

Bureau of Reclamation - Hydropower Generation Summary

Fiscal Year 2024 Q1

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).

Within FY 2024 Q1, an additional **2.53 MW** of incremental hydropower capability was installed at Reclamation Projects – resulting from a generator uprate completed at the Missouri-Basin Canyon Ferry facility in November 2023.

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:

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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: A generator uprate was completed at the Missouri-Basin Canyon Ferry, reserved work facility in November 2023 – delivering 2.53 MW of incremental capacity. The *Reserved* statistic has been updated accordingly.

| | | ssouri asin | Gra Te: | Arkansas- Rio Grande- Texas- Gulf | | Upper Colorado Basin | | Lower Colorado Basin | | Columbia– Pacific Northwest | | California- Great Basin | | eau of amation |
|-------------------|----|----------------|------------|---|----|----------------------------|----|----------------------------|----|-----------------------------------|----|-------------------------------|-----|-------------------|
| | # | MW | # | MW | # | MW | # | MW | # | MW | # | MW | # | MW |
| Reserved | 21 | 1044 | - | - | 9 | 1816 | 3 | 2454 | 10 | 7537 | 10 | 1910 | 53 | 14761 |
| Transferred | 1 | 1 | 1 | 1 | 10 | 42 | 11 | 300 | 1 | ı | 2 | 449 | 23 | 791 |
| Other | 1 | 1 | ī | 1 | - | 1 | 6 | 82 | ī | 1 | ı | 1 | 6 | 82 |
| FERC | 6 | 29 | 1 | 1 | 5 | 50 | 1 | ı | 27 | 326 | 16 | 67 | 54 | 473 |
| LOPP ³ | 3 | 11 | - | - | 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.

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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 | | Pad | mbia– cific hwest | California- Great Basin | | Bureau of Reclamation | |
|-----------------------|-------------------|----|---|----|----------------------------|----|----------------------------|----|-----|-------------------------|-------------------------------|----|--------------------------|----|
| | # | MW | # | MW | # | MW | # | MW | # | MW | # | MW | # | MW |
| License | 2 | 20 | - | - | - | - | - | - | 1 | 3 | - | - | 3 | 23 |
| Exemption | 1 | 1 | - | - | - | - | - | - | 4 | 2 | - | - | 5 | 3 |
| Preliminary Permit | - | - | - | ı | - | - | - | - | - | i | - | · | - | - |
| Total | 3 | 21 | - | - | - | 1 | - | - | 5 | 5 | - | 1 | 8 | 26 |

In Development – Conventional Hydropower (LOPP)

Table updates: Reclamation received three formal request to initiate the LOPP process within the Columbia-Pacific Northwest Region - the Black Canyon Main Canal (0.14 MW), North Unit Main Canal (1 MW) and North Unit Main Canal (Redmond) (1.4 MW). Formal requests were received in November and December 2023. The three projects have been added to the *Request for Development* statistic.⁴

| | Missouri Basin | | Arkansas- Rio Grande- Texas- Gulf | | Upper Colorado Basin | | Cold | wer orado osin | Pa | mbia– cific hwest | California- Great Basin | | Bureau of Reclamation | |
|----------------------------|-------------------|----|---|----|----------------------------|----|------|----------------------|----|-------------------------|-------------------------------|----|--------------------------|----|
| | # | MW | # | MW | # | MW | # | MW | # | MW | # | MW | # | MW |
| Contract | 1 | 3 | - | - | 1 | 1 | - | - | - | - | - | - | 2 | 4 |
| Preliminary Lease | 2 | 11 | 1 | - | - | - | - | 1 | - | - | - | - | 2 | 11 |
| Posted Solicitation | 1 | 1 | 1 | 1 | 1 | -1 | - | ı | ı | ı | ı | ı | - | - |
| Request for Development | - | 1 | - | - | - | - | - | - | 3 | 3 | 1 | - | 3 | 3 |
| Total | 3 | 14 | - | - | 1 | 1 | - | - | 3 | 3 | - | - | 7 | 18 |

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

⁴ MW capacity for the North Unit Main Canal project is currently being scoped and expected to be between 1 and 5 MW. Project capacity will be reported as 1 MW until scoping is complete.

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.⁵

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

Table updates: None.

| | | souri sin | R Gra Tex | insas- iio nde- xas- ulf | Cold | pper orado asin | Colc | wer orado osin | Pa | mbia– cific thwest | Califo -Gr Ba | eat | | eau of imation |
|--------------------------------------|---|--------------|-----------------|--------------------------------------|------|-----------------------|------|----------------------|----|--------------------------|---------------------|-----|---|-------------------|
| | # | MW | # | MW | # | MW | # | MW | # | MW | # | MW | # | MW |
| FERC PS | | | | | | | | | | | | | | |
| License | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Preliminary Permit | 1 | 1 | 1 | 1 | ı | - | ı | - | 1 | 600 | - | - | 1 | 600 |
| LOPP PS | | | | | | | | | | | | | | |
| Contract | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Preliminary Lease | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - |
| Dual FERC/LOPP PS ⁷ | | | | | | | | | | | | | | |
| Preliminary Permit | 1 | - | 1 | - | 1 | 2210 | 1 | - | 1 | - | - | - | 1 | 2210 |
| Preliminary Lease | ı | 1 | ı | 1 | i | ı | i | ı | i | - | ı | - | 1 | - |
| Preliminary Lease and Permit | 1 | 972 | 1 | 1 | - | - | - | - | 1 | 400 | 1 | - | 2 | 1372 |
| Total | 1 | 972 | - | - | 1 | 2210 | - | - | 2 | 1000 | - | - | 4 | 4182 |

⁵ See: https://www.usbr.gov/recman/fac/fac04-08-AppA.pdf.

⁶ See: https://www.usbr.gov/power/LOPP.

⁷ 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)⁸

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)⁹

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

⁸ See: https://www.ferc.gov/industries/hydropower/gen-info/licensing/app-new.asp.

⁹ 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

| Domina | Ctata | . Engility | Status | Downitting Status | Usedna nasuran Tuma | - | Reclamation Area | Onovotine Entity | Capacity |
|--------|----------|-------------------------------|------------------|-------------------|------------------------------|--------|--------------------------------------|--|-------------|
| Region | State | e Facility | Status | Permitting Status | Hydropower Type | Docket | Office | Operating Entity | (MW |
| Reclam | nation F | Reserved Works | | | | | | | |
| ИB | WY | Alcova | Online | | Conventional | | Wyoming | Reclamation | 41. |
| | CO | Big Thompson | Online | | Conventional | | Eastern Colorado | Reclamation | 4. |
| | WY | Boysen | Online | | Conventional | | Wyoming | Reclamation | 15. |
| | WY | Buffalo Bill | Online | | Conventional | | Wyoming | Reclamation | 18. |
| | 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 |
| | CO | Green Mountain | Online | | Conventional | | Eastern Colorado | Reclamation | 26. |
| | WY WY | Guernsey | Online Online | | Conventional | | Wyoming | Reclamation | 6. |
| | | Heart Mountain | | | Conventional | | Wyoming | Reclamation | 5. |
| | WY CO | Kortes | Online Online | | Conventional | | Wyoming | Reclamation | 36. 8. |
| | CO | Marys Lake Mt. Elbert PS | Online | | Conventional Pump Storage | | Eastern Colorado Eastern Colorado | Reclamation Reclamation | 8. |
| | WY | Pilot Butte | Online | | Conventional | | Wyoming | Reclamation | 200. |
| | CO | Pole Hill | Online | | Conventional | | Eastern Colorado | Reclamation | 38. |
| | WY | Seminoe | Online | | Conventional | | Wyoming | Reclamation | 51. |
| | WY | Shoshone | Online | | Conventional | | Wyoming | Reclamation | 3. |
| | WY | Spirit Mountain | Online | | Conventional | | Wyoming | Reclamation | 4. |
| | MT | Yellowtail | Online | | Conventional | | Montana | Reclamation | 287. |
| JCB | CO | Blue Mesa | Online | | Conventional | | UCB Power Office | Reclamation | 86. |
| CD | 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. |
| | co | Lower Molina | Online | | Conventional | | UCB Power Office | Reclamation | 5. |
| | CO | Morrow Point | Online | | Conventional | | UCB Power Office | Reclamation | 173. |
| | CO | Upper Molina | Online | | Conventional | | UCB Power Office | Reclamation | 9. |
| _CB | AZ | Davis | Online | | Conventional | | Lower Colorado | Reclamation | 255. |
| | AZ/NV | Hoover | Online | | Conventional | | Lower Colorado | Reclamation | 2,078. |
| | CA | Parker | Online | | Conventional | | Lower Colorado | Reclamation | 120. |
| C-PN | ID | Anderson Ranch | Online | | Conventional | | Snake River | Reclamation | 40. |
| | ID | Black Canyon | Online | | Conventional | | Snake River | Reclamation | 10. |
| | 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 | Hungry Horse | Online | | Conventional | | Columbia Cascades | Reclamation | 428.0 |
| | ID ID | Minidoka Palisades | Online Online | | Conventional Conventional | | Snake River Snake River | Reclamation Reclamation | 27. 176. |
| | WA | Roza | Online | | Conventional | | Columbia Cascades | Reclamation | 12.9 |
| C-GB | CA | Folsom | Online | | Conventional | | Central California | Reclamation | 207.1 |
| Gb | CA | Judge Francis Carr | Online | | Conventional | | Northern California | Reclamation | 154. |
| | CA | Keswick | Online | | Conventional | | Northern California | Reclamation | 117. |
| | CA | Lewiston | Online | | Conventional | | Northern California | Reclamation | 0. |
| | CA | New Melones | Online | | Conventional | | Central California | Reclamation | 380. |
| | 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 | nation T | Fransferred Works | | | | | | | |
| CD. | UT | Communication 1 | 0.15. | | Commentional | | D | William Dail William Communication | |
| JCB | UT UT | Causey Powerplant | Online Online | | Conventional | | Provo Provo | Weber Basin Water Conservancy District | 1, |
| | | Gateway Powerplant | | | Conventional | | | 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.

| . 0,000 | | mated of removed widin the rep | • | | | FERC Project | Reclamation Area | | Capa |
|---------|---|--|--|-------------------|--|--|--|---|------|
| egion | State | e Facility | Status | Permitting Status | Hydropower Type | Docket | Office | Operating Entity | (M |
| | UT | Olmsted Powerplant | Online | | Conventional | | Provo | Central Utah Water Conservancy District | |
| | UT | Payson Powerplant | Online | | Conventional | | Provo | Strawberry Water User's Association | |
| | UT | Upper Spanish Fork | Online | | Conventional | | Provo | Strawberry Water User's Association | |
| | UT | Wanship Powerplant | Online | | Conventional | | Provo | Weber Basin Water Conservancy District | |
| | UT | Deer Creek Powerplant | Online | | Conventional | | Provo | Provo River Water Users Association | |
| | CO | McPhee Powerplant | Online | | Conventional | | Western Colorado | Dolores Water Conservancy District | |
| | co | Towaoc Powerplant | Online | | Conventional | | Western Colorado | Dolores Water Conservancy District | |
| В | AZ | Arizona Falls Powerplant | Online | | Conventional | | Phoenix | Salt River Valley Water User's Association | |
| | AZ | C.C. Craigin Dam and Powerplant | Online | | Conventional | 2304 | Phoenix | Salt River Project | |
| | AZ | Cross Cut Powerplant | Online | | Conventional | | Phoenix | Salt River Valley Water User's Association | |
| | AZ | Horse Mesa Powerplant | Online | | Conventional/Pump Storage | | Phoenix | Salt River Valley Water User's Association | 1 |
| | AZ | Mormon Flat Powerplant | Online | | Conventional/Pump Storage | | Phoenix | Salt River Valley Water User's Association | |
| | AZ | New Waddell Pump/Generating Plant | Online | | Pump Storage | | Phoenix | Central Arizona Water Conservation District | |
| | CA | | Online | | | | Yuma | | |
| | | Senator Wash Pump/Generating Plant | | | Pump Storage | | | Imperial Irrigation District | |
| | CA | Siphon Drop Powerplant | Online | | Conventional | | Yuma | Yuma County Water User's Association | |
| | AZ | South Consolidated Powerplant | Online | | Conventional | | Phoenix | Salt River Valley Water User's Association | |
| | AZ | Stewart Mountain Powerplant | Online | | Conventional | | Phoenix | Salt River Valley Water User's Association | |
| | ΑZ | Theodore Roosevelt Powerplant | Online | | Conventional | | Phoenix | Salt River Valley Water User's Association | |
| SB | CA | San Luis Pumping-Generating Plant | Online | | Pump Storage | | South Central California | California Department of Water Resources | |
| | CA | O'Neill Pumping-Generating Plant | Online | | Pump Storage | | South Central California | San Luis Delta-Mendota Water Authority | |
| her N | lon-Fe | ederal Facilities Operating on Recl | amation Projects | | | | | | |
| 3 | | | 0.11 | | | | | | |
| | AZ | Drop Five Powerplant | Online | | Conventional | | Yuma | Imperial Irrigation District | |
| | ΑZ | Drop Four Powerplant | Online | | Conventional | | Yuma | Imperial Irrigation District | |
| | ΑZ | Drop One Powerplant | Online | | Conventional | | Yuma | Imperial Irrigation District | |
| | AZ | Drop Three Powerplant | Online | | Conventional | | Yuma | Imperial Irrigation District | |
| | | | | | | | Yuma | Imperial Irrigation District | |
| | AZ | Drop Two Powerplant | Online | | Conventional | | Tullia | imperiar irrigation district | |
| | | Drop Two Powerplant Pilot Knob Powerplant | Online Online | | Conventional Conventional | | Yuma | Imperial Irrigation District | |
| deral | AZ AZ | | Online | | | | | | |
| deral | AZ AZ | Pilot Knob Powerplant | Online | | | 3031 | | | |
| deral | AZ AZ Energ | Pilot Knob Powerplant y Regulatory Commission (FERC) | Online | | Conventional | 3031 12597 | Yuma | Imperial Irrigation District | |
| deral | AZ AZ Energy | Pilot Knob Powerplant W Regulatory Commission (FERC) Garland Canal | Online Online | | Conventional | | Yuma Wyoming | Imperial Irrigation District Shoshone Irrigation District | |
| deral | AZ AZ Energy WY MT CO | Pilot Knob Powerplant Iy Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam | Online Online Online Online Online | | Conventional Conventional Conventional Conventional | 12597 3603 | Yuma Wyoming Montana Western Colorado | Imperial Irrigation District Shoshone Irrigation District Turnbull Hydro, LLC City of Aspen | |
| deral | AZ AZ Energ | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam | Online Online Online Online Online Online | | Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 | Yuma Wyoming Montana Western Colorado Eastern Colorado | Imperial Irrigation District Shoshone Irrigation District Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. | |
| deral | AZ AZ Energy WY MT CO CO MO | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam | Online Online Online Online Online Online Online Online | | Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana | Imperial Irrigation District Shoshone Irrigation District Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. Tiber Montana, LLC | |
| | AZ AZ Energy WY MT CO CO MO MT | Pilot Knob Powerplant Iy Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop | Online Online Online Online Online Online Online Online Online | | Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 12598 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana | Imperial Irrigation District Shoshone Irrigation District Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. Tiber Montana, LLC Turnbull Hydro, LLC | |
| | AZ AZ Energy WY MT CO CO MO MT UT | Pilot Knob Powerplant Iy Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam | Online | | Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 12598 3755 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo | Imperial Irrigation District Shoshone Irrigation District Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. Tiber Montana, LLC Turnbull Hydro, LLC City of Bountiful | |
| leral | AZ AZ Energy WY MT CO CO MO MT UT NM | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam El Vado Dam | Online | | Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque | Shoshone Irrigation District Shoshone Irrigation District Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. Tiber Montana, LLC Turnbull Hydro, LLC City of Bountiful County of Los Alamos | |
| | AZ AZ Energy WY MT CO CO MO MT UT NM NM | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam | Online Online Online Online Online Online Online Online Online Online Online Online Online Online | | Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado | Imperial Irrigation District Shoshone Irrigation District 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 | |
| | AZ AZ Energy WY MT CO CO MO MT UT NM NM UT | Pilot Knob Powerplant Iy Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam | Online Online Online Online Online Online Online Online Online Online Online Online Online Online Online | | Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 | Yuma Wyoming Montana Westem Colorado Eastem Colorado Montana Montana Provo Albuquerque Westem Colorado Provo | Imperial Irrigation District Shoshone Irrigation District 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 Farmington | |
| | AZ AZ AZ Energy WY MT CO CO MO MT UT NM NM UT CO | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Vallecito Dam Vallecito Dam | Online Online Online Online Online Online Online Online Online Online Online Online Online Online | | Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado | Imperial Irrigation District Shoshone Irrigation District 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 | |
| | AZ AZ Energy WY MT CO CO MO MT UT NM NM UT | Pilot Knob Powerplant Iy Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam | Online Online Online Online Online Online Online Online Online Online Online Online Online Online Online | | Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 | Yuma Wyoming Montana Westem Colorado Eastem Colorado Montana Montana Provo Albuquerque Westem Colorado Provo | Imperial Irrigation District Shoshone Irrigation District 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 Farmington | |
| | AZ AZ AZ Energy WY MT CO CO MO MT UT NM NM UT CO | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Vallecito Dam Vallecito Dam | Online | | Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Western Colorado Western Colorado | Shoshone Irrigation District Shoshone Irrigation District 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 Farmington City of Farmington City of Bountiful Ptarmigan Resources and Energy, Inc. | |
| | AZ AZ Energy WY MT CO CO MO MT UT NM NM UT CO OR | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallectio Dam 45-Mile | Online Online | | Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Western Colorado Columbia Cascades | Shoshone Irrigation District Shoshone Irrigation District 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 Farmington City of Farmington City of Bountiful Ptarmigan Resources and Energy, Inc. Apple, Inc. Ldaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder | |
| | AZ AZ WY MT CO CO MO MT UT NM NM UT CO OR ID | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile American Falls | Online Online | | Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 | Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Colorado Colorado Columbia Cascades Snake River | Imperial Irrigation District Shoshone Irrigation District 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 Farmington City of Bountiful Ptarmigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co | |
| | AZ AZ Energy WY MT CO CO MO MT UT NM NM UT CO OR ID ID | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile American Falls Arrowrock Dam | Online Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Western Colorado Columbia Cascades Snake River Snake River | Shoshone Irrigation District Shoshone Irrigation District 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 Farmington City of Farmington City of Bountiful Patamigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District, and Big Bend Irrigation District | |
| | AZ AZ Energy WY MT CO CO MO MT UT NM NM UT CO OR ID ID | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile American Falls Arrowrock Dam Cascade | Online Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Colorado Columbia Cascades Snake River Snake River | Shoshone Irrigation District Shoshone Irrigation District 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 Farmington City of Bountiful Plarmigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District, and Big Bend Irrigation District Idaho Power Company | |
| | AZ AZ Energy WY CO CO MO MT UT NM NM UT CO OR ID ID WA | Pilot Knob Powerplant Iy Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile Arrowrock Dam Cascade Cowiche | Online Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 2848 7337 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Western Colorado Columbia Cascades Snake River Snake River Columbia Cascades | Shoshone Irrigation District 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 Farmington City of Bountiful Ptarmigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District, and Big Bend Irrigation District Idaho Power Company Yakima—Tieton Irrigation District Big Wood Canal Company | |
| | AZ AZ Energy MT CO CO MO MT NM NM UT CO CO ID ID ID WA ID | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile American Falls Arrowrock Dam Cascade Cowiche Dietrich Drop Eltopia Branch Canal 4.6 | Online Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 2848 7337 8909 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Western Colorado Columbia Cascades Snake River Snake River Snake River Snake River Snake River Snake River | Shoshone Irrigation District Shoshone Irrigation District 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 Farmington City of Bountiful Parmigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District, and Big Bend Irrigation District Idaho Power Company Yakima-Tieton Irrigation District Big Wood Canal Company Columbia Basin Hydropower | |
| | AZ AZ Energy | Pilot Knob Powerplant Iy Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile Arrowrock Dam Cascade Cowiche Dietrich Drop Eltopia Branch Canal 4.6 Esquatzel Power | Online Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 2848 7337 8909 3842 12638 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Western Colorado Columbia Cascades Snake River Snake River Columbia Cascades Snake River Columbia Cascades Columbia Cascades Columbia Cascades | Shoshone Irrigation District Shoshone Irrigation District 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 Farmington City of Bountiful Ptarmigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District and Big Bend Irrigation District Idaho Power Company Yakima-Tieton Irrigation District Big Wood Canal Company Columbia Basin Hydropower Green Energy Today, LLC | |
| | AZ AZ Energy WY MT CO CO MO MT UT NIM NIM NIM UT CO OR ID ID WA ID WA ID WA ID | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile American Falls Arrowrock Dam Cascade Cowiche Dietrich Drop Eltopia Branch Canal 4.6 Esquatzel Power Fargo Drop No. 1 | Online Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 2848 7337 8909 3842 12638 5042 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Western Colorado Columbia Cascades Snake River | Shoshone Irrigation District 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 Sountiful Ptarmigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District and Big Bend Irrigation District Idaho Power Company Yakima—Tileton Irrigation District Big Wood Canal Company Columbia Basin Hydropower Green Energy Today, LLC Boise Project Board of Control | |
| | AZ AZ Energy WY MT CO CO CO MO UT NM NM NM ID UT | Pilot Knob Powerplant Ty Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile Armerican Falls Arrowrock Dam Cascade Cowiche Dietrich Drop Eltopia Branch Canal 4.6 Esquatzel Power Fargo Drop No. 1 Felt Hydro | Online Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 2848 7337 8909 3842 12638 5042 5089 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Columbia Cascades Snake River Snake River Columbia Cascades Snake River Columbia Cascades Columbia Cascades Snake River Columbia Cascades | Shoshone Irrigation District Shoshone Irrigation District 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 Farmington City of Farmington City of Farmington City of Bountiful Ptarmigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District, and Big Bend Irrigation District Idaho Power Company Yakima-Tieton Irrigation District Big Wood Canal Company Columbia Basin Hydropower Green Energy Today, LLC Boise Project Board of Control Fall River Rural Cooperative | |
| | AZ AZ Energy WY MT CO CO CO MO MT ID ID ID WA WA ID | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile American Falls Arrowrock Dam Cascade Cowiche Dietrich Drop Eltopia Branch Canal 4.6 Esquatzel Power Fargo Drop No. 1 Felt Hydro Island Park | Online Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 2848 7337 8909 3842 12638 5042 5089 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Columbia Cascades Snake River Snake River Columbia Cascades Snake River Columbia Cascades Snake River | Shoshone Irrigation District Shoshone Irrigation District 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 Farmington City of Farmington City of Bountiful Ptarmigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District, and Big Bend Irrigation District Idaho Power Company Yakima-Tieton Irrigation District Big Wood Canal Company Columbia Basin Hydropower Green Energy Today, LLC Boise Project Board of Control Fall River Rural Cooperative Fall River Rural Electric | |
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| | AZ AZ Energy WY MT CO CO MO UT NM NM UT CO OR ID UM ID WA ID UM ID | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile American Falls Arrowrock Dam Cascade Cowiche Dietrich Drop Eltopia Branch Canal 4.6 Esquatzel Power Fargo Drop No. 1 Felt Hydro Island Park | Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 2848 7337 8909 3842 12638 5042 5089 2973 7427 5056 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Columbia Cascades Snake River Snake River Columbia Cascades Columbia Cascades Snake River | Shoshone Irrigation District Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. Tiber Montana, LLC Turnbull Hydro, LLC City of Farmington City of Farmington City of Farmington City of Farmington City of Bountiful Patarnigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Idaho Power Company Yakima-Tieton Irrigation District Big Wood Canal Company Columbia Basin Hydropower Green Energy Today, LLC Boise Project Board of Control Fall River Rural Cooperative Fall River Rural Electric Little Wood Irrigation District Boise Project Board of Control | |
| | AZ AZ Energy WY MT CO CO WM MT UT NM NM UT CO OR ID ID ID WA ID | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile American Falls Arrowrock Dam Cascade Cowiche Dietrich Drop Eltopia Branch Canal 4.6 Esquatzel Power Fargo Drop No. 1 Felt Hydro Island Park Little Wood Reservoir | Online Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 2848 7337 8909 3842 12638 5042 5089 2973 7427 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Western Colorado Columbia Cascades Snake River Columbia Cascades Snake River Columbia Cascades Snake River Columbia Cascades Snake River | Shoshone Irrigation District Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. Tiber Montana, LLC Turnbull Hydro, LLC City of Sountiful County of Los Alamos City of Farmington City of Fountiful Ptarmigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District and Big Bend Irrigation District Idaho Power Company Yakima-Tieton Irrigation District Big Wood Canal Company Columbia Basin Hydropower Green Energy Today, LLC Boise Project Board of Control Fall River Rural Electric Little Wood Irrigation District | |
| | AZ AZ Energy WY MT CO CO MO UT NM NM UT CO OR ID UM ID WA ID UM ID | Pilot Knob Powerplant IN Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Etho Dam El Vado Dam Navajo Dam Pineview Dam 45-Mile American Falls Arrowrock Dam Cascade Cowiche Dietrich Drop Ettopia Branch Canal 4.6 Esquatzel Power Fargo Drop No. 1 Felt Hydro Island Park Little Wood Reservoir Low Line No. 8 Arena Drop | Online Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 2848 7337 8909 3842 12638 5042 5089 2973 7427 5056 | Yuma Wyoming Montana Western Colorado Eastern Colorado Montana Montana Provo Albuquerque Western Colorado Provo Columbia Cascades Snake River Snake River Columbia Cascades Columbia Cascades Snake River | Shoshone Irrigation District Turnbull Hydro, LLC City of Aspen STS Hydropower Ltd. Tiber Montana, LLC Turnbull Hydro, LLC City of Farmington City of Farmington City of Farmington City of Farmington City of Bountiful Patarnigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Idaho Power Company Yakima-Tieton Irrigation District Big Wood Canal Company Columbia Basin Hydropower Green Energy Today, LLC Boise Project Board of Control Fall River Rural Cooperative Fall River Rural Electric Little Wood Irrigation District Boise Project Board of Control | |
| | AZ A | Pilot Knob Powerplant Ty Regulatory Commission (FERC) Garland Canal Lower Turnbull Drop Ruedi Dam Sugarloaf Dam Tiber Dam Upper Turnbull Drop Echo Dam El Vado Dam Navajo Dam Pineview Dam Vallecito Dam 45-Mile Armerican Falls Arrowrock Dam Cascade Cowiche Dietrich Drop Eltopia Branch Canal 4.6 Esquatzel Power Fargo Drop No. 1 Felt Hydro Island Park Little Wood Reservoir Low Line No. 8 Arena Drop Main Canal Headworks | Online | | Conventional Conventional | 12597 3603 3819 3574 12598 3755 5226 4720 4597 3174 13817 2736 4656 2848 7337 8909 3842 12638 5042 5089 2973 7427 5056 2849 | Wyoming Montana Western Colorado Eastern Colorado Montana Provo Albuquerque Western Colorado Provo Columbia Cascades Snake River Snake River Columbia Cascades Snake River Columbia Cascades Snake River Snake River Columbia Cascades Snake River Columbia Cascades Snake River Snake River Columbia Cascades Snake River Columbia Cascades Snake River Columbia Cascades | Shoshone Irrigation District 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 Farmington City of Farmington City of Bountiful Parmigan Resources and Energy, Inc. Apple, Inc. Idaho Power Co Boise-Kuna Irrigation District, Nampa and Meridian Irrigation District, New York Irrigation District, Wilder Irrigation District, and Big Bend Irrigation District Idaho Power Company Yakima-Tieton Irrigation District Big Wood Canal Company Columbia Basin Hydropower Green Energy Today, LLC Boise Project Board of Control Fall River Rural Electric Little Wood Irrigation District Boise Project Board of Control Fall River Rural Electric Little Wood Irrigation District Boise Project Board of Control Columbia Basin Hydropower | |

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 | (MV |
| | 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. |
| | WA | Orchard Avenue | Online | | Conventional | 7338 | Columbia Cascades | Yakima-Tieton Irrigation District | 1 |
| | OR | Owyhee Dam | Online | | Conventional | 4354 | Snake River | Gem Irrigation District, Owyhee Irrigation District, and Ridgeview Irrigation District | 4 |
| | 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 | (|
| | 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 | 0 |
| | CA | Madera Canal Water Power STA 1923+10 | Online | | Conventional | 2958 | South Central California | Madera-Chowchilla Water and Power Authority | 0 |
| | 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) | C |
| | CA | Whiskey Dam Power Project | Online | | Conventional | 2888 | Northern California | City of Redding | 3 |
| | | | | | | | | | |
| ИΒ | MT | Mary Taylor Drop | In Development | Exemption | Conventional | 14294 | Montana | Turnbull Hydro, LLC | 0. |
| | MT | Clark Canyon Dam | In Development | License | Conventional | 14677 | Montana | Clark Canyon Hydro, LLC | 4. |
| -PN | MT ID | Gibson Dam | In Development In Development | License | Conventional Conventional | 12478 5040 | Montana Snake River | Gibson Dam Hydroelectric Company, LLC. Boise Project Board of Control | 15. |
| PIN | | Fargo Drop No. 2 | | Exemption | | 5041 | | | 0. |
| | ID ID | Main Canal No. 10 Main Canal No. 6 | In Development | Exemption | Conventional Conventional | 5038 | Snake River Snake River | Boise Project Board of Control | 1 |
| | ID | Waldvogel Bluff | In Development In Development | Exemption Exemption | Conventional | 5043 | Snake River | Boise Project Board of Control Boise Project Board of Control | 0 |
| | 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 | |
| | OK | Owyriee Fulliped Storage Project | in Development | Freiininary Fermit | rump storage | | | Owynee Energy Storage, EEC | 600 |
| Lease o | | | | | | | Shake raver | | 600 |
| | t Powe | er Privilege | | | | | Shake river | | 600 |
| 1B | co co | er Privilege Carter Lake Outlet | Online | | Conventional | | Eastern Colorado | Northern Water Conservancy District | 600 |
| 1B | | | Online Online | | Conventional Conventional | LP11-4 | | Northern Water Conservancy District Southeastern Colorado Water Conservancy District | 2 |
| В | СО | Carter Lake Outlet | | | | | Eastern Colorado | · · · · · · · · · · · · · · · · · · · | 2 |
| IB CB | CO CO | Carter Lake Outlet Pueblo Dam | Online | | Conventional | LP11-4 | Eastern Colorado Eastern Colorado | Southeastern Colorado Water Conservancy District | 2 7 |
| СВ | CO CO | Carter Lake Outlet Pueblo Dam Granby Dam | Online Online | | Conventional Conventional | LP11-4 | Eastern Colorado Eastern Colorado Eastern Colorado | Southeastern Colorado Water Conservancy District Northern Water Conservancy District | - |
| ICB | CO CO CO | Carter Lake Outlet Pueblo Dam Granby Dam Grand Valley Project | Online Online Online | | Conventional Conventional | LP11-4 | Eastern Colorado 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 | 2 7 1 3 |
| IB CB | CO CO CO CO | Carter Lake Outlet Pueblo Dam Granby Dam Grandy Valley Project Jackson Gulch Dam | Online Online Online Online Online | | Conventional Conventional Conventional Conventional | LP11-4 | Eastern Colorado 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 | 2 7 1 3 0 |
| В | CO CO CO CO UT | Carter Lake Outlet Pueblo Dam Granby Dalm Grandy Dalley Project Jackson Gulch Dam Jordanelle Dam | Online Online Online Online Online Online | | Conventional Conventional Conventional Conventional Conventional | LP11-4 | Eastern Colorado 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 | ; ; ; |
| СВ | CO CO CO CO UT CO | Carter Lake Outlet Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam | Online Online Online Online Online Online | | Conventional Conventional Conventional Conventional Conventional Conventional | LP11-4 | Eastern Colorado 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 | 2 7 1 3 6 7 |
| В | CO CO CO CO UT CO | Carter Lake Outlet 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 | LP11-4 | Eastern Colorado Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo 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 Certail Utah Water Conservancy District and Heber Light and Power Florida Water Conservancy District Tri-County Water Conservancy District | 113 |
| CB | CO CO CO CO CO CO CO | Carter Lake Outlet Pueblo Dam Granby Dam Grand Valley Project Jackson Gulch Dam Jordanelle Dam Lemon Dam Ridgway Dam Shavano Falls (Drop 6) | Online Online Online Online Online Online Online Online Online | | Conventional Conventional Conventional Conventional Conventional Conventional Conventional Conventional | LP11-4 | Eastern Colorado 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 Uncompahyre Valley Water Users Association | 2 7 1 3 (13 |
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| -GB | CO C | Carter Lake Outlet 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 | LP11-4 | Eastern Colorado Eastern Colorado Eastern Colorado Western Colorado Western Colorado Provo Western Colorado Kestern Colorado Western Colorado 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 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 Uncompahyre Valley Water Users Association Uncompahyre Valley Water Users Association Uncompahyre Valley Water Users Association Grand Valley Water Users Association and the Orchard Mesa Irrigation District Klamath Irrigation District | 2 2 7 1 1 3 3 0 0 1 3 1 3 1 4 4 4 4 4 0 0 0 0 1 1 1 1 1 1 1 1 1 1 |
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| | CO C | Carter Lake Outlet 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 Preliminary Lease Preliminary Lease | Conventional | LP11-4 | Eastern Colorado Eastern Colorado Eastern Colorado Eastern 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 Grand Valley Water Users Association Grand Valley Water Users Association and the Orchard Mesa Irrigation District Klamath Irrigation District | 2 2 7 1 1 3 3 C C 7 7 2 2 4 4 4 2 4 4 4 4 4 4 |

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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| | | | | | | FERC Project | Reclamation Area | | Capacit |
| Region | State | Facility | Status | Permitting Status | Hydropower Type | Docket | Office | Operating Entity | (MW |
| PN | 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 |
| | ID | Black Canyon Main Canal | In Development | Request for Development | Conventional | | Columbia Cascades | TBD (project initiated by Black Canyon Irrigation District) | 0.1 |
| | OR | North Unit Main Canal | In Development | Request for Development | Conventional | | Snake River | TBD (project initiated by North Unit Irrigation District) | 1.0 |
| | OR | North Unit Main Canal (Redmond) | In Development | Request for Development | Conventional | | Snake River | TBD (project initiated by North Unit Irrigation District) | 1.4 |
| Duai Fe | derai E | nergy Regulatory Commission and | Lease of Power Privilege - P | umped Storage | | | | | |
| | | | | | | | | | |
| IB | WY | Seminoe Pumped Storage Project* | In Development | FERC Preliminary Permit | Pump Storage | 14787 | Wyoming | Black Canyon Hydro, LLC | 972.0 |
| | WY | Seminoe Pumped Storage Project* | In Development | LOPP Preliminary Lease | Pump Storage | | Wyoming | Black Canyon Hydro, LLC | 972.0 |
| -PN | ID | Anderson Ranch* | In Development | FERC Preliminary Permit | Pump Storage | 14655 | Columbia Cascades | Cat Creek Energy, LLC | 400.0 |
| | ID | Anderson Ranch* | In Development | LOPP Preliminary Lease | Pump Storage | | Columbia Cascades | Cat Creek Energy, LLC | 400.0 |
| JCB | UT | Energy Storage Station Pumped Storage Project (Lake Powell) | 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.