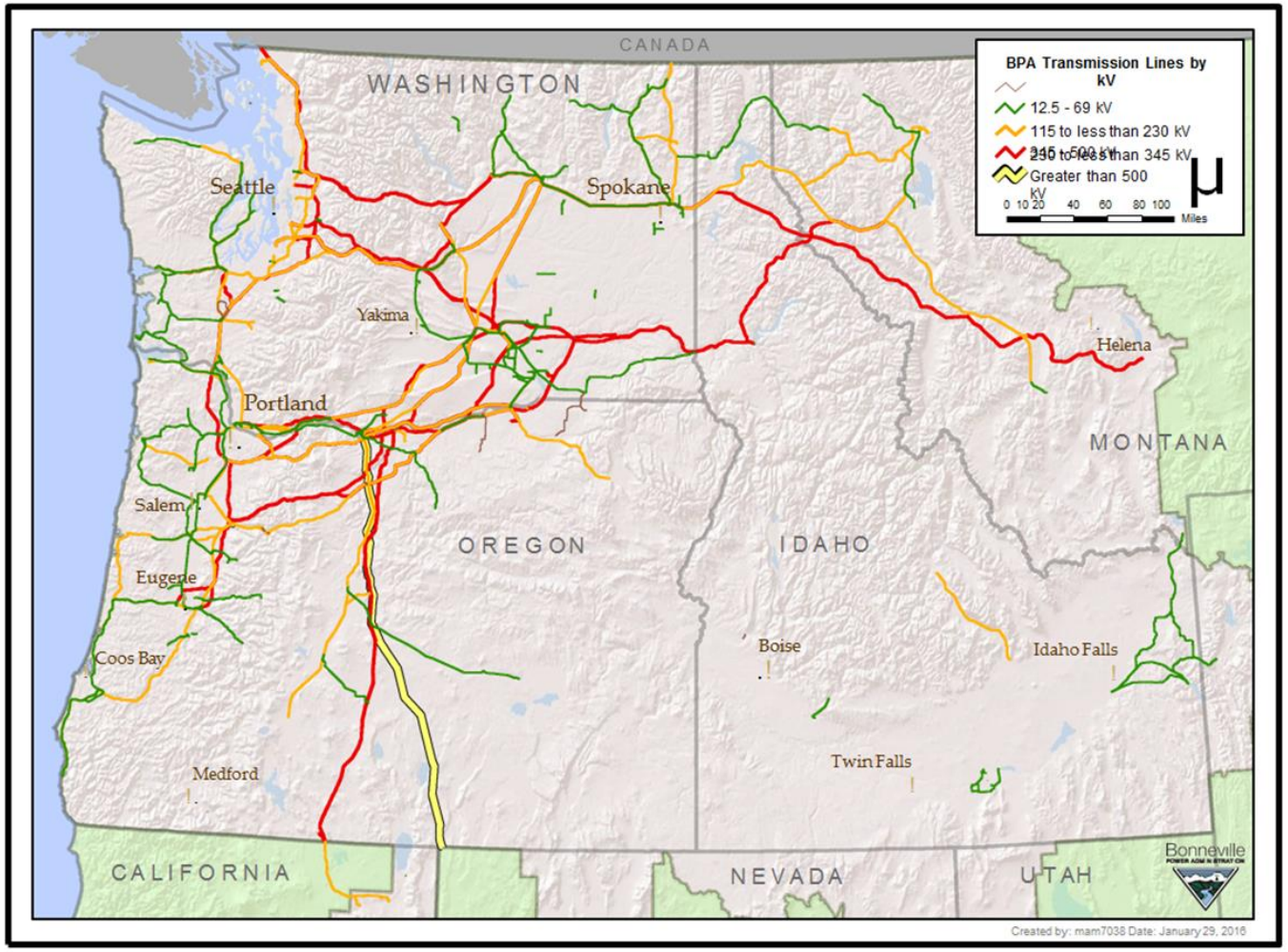
BPA is part of the U.S. Department of Energy, but it is self-funded.

Congress created BPA in 1937 to market the power produced by Bonneville Dam.

BPA markets the largest supply of low cost, clean, carbon free energy in the nation.



Federal Columbia River Transmission System



Transmission System

Operating voltage	Circuit miles
1,000 kV……..... 264*	
500 kV ……....	4,735
345 kV ……....	570
287 kV ……....	229
230 kV ……....	5,324
161 kV ……....	119
138 kV ……....	50
115 kV ……....	3,556
below 115 kV ……...	368
Total	15,215

*BPA's portion of the direct-current intertie. The total length of this line from The Dalles, OR to Los Angeles, CA is 846 miles.

BPA's transmission system contains more than 15,000 miles of high voltage Lines. That's about 75 % of the high voltage grid in the Pacific Northwest.

BPA's 2018–2023 STRATEGIC GOALS

Delivering on our public responsibilities through a commercially successful business

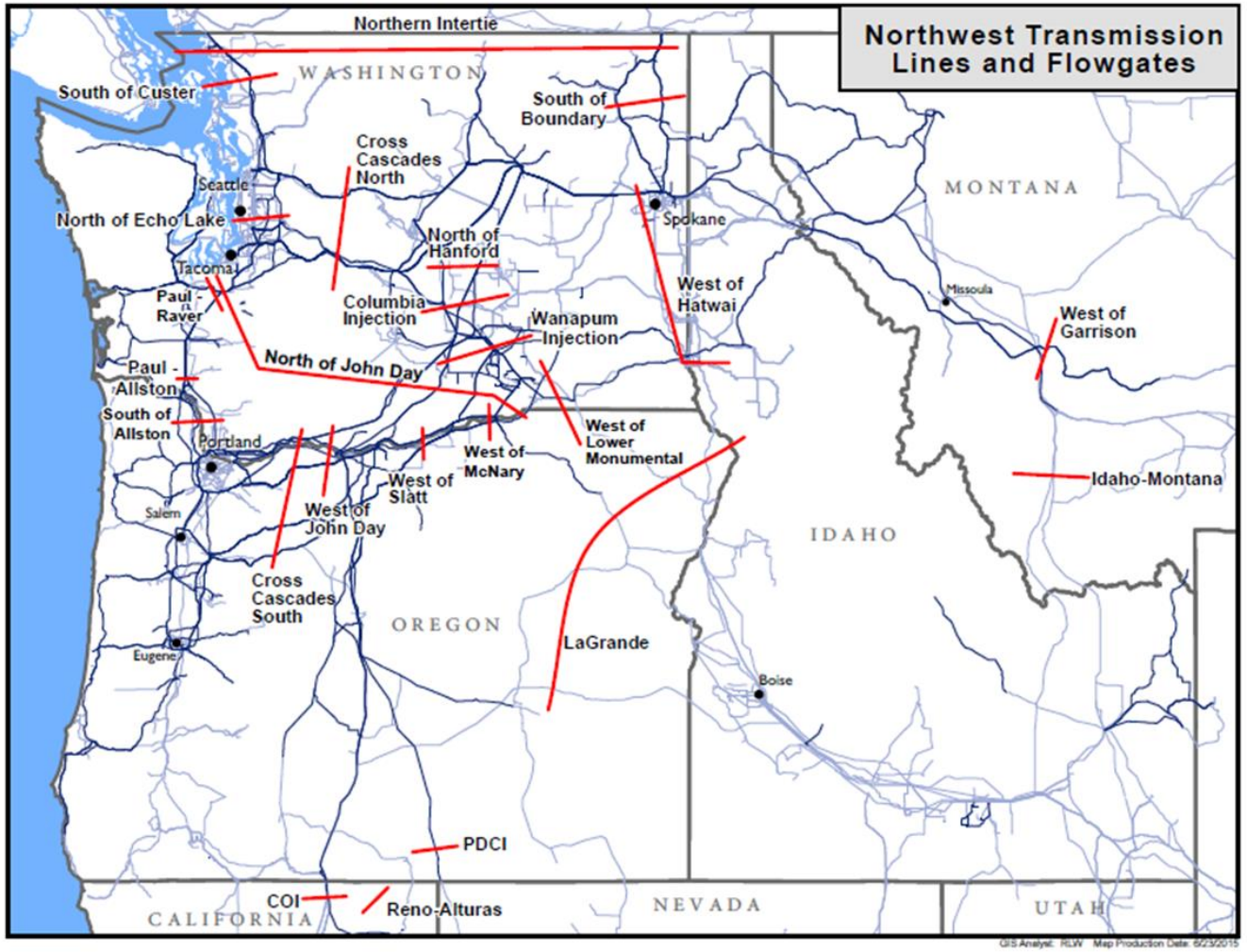
#1 STRENGTHEN **FINANCIAL HEALTH**

#2 MODERNIZE **ASSETS & SYSTEM OPERATIONS**

#3 PROVIDE **COMPETITIVE POWER PRODUCTS & SERVICES**

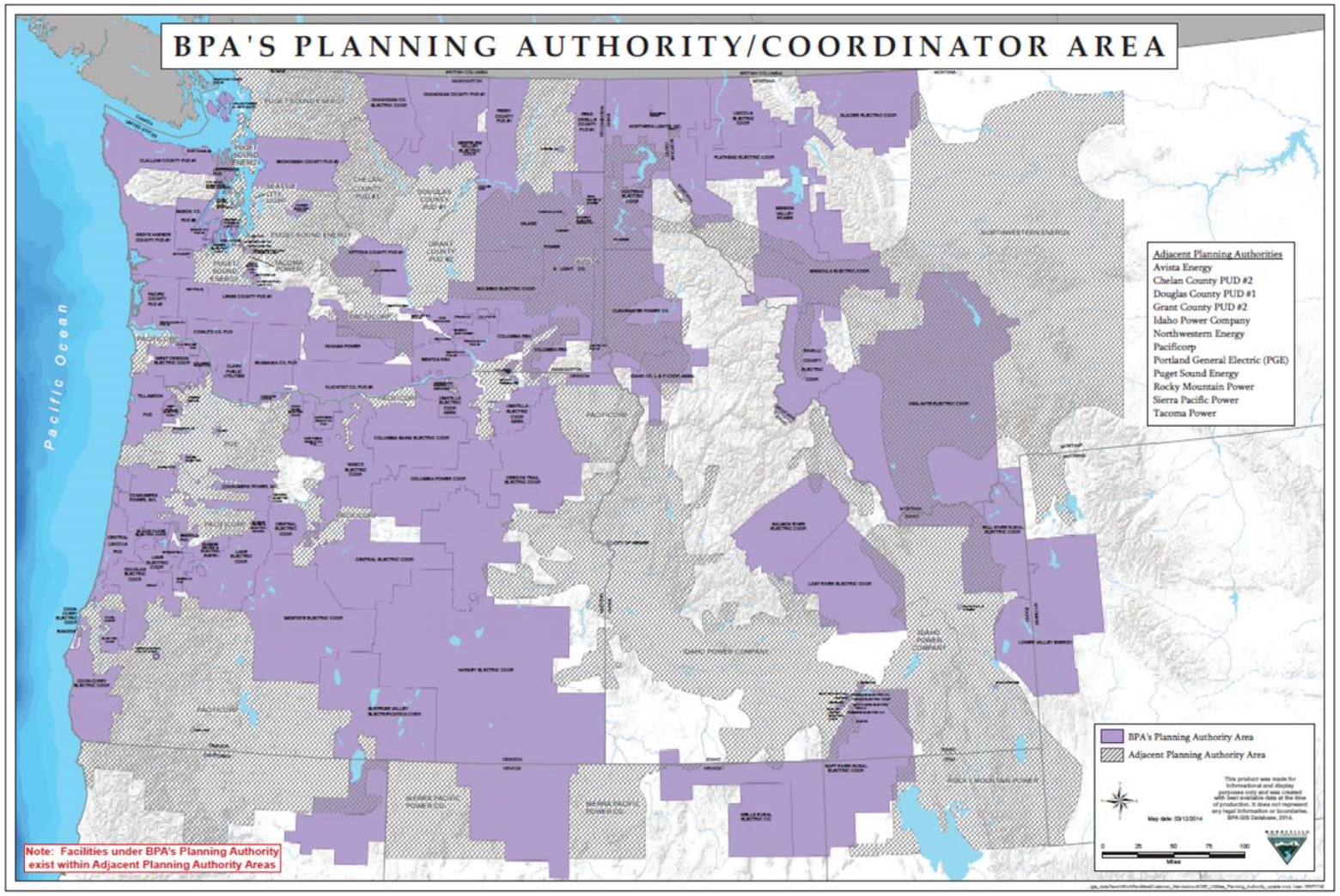
#4 MEET **TRANSMISSION CUSTOMER NEEDS EFFICIENTLY & RESPONSIVELY**

Flowgates and Paths

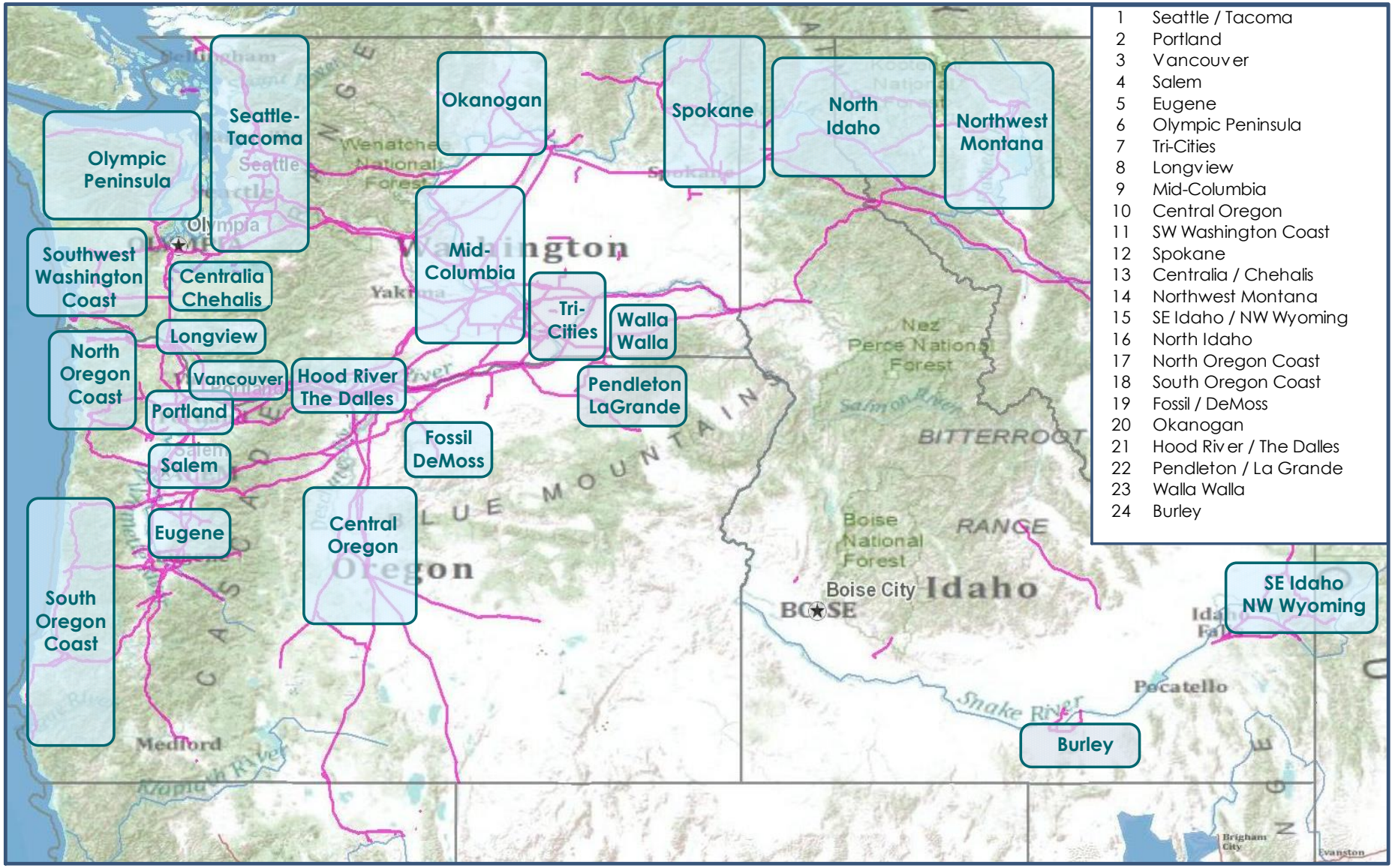


Flowgates and paths consist of one or more transmission facilities that are operated in a coordinated manner and are monitored for congestion management

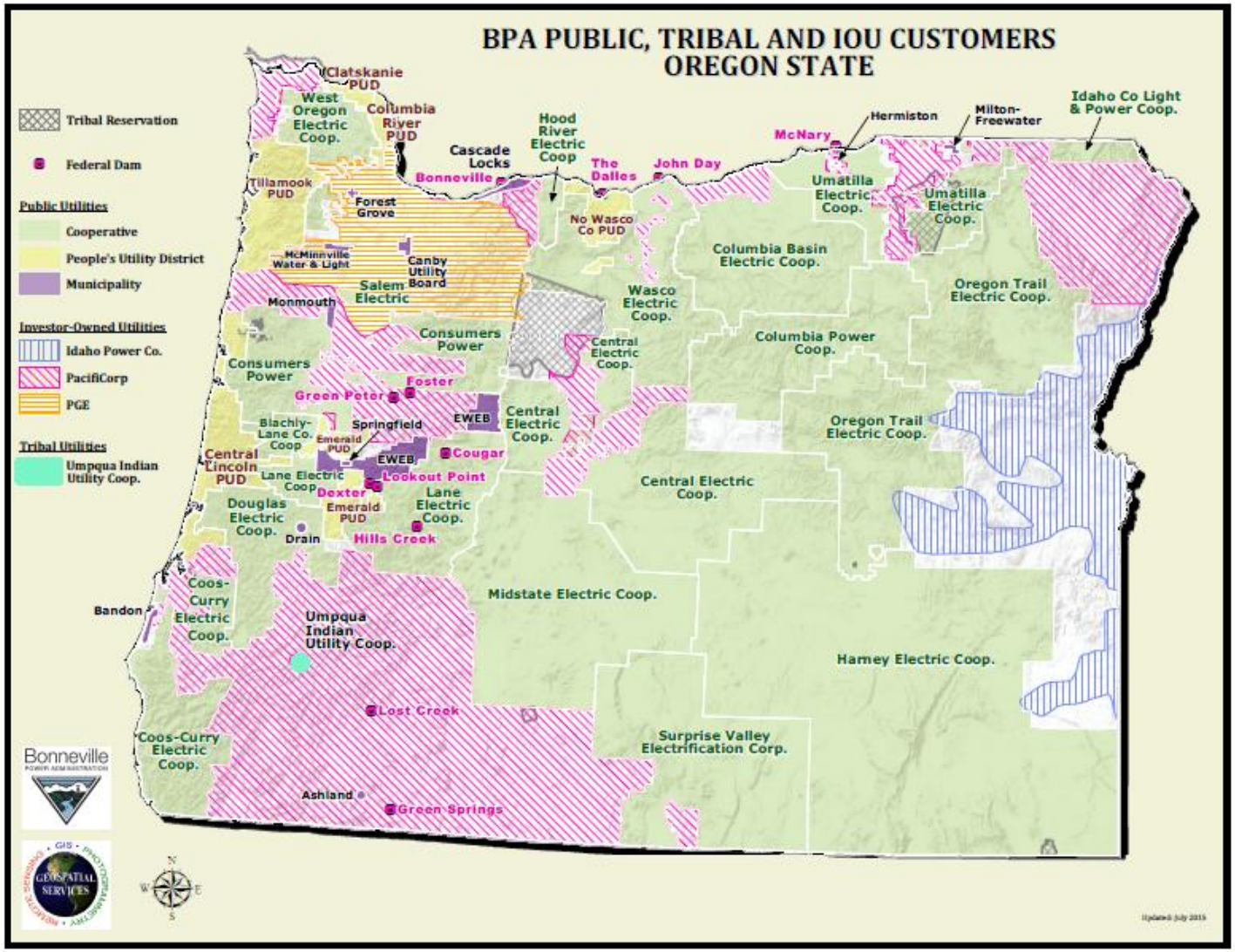
Planning


BPA'S PLANNING AUTHORITY/COORDINATOR AREA
Pacific Ocean
Adjacent Planning Authorities
Avista Energy
Chelan County PUD #2
Douglas County PUD #1
Grant County PUD #2
Idaho Power Company
Northwestern Energy
Pacificorp
Portland General Electric (PGE)
Puget Sound Energy
Rocky Mountain Power
Sierra Pacific Power
Tacoma Power
BPA's Planning Authority Area
Adjacent Planning Authority Area
Note: Facilities under BPA's Planning Authority exist within Adjacent Planning Authority Areas

Load Service Areas



Oregon Utilities



Enhanced Planning Opportunities

- Co-optimize resource, transmission, and demand side investments
  - Advanced analytical methods can identify “least regrets” portfolios that may otherwise get missed
  - Consider reliability, economic, and public policy considerations
  - Forecasting will never be perfect, so minimize cost of being wrong
- Improved coordination
  - Within the region and with neighboring regions
  - Between generation, transmission, and distribution