Major Capital Projects ¹ - End-of-Project Target Performance Q2 2023							22 2023		
		Direct Capital (\$M) ² In-Ser				In-Servi	vice Date		
Project	Description	Αι	ıthorized				ctual ³	Authorized	Forecast
Transmission									
Ross - Schultz Fiber Replacement	Replace the obsolete and limited 36 strand fiber with standard 72 strand fiber.	\$	34.0	\$	44.3	\$	35.1	09/15/18	11/29/24
MREDI VHF System Replacement	Replace and upgrade the existing VHF radio system.	\$	96.2	\$	102.4	\$	69.3	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	\$	21.4	\$	23.1	\$	23.2	04/01/19	06/30/23
	and Central Ferry substations. Construct new substation and associated line work to serve additional N. Wasco	•	44.0	ተ	F0 F	Φ	46.0	00/04/00	00/44/05
Quenett Creek Substation L0380	PUD load.	\$	44.9	\$	58.5	\$	46.3	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	\$	16.3	\$	16.3	12/31/22	12/31/22
Mission Critical IT Infrastructure	Completely replace the Dittmer Data Center IT infrastructure.	\$	22.5	\$	22.3	\$	20.7	06/30/23	07/31/23
Badger Canyon II	Interconnection for Badger Canyon II wind project.	\$	24.5	\$	20.2	\$	3.0	03/11/22	12/30/24
Schultz-Wautoma 500kV Series Caps	Install series capacitors	\$	52.9	\$	49.4	\$	12.4	03/15/24	03/15/24
Midway-Ashe 230kV Double Circuit	230kV double circuit transmission line from Midway to Ashe Tap	\$	31.2	\$	37.9	\$	4.7	09/30/23	12/01/25
Richland-Stevens Drive 115kV Line	Rebuild existing 115kV transmission line, add additional line, rebuild substations	\$	12.4	\$	11.3	\$	2.5	12/18/24	12/18/25
G0367 Avangrid Bakeoven 1 Wind Project	Interconnection for Avangrid wind project.	\$	14.6	\$	16.9	\$	16.8	09/01/22	06/02/23
Conkelley Substation Retirement	Retire the Conkelley substation	\$	29.6	\$	29.6	\$	3.4	09/30/25	09/30/25
Columbia Basin Hydroelectric Generating Facility	To interconnect 500 MW to BPA's transmission system at the Grand Coulee 500 kV switchyard.		N/A ⁴		N/A ⁴	\$	-	07/30/26	07/30/26
Ross Station Service	Replacement of the Ross Substation Service	\$	13.2	\$	11.4	\$	2.0	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	\$	1.9	06/30/23	08/30/24
South Tri-Cities Reinforcement	Execute the South Tri-Cities Reinforcement (including building of new Webber Canyon substation)	\$	112.0	\$	87.3	\$	2.2	03/30/25	09/28/25
Big Eddy Station Service	Replacement of the Big Eddy substation station service		N/A ⁴		N/A ⁴	\$	1.5	03/01/25	03/14/25
Longview Transformer Bank Addition	To install a new 230/115 kV Longview Transformer, bus breaker, and upgrade disconnects.	\$	12.2	\$	11.1	\$	10.3	12/23/22	10/27/23
Longhorn Substation	Build new Longhorn Substation		N/A ⁴		N/A ⁴	\$	4.9	12/31/24	06/17/25
Schultz Raver Series Capacitors	Install new capacitors at the Schultz Substation		N/A ⁴		N/A ⁴	\$	-	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/A ⁴	\$	-	12/31/25	01/00/00
Jones Canyon 230kV Shunt Reactor Replacement	Replace Jones Canyon 230kV shunt capacitor group 1		N/A ⁴		N/A ⁴	\$	5.7	05/26/23	05/31/23
Grand Coulee 230 kV Current Limiting Reactor	To install a current limiting reactor at the GC 230 kV switchyard.		N/A ⁴		N/A ⁴	\$	-	11/30/25	11/30/25
McNary 230 kV Section Bay Addition L0481	To add a new 230 kV section bay at the McNary dam.		N/A ⁴		N/A ⁴	\$	1.5	01/30/24	12/27/24
McNary Paterson Tap 115kV Line L0405	To install a new 115kV bay at position 11 at McNary substation and installation of		N/A ⁴		N/A ⁴	\$	3.7	09/30/24	09/30/24
Bridge Substation	To provide and install a new 230 kV line		N/A ⁴		N/A ⁴	\$	0.1	08/30/24	08/30/24
Columbia Falls Kalispel-Kerr and Kalispel - Hot Springs	Install fiber optic cable between the Kalispell and Kerr substations, and 22 miles of		N/A ⁴		N/A ⁴	\$	-	09/30/24	09/30/24
Steel Lines Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	46.8	_	32.5	\$	22.1	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		53.7	\$	32.8	09/30/23	09/30/23
Access Roads Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	28.3			\$	20.7	09/30/23	09/30/23
	Two-year asset replacement plan based on asset strategy analysis.	\$	5.4	_	10.5	\$	2.3	09/30/23	09/30/23
Real Property Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	÷		-					
Subs AC Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	84.7	-	181.2	-		09/30/23	09/30/23
Line Ratings Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis. Two-year asset replacement plan based on asset strategy analysis.	\$	4.0		6.1	\$	3.5	09/30/23	09/30/23
DC Substations Sustain Program FY22-23		\$	4.0		12.1	\$	4.5	09/30/23	09/30/23
System Telecommunications Sustain Program FY22-23		\$	44.5		33.1	\$	16.9	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	_	74.3	\$	36.3	09/30/23	09/30/23
System Protection and Control (SPC) Sustain Program	Two-year asset replacement plan based on asset strategy analysis.	\$	41.0		54.8	\$	24.8	09/30/23	09/30/23
Control Center Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	10.8		24.4	\$	12.1	09/30/23	09/30/23
TEAP Tools Sustain Program FY22-23	Two-year asset replacement plan based on asset strategy analysis.	\$	2.0	\$	3.4	\$	1.7	09/30/23	09/30/23

Major Capital Projects' - End-of-Project	Target Performance		Di 10 '1100'				C	2023	
			Direct Capital (\$M) ²				In-Service Date		
Project	Description	Auth	norized	Forecast	Actu	ıal³	Authorized	Forecast	
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	

This information has been made publicly available by BPA on 5/3/2023 and contains information not sourced directly from BPA financial statements. Projects below \$10 million are not included

²Direct capital costs exclude AFUDC and overhead

⁴Contracts have not been awarded - cost estimates are confidential

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Daniera kun nauraharra kuidus anana firibur antara manaharra		27.	Φ.	40.0	Α.	45.0	00/04/00	00/04/00
and valve house crane.	Ĺ		·		Ĺ			08/01/23
	\$				\$			12/29/23
Replace 24 single-phase transformers in the Right Powerhouse.		N/A ⁴	1	N/A ⁴	\$		03/20/19	01/31/26
Replacements and upgrades to maintain current station capability.		66.3	\$	72.1	\$	37.3	09/30/24	03/31/24
Build a stand-alone fire station to replace the facility currently housed in the pump- generating plant.	\$	15.1	\$	17.6	\$	11.4	05/14/18	12/31/22
Replace the four bridge cranes in the left and right powerhouses.		N/A ⁴	1	N/A ⁴	\$	1.9	07/03/20	05/31/24
Replace the intake gantry crane	\$	19.2	\$	19.2	\$	3.9	01/31/23	08/30/24
Rehabilitate the Station Service units.		N/A ⁴	1	N/A ⁴	\$	3.3	09/30/24	03/31/26
Refurbish and replace portions of the power bus			-	N/A ⁴	\$	0.9	12/01/25	12/01/25
Upgrade the 14 governors in the McNary powerhouse with digital controls.	\$			20.8	\$	6.0	02/22/24	12/31/26
Replace the exciters to ensure reliability and support the other electrical powertrain upgrades.	\$	25.6	\$	23.6	\$	8.2	08/24/24	12/31/26
Replace the generally original controls to improve reliability and performance.	\$	17.2	\$	15.3	\$	9.3	05/26/24	12/31/26
Replace turbine runners 1 - 14 and rewind units 5, 13 and 14.	\$	533.1	\$	500.2	\$	19.9	10/07/33	12/07/32
Replace the 1953 vintage intake gantry crane. Upgrade the hoist capability to match current needs.		N/A ⁴	ı	N/A ⁴	\$	14.0	04/23/24	09/29/23
Upgrade the governor mechanical system		N/A ⁴	1	N/A ⁴	\$	3.3	10/31/25	10/31/25
Replace the existing pumps and electrical with new equipment at some or all 11 pumping plants.		N/A ⁴	ı	N/A ⁴	\$	-	07/30/27	07/30/27
rebuilt under a future amendment to this project.	\$	40.9	\$	34.2	\$	22.7	06/30/19	10/31/28
powerhouse.	\$		Ċ	12.6	\$	7.6	11/14/23	10/01/23
Replace and refurbish the trashracks	\$	19.5	\$	17.4	\$	2.8	04/15/26	04/15/26
Replace the submerged traveling screens crane	\$	14.4	\$	14.4	\$	3.8	12/02/22	07/01/24
Replace the emergency intake gantry crane.	\$	19.4	\$	26.1	\$	16.2	02/01/23	12/20/23
Replace oil-filled original equipment breakers and reconfigure and modernize the station service.	\$	46.4	\$	36.5	\$	43.1	03/15/19	07/12/22
Replace and refurbish the trashracks in Powerhouse 1		N/A ⁴	-	N/A ⁴	\$	2.7	09/02/25	04/01/27
Replace the main unit breakers, as per the scope of the previous MUB and Station Service project.		N/A ⁴			\$	0.6	12/30/27	12/30/27
Upgrade each of the six blade packing sleeves on Main Unit 2.	\$	11.6	\$	9.1	\$	0.5	09/30/25	12/31/26
Replace poor condition turbine runners in units 1, 2 & 3 with a more fish-friendly design.	\$	113.8	\$		\$	92.9	03/31/21	06/30/25
Replace the stator windings for units 1,2 and 3.	\$	24.1	\$	33.9	\$	24.3	03/31/21	06/30/25
Replace and relocate 6 transformers		N/A ⁴	1	N/A ⁴	\$	1.6	12/02/24	09/01/26
Add a third generating unit at Black Canyon. The capacity of the unit will be between 10 and 15 MW.		N/A ⁴	ı	N/A ⁴	\$	7.2	N/A	N/A
Replace the station service distribution equipment, emergency generator and air compressors.		N/A ⁴	ı	N/A ⁴	\$	3.5	10/02/23	04/05/24
	Replace two powerhouse bridge cranes, forebay gantry crane, machine shop crane and valve house crane. Replace Intake Gantry Crane Replace 24 single-phase transformers in the Right Powerhouse. Replacements and upgrades to maintain current station capability. Build a stand-alone fire station to replace the facility currently housed in the pump-generating plant. Replace the four bridge cranes in the left and right powerhouses. Replace the four bridge cranes in the left and right powerhouses. Replace the intake gantry crane Rehabilitate the Station Service units. Refurbish and replace portions of the power bus Upgrade the 14 governors in the McNary powerhouse with digital controls. Replace the exciters to ensure reliability and support the other electrical powertrain upgrades. Replace the generally original controls to improve reliability and performance. Replace the 1953 vintage intake gantry crane. Upgrade the hoist capability to match current needs. Upgrade the governor mechanical system Replace the existing pumps and electrical with new equipment at some or all 11 pumping plants. Rebuild and upgrade up to five turbine runner hubs. Four additional hubs may be rebuilt under a future amendment to this project. Upgrade fire protection, ventilation and egress paths in the control room and powerhouse. Replace and refurbish the trashracks Replace and refurbish the trashracks Replace and refurbish the trashracks in Powerhouse 1 Replace and refurbish the trashracks in Powerhouse 1 Replace the emain unit breakers, as per the scope of the previous MUB and Station Service project. Upgrade each of the six blade packing sleeves on Main Unit 2. 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 the stator windings for units 1,2 and 3. 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Upgrade each of the six blade packing sleeves on Main Unit 2. \$ Replace the stator windings for units 1, 2 and 3. \$ Replace the station service distribution equipment, emergency generator and air	Replace two powerhouse bridge cranes, forebay gantry crane, machine shop crane and valve house crane. Replace Intake Gantry Crane Replace Intake Gantry Crane Replace 24 single-phase transformers in the Right Powerhouse. Replacements and upgrades to maintain current station capability. 66.3 Build a stand-alone fire station to replace the facility currently housed in the pump-generating plant. Replace the four bridge cranes in the left and right powerhouses. Replace the intake gantry crane Replace the intake gantry crane Replace the intake gantry crane Refurbish and replace portions of the power bus N/A ⁴ Upgrade the 14 governors in the McNary powerhouse with digital controls. Replace the generally original controls to improve reliability and performance. 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Replace the exciters to ensure reliability and support the other electrical powertrain upgrades. Replace the generally original controls to improve reliability and performance. \$ 17.2 \$ Replace turbine runners 1 - 14 and rewind units 5, 13 and 14. \$ 533.1 \$ Replace the 1953 vintage intake gantry crane. Upgrade the hoist capability to match current needs. Upgrade the governor mechanical system Replace the existing pumps and electrical with new equipment at some or all 11 pumping plants. Rebuild and upgrade up to five turbine runner hubs. Four additional hubs may be rebuilt under a future amendment to this project. Upgrade fire protection, ventilation and egress paths in the control room and powerhouse. Replace the submerged traveling screens crane \$ 14.4 \$ Replace the submerged traveling screens crane \$ 19.5 \$ Replace the main unit breakers, as per the scope of the previous MUB and Station Service project. Upgrade each of the six blade packing sleeves on Main Unit 2. 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Replace 24 single-phase transformers in the Right Powerhouse. Replace ments and upgrades to maintain current station capability. \$ 66.3 \$ 72.1 \$ 37.3 Build a stand-alone fire station to replace the facility currently housed in the pump- generating plant. Replace the four bridge cranes in the left and right powerhouses. \$ 19.2 \$ 19.2 \$ 3.9 Replace the intake gantry crane \$ 19.2 \$ 19.2 \$ 3.9 Rehabilitate the Station Service units. \$ 19.2 \$ 19.2 \$ 3.9 Rehabilitate the Station Service units. \$ 19.4 \$ 1.9 Replace the exciters to ensure reliability and support the other electrical powertrain upgrade the 14 governors in the McNary powerhouse with digital controls. \$ 21.2 \$ 20.8 \$ 6.0 Replace the sexiters to ensure reliability and support the other electrical powertrain spelace the generally original controls to improve reliability and performance. \$ 17.2 \$ 15.3 \$ 9.3 Replace the 1953 vintage intake gantry crane. Upgrade the hoist capability to match current needs. 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¹ Includes capital projects authorized at the agency level

³Actual costs are project costs to date.

Major Capital Projects ¹ - End-of-Project	Target Performance								Q2 2023	
		Direct Capital (\$M) ²						In-Service Date		
Project	Description	Author	rized	Forec	ast	Act	ual ³	Authorized	Forecast	
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	N/A		N/A		\$	1.8	04/04/25	04/04/25	
This information has been made publicly available by BPA on 5	i/3/2023 and contains information not sourced directly from BPA financial state	tements.	Projec	cts belo	w \$10) milli	on are	not included		
¹ Includes capital projects authorized at the agency level	² Direct capital costs exclude AFUI	DC and c	verhe	ad						
³ Actual costs are project costs to date.	⁴ Contracts have not been awarde	d - cost	estima	tes are	confi	dentia	al			
Federal Hydro - continued										
McNary Headgate System Rehabilitation	Rehabilitate the Headgate System and purchase bulkheads	\$	74.7	\$ 10	1.0	\$	7.0	05/30/31	05/30/31	
McNary Isophase Bus	Replace the isophase bus	\$	46.1	\$ 6	9.5	\$	1.7	12/31/29	12/31/29	
McNary Station Service Turbines	Rehabilitate the two station service turbines at the dam	N/A	λ^4	N/A	4	\$	8.0	10/31/23	05/01/24	
Hills Creek Main Unit Breakers	Replace Main Unit Breakers at Hills Creek	N/A	λ^4	N/A	4	\$	3.5	11/01/23	05/01/25	
Lower Monumental DC System and LV Switchgear	Replace the DC System and the LV Switchgear at Lower Monumental		47.5	φ 4	٥.	\$	2.7	09/16/24	04/30/25	
Replacement		\$	17.5	\$ 1	8.5					
Grand Coulee K22 Transformer Replacement	Replace the bank of transformers associated with unit G22	N/A	λ^4	N/A	4	\$	0.9	04/30/25	04/30/25	
Chief Joseph Units 1-16 Generator Rewinds	Rewind units 1-16	200	.8	200	8	\$	1.5	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	\$	1.1	09/29/23	12/31/24	
John Day Turbine Runners and Generator Rewinds	Replace turbines and rewind generators on a TBD number of units at John Day					\$	14.4	09/30/23	09/30/23	
DESIGN	(design work only)	N/A	۸4	N/A	4					
Little Goose System and LV Switchgear Replacement	Replace the DC System and the LV Switchgear at Little Goose	\$	24.9	\$ 2	4.9	\$	2.0	03/30/25	04/15/26	
Chief Joseph Exciter Units 1-16	Replace exciters on units 1-16	N/A	λ^4	N/A	4	\$	0.6	09/30/25	09/30/26	
McNary Drainage, Unwatering, and Equalization	Rehab the DUE system at McNary			Φ. 4	4.0	\$	1.2	06/28/24	06/28/24	
System Rehab		\$	14.6	\$ 1	4.3					
Anderson Turbine Runner Replacement	Replace the two turbine runners at Anderson Ranch.	N/A	λ^4	N/A	4	\$	1.0	05/01/27	05/01/27	
Ice Harbor Intake Gate Hydraulic System Upgrade	Upgrade the hydraulic system at Ice Harbor	N/A		N/A		\$	0.7	06/30/25	06/30/25	
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Security										
Sno-King Sub Security Upgrades	To upgrade and enhance the security infrastructure at the Sno-King substation	\$	5.8	\$	4.7	\$	1.6	9/30/23	9/29/23	
Tacoma Sub Security Upgrades	To upgrade and enhance the security infrastructure at the Tacoma substation	\$	11.0	\$	9.4	\$	0.6	9/30/23	9/29/23	
Facilities										
Facilities Tacknical Commission Dividing	Construct a new building to replace the North and South Ampere facilities	Γ φ	CO E	Ф С	-2 o T	¢	50.1	9/30/23	09/30/23	
Technical Services Building Vancouver Control Center	Design phase of a new building on the Ross Complex to replace Dittmer Control	\$	62.5		0.0	•	16.4	5/11/26	09/30/23	
vancouver Control Center	Center	\$	45.0	\$ 3	7.2	Φ	10.4	5/11/20	09/30/20	
Ross Ampere Demolition & Site Development	Demolition and removal of N/S Ampere, Untanking Tower, and decom Wash Rack	\$	27.9	\$ 2	5.2	\$	-	12/27/24	12/27/24	
	facilities	Ψ		-		•	0.0	0/05/22	10/00/2	
Ross HazMat Z-1255 Building Adaptive Reuse	Adaptive reuse renovations that will create workspaces necessary for full utilization of the existing facility.	\$	9.9	\$	9.9	\$	2.2	9/30/23	12/29/23	
Ross Chemistry and Calibration Lab	Provide a lifecycle replacement of the N and S Ampere facilities to improve		. 4		4	\$	_	12/31/24	12/31/24	
Coo Onomica y ana Oambradon Lab	workplace safety abd efficiency, and reduce O&M.	N/A	١,	N/A	-	4		. 2, 0 1, 2 1	12,01,24	

Fleet program capital asset purchases

27.3 \$ 21.5 \$

\$

9/30/23

09/30/23

15.0

Information	Toohnology
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Fleet FY21-FY23

Fleet

Major Capital Projects ¹ - End-of-Projects	ct Target Performance				(22 2023
		Direct Capital (\$M) ²			In-Service Date	
Project	Description	Authorized Forecast Ac		Actual ³	Authorized	Forecast
Customer Billing Center Replacement (CBC)	The CBC is where the monthly bills for customers are handled, resulting in over \$4B annual revenue. System enhancements support production of timely and accurate bills.	N/A ⁴	N/A ⁴	\$ 5.5	10/31/23	11/30/24

Summary		
Transmission	\$ 928.1	\$ 1,085.9
Federal Hydro	\$ 1,409.6	\$ 1,433.7
Security	\$ 16.8	\$ 14.1
Facilities	\$ 145.3	\$ 136.1
Fleet	\$ 27.3	\$ 21.5
Information Technology	 N/A4	N/A4
Total	\$ 2,527.1	\$ 2,691.3

This information has been made publicly available by BPA on 5/3/2023 and contains information not sourced directly from BPA financial statements. Projects below \$10 million are not included ²Direct capital costs exclude AFUDC and overhead

¹ Includes capital projects authorized at the agency level

³Actual costs are project costs to date.

⁴Contracts have not been awarded - cost estimates are confidential