The Office of Columbia River’s
2019 - 2021 Capital Budget Development

Columbia River Policy Advisory Group (CRPAG)
September 6, 2018

Presented by
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Office of Columbia River
Washington State Department of Ecology
Odessa Groundwater Replacement Project

East Low Canal Infrastructure
FUNDING: $10 million
EST. NWS: 87,700 acres (total)
OCR Directive: Odessa
ASR Exploration and Development

FUNDING: $4.3 million
EST. NWS: TBD
Icicle Creek Water Resource Management Strategy

FUNDING: $4 million
EST. NWS: 60+ cfs
OCR Directive: Instream, New Water Rights, Interruptible Rights
OCR project level mitigation

FUNDING: $3.5 million
EST. NWS: n/a
OCR DIR: n/a

- Odessa Groundwater Replacement Program
- Lake Roosevelt Incremental Storage & Releases Program
- Potholes Supplemental Feedroute
Odessa Groundwater Replacement Project

County Road Bridges
FUNDING: $3 million
EST. NWS: 87,700 acres (total)
OCR Directive: Odessa
Columbia Basin Project - Coordinated Conservation

FUNDING:  $2.4 million
EST. NWS:  ~34,800 ac-ft (total)
OCR Directive:  Odessa
Walla Walla Basin Integrated Plan

FUNDING: $1.5 million
EST. NWS: TBD
OCR DIR: Instream Flows
Potholes Supplemental Feedroute

FUNDING: $1.1 million
EST. NWS: conveyance
OCR Directive: Odessa
2019 - 2021 Projects: New Project Proposals

- 2021 Supply and Demand Forecast- $1.8 million
  Project Proponent – Ecology

- Walla Walla Leased Water - $1 million
  Project Proponent – Ecology

- Lake Roosevelt Incremental Storage Releases Program - $1 million
  Project Proponent – Ecology

- WRIA 30, Pump Storage Feasibility - $500,000
  Project Proponent – Unknown

- Colville Tribe - Water Supply Development - $300,000
  Project Proponent – Colville Tribe

- Switzler EIS completion - $100,000
  Project Proponent – Ecology, Klickitat County, Benton County
2019 - 2021 Projects: New Project Proposals

- Water acquisitions and leases - $1 million
  Project Proponent – Ecology

- New water supply development projects - $1 million
  Project Proponent – Ecology

- OCR Facilitation Support - $500,000
  Project Proponent – Ecology

- Pasco Basin Water Supply (WAC 508-14) - $400,000
  Project Proponent – Ecology & US Bureau of Reclamation

- OCR Staffing and WDFW Staffing Support - $2.6 million
  Project Proponent – Ecology & WDFW
Yakima Basin Integrated Plan

Building A Future for Water, Wildlife and Working Lands
Yakima River Basin Integrated Water Resource Management Plan

Reservoir Fish Passage
Provide fish passage at:
1. Cle Elum
2. Cle Elum Dam
3. Bumping
4. Tieton (Rimrock)
5. Kachechel
6. Kacheche

Enhanced Water Conservation
1. Implement an agricultural water conservation program designed to conserve up to 170,000 acre-feet of water in good water years.
2. Create a fund to promote water use efficiency basin-wide using voluntary, incentive-based programs. Focus on outdoor uses as top priority.

Habitat/Watershed Protection & Enhancement
1. Protect ~70,000 acres of land by acquiring high-elevation portions of the watershed and forest and shrub steppe habitat.
2. Evaluate potential wilderness area and wild and scenic river designations to protect streams and habitat.
3. Create a habitat enhancement program to address reach-level floodplain restoration priorities and restore access to key tributaries.

Market Reallocation
Employ a water market and/or a water bank to improve water supply in the Yakima River basin. Market reallocation would be conducted in two phases:

1. The near-term phase would continue existing water marketing and banking programs in the basin, but take additional steps to reduce barriers to water transfers.
2. The long-term program would focus on facilitating water transfers between irrigation districts. This would allow an irrigation district to follow land within the district and lease water rights for that land outside the district.

Structural & Operational Changes
1. Raise the Cle Elum Pool by three feet to add 14,600 ac-ft in storage capacity.
2. Modify Kachechel Reservoir to provide efficiency savings.
3. Construct a pipeline from Lake Kachechel to Lake Kachess to reduce flows and improve habitat conditions during high flow releases below Kachechel and to provide more water storage in Lake Kachess for downstream needs.
4. Decrease power generation at Roza Dam and Chandler power plant to support outmigration of juvenile fish.
5. Make efficiency improvements to the Wapato Canal.

Surface Water Storage
1. Build a 162,500 ac-ft off-channel surface storage facility at Wymer on Luneau Creek.
2. Access an additional 50,000 ac-ft of water by tapping into passive storage at Lake Kachess.
3. Construct a new dam at Bumping Reservoir to increase capacity to 150,000 ac-ft.
4. Begin appraisal of potential projects to transfer water from the Columbia River to the Yakima Basin.

Groundwater Storage
1. Construct pilot projects to evaluate recharging shallow aquifers via groundwater infiltration. Full scale implementation may follow.
2. Build an aquifer storage and recovery facility allowing Yakima City to withdraw water from the Naches River during high flow periods and store it underground for use during low flow periods.
## Yakima Basin Integrated Plan

<table>
<thead>
<tr>
<th>Yakima Basin Integrated Plan Elements</th>
<th>Appropriated Funds 2017 - 2019</th>
<th>Anticipated Funding Request 2019 - 2021</th>
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<td>Habitat/Watershed Protection &amp; Enhancement</td>
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<td>Fish Passage</td>
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<tr>
<td>Surface Storage</td>
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<td>Market Driven Water Reallocation</td>
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<td><strong>TOTAL</strong></td>
<td><strong>$31.1 million</strong></td>
<td><strong>$42.0 million</strong></td>
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• OCRs 19-21 capital budget proposal = $40 million.
• YBIPs 19-21 capital budget proposal = $42 million.
• YRBWEP 19-21 capital budget proposal = $5 million
• Agency budget proposal due to OFM in Sept. 2018.
2019 - 2021 Capital Budget

Questions ?