Bureau of Reclamation - Hydropower Generation Summary

Fiscal Year 2022 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 – and reports on incremental hydropower capability installed within the quarter, as applicable. 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

The Department of the Interior has identified incremental hydropower capability as a key performance indicator in the Fiscal Year (FY) 2018-2022 Strategic Plan.2 Incremental capability performance is reported in megawatts (MW) – consisting of MW derived from generator uprates and non-federal development; 3 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). Annual targets have been established for incremental hydropower capability performance, representing cumulative MW totals:

<table>
<thead>
<tr>
<th>Performance Year</th>
<th>Annual Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2018</td>
<td>10 MW of incremental hydropower capability added in FY 2018.</td>
</tr>
<tr>
<td>FY 2021</td>
<td>40 MW of cumulative capability added in FY 2018 through FY 2021.</td>
</tr>
<tr>
<td>FY 2022</td>
<td>50 MW of cumulative capability added in FY 2018 through FY 2022.</td>
</tr>
</tbody>
</table>

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1 For additional information, 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.


3 Non-federal hydropower developed on Reclamation Projects in accordance with a Federal Energy Regulatory Commission License or Reclamation Lease of Power Privilege.
No new incremental hydropower capacity was installed at Reclamation Projects within FY 2022 Q1.

A cumulative total of **62.6 MW** of incremental capability has been installed at Reclamation Projects since FY 2018, surpassing the FY 2022 50 MW target. FY 2018 through FY 2022 Q1 performance is summarized in table below:

<table>
<thead>
<tr>
<th>Region</th>
<th>Facility</th>
<th>Activity</th>
<th>Completion Date</th>
<th>Incremental MW</th>
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<tr>
<td>Upper Colorado Basin</td>
<td>Glen Canyon Control Center</td>
<td>HydROS Installation</td>
<td>October 2017</td>
<td>17.31</td>
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<td>Missouri Basin</td>
<td>Casper Control Center</td>
<td>HydROS Installation</td>
<td>January 2018</td>
<td>6.73</td>
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<td>Yellowtail - Unit 1</td>
<td>Generator Uprate</td>
<td>July 2018</td>
<td>9.40</td>
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<tr>
<td>Columbia–Pacific Northwest</td>
<td>Palisades - Unit 2</td>
<td>Turbine Runner Replacement</td>
<td>April 2018</td>
<td>1.92</td>
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<td>Upper Colorado Basin</td>
<td>Olmsted</td>
<td>Generator Uprate</td>
<td>July 2018</td>
<td>1.43</td>
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<td>Pueblo Dam</td>
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<tr>
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<td>Yellowtail - Unit 4</td>
<td>Generator Uprate</td>
<td>October 2019</td>
<td>9.40</td>
</tr>
<tr>
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<td>Yellowtail – Unit 2</td>
<td>Generator Uprate</td>
<td>June 2021</td>
<td>9.40</td>
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<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>62.60</strong></td>
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</table>
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 attached Appendix B – Regional Hydropower Generating Capacity Portfolios.

Table components may not sum to totals due to rounding.

Online Hydropower Facilities

FY 2022 Q1 table updates: None.

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<td>6</td>
<td>82</td>
<td>6</td>
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<td>29</td>
<td>5</td>
<td>50</td>
<td>27</td>
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<td>LOPP</td>
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<td>34</td>
<td>1949</td>
<td>20</td>
<td>2836</td>
<td>37</td>
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</table>

In Development – Conventional Hydropower (FERC)

FY 2022 Q1 table updates: None.

4 Reclamation holds title to the Upper Colorado Basin Grand Valley hydropower facility LOPP. The total number of Reclamation-owned hydropower facilities is 78 (53 reserved, 24 transferred, 1 LOPP).
### In Development – Conventional Hydropower (LOPP)

**FY 2022 Q1 table updates:** The Upper Colorado Basin Grand Valley (Orchard Mesa Power Canal) project status and capacity have been revised. The project (4.90 MW, formerly 3.0 MW) received a **LOPP Contract** in October 2021. The project has been moved from the **Preliminary Lease** statistic to the **Contract** statistic.

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<td>14</td>
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### 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.\(^5\)

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\(^5\) Available at: [https://www.usbr.gov/recman/fac/fac04-08-AppA.pdf](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. Projects subject to dual FERC/LOPP jurisdiction are identified as Dual LOPP/FERC PS projects in the table below.

FY 2022 Q1 table updates: None – however, on November 11, 2021, Congress enacted Pub. L. 117-58, the Infrastructure Investment and Jobs Act (IIJA). Section 40335 of the IIJA amends Section 9(c) of the Reclamation Project Act of 1939 (Pub. L. 76-260) – to reserve to Reclamation primary authority over non-federal pumped storage projects that utilize exclusively Reclamation Project reservoirs, to the exclusion of FERC jurisdiction.

Per IIJA, Section 40335, the Columbia-Pacific Banks Lake Pumped Storage Project (Roosevelt Lake) – proposing to utilize exclusively Reclamation Project reservoirs (Banks Lake and Roosevelt Lake) will be reported in the sole jurisdiction, LOPP PS statistic below should a Preliminary Lease be executed.

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<td>1865</td>
<td>1</td>
<td>2210</td>
<td>3</td>
<td>3250</td>
<td>8</td>
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6 Available at: https://www.usbr.gov/power/LOPP.
7 The proposed Energy Storage Station Pumped Storage Project (Lake Powell) (Upper Colorado Basin) and Halverson Canyon Pumped Storage Project (Roosevelt Lake) (Columbia-Pacific Northwest) projects have received a FERC Preliminary Permit for upper reservoir development but have 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.

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\(^8\) For additional information, see: [https://www.ferc.gov/industries/hydropower/gen-info/licensing/app-new.asp](https://www.ferc.gov/industries/hydropower/gen-info/licensing/app-new.asp).

\(^9\) For additional information, see: [https://www.usbr.gov/power/LOPP](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 LOPP/FERC PS – Preliminary Permit.** Dual jurisdiction non-federal pump storage hydropower facilities in development on Reclamation Projects, currently issued an active FERC Preliminary Permit.

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

**Dual LOPP/FERC PS – Preliminary Lease and Permit.** Dual jurisdiction non-federal pump storage hydropower facilities in development on Reclamation Projects, currently issued an active LOPP Preliminary Lease and active FERC Preliminary Permit.
Appendix B – Regional Hydropower Generating Capacity Portfolios
## Regional Hydropower Generating Capacity Portfolios

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

<table>
<thead>
<tr>
<th>Region</th>
<th>State</th>
<th>Facility</th>
<th>Status</th>
<th>Hydropower Type</th>
<th>FERC Project Docket</th>
<th>Reclamation Area</th>
<th>Operating Entity</th>
<th>Capacity (MW)</th>
</tr>
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<tbody>
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### Regional Hydropower Generating Capacity Portfolios

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

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#### Federal Energy Regulatory Commission (FERC)

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The Federal Energy Regulatory Commission (FERC) is responsible for regulating hydropower projects in the United States. This includes issues related to the operation, capacity, and environmental impact of hydropower facilities. The table above summarizes key information about various hydropower projects, including their capacity, operating status, and regulatory oversight. Projects are categorized by region and state, with details on the type of hydropower (conventional, pump storage, etc.), the operating entity, and the capacity in megawatts (MW).
### Regional Hydropower Generating Capacity Portfolios

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

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### Montana

| MT | Mary Taylor Drop | In Development | Exemption | Conventional | Montana | Tumbleb Hollow, LLC | 14294 | | 0.89 |
| MT | Clark Canyon Dam | In Development | License | Conventional | Montana | Clark Canyon Hydro, LLC | 14677 | | 4.70 |
| MT | Gibson Dam | In Development | License | Conventional | Montana | Gibson Dam Hydroelectric Company, LLC. | 12478 | | 15.00 |

### Nebraska-Kansas

| NE | Medicine Creek Dam | In Development | Preliminary Permit | Conventional | Nebraska-Kansas | Twin Valley Public Power District | 13648 | | 0.80 |
| NE | Black Canyon Pumped Storage Project | In Development | Preliminary Permit | Pump Storage | Wyoming | Black Canyon Hydro, LLC | 14087 | | 700.00 |
| MT | Square Butte Pumped Storage | In Development | Preliminary Permit | Pump Storage | Montana | Square Butte Hydro, LLC | 13349 | | 1.032.00 |

### Idaho

| ID | Farge Drop No. 2 | In Development | Exemption | Snake River | Boise Project Board of Control | 5040 | | | 0.18 |
| ID | Main Canal No. 10 | In Development | Exemption | Snake River | Boise Project Board of Control | 5041 | | | 0.50 |
| ID | Main Canal No. 6 | In Development | Exemption | Snake River | Boise Project Board of Control | 5038 | | | 1.04 |

### Washington

| WA | 15.4 Wasteaey | In Development | Preliminary Permit | Columbia Cascades | Columbia Basin Hydropower | 14349 | | | 1.75 |
| WA | 46A Wasteaey | In Development | Preliminary Permit | Columbia Cascades | Columbia Basin Hydropower | 14351 | | | 1.40 |

### Oregon

| OR | Bowman Dam | In Development | Preliminary Permit | Columbia Cascades | Owyhee Irrigation District | 14791 | | | 4.00 |
| WA | McKay Dam | In Development | Preliminary Permit | Columbia Cascades | Houtama Hydropower, LLC | 14546 | | | 2.30 |
## Regional Hydropower Generating Capacity Portfolios

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

### Lease of Power Privilege

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<thead>
<tr>
<th>Region</th>
<th>State</th>
<th>Facility</th>
<th>Status</th>
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<th>FERC Project Docket</th>
<th>Reclamation Area Office</th>
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### Dual Federal Energy Regulatory Commission and Lease of Power Privilege - Pumped Storage

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