Major Capital Projects ¹ - End-of-Project Target Performance Q3 2022									
		Direct Capital (\$M) ² In-Service Date							
Project	Description	Au	thorized	Fo	recast	Α	ctual ³	Authorized	Forecast
Transmission									
Ross - Schultz Fiber Replacement	Replace the obsolete and limited 36 strand fiber with standard 72 strand fiber.	\$	34.0	\$	39.1	\$	31.3	09/15/18	11/29/24
MREDI VHF System Replacement	Replace and upgrade the existing VHF radio system.	\$	96.2	\$	103.7	\$	62.0	09/01/26	02/27/26
Spare Transformers for Hub Wind Sites	Add a spare 500/230 kV single phase transformer at John Day, Rock Creek, Slatt and Central Ferry substations.	\$	21.4	\$	23.2	\$	22.7	04/01/19	05/27/22
Quenett Creek Substation L0380	Construct new substation and associated line work to serve additional N. Wasco PUD load.	\$	49.8	\$	58.4	\$	46.1	06/24/22	03/14/25
Fairview Reactor and Transformer	Install a reactor to address high voltages on the Fairview 230 kV bus and replace an aging transformer.	\$	14.3	\$	16.5	\$	15.8	12/31/22	12/31/22
Mission Critical IT Infrastructure	Completely replace the Dittmer Data Center IT infrastructure.	\$	15.6	\$	22.3	\$	17.1	12/30/22	07/31/23
Anaconda-Dixon-Silverbow Transformer	Install a transformer at Dixon, move an existing transformer from Dixon to Anaconda and retire the transformer at Silver Bow.	\$	14.0	\$	6.2	\$	6.2	12/31/20	09/01/23
Badger Canyon II	Interconnection for Badger Canyon II wind project.	\$	24.5	\$	19.9	\$	2.1	03/11/22	12/30/24
Schultz-Wautoma 500kV Series Caps	Install series capacitors		N/A ⁴		N/A ⁴	\$	1.5	03/31/22	03/15/24
Midway-Ashe 230kV Double Circuit	230kV double circuit transmission line from Midway to Ashe Tap		N/A ⁴		N/A ⁴	\$	1.6	09/30/23	12/01/25
Richland-Stevens Drive 115kV Line	Rebuild existing 115kV transmission line, add additional line, rebuild substations		N/A ⁴		N/A ⁴	\$	0.4	12/18/24	12/18/24
G0367 Avangrid Bakeoven 1 Wind Project	Interconnection for Avangrid wind project.	\$	14.6	\$	16.3	\$	14.4	09/01/22	12/01/22
Conkelley Substation Retirement	Retire the conkelley substation		N/A ⁴		N/A ⁴	\$	2.8	03/31/25	09/27/24
Ross Station Service	Replacement of the Ross Substation Service		N/A ⁴		N/A ⁴	\$	0.4	06/30/24	06/30/24
Carlton Sub PCB Bus Tie Addition	Add PCB and bus ties to the Carlton Substation		N/A ⁴		N/A ⁴	\$	1.2	06/30/23	01/31/23
South Tri-Cities Reinforcement	Execute the South Tri-Cities Reinforcement (including building of new Webber Canyon substation)		N/A ⁴		N/A ⁴	\$	0.3	03/30/25	09/08/25
Big Eddy Station Service	Replacement of the Big Eddy substation station service		N/A ⁴		N/A ⁴	\$	1.2	08/31/23	08/31/23
Longview Transformer Bank Addition	To install a new 230/115 kV Longview Transformer, a new bus sectionalizing breaker, and upgrade corresponding disconnects	\$	12.2	\$	11.6	\$	10.1	12/23/22	12/28/22
Longhorn Substation	Build new Longhorn Substation		N/A ⁴		N/A⁴	\$	2.4	12/02/24	12/31/24
Schultz Raver Series Capacitors	Install new capacitors at the Schultz Substation		N/A ⁴		N/A⁴	\$	-	12/31/25	12/31/25
G0585 G0645 Crider Valley Wind and Solar	Build the Crider Valley Substation to interconnect 513MW of renewable energy (wind		N/A ⁴		N/A⁴	\$	-	12/31/25	12/31/25
Jones Canyon 230kV Shunt Reactor Replacement	Replace Jones Canyon 230kV shunt capacitor group 1		N/A ⁴		N/A⁴	\$	1.1	05/26/23	05/31/23
Steel Lines Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	46.8	\$	43.9	\$	12.9	09/30/23	09/30/23
Wood Pole Lines Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	64.4	\$	95.1	\$	10.9	09/30/23	09/30/23
Access Roads Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	28.3	\$	77.6	\$	9.0	09/30/23	09/30/23
Real Property Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	5.4	\$	51.9	\$	1.8	09/30/23	09/30/23
AC Substations Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	84.7	\$	211.6	\$	45.0	09/30/23	09/30/23
Line Ratings Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	4.0	\$	8.5	\$	3.1	09/30/23	09/30/23
DC Substations Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	4.0	\$	5.3	\$	1.9	09/30/23	09/30/23
System Telecommunications Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	44.5	\$	29.0	\$	6.7	09/30/23	09/30/23
Power Systems control (PSC) Sustain Program FY22-	Two-year asset replacement plan based on asset strategy analysis.	\$	49.3	\$	95.5	\$	20.0	09/30/23	09/30/23
System Protection and Control Sustain Program FY22-	Two-year asset replacement plan based on asset strategy analysis.	\$	41.0	\$	59.9	\$	19.5	09/30/23	09/30/23
Control Center Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	10.8	\$	18.1	\$	3.2	09/30/23	09/30/23
TEAP Tools Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	2.0	\$	1.8	\$	8.0	09/30/23	09/30/23
Aircraft Replacement Sustain FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	7.0	\$	14.2	\$	0.9	09/30/23	09/30/23

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³Actual costs are project costs to date.

⁴Contracts have not been awarded - cost estimates are confidential

Personal Physics Personal Physics Personal Replacements Personal Replacements Personal Replacements Personal Replacements Personal Replacements Personal Replacements Personal Replacement	Major Capital Projects ¹ - End-of-Project Target Performance Q3 2022									
Replace has powerhouse bridge crames, foreign gardy crame, machine shop crame \$ 17.1 \$ 16.2 \$ 10.5 \$ 0801/23 \$ 0801/23 \$ 0801/23 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 12.28 \$ 12.8 \$ 1.7 \$ 11.0002 \$ 11.0			Direct Capital (\$M) ² In-Service Date							
Hungry Horse Crane Replacements	Project	Description	Αι	ıthorized	F	orecast	A	ctual ³	Authorized	Forecast
Hungry Horse Crane Replacements	Federal Hydro									
Strand Coulee and Hungry Horse SCADA Replacement Replace SCADA systems at Grand Coulee and Hungry Horse. \$ 51.9 \$ 7.0 \$ \$ 7.0 \$ 0.3(28/16 11/30/22	Hungry Horse Crane Replacements		\$	17.1	\$	18.2	\$	10.5	08/01/23	08/01/23
Section Replacement Repl	Libby Intake Gantry Crane	Replace Intake Gantry Crane	\$	12.8	\$	12.8	\$	1.7	11/30/22	12/29/23
Replacements and upgrades to maintain current station capability. Section 2012 Section 3 Secti	Grand Coulee and Hungry Horse SCADA Replacement	Replace SCADA systems at Grand Coulee and Hungry Horse.	\$	51.9	\$	70.6	\$	70.5	03/28/16	11/30/22
Replacements and upgrades to maintain current station capability. \$ 66.3 \$ 7.2.1 \$ 3.5.5 09/30/24 03/31/24	Grand Coulee Transformer Replacements G11-G18	Replace 24 single-phase transformers in the Right Powerhouse.		N/A ⁴		N/A ⁴	\$	0.9	03/20/19	01/31/26
generating plant.	Grand Coulee - Keys Pump Generating Station - Reliability	Replacements and upgrades to maintain current station capability.	\$				\$	35.5	09/30/24	03/31/24
N/A	Grand Coulee Firehouse		\$	15.1	\$	17.6	\$	11.2	05/14/18	12/31/22
Chief Joseph Station Service Units	Grand Coulee Left and Right Powerhouse Cranes	Replace the four bridge cranes in the left and right powerhouses.		N/A ⁴		N/A ⁴	\$	0.7	07/30/20	06/30/23
Chief Joseph Station Service Units	Chief Joseph Intake Gantry Crane	Replace the intake gantry crane	\$	19.2	\$	19.2	\$	2.0	01/31/23	01/31/23
	Chief Joseph Station Service Units	Rehabilitate the Station Service units.		N/A ⁴		N/A ⁴	\$	2.7	09/30/24	09/30/24
Replace the exciters to ensure reliability and support the other electrical powertrain \$ 25.6 \$ 23.6 \$ 3.0 08/24/24 09/30/25	•	Upgrade the 14 governors in the McNary powerhouse with digital controls.	\$		_		\$	3.9	02/22/24	09/30/25
Replace turbine runners 1 - 14 and rewind units 5, 13 and 14.	McNary Exciters Upgrade		\$	25.6	\$			3.0	08/24/24	09/30/25
Replace the 1953 vintage intake gantry crane. Upgrade the hoist capability to match urrent needs. NIA ⁴ NIA ⁴ \$ 10.9 04/23/24 10/31/22	McNary Powerhouse Controls Upgrade	Replace the generally original controls to improve reliability and performance.	\$	17.2	\$	15.3	\$	6.4	05/26/24	07/30/25
Replace the 1953 vintage intake gantry crane. Upgrade the hoist capability to match current needs. Replace the 1953 vintage intake gantry crane. Upgrade the hoist capability to match current needs. Rebuild and upgrade up to five turbine runner hubs. Four additional hubs may be rebuilt under a future amendment to this project. In the powerhouse of the protection powerhouse. Replace and refurbish the trashracks powerhouse. Replace the submerged traveling screens crane. Replace submerged traveling screens cran	McNary Turbine Design and Replacement	Replace turbine runners 1 - 14 and rewind units 5, 13 and 14.	\$	533.1	\$	500.2	\$	16.3	10/07/33	12/07/32
rebuilt under a future amendment to this project. Upgrade fire protection Upgrade fire protection, ventilation and egress paths in the control room and powerhouse. Replace and refurbish the trashracks Replace and refurbish the trashracks Replace the submerged traveling screens crane Replace Emergency Gantry Crane Replacement Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace and refurbish the trashracks in Powerhouse 1 Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace for furbish the trashracks in Powerhouse 1 N/A N/A N/A N/A N/A N/A N/A N/	McNary Intake Gantry Crane 5			N/A ⁴		N/A ⁴	\$	10.9	04/23/24	10/31/22
powerhouse. Replace and refurbish the trashracks Shohn Day STS Crane Replace the submerged traveling screens crane Replace the emergency intake gantry crane. Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace and refurbish the trashracks in Powerhouse 1 N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Replace and refurbish the trashracks in Powerhouse 1 N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ Replace and refurbish the trashracks in Powerhouse 1 N/A ⁶ N/A ⁷ N/A ⁸ Replace ements Replace end refurbish the trashracks in Powerhouse 1 N/A ⁸	John Day Turbine Hub Upgrades	, , ,	\$	40.9	\$	34.2	\$		06/30/19	
Replace the submerged traveling screens crane \$ 14.4 \$ 14.4 \$ 1.5 12/02/22 12/02/22 The Dalles Emergency Gantry Crane Replacement Replace the emergency intake gantry crane. \$ 19.4 \$ 26.1 \$ 7.0 02/01/23 09/01/23 Bonneville Powerhouse 1 Main Unit Breakers and Station Service Bonneville Powerhouse 1 Trashracks Replace oil-filled original equipment breakers and reconfigure and modernize the station service. Bonneville Powerhouse 1 Trashracks Replace and refurbish the trashracks in Powerhouse 1 N/A ⁴ N/A ⁴ \$ 1.6 09/02/25 09/02/25 Dower Granite DC System and LV Switchgear Upgrade DC system, governor oil pump system and low voltage switchgear. Replace poor condition turbine runners in units 1, 2 & 3 with a more fish-friendly design. Replace the stator windings for units 1, 2 and 3. Replace the stator windings for units 1, 2 and 3. Replace and relocate 6 transformers Replace and relocate 6 transformers Replace and relocate 6 transformers N/A ⁴ N/A ⁴ \$ 1.5 12/02/24 12/02/24 Replace the stator windings in a transformer in unit will be between 10 and 15 MW. Replace the station service distribution equipment, emergency generator and air compressors. Replace the station service distribution equipment, emergency generator and air compressors. N/A ⁴ N/A ⁴ \$ 2.0 09/11/24 09/11/24	John Day Control Room Fire Protection		\$	13.3	\$	12.6	\$	5.2	11/14/23	10/01/23
Replace the emergency intake gantry crane. \$ 19.4 \$ 26.1 \$ 7.0 02/01/23 09/01/24 09	John Day Trashracks	·	\$	19.5	\$					
Replace oil-filled original equipment breakers and reconfigure and modernize the station Service Replace and refurbish the trashracks in Powerhouse 1 Upgrade DC system, governor oil pump system and low voltage switchgear. Replace poor condition turbine runners in units 1, 2 & 3 with a more fish-friendly design. Replace the stator windings for units 1,2 and 3. Replace and refurbish the trashracks in Powerhouse 1 N/A ⁴ N	John Day STS Crane	Replace the submerged traveling screens crane	\$	14.4	\$			1.5	12/02/22	12/02/22
Station Service Sonneville Powerhouse 1 Trashracks Replace and refurbish the trashracks in Powerhouse 1 Upgrade DC system, governor oil pump system and low voltage switchgear. Replace poor condition turbine runners in units 1, 2 & 3 with a more fish-friendly design. Replace the stator winding Replacements Replace the stator windings for units 1,2 and 3. Replace the stator windings for units 1,2 and 3. Replace and relocate 6 transformers Replace and relocate 6 transformers Replace and relocate 6 transformers Replace the stator winding unit at Black Canyon. The capacity of the unit will be between 10 and 15 MW. Replace the station service distribution equipment, emergency generator and air compressors. Replace the station service distribution and generators on two units. Replace and Generator Rehabilitation Rehabilitate turbine and generators on two units. Replace and refunction in the trashracks in Powerhouse 1 N/A ⁴ N	The Dalles Emergency Gantry Crane Replacement	Replace the emergency intake gantry crane.	\$	19.4	\$	26.1	\$	7.0	02/01/23	09/01/23
Lower Granite DC System and LV Switchgear Upgrade DC system, governor oil pump system and low voltage switchgear. Replace poor condition turbine runners in units 1, 2 & 3 with a more fish-friendly design. Replace Harbor Stator Winding Replacements Replace the stator windings for units 1,2 and 3. Replace the stator windings for units 1,2 and 3. Replace and relocate 6 transformers Replace and relocate 6 transformers Replace the stator windings for units 1,2 and 3. Replace and relocate 6 transformers N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ Replace and relocate 6 transformers Replace the station service distribution equipment, emergency generator and air compressors. Replace the station service distribution equipment, emergency generator and air compressors. Rehabilitate turbine and generators on two units. N/A ⁴ N	Bonneville Powerhouse 1 Main Unit Breakers and Station Service		\$	46.4	\$	36.5	\$	43.1	03/15/19	08/31/21
Lower Granite DC System and LV Switchgear Upgrade DC system, governor oil pump system and low voltage switchgear. Replace poor condition turbine runners in units 1, 2 & 3 with a more fish-friendly design. Replace the stator windings for units 1, 2 and 3. Replace the stator windings for units 1, 2 and 3. Replace and relocate 6 transformers Replace and relocate 6 transformers Replace Canyon Third Generating Unit Add a third generating unit at Black Canyon. The capacity of the unit will be between 10 and 15 MW. Replace the station service distribution equipment, emergency generator and air compressors. Replace Turbine and Generator Rehabilitation Upgrade DC system, governor oil pump system and low voltage switchgear. \$ 11.9 \$ 13.9 \$ 13.7 \$ 09/25/23 \$ 12/30/22 \$ 10.02/24 \$ 11.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 13.7 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 13.9 \$ 10.09/30/24 \$ 11.9 \$ 10.09/30/24 \$ 11.9 \$ 10.09/30/24 \$ 11.9 \$ 10.09/30/24 \$ 11.9 \$ 10.09/30/24 \$ 11.9 \$ 10.09/30/24 \$ 11.9 \$ 10.09/30/24 \$ 11.9 \$ 10.09/30/24 \$ 11.9 \$ 1	Bonneville Powerhouse 1 Trashracks	Replace and refurbish the trashracks in Powerhouse 1		N/A ⁴		N/A ⁴	\$	1.6	09/02/25	09/02/25
design. Ce Harbor Stator Winding Replacements Replace the stator windings for units 1,2 and 3. Replace the stator windings for units 1,2 and 3. Replace and relocate 6 transformers Replace and relocate 6 transformers N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ N/A ⁴ N/A N/A N/A N/A N/A N/A N/A N/	Lower Granite DC System and LV Switchgear	Upgrade DC system, governor oil pump system and low voltage switchgear.	\$				\$	13.7	09/25/23	12/30/22
Detroit Transformers Replace and relocate 6 transformers N/A ⁴ N/A	Ice Harbor Turbine Runner Replacement		\$	113.8	\$	109.4	\$	91.0	03/31/21	09/30/24
Detroit Transformers Replace and relocate 6 transformers N/A N/A N/A N/A N/A N/A N/A N/	Ice Harbor Stator Winding Replacements	Replace the stator windings for units 1,2 and 3.	\$	24.1	\$	27.6	\$	23.9	03/31/21	06/28/24
Add a third generating unit at Black Canyon. The capacity of the unit will be between 10 and 15 MW. Replace the station service distribution equipment, emergency generator and air compressors. Replace the station service distribution equipment, emergency generator and air compressors. Rehabilitate turbine and generators on two units. N/A N/A N/A N/A N/A N/A N/A N/	Detroit Transformers	Replace and relocate 6 transformers		N/A ⁴		N/A ⁴	\$	1.5	12/02/24	12/02/24
compressors. Rehabilitate turbine and Generator Rehabilitation Rehabilitate turbine and generators on two units. N/A N/A N/A N/A N/A \$ 2.0 09/11/24 09/11/24	Black Canyon Third Generating Unit				Ī		\$	7.2	N/A	N/A
19/7	Foster Electrical Reliability Upgrades	compressors.		N/A ⁴	N/A ⁴		N/A ⁴ \$ 2.7		10/02/23	03/01/23
	Foster Turbine and Generator Rehabilitation	Rehabilitate turbine and generators on two units.		N/A ⁴		N/A ⁴	\$	2.0	09/11/24	09/11/24
	John Day HVAC Upgrades	Upgrade the HVAC system and fire protection systems in the powerhouse					\$	1.7	04/04/25	04/04/25

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¹ Includes capital projects authorized at the agency level

³Actual costs are project costs to date.

²Direct capital costs exclude AFUDC and overhead

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Major Capital Projects ¹ - End-of-Project Target Performance Q3 2022								
		Direc	Direct Capital (\$M) ² In-Se					
Project	Description	Authorized	Forecast	Actu	al ³	Authorized	Forecast	
Federal Hydro - continued								
McNary Headgate System Rehabilitation	Rehabilitate the Headgate System and purchase bulkheads	N/A ⁴	N/A ⁴	\$	5.0	05/30/31	05/30/31	
McNary Isophase Bus	Replace the isophase bus	N/A ⁴	N/A ⁴	\$	1.2	12/31/29	12/31/29	
McNary Station Service Turbines	Rehabilitate the two station service turbines at the dam	N/A ⁴	N/A ⁴	\$	3.7	10/31/23	10/31/23	
Hills Creek Main Unit Breakers	Replace Main Unit Breakers at Hills Creek	N/A ⁴	N/A ⁴	\$	3.4	11/01/23	11/01/23	
Lower Monumental DC System and LV Switchgear Replacement	Replace the DC System and the LV Switchgear at Lower Monumental	N/A ⁴	N/A ⁴	\$	1.3	09/16/24	09/16/24	
Grand Coulee K22 Transformer Replacement	Replace the bank of transformers associated with unit G22	N/A ⁴	N/A ⁴	\$	0.9	04/30/25	04/30/25	
Chief Joseph Units 1-16 Generator Rewinds	Rewind units 1-16	N/A ⁴	N/A ⁴	\$	1.1	09/30/30	09/30/30	
Chief Joseph 480V Station Power - SU1-4 MCC Boards	Upgrade 480V Station Power SU1-4 MCC Boards	N/A ⁴	N/A ⁴	\$	0.9	09/29/23	09/29/23	
John Day Turbine Runners and Generator Rewinds DESIGN	Replace turbines and rewind generators on a TBD number of units at John Day (design work only)	N/A ⁴	N/A ⁴	\$ 1	0.9	09/30/23	09/30/23	
Little Goose System and LV Switchgear Replacement	Replace the DC System and the LV Switchgear at Little Goose	N/A ⁴	N/A ⁴	\$	1.8	03/30/25	03/30/25	
Chief Joseph Exciter Units 1-16	Replace exciters on units 1-16	N/A ⁴	N/A ⁴	\$	0.2	09/30/25	09/30/25	
McNary Drainage, Unwatering, and Equalization System Rehab	Rehab the DUE system at McNary	N/A ⁴	N/A ⁴	\$	0.9	06/28/24	06/28/24	
Anderson Turbine Runner Replacement	Replace the two turbine runners at Anderson Ranch.	N/A ⁴	N/A ⁴	\$	8.0	05/01/27	05/01/27	
Fish & Wildlife Steigerwald Floodplain Reconnection	Reconnect 900 acres of the Steigerwald Wildlife Refuge with the Columbia River.	\$ 22.7	\$ 22.7	\$ 1	8.7	11/30/22	03/14/23	
Facilities								
Technical Services Building	Construct a new building to replace the North and South Ampere facilities	N/A ⁴	N/A ⁴	\$ 2	5.1	9/30/23	09/29/23	
Vancouver Control Center	Design phase of a new building on the Ross Complex to replace Dittmer Control Center	N/A ⁴	N/A ⁴	\$	4.2	5/11/26	09/30/26	
Ross Ampere Demolition & Site Development	Demolition and removal of North Ampere, Untaking Tower, South Ampere, and decommissioned Wash Rack facilities	N/A ⁴	N/A ⁴	\$	-	12/27/24	12/27/24	
Fleet								
Fleet FY21-FY23	Fleet program capital asset purchases	27.3	27.3	\$	7.2	9/30/23	09/30/23	
						-		

Summary		
Transmission	\$ 688.8	\$ 1,029.6
Federal Hydro	1,083.2	1,064.6
Fish & Wildlife	22.7	22.7
Facilities	-	-
Fleet	27.3	27.3
Total	\$ 1,822.0	\$ 2,144.2

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