BP-24 IPR
Environment, Fish and Wildlife
June 16, 2022
Mitigate for the hydropower effects of constructing and operating the Federal Columbia River Power System, as well as ensuring compliance with applicable environmental laws and regulations.
## Legal Context

<table>
<thead>
<tr>
<th>Act/Responsibility</th>
<th>Description</th>
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| **Pacific Northwest Electric Power Planning and Conservation Act** | • Protect, mitigate and enhance fish and wildlife, including related spawning grounds and habitat, on the Columbia River and its tributaries.  
• Equitable treatment of F&W with other purposes.  
• Consistency with the Columbia Basin F&W program. |
| **Endangered Species Act** | • Avoiding jeopardy to listed fish and wildlife.  
• Avoiding adverse modification of critical habitat.  
• Biological Opinions. |
| **Tribal treaty and trust responsibilities** | • The right to take fish at usual and accustomed places.  
• Government-to-government consultations. |
| **Clean Water Act** | • Comply with applicable water quality standards to the extent practicable. |
| **National Environmental Policy Act** | • Assess major federal actions that may significantly affect the environment. |
| **National Historic Preservation Act** | • Assess federal undertakings that may adversely affect historic and cultural resources. |
## EFW Organizations

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
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<tbody>
<tr>
<td>Fish and Wildlife Program</td>
<td>Provide compliance with the Northwest Power Act, the ESA, and other F&amp;W responsibilities</td>
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<tr>
<td>Environmental Planning and Analysis Program</td>
<td>Ensure that all BPA activities undergo appropriate environmental analysis and compliance review in accordance with federal environmental and cultural resource laws. Pollution, Prevention and Abatement provides this function for Transmission operation and maintenance activities; Environmental Planning and Analysis provides this function for all other Transmission and Power projects, programs and activities, including BPA’s F&amp;W Program.</td>
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<tr>
<td>Pollution Prevention and Abatement Program</td>
<td>Develop, coordinate and manage environmental compliance programs for the operation, maintenance and construction of BPA’s transmission system.</td>
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EP in Action

Pollution Prevention and Abatement (PP&A)
EC in Action

Environmental Planning and Analysis
Financial components of BPA’s F&W Actions

- **Fish and Wildlife Program** – BPA’s F&W program is a legal compliance program. It funds several hundred mitigation projects to support compliance with applicable laws, including the Northwest Power Act and Endangered Species Act.

- **Debt service** – The projected amortization, depreciation and interest payments for investments directly funded through BPA borrowing, as well as capital investments by the Corps and Reclamation that are funded by the U.S. Treasury and reimbursed by BPA.

- **Fish-related O&M** (“reimbursable expenses”) – The hydroelectric share of operations and maintenance and other non-capital expenditures for fish and wildlife activities by the Corps and Reclamation (i.e., O&M of fish facilities at the federal mainstem dams and Corps/Reclamation mitigation hatcheries), and U.S. Fish & Wildlife Service (for hatcheries under the Lower Snake River Compensation Plan – 11 hatcheries and 18 satellite facilities).

- **River operations** – The power production effects of river operations for fish
Figure 2: Costs by Types of Species, FY2021

Total: $295.5 million includes $41.9 million in obligations to capital projects, plus General and Administrative (G&A) expenses ($12.3 million, not included), and Columbia River System Operations Review/Environmental Impact Statement expenses ($0.2 million, not included)
FY21 F&W Program Costs by Category

Total: $295.5 million includes $41.9 million in obligations to capital projects, plus General and Administrative (G&A) costs ($12.3 million), and Columbia River System Operations Review/Environmental Impact Statement costs ($0.2 million)

Habitat (Restoration/Protection) $122.0 million 41%

Production (Supplementation) $46.5 million 16%

Law Enforcement $9.9 million 0%

Harvest Augmentation $5.2 million 2%

Predator Removal $4.1 million 1%

Research, Monitoring and Evaluation $76.1 million 26%

G&A $12.3 million 4%

Coordination (Local/Regional) $11.1 million 4%

Coordination & Project Mgmt $11.9 million 4%

Data Management $5.1 million 2%

CRSC EIS $2.0 million 0%
In 2021, BPA funded:

- The removal of instream passage barriers that opened access to 146 miles of habitat
- The purchase, lease, or fencing of land to protect 76 riparian miles and 47,000 acres of habitat
- Active work to improve, protect, or reconnect 909 riparian miles and 49,000 acres of habitat
- The release of ~140 million fish from hatcheries, including
  - Spring, summer, and fall chinook salmon, coho, chum, and sockeye salmon, and steelhead
  - White Sturgeon, rainbow trout, westslope cutthroat trout, and kokanee salmon
F&W in Action

Icicle Creek Boulder Field Fish Passage Project

- Opened access to 23.4 miles of mainstem habitat, and dozens of miles of tributary habitat
- Icicle Creek is located in the Wenatchee Subbasin, near Leavenworth
- Implemented by Trout Unlimited
- Project budget of $325,000
Steigerwald Lake Floodplain Reconnection Project

• Expanded the Steigerwald Refuge by 160 acres
• Created more than 100 acres of new wetland and reforested 250 acres of riparian habitat
• Reconnected 660+ acres of wetland habitat to the Columbia River for all ESA-listed juvenile salmonids
• Restored salmon-bearing Gibbons Creek to its natural channel and provided unobstructed access for salmon and lamprey
• BPA-funded at $24 million, Steigerwald is the agency’s largest funded estuary restoration project to-date
## LSRCP HATCHERIES & STOCKS BENEFITTED

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<tr>
<th></th>
<th>Spring Chinook</th>
<th>Summer Chinook</th>
<th>Fall Chinook</th>
<th>Steelhead</th>
<th>Rainbow Trout</th>
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<td><strong>Oregon</strong></td>
<td>Lookingglass Hatchery ▪ Wallowa Hatchery ▪ Irrigon Hatchery</td>
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<td><strong>Washington</strong></td>
<td>Lyons Ferry Hatchery ▪ Tucannon Hatchery</td>
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<td><strong>Idaho</strong></td>
<td>Clearwater Hatchery ▪ Magic Valley Hatchery ▪ Hagerman National Fish Hatchery ▪ McCall Hatchery ▪ Sawtooth Hatchery ▪ Dworshak National Fish Hatchery</td>
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### F&W Integrated Program and LSRCP, *capital and expense*

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<tr>
<td>Fish &amp; Wildlife</td>
<td>$22,312,998</td>
<td>$40,184,699</td>
<td>$41,897,146</td>
<td>$43,000,000</td>
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<td>Capital Total</td>
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<td>Fish &amp; Wildlife</td>
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BPA F&W Program Objectives BP-24 IPR

- Prioritize and implement projects that directly benefit fish and wildlife in a cost-effective manner by working collaboratively with the Council, states, tribes and other partners

- Continue focus on asset management

- Implement actions to fulfill ESA responsibilities
  - Examples of new actions include: habitat access improvements for bull trout, habitat quality improvements for Kootenai River white sturgeon, monitoring new spill programs on the main stem Snake and Columbia Rivers

- Continue fulfilling commitments through existing agreements
EFW Capital Investments in BP-24

- **Fish and Wildlife Program Capital Investments**
  - Three asset categories: (1) hatcheries, (2) large-scale habitat access improvement, floodplain reconnection, and fish habitat restoration, and (3) conservation lands.
  - In BP-24, F&W capital investments will primarily focus on hatchery construction or upgrades and land acquisitions for wildlife and resident fish mitigation.

- **Environmental Capital Investments**
  - There are no new programs planned for BP-24.
  - Work will continue to focus on:
    - Replacing high-voltage equipment annually that are regulated for PCB content
    - Installing or upgrading drainage treatment and containment systems
    - Installing or upgrading oil storage

More detailed information can be found at: https://www.bpa.gov/about/finance/strategic-asset-management-plans
QUESTIONS?
This information was publicly available on June 9, 2022, and contains information not sourced directly from BPA financial statements.