

Capital Projects Anticipated to be Submitted for Agency Approval
Through September 2017

Capital Projects Estimated >\$7 Million in Direct Costs

Project Title	Business Unit	Total Cost \$Millions	Sustain/Expand	Project Description
Lower Monumental Powerhouse 2nd 500 kV Generation Tie Line (L0368)	Transmission	\$ 13.9	Expand	Add a new 500 kV breaker, two 500 kV disconnect switches, surge arresters, relaying and protection, and approximately 1 mile of new 500 kV overhead transmission line.
Transmission Sustain Programs FY17 - 19	Transmission	\$ 653.0	Sustain	Multi-year replacement program for CC, PSC, ROW, PSC, Steel Lines, Substations and Wood Poles.
Port of Portland Land Purchase (Sun Dial)	Transmission	*--	Expand	Purchase lots 11 and 12 from Port of Portland to support future expansion needs of the transmission hub at the site.
Midway - Ashe 230kV New Double Circuit Line	Transmission	\$ 16.0	Expand	Construct a double circuit 230kV line; one between BPA Midway and Ashe substations, the other replacing the DOE R Midway- Hanford Electric Works (HEW) # 2 line.
Walla Walla	Transmission	\$ 16.2	Expand	Construct 8 miles of transmission line from the North Lewiston terminus of BPA's Tucannon River – Hatwai 115kV line to BPA's Hatwai substation, and add a new 230/115kV transformer at Hatwai substation.
UEC Industrial Load Expansion (L0389)	Transmission	\$ 52.4	Expand	Expand the existing BPA owned Morrow Flat substation by constructing a new 500/230kV substation to accommodate an additional 450MW of load.
Black Canyon Units 1 & 2 Upgrades	Federal Hydro	*--	Sustain	Increase the reliability of the powerplant. It will only be proposed if unit 3 does not go forward.
Bonneville 1 & 2 Generator Coolers	Federal Hydro	*--	sustain	Replace generator coolers in both powerhouses.
Grand Coulee Drumgate Floating Bulkhead	Federal Hydro	*--	Expand	Purchase a floating bulkhead to facilitate work.
Grand Coulee G19-G21 Modernization and Unit Uprate	Federal Hydro	*--	Expand	Uprate from 690 MW to 770 MW.
Grand Coulee LPH/RPH Crane Control Upgrades	Federal Hydro	*--	Sustain	Replace crane controls in the left and right powerhouses.
Grand Coulee TPP Crane Controls	Federal Hydro	*--	Sustain	Replace crane controls in the third powerhouse.
Hungry Horse Powerplant Crane Controls	Federal Hydro	*--	Sustain	Replacements as part of the plant rebuild at Hungry Horse.
McNary Levees	Federal Hydro	*--	Sustain	The Tri-Cities area has 14 levees that were installed at the time of the dam but that are considered part of the facility.
McNary Turbine Replacement	Federal Hydro	*--	Sustain	Replace existing turbines.
McNary Exciter Replacement	Federal Hydro	*--	Sustain	Replace the existing exciters.
The Dalles Transformer Replacement G1, G3,G5-8	Federal Hydro	*--	Sustain	Replace the existing transformers.
Covington Maintenance Headquarters	Facilities	*--	Sustain	Lifecycle replacement of existing facility.

This information has been made publicly available by BPA on 8/19/2016 and does not contain Agency-approved Financial Information.

* Contract has not been awarded - cost estimate is confidential