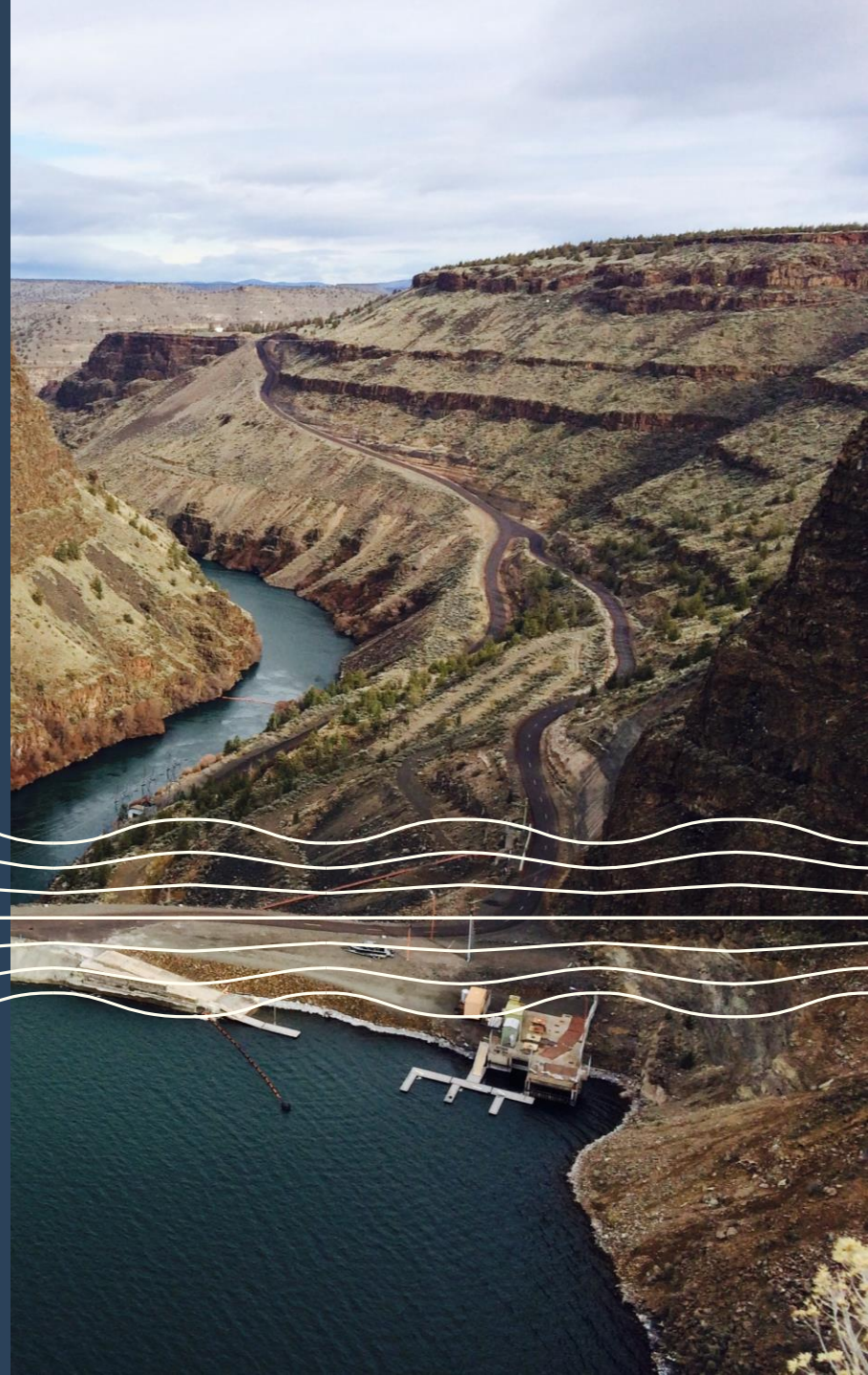
2021 Pelton Round Butte Update

JIM MANION
WARM SPRINGS POWER ENTERPRISES

MEGAN HILL
PORTLAND GENERAL ELECTRIC



Project Goals

Ron Suppah (Confederated Tribes of Warm Springs Tribal Council Chairman), Peggy Fowler (CEO of Portland General Electric) and Gail Norton (Secretary of the Department of the Interior) at the signing ceremony for the Settlement Agreement, a 22-party agreement reached in 2004. This collaborative agreement formed the basis for the FERC License issued in 2005.

- Generate clean renewable power for Oregon
- Provide recreational opportunities
- Return sustainable harvestable salmon and steelhead to the Upper Deschutes basin
- Restore the Deschutes watershed to a more natural state

CONFEDERATED TRIBES OF WARM SPRINGS 1855

PGE

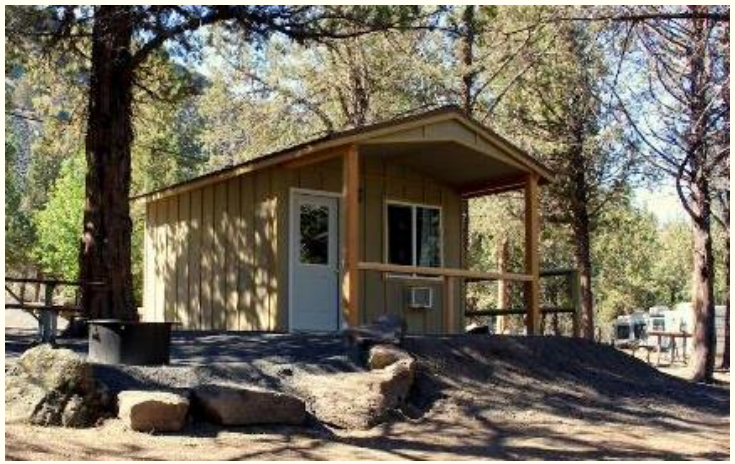
Generate Emissions Free Electricity

- **Capacity:** ~500 MW
- **Serves:** ~150,000 homes
- **Dam Facts:**
  - Round Butte
    - Earthen Fill
    - 1,382 ft long, 440 ft high
  - Pelton
    - Concrete Arch
    - 636 ft long, 204 ft high
  - Reregulating
    - Run-of-river operations
    - 1,067 ft long, 88 ft high
- **Employees:** 46
- **Certified by the Low Impact Hydro Institute**

CONFEDERATED TRIBES OF WARM SPRINGS 1855

PGE

Recreation Opportunities



4 Campgrounds

2 Overlooks

5 Day Use Areas

2 Trails

CONFEDERATED TRIBES OF WARM SPRINGS 1855

PGE

Returning adult Chinook, steelhead and sockeye

- Adults have been documented spawning in all upstream tributaries.
- 147 Chinook are currently spawning in their historic habitat.

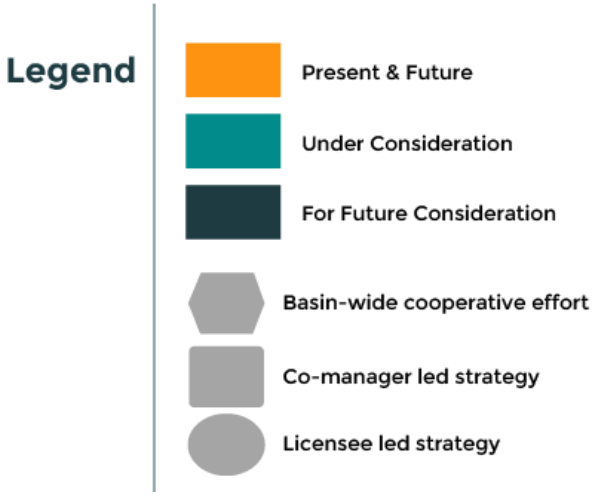
CONFEDERATED TRIBES OF WARM SPRINGS 1855

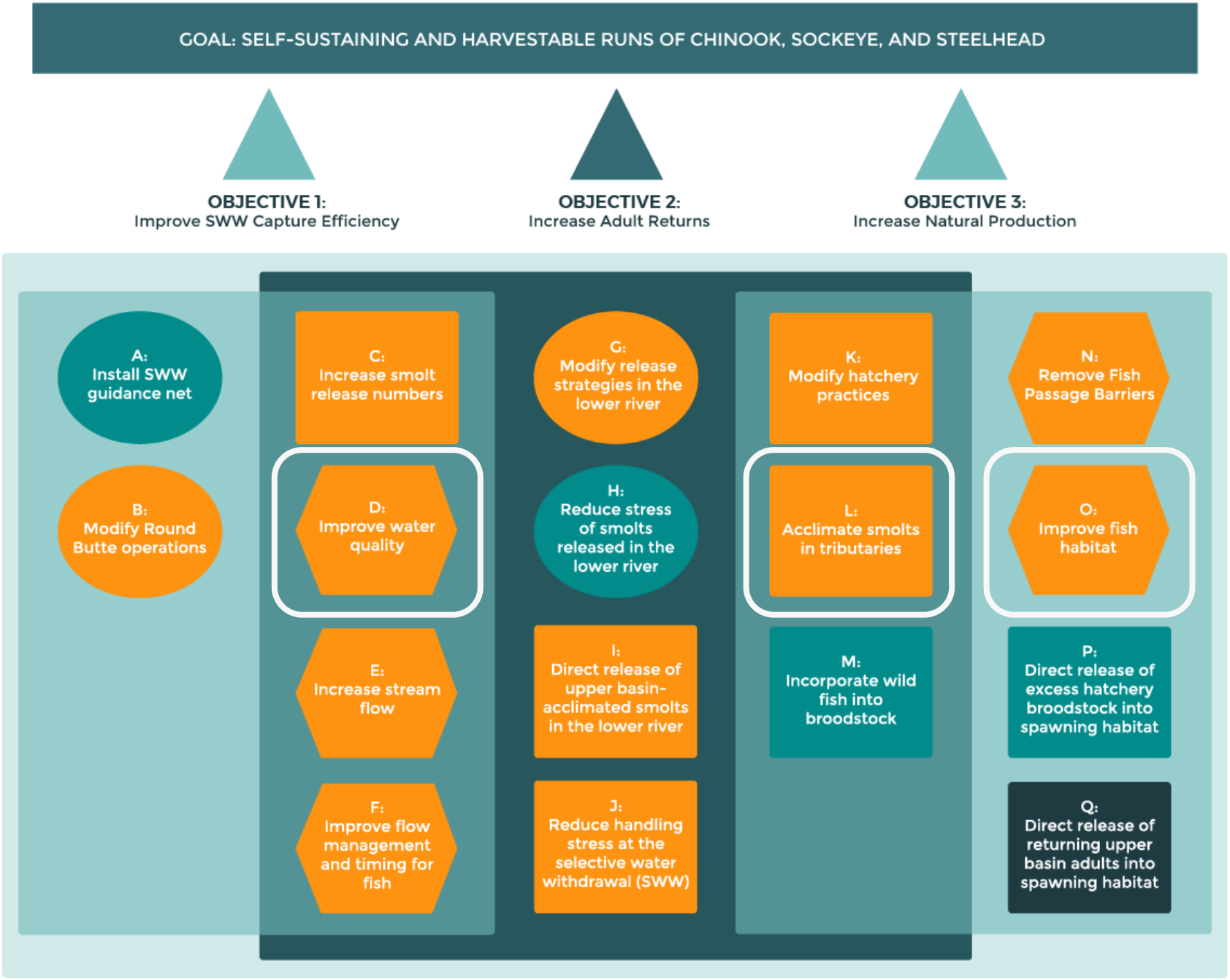
PGE

www.prbfishcommittee.com

Interactive. Click for...

- Description
- Anticipated Outcome
- Evaluation Method
- Timeline
- Lead organization or agency
- Fish Committee role
- Relevant studies, actions, decisions





Collaboration and Adaptation

- **2017:** Pilot study shows that acclimated fish as much as 2.5 times more likely to enter the SWW
- **2018:** 16% of fish acclimated
- **2019:** 30% acclimated (record snow delays)
- **2020:** 87% of fish acclimated
- **2021:** 100% of fish acclimated
- **2022:** First acclimated adult returns from major acclimation program

Following the Science- Water Quality Study

2015-2017
years data were collected

12
sites sampled in the Lower Deschutes River

11
tributaries sampled

6
sites sampled in the reservoirs

23
parameters measured

226
days spent sampling

645
rocks scraped for periphyton samples

1997
year historical water quality study was conducted

4
models developed and tested

11
scenarios modeled

9,500+
water quality data points measured in a lab

13
PGE staff involved in data collection

Improving Fish Habitat- Pelton Fund

17
Fish passage barriers removed and/or modified

14,076
Acres protected

69
Miles of riparian area livestock fences built or restored

9
Miles of rivers and streams protected

2006-2017
- $ 13,000,000
- 16 organization
- 48 projects

2020
- $4,500,000
- 7 organizations
- 13 projects

2021 (in progress)
- $1,300,000
- Focus on Crooked River where need is greatest

CONFEDERATED TRIBES OF WARM SPRINGS 1855

PGE

For more information:

EMAIL US:
megan.hill@pgn.com
Jim.manion@wspower.com

JOIN US:
facebook.com/groups/envirocommunitypge

LEARN MORE:
portlandgeneral.com/protectingfish

SUBSCRIBE TO OUR NEWSLETTER

PGE

CONFEDERATED TRIBES OF WARM SPRINGS 1855