

Bureau of Reclamation - Hydropower Generation Summary

Fiscal Year 2024 Q2

Summary

The Bureau of Reclamation's hydropower program supports Administration and Department of the Interior clean energy and climate change initiatives by increasing Reclamation Project hydropower capabilities and value. Supporting program activities include - collaborative regulatory reform; operational and technological innovation; and stakeholder outreach. Collectively, these activities facilitate incremental, carbon-neutral renewable energy generation.

This summary report identifies federal and non-federal hydropower facilities and associated generating capacity currently online or in development on Reclamation Projects. Summary statistics reflect Unified Interior Regional boundaries: Interior Region 5 Missouri Basin; Interior Region 6 Arkansas-Rio Grande-Texas-Gulf; Interior Region 7: Upper Colorado Basin; Interior Region 8: Lower Colorado Basin; Interior Region 9: Columbia-Pacific Northwest; and Interior Region 10: California-Great Basin.¹

Incremental Hydropower Capability

In July 2022, the Department of the Interior published its Strategic Plan for Fiscal Years (FY) 2022-2026, replacing the Strategic Plan for FY 2018-2022.²

The current Strategic Plan establishes, in part, performance indicators for Reclamation's hydropower program – however incremental hydropower capability is no longer a performance indicator. Reclamation will continue to support the development of incremental hydropower capability on Reclamation Projects to serve current and future energy needs and will likewise continue to report related performance in *Bureau of Reclamation - Hydropower Generation Summary* reports. Incremental capability performance is reported in megawatts (MW) – consisting of MW derived from generator uprates and non-federal development; and MW equivalents derived from turbine replacements and optimization installations, calculated by multiplying the resulting efficiency improvement by the MW capacity of the affected unit(s).

No new incremental hydropower capability was installed at Reclamation Projects within FY 2024 Q2.

A cumulative total of **72.96 MW** of incremental capability has been installed at Reclamation Projects since FY 2018. FY 2018 through current quarter performance is summarized in table below:

1

¹ See: https://www.doi.gov/employees/reorg/unified-regional-boundaries. The *Bureau of Reclamation - Hydropower Generation Summary* assigns hydropower facilities to the Unified Interior Region responsible for facility oversight.

² See: https://www.doi.gov/performance/strategic-planning.

Region	Facility	Activity	Completion Date	Incremental MW
Upper Colorado Basin	Glen Canyon Control Center	HydrOS Installation	October 2017	17.31
Missouri Basin	Casper Control Center	HydrOS Installation	January 2018	6.73
Missouri Basin	Yellowtail - Unit 1	Generator Uprate	July 2018	9.40
Columbia–Pacific Northwest	Palisades - Unit 2	Turbine Runner Replacement	April 2018	1.92
Upper Colorado Basin	Olmsted	Generator Uprate	July 2018	1.43
Missouri Basin	Pueblo Dam	Lease of Power Privilege	May 2019	7.01
Missouri Basin	Yellowtail – Unit 4	Generator Uprate	October 2019	9.40
Missouri Basin	Yellowtail – Unit 2	Generator Uprate	June 2021	9.40
Upper Colorado Basin	Vinelands (Grand Valley)	Lease of Power Privilege	November 2022	4.90
California-Great Basin	Trinity – Unit 2	Turbine Runner Replacement	April 2023	2.93
Missouri Basin	Canyon Ferry – Unit 1	Generator Uprate	November 2023	2.53
Total				72.96

Reclamation Hydropower Summary

Summary tables identify federal (reserved and transferred works) and non-federal hydropower facilities and associated generating capacity currently online or in development on Reclamation Projects. Quarterly table updates, if any, are noted. Table definitions are provided in Appendix A – Table Definitions. Facility details are provided in Appendix B – Regional Hydropower Generating Capacity Portfolios.

Table components may not sum to totals due to rounding.

Online Hydropower Facilities

Table updates: None.

		ssouri asin	Arkansas- Rio Grande- Texas- Gulf		Upper Colorado Basin		Lower Colorado Basin		Columbia– Pacific Northwest		California- Great Basin		Bureau of Reclamation	
	#	MW	#	MW	#	MW	#	MW	#	MW	#	MW	#	MW
Reserved	21	1044	1	1	9	1816	3	2454	10	7537	10	1910	53	14761
Transferred	- 1	1	1	1	10	42	11	300	-	-	2	449	23	791
Other	1	-	1	1	-	-	6	82	-	-	1	-	6	82
FERC	6	29	1	1	5	50	-	1	27	326	16	67	54	473
LOPP ³	3	11	1	-	11	46	-	1	-	1	1	1	15	57
Total	30	1084	-	-	35	1954	20	2836	37	7863	29	2427	151	16164

In Development – Conventional Hydropower (FERC)

Table updates: None.

³ Reclamation holds title to the Upper Colorado Basin Grand Valley hydropower facility LOPP. The total number of Reclamation-owned hydropower facilities is 77 (53 reserved, 23 transferred, 1 LOPP). The Upper Colorado Basin Grand Valley hydropower facility LOPP and Grand Valley (Vinelands) LOPP are separate facilities.

	Missouri Basin		Arkansas- Rio Grande- Texas- Gulf		Upper Colorado Basin		Lower Colorado Basin		Columbia– Pacific Northwest		California- Great Basin		Bureau of Reclamation	
	#	MW	#	MW	#	MW	#	MW	#	MW	#	MW	#	MW
License	2	20	-	-	-	-	-	-	1	3	-	1	3	23
Exemption	1	1	-	-	-	-	-	-	4	2	-	-	5	3
Preliminary Permit	-	-	1	ı	-	-	-	-	-	-	-	-	-	-
Total	3	21	1	-	-	-	1	-	5	5	-	-	8	26

In Development – Conventional Hydropower (LOPP)

Table updates: The Columbia-Pacific Northwest Region Black Canyon Main Canal LOPP project (0.14 MW) received a LOPP Preliminary Lease in March 2024. The project has been moved from the Request for Development statistic to the Preliminary Lease statistic.

	Missouri Basin		Arkansas- Rio Grande- Texas- Gulf		Upper Colorado Basin		Lower Colorado Basin		Columbia– Pacific Northwest		California- Great Basin		Bureau of Reclamation	
	#	MW	#	MW	#	MW	#	MW	#	MW	#	MW	#	MW
Contract	1	3	1	-	1	1	1	-	1	1	1	-	2	4
Preliminary Lease	2	11	1	1	1	1	-	1	1	0.1	ı	1	3	11
Posted Solicitation	-	-	1	1	1	1	-	1	ı	ı	ı	1	-	-
Request for Development	-	-	-	-	-	-	-	-	2	2	-	1	2	2
Total	3	14	-	-	1	1	-	-	3	2	-	-	7	17

In Development – Pump Storage (PS) (FERC and LOPP)

Non-federal pump storage development at Reclamation Projects may require both a FERC License and Reclamation LOPP if the proposed project utilizes a Reclamation Project reservoir within Reclamation's permitting jurisdiction and any second reservoir outside Reclamation's permitting jurisdiction (i.e., FERC jurisdiction), as defined by the 1992 Memorandum of Understanding between Reclamation and FERC.⁴

⁴ See: https://www.usbr.gov/recman/fac/fac04-08-AppA.pdf.

Additional information regarding non-federal pump storage development and dual jurisdiction is available on the LOPP website.⁵ Projects subject to dual FERC/LOPP jurisdiction are identified as *Dual FERC/LOPP PS* projects in table below.

Table updates: None.

		souri sin	R Gra Tex	nsas- io nde- cas- ulf	Cold	pper orado asin	Colc	wer orado osin	Pa	mbia– cific thwest	Califo -Gr Bas	eat		eau of imation
	#	MW	#	MW	#	MW	#	MW	#	MW	#	MW	#	MW
FERC PS														
License	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preliminary Permit	1	1	ı	Í	1	1	1	1	1	600	1	1	1	600
LOPP PS														
Contract	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Preliminary Lease	-	1	-	1	-	-	1	-	-	-	-	-	-	-
Dual FERC/LOPP PS ⁶														
Preliminary Permit	-	1	-	ı	1	2210	-	-	-	-	-	-	1	2210
Preliminary Lease	-	-	-	1	-	1	-	-	-	-	-	-	-	-
Preliminary Lease and Permit	1	972	1	ı	1	1	ı	1	1	400	ı	ı	2	1372
Total	1	972	-	-	1	2210	-	-	2	1000	-	-	4	4182

⁵ See: https://www.usbr.gov/power/LOPP.

⁶ The proposed Energy Storage Station Pumped Storage Project (Lake Powell) (Upper Colorado Basin) has received a FERC Preliminary Permit for upper reservoir development but has not received a Reclamation Preliminary Lease or LOPP Contract for lower reservoir development at this time.

The proposed Anderson Ranch Pumped Storage Project (Columbia-Pacific Northwest) and Seminoe Pumped Storage Project (Missouri Basin) have received both a FERC Preliminary Permit for upper reservoir development and a Reclamation Preliminary Lease for lower reservoir development.

Appendix A – Table Definitions

For the purposes of the *Bureau of Reclamation - Hydropower Generation Summary* the following definitions apply, arranged by facility type and corresponding summary table.

Online Hydropower Facilities

Reserved. Reclamation-owned hydropower facilities, wherein Reclamation has retained responsibility for carrying out facility operations and maintenance activities.

Transferred. Reclamation-owned hydropower facilities, wherein the responsibility for carrying out facility operations and maintenance activities has been transferred to a non-federal entity under the provisions of a formal operations and maintenance transfer contract.

Other. Non-federal hydropower facilities developed on Reclamation Projects, authorized outside the FERC licensing or Reclamation LOPP contracting process.

FERC (Federal Energy Regulatory Commission). Non-federal hydropower facilities developed on Reclamation Projects, authorized via the FERC licensing process.

LOPP (Lease of Power Privilege). Non-federal hydropower facilities developed on Reclamation Projects, authorized via the LOPP contracting process.

In Development – Conventional Hydropower (FERC)⁷

License. Non-federal hydropower facilities in development on Reclamation Projects, currently issued an active FERC License.

Exemption. Non-federal hydropower facilities in development on Reclamation Projects, currently issued an exemption from FERC from licensing requirements.

Preliminary Permit. Non-federal hydropower facilities in development on Reclamation Projects, currently issued an active FERC Preliminary Permit.

In Development – Conventional Hydropower (LOPP)⁸

Contract. Non-federal hydropower facilities in development on Reclamation Projects, currently issued an active LOPP Contract.

⁷ See: https://www.ferc.gov/industries/hydropower/gen-info/licensing/app-new.asp.

⁸ See: https://www.usbr.gov/power/LOPP.

Preliminary Lease. Non-federal hydropower facilities in development on Reclamation Projects, currently issued an active LOPP Preliminary Lease.

Posted Solicitation. Proposed non-federal hydropower development sites on Reclamation Projects wherein Reclamation has published a public notice soliciting project proposals.

Request for Development. Proposed non-federal hydropower development sites on Reclamation Projects wherein Reclamation has received a formal request for non-federal development.

In Development – Pump Storage (PS) (FERC and LOPP)

FERC PS – License. Non-federal pump storage hydropower facilities in development on Reclamation Projects, currently issued an active FERC License.

FERC PS – Preliminary Permit. Non-federal pump storage hydropower facilities in development on Reclamation Projects, currently issued an active FERC Preliminary Permit.

LOPP PS – Contract. Non-federal pump storage hydropower facilities in development on Reclamation Projects, currently issued an active LOPP Contract.

LOPP PS – Preliminary Lease. Non-federal pump storage hydropower facilities in development on Reclamation Projects, currently issued an active LOPP Preliminary Lease.

Dual FERC/LOPP PS – Preliminary Permit. Dual jurisdiction non-federal pump storage hydropower facilities in development on Reclamation Projects, currently issued an active FERC Preliminary Permit.

Dual FERC/LOPP PS – Preliminary Lease. Dual jurisdiction non-federal pump storage hydropower facilities in development on Reclamation Projects, currently issued an active LOPP Preliminary Lease.

Dual FERC/LOPP PS – Preliminary Lease and Permit. Dual jurisdiction non-federal pump storage hydropower facilities in development on Reclamation Projects, currently issued an active FERC Preliminary Permit and active LOPP Preliminary Lease.

Appendix B – Regional Hydropower Generating Capacity Portfolios

Project updates noted in bold (e.g., new projects, capacity uprates, or permitting status updates from previous reported quarter).

Projects terminated or removed within the reported quarter are noted in strikethrough

-		nated or removed within the I		-		-	Reclamation Area		Capacity
Region	State	Facility	Status	Permitting Status	Hydropower Type	Docket	Office	Operating Entity	(MW
Reclam	ation F	Reserved Works							
	1487								
ИВ	WY CO	Alcova	Online		Conventional		Wyoming	Reclamation	41.4 4.5
	WY	Big Thompson Boysen	Online Online		Conventional Conventional		Eastern Colorado Wyoming	Reclamation Reclamation	4.5
	WY	Buffalo Bill	Online		Conventional		Wyoming	Reclamation	18.1
	MT	Canyon Ferry	Online		Conventional		Montana	Reclamation	52.
	CO	Estes	Online		Conventional		Eastern Colorado	Reclamation	45.
	co	Flatiron	Online		Conventional/Pump Storage		Eastern Colorado	Reclamation	94.
	WY	Fremont Canyon	Online		Conventional		Wyoming	Reclamation	66.
	WY	Glendo	Online		Conventional		Wyoming	Reclamation	38.
	СО	Green Mountain	Online		Conventional		Eastern Colorado	Reclamation	26.
	WY	Guernsey	Online		Conventional		Wyoming	Reclamation	6.
	WY	Heart Mountain	Online		Conventional		Wyoming	Reclamation	5.
	WY	Kortes	Online		Conventional		Wyoming	Reclamation	36.
	CO	Marys Lake	Online		Conventional		Eastern Colorado	Reclamation	8.
	CO	Mt. Elbert PS	Online		Pump Storage		Eastern Colorado	Reclamation	200.
	WY	Pilot Butte	Online		Conventional		Wyoming	Reclamation	1.
	CO	Pole Hill	Online		Conventional		Eastern Colorado	Reclamation	38.
	WY	Seminoe	Online		Conventional		Wyoming	Reclamation	51.
	WY	Shoshone	Online		Conventional		Wyoming	Reclamation	3.0
	WY	Spirit Mountain	Online		Conventional		Wyoming	Reclamation	4.5
	MT	Yellowtail	Online		Conventional		Montana	Reclamation	287.
JCB	CO	Blue Mesa	Online		Conventional		UCB Power Office	Reclamation	86.
	CO	Crystal	Online		Conventional		UCB Power Office	Reclamation	31.
	NM	Elephant Butte	Online		Conventional		UCB Power Office	Reclamation	27.
	UT	Flaming Gorge	Online		Conventional		UCB Power Office	Reclamation	151.
	WY	Fontenelle	Online		Conventional		UCB Power Office	Reclamation	10.
	AZ	Glen Canyon	Online		Conventional		UCB Power Office	Reclamation	1,320.0
	CO	Lower Molina	Online		Conventional		UCB Power Office	Reclamation	5.5
	CO	Morrow Point	Online		Conventional		UCB Power Office	Reclamation	173.
	CO	Upper Molina	Online		Conventional		UCB Power Office	Reclamation	9.9
.CB	AZ	Davis	Online		Conventional		Lower Colorado	Reclamation	255.0
	AZ/NV	Hoover	Online		Conventional		Lower Colorado	Reclamation	2,078.8
	CA	Parker	Online		Conventional		Lower Colorado	Reclamation	120.0
-PN	ID	Anderson Ranch	Online		Conventional		Snake River	Reclamation	40.0
	ID	Black Canyon	Online		Conventional		Snake River	Reclamation	10.2
	ID	Boise River Diversion	Online		Conventional		Snake River	Reclamation	3.4
	WA	Chandler	Online		Conventional		Columbia Cascades	Reclamation	12.0
	WA	Grand Coulee	Online		Conventional/Pump Storage		Columbia Cascades	Reclamation	6,809.0
	OR	Green Springs	Online		Conventional		Columbia Cascades	Reclamation	17.2
	MT ID	Hungry Horse	Online		Conventional		Columbia Cascades	Reclamation	428.0 27.7
	ID	Minidoka Palisades	Online Online		Conventional Conventional		Snake River Snake River	Reclamation Reclamation	27. 176.
	WA	Roza	Online		Conventional		Columbia Cascades	Reclamation	12.9
-GB	CA	Folsom	Online		Conventional		Central California	Reclamation	207.0
. 30	CA	Judge Francis Carr	Online		Conventional		Northern California	Reclamation	154.4
	CA	Keswick	Online		Conventional		Northern California	Reclamation	117.0
	CA	Lewiston	Online		Conventional		Northern California	Reclamation	0.3
	CA	New Melones	Online		Conventional		Central California	Reclamation	380.1
	CA	Nimbus	Online		Conventional		Central California	Reclamation	13.
	CA	Shasta	Online		Conventional		Northern California	Reclamation	714.
	CA	Spring Creek	Online		Conventional		Northern California	Reclamation	180.
	CA	Stampede	Online		Conventional		Lahontan Basin	Reclamation	3.
	CA	Trinity	Online		Conventional		Northern California	Reclamation	140.
eclam	ation T	ransferred Works							
CB	UT	Causey Powerplant	Online		Conventional		Provo	Weber Basin Water Conservancy District	1.
	UT	Gateway Powerplant	Online		Conventional		Provo	Weber Basin Water Conservancy District	4.2
	UT	Lower Spanish Fork Powerplant	Online		Conventional		Provo	Strawberry Water User's Association	0.2

Project updates noted in bold (e.g., new projects, capacity uprates, or permitting status updates from previous reported quarter). Projects terminated or removed within the reported quarter are noted in strikethrough.

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MT Upper Tumbul Drop	3	WY MT	Garland Canal Lower Turnbull Drop	Online		Conventional	12597	Montana	Turnbull Hydro, LLC	
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May Navajo Dam Online Conventional 470 Western Colorado City of Farmington	ı	WY MT CO CO	Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam	Online Online Online Online		Conventional Conventional Conventional Conventional	12597 3603 3819 3574	Montana Western Colorado Eastern Colorado Montana	Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. Tiber Montana, LLC	
UT Pineview Dam Online Conventional 4597 Provo City of Bountiful Online Conventional 3174 Western Colorado Parmigan Resources and Energy. Inc. No R 45-Mile Online Onventional District, New York Irrigation		WY MT CO CO MO MT	Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop	Online Online Online Online Online		Conventional Conventional Conventional Conventional Conventional	12597 3603 3819 3574 12598	Montana Western Colorado Eastern Colorado Montana Montana	Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. Tiber Montana, LLC Turnbull Hydro, LLC	
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D American Falls		WY MT CO CO MO MT UT NM NM UT	Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam	Online		Conventional Conventional Conventional Conventional Conventional Conventional Conventional	12597 3603 3819 3574 12598 3755 5226 4720 4597	Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado	Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. Tiber Montana, LLC Turnbull Hydro, LLC City of Bountiful County of Los Alamos City of Farmington City of Bountiful	
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Project updates noted in bold (e.g., new projects, capacity uprates, or permitting status updates from previous reported quarter). Projects terminated or removed within the reported quarter are noted in strikethrough.

						FERC Project	Reclamation Area		Capacit
Region	State	e Facility	Status	Permitting Status	Hydropower Type	Docket	Office	Operating Entity	(MW
	ID	Mora Drop Hydro	Online		Conventional	3403	Snake River	Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District, Big Bend Irrigation District, and Boise Project Board of Control	1.9
	WA	Orchard Avenue	Online		Conventional	7338	Columbia Cascades	Yakima-Tieton Irrigation District	1.4
	OR	Owyhee Dam	Online		Conventional	4354	Snake River	Gem Irrigation District, Owyhee Irrigation District, and Ridgeview Irrigation District	4.3
	OR	Owyhee Tunnel No. 1	Online		Conventional	4359	Snake River	Owyhee Irrigation District and Hydro	8.
	WA	Potholes East Canal 66.0	Online		Conventional	3843	Snake River	Columbia Basin Hydropower	2.
	WA	Potholes East Canal Headworks	Online		Conventional	2840	Columbia Cascades	Grant County Public Utility District	6.
	WA	Quincy Chute	Online		Conventional	2937	Columbia Cascades	Grant County Public Utility District	9
	WA	Russel D Smith Pec 22.7	Online		Conventional	2926	Columbia Cascades	Columbia Basin Hydropower	6
	WA	Summer Falls	Online		Conventional	3295	Columbia Cascades	Columbia Basin Hydropower	92
	WA	Tieton Dam	Online		Conventional	3701	Columbia Cascades	Yakima-Tieton Irrigation District	13.
-GB	OR	East Side	Online		Conventional	2082	Klamath Basin	Scottish Power (PacifiCorp)	3
	CA	Friant Dam (Fishwater Release Powerhouse)	Online		Conventional	11068	South Central California	Friant Power Authority and Orange Cove Irrigation District	C
	CA	Friant Dam (New River Outlet Powerhouse)	Online		Conventional	11068	South Central California	Friant Power Authority and Orange Cove Irrigation District	7
	CA	Friant Project (Friant-Kern Powerhouse)	Online		Conventional	2892	South Central California	Friant Power Authority and Orange Cove Irrigation District	16
	CA	Friant Project (Madera Powerhouse)	Online		Conventional	2892	South Central California	Friant Power Authority and Orange Cove Irrigation District	8
	CA	Friant Project (River Outlet 2 Powerhouse)	Online		Conventional	2892	South Central California	Friant Power Authority and Orange Cove Irrigation District	2
	CA	High Line Canal	Online		Conventional	7252	Northern California	Santa Clara	C
	CA	Madera Canal	Online		Conventional	5765	South Central California	Madera-Chowchilla Water and Power Authority	(
	CA	Madera Canal Water Power STA 1174+84	Online		Conventional	2958	South Central California	Madera-Chowchilla Water and Power Authority	(
	CA	Madera Canal Water Power STA 1923+10	Online		Conventional	2958	South Central California	Madera-Chowchilla Water and Power Authority	C
	CA	Madera Canal Water Power STA 980+65	Online		Conventional	2958	South Central California	Madera-Chowchilla Water and Power Authority	2
	CA	Monticello	Online		Conventional	2780	Central California	Solano Irrigation District	11
	NV	New Lahontan	Online		Conventional	7828	Lahontan Basin	Truckee-Carson Irrigation District	4
	CA	Stony Gorge Hydroelectric	Online		Conventional	3193	Northern California	Santa Clara, City of	4
	OR	West Side	Online		Conventional	2082	Klamath Basin	Scottish Power (PacifiCorp)	(
	CA	Whiskey Dam Power Project	Online		Conventional	2888	Northern California	City of Redding	3
B	MT	Man, Taylor Dana	In Development	Funnation	Commentional	14294	Mantana	Turabull bules 11 C	0
В	MT	Mary Taylor Drop	In Development	Exemption License	Conventional	14677	Montana Montana	Turnbull Hydro, LLC	4
	MT	Clark Canyon Dam Gibson Dam	In Development In Development		Conventional Conventional	12478	Montana	Clark Canyon Hydro, LLC Gibson Dam Hydroelectric Company, LLC.	15.
-PN	ID	Fargo Drop No. 2	In Development	License	Conventional	5040	Snake River	Boise Project Board of Control	0
FIN	ID	Main Canal No. 10	In Development	Exemption Exemption	Conventional	5041	Snake River	Boise Project Board of Control	0
	ID	Main Canal No. 6	In Development		Conventional	5038	Snake River	Boise Project Board of Control	1
	ID	Waldvogel Bluff	In Development	Exemption Exemption	Conventional	5043	Snake River	Boise Project Board of Control	ď
	ID	Mason Dam Hydro	In Development	License	Conventional	12686	Snake River	Baker County	3
	OR	Owyhee Pumped Storage Project	In Development	Preliminary Permit	Pump Storage	15006	Snake River	Owyhee Energy Storage, LLC	600
ease o	f Powe	er Privilege							
В	СО	Carter Lake Outlet	Online		Conventional		Eastern Colorado	Northern Water Conservancy District	2
3	CO CO	Carter Lake Outlet Pueblo Dam	Online Online		Conventional Conventional	LP11-4	Eastern Colorado Eastern Colorado	Northern Water Conservancy District Southeastern Colorado Water Conservancy District	
3		Pueblo Dam						Southeastern Colorado Water Conservancy District	1
В	CO CO	Pueblo Dam Granby Dam	Online		Conventional Conventional	LP11-4 LP11-3	Eastern Colorado Eastern Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District	7 1
В	CO CO	Pueblo Dam Granby Dam Grand Valley Project	Online Online Online		Conventional Conventional		Eastern Colorado Eastern Colorado Western Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District	7 1 3
В	CO CO CO	Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam	Online Online Online Online		Conventional Conventional Conventional Conventional		Eastern Colorado Eastern Colorado Western Colorado Western Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District	3
В	CO CO CO UT	Pueblo Dam Granby Dam Grand Valley Project	Online Online Online		Conventional Conventional Conventional Conventional Conventional		Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power	: : (
В	CO CO CO UT CO	Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam	Online Online Online Online Online Online		Conventional Conventional Conventional Conventional		Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo Western Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District	1:
B	CO CO CO UT	Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam	Online Online Online Online Online Online Online		Conventional Conventional Conventional Conventional Conventional Conventional		Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo Western Colorado Western Colorado Western Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Certail Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District	7 1 3 0 13 0
B B	CO CO CO CO CO CO CO	Pueblo Dam Grandy Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6)	Online		Conventional Conventional Conventional Conventional Conventional Conventional Conventional		Eastern Colorado Eastern Colorado Western Colorado Provo Western Colorado Western Colorado Western Colorado Western Colorado Western Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District Uncompabgre Valley Water Users Association	13
ЕВ	CO CO CO CO CO CO CO	Pueblo Dam Grandy Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6) South Canal (Drop 1)	Online Online Online Online Online Online Online		Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional		Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo Western Colorado Western Colorado Western Colorado Western Colorado Western Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District Uncompalpre Valley Water Users Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association	13 (13 (7
B B	CO CO CO CO CO CO CO	Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6) South Canal (Drop 1) South Canal (Drop 3)	Online		Conventional		Eastern Colorado Eastern Colorado Western Colorado Provo Western Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association	113 (
В	CO CO CO CO CO CO CO	Pueblo Dam Grandy Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6) South Canal (Drop 1) South Canal (Drop 3) South Canal (Drop 4)	Online		Conventional		Eastern Colorado Eastern Colorado Western Colorado Provo Western Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users Association	13 6 13 6 7 2 2 2
BB	CO CO CO CO CO CO CO CO	Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6) South Canal (Drop 1) South Canal (Drop 3) South Canal (Drop 4) South Canal (Drop 5)	Online		Conventional		Eastern Colorado Eastern Colorado Western Colorado Provo Western Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users Association	1
	CO	Pueblo Dam Grandy Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6) South Canal (Drop 1) South Canal (Drop 3) South Canal (Drop 4)	Online		Conventional		Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo Western Colorado	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users Association	1
GB	CO	Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6) South Canal (Drop 1) South Canal (Drop 3) South Canal (Drop 4) South Canal (Drop 5) Grand Valley (Vinelands) Klamath Canal Drop C	Online		Conventional		Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo Western Colorado Kestern Colorado Western Colorado Western Colorado Kestern Colorado Kestern Colorado Kestern Colorado Kalmath Basin	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District Uncompahyre Valley Water Users Association Uncompahyre Valley Water Users and the Delta-Montrose Electric Association Uncompahyre Valley Water Users and the Delta-Montrose Electric Association Uncompahyre Valley Water Users Association Uncompahyre Valley Water Users Association Uncompahyre Valley Water Users Association Grand Valley Water Users Association Grand Valley Water Users Association and the Orchard Mesa Irrigation District Klamath Irrigation District	11: ()
-GB	CO	Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6) South Canal (Drop 1) South Canal (Drop 3) South Canal (Drop 4) South Canal (Drop 5) Grand Valley (Vinelands) Klamath Canal Drop C	Online	Contract	Conventional		Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo Western Colorado Klamath Basin	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users Association Grand Valley Water Users Association and the Orchard Mesa Irrigation District Greenfields Irrigation District	77 11 33 00 113 00 77 22 44 33 44 22 44
CB -GB	CO C	Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6) South Canal (Drop 1) South Canal (Drop 3) South Canal (Drop 4) South Canal (Drop 4) South Canal (Drop 5) Grand Valley (Vinelands) Klamath Canal Drop C	Online	Preliminary Lease	Conventional		Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo Western Colorado Klamath Basin	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users Association Grand Valley Water Users Association Grand Valley Water Users Association and the Orchard Mesa Irrigation District Klamath Irrigation District Greenfields Irrigation District Crow Tribe	2 2 77. 11. 33 0 0 133 0 0 77. 2 2 4 4 2 2 4 4 0 0 2 2 9 9 9 9 9 9 9
-GB	CO	Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6) South Canal (Drop 1) South Canal (Drop 3) South Canal (Drop 4) South Canal (Drop 5) Grand Valley (Vinelands) Klamath Canal Drop C	Online		Conventional		Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo Western Colorado Klamath Basin	Southeastern Colorado Water Conservancy District Northern Water Conservancy District Grand Valley Water Users Association and the Orchard Mesa Irrigation District Mancos Water Conservancy District Central Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users and the Delta-Montrose Electric Association Uncompahgre Valley Water Users Association Uncompahgre Valley Water Users Association Grand Valley Water Users Association and the Orchard Mesa Irrigation District Greenfields Irrigation District	7. 1. 3 0 13. 0 7. 7. 2 4 4 3 3 4 4 2 4 0 0

FERC Project Reclamation Area

Capacity

Project updates noted in bold (e.g., new projects, capacity uprates, or permitting status updates from previous reported quarter).

Projects terminated or removed within the reported quarter are noted in strikethrough.

•		·	•	-		FERC Project	t Reclamation Area		Capacity
Region	State	Facility	Status	Permitting Status	Hydropower Type	Docket	Office	Operating Entity	(MW)
	OR	North Unit Main Canal	In Development	Request for Development	Conventional		Snake River	TBD (project initiated by North Unit Irrigation District)	1.00
	OR	North Unit Main Canal (Redmond)	In Development	Request for Development	Conventional		Snake River	TBD (project initiated by North Unit Irrigation District)	1.4
	WA	Banks Lake Pumped Storage Project (Roosevelt Lake)	In Development	Public Solicitation Posted	Pump Storage		Columbia Cascades	TBD (project initiated by Columbia Basin Hydropower)	500.0
Jual Fe	deral E	nergy Regulatory Commission and	Lease of Power Privile	ege - Pumped Storage					
ИB	WY	Seminoe Pumped Storage Project*	In Development	FERC Preliminary Permit	Pump Storage	14787	Wyoming	Black Canyon Hydro, LLC	972.0
10		, , ,		•	, ,	14707	, ,		
	WY	Seminoe Pumped Storage Project*	In Development	LOPP Preliminary Lease	Pump Storage		Wyoming	Black Canyon Hydro, LLC	972.00
C-PN	ID	Anderson Ranch*	In Development	FERC Preliminary Permit	Pump Storage	14655	Columbia Cascades	Cat Creek Energy, LLC	400.00
	ID	Anderson Ranch*	In Development	LOPP Preliminary Lease	Pump Storage		Columbia Cascades	Cat Creek Energy, LLC	400.00
JCB	UT	Energy Storage Station Pumped Storage Project	In Development	FERC Preliminary Permit	Pump Storage	15001	UCB Power Office	Navajo Energy Storage Station, LLC	2,210.0

^{*} Dual FERC and LOPP permitting tracks for pumped storage project components.