

ITEM 1.1

# Pacific Gas and Electric Company

## Plumas County Board of Supervisors Update

### Overview of PG&E's Feather River Hydro Projects

February 13, 2024



## **Preparedness Ti**

**Always be prepared**  
natural disaster or a

**Build a disaster sup**  
your family or your h

**Be sure to include f**  
medication, flashlight  
kits, a list of emerge  
and more.

**Visit SafetyActionCe**  
to help prepare for a

# **Safety**



## Welcome and Introductions

# Welcome!

**Thank you** for taking time out of your Agenda for PG&E to provide an overview of our Plumas County Hydro Facilities.

**Brenda Narayan**

Government and Public Affairs

**Janet Walther**

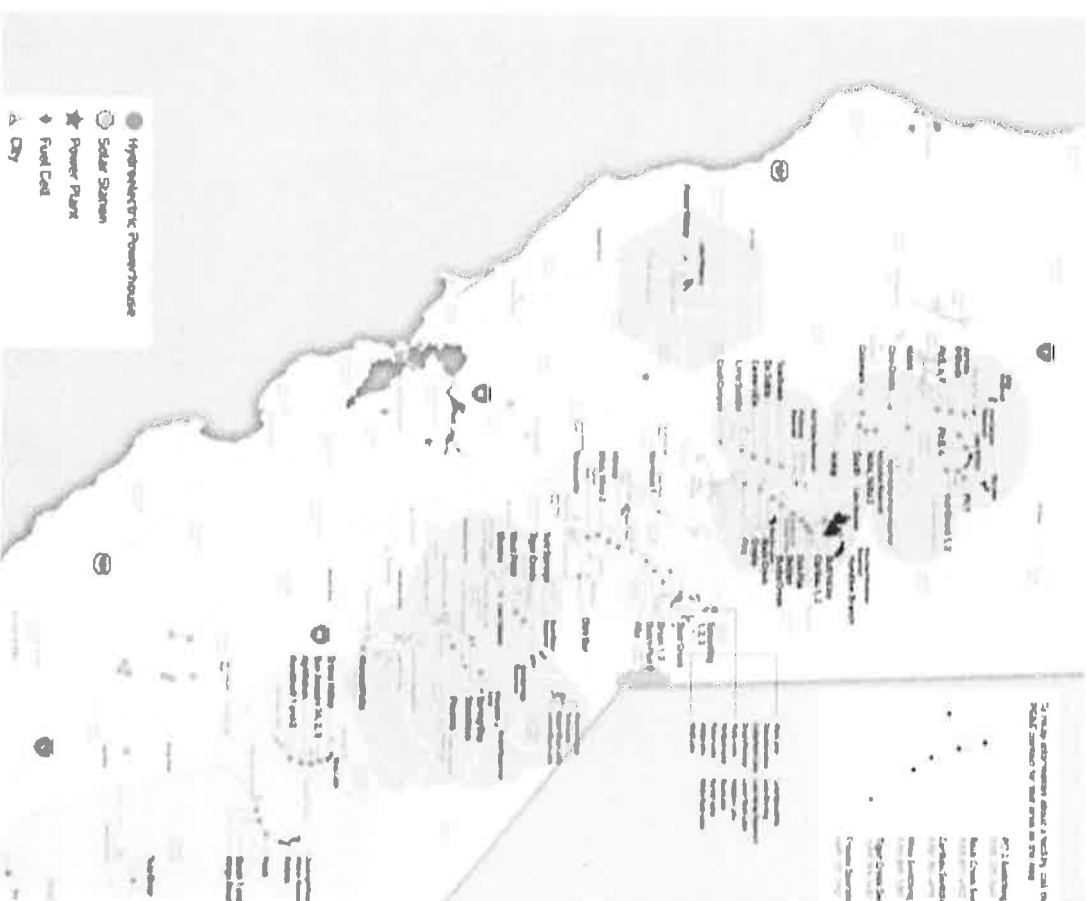
Senior Manager, Hydro Licensing

**Rob Riedlinger**

Senior Licensing, Project Manager

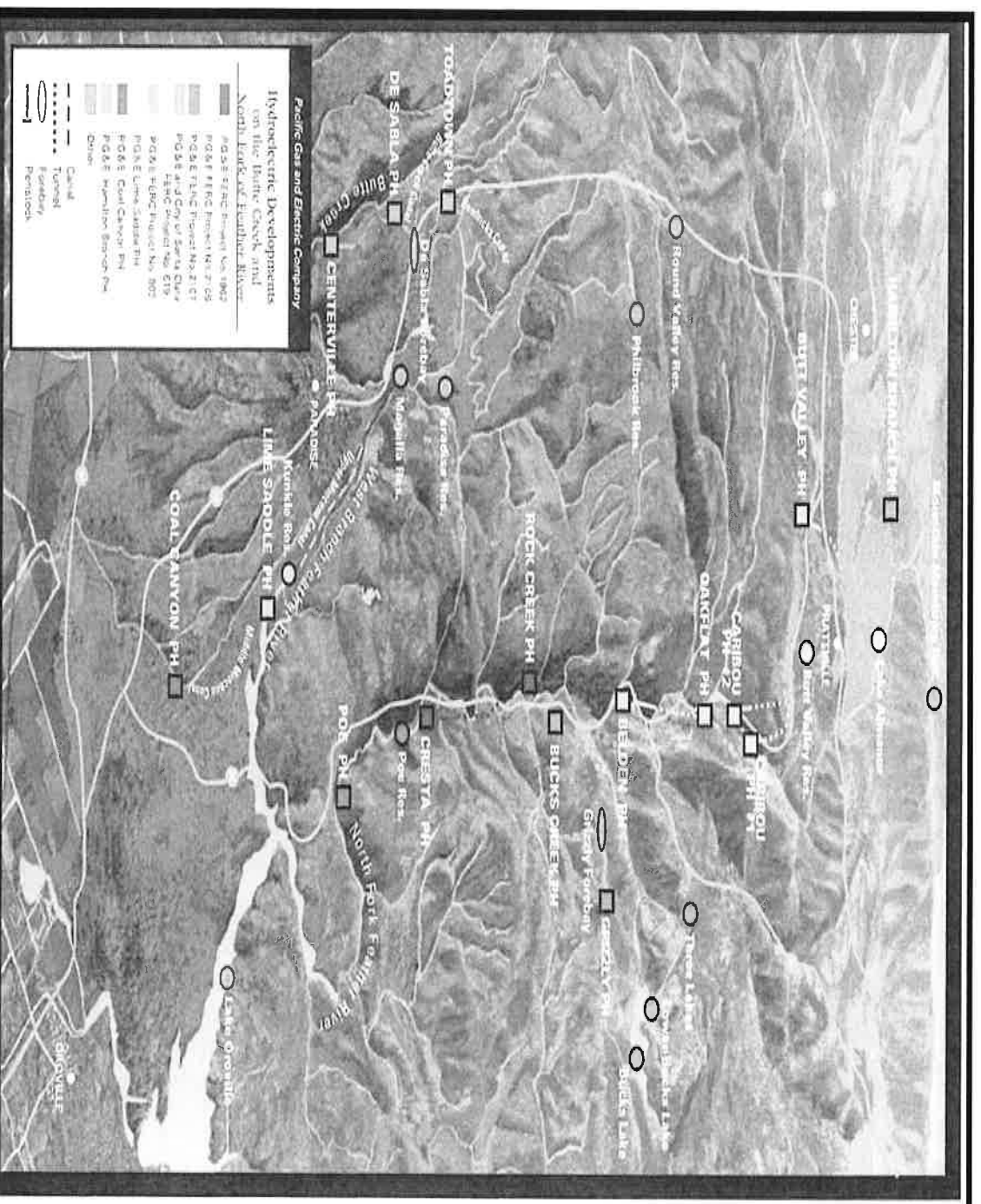
# PG&E Hydro Projects

- Second largest privately owned hydro systems in the US
- 5 major watersheds in the Cascade and Sierra-Nevada mountains
- 12 river basins stretching 450 miles from Burney to Porterville
- 62 conventional powerhouses and 1 pumped storage plant with a generating capacity of 3,803 MW (in service)
- Average generation is appx. 10,000 GWh/year
- 22 FERC licenses
- The system includes:
  - Nearly 100 reservoirs
  - Nearly 170 dams
  - Over 400 miles of water conveyance facilities
  - Approximately 140,000 acres of land
- Average age of facilities is 79 years (with oldest over 121 years)
- Facilities range in size from 0.4 MW (San Joaquin 1A) to over 1,200 MW (Helms PSP)



Confidential

# PG&E Hydro Projects



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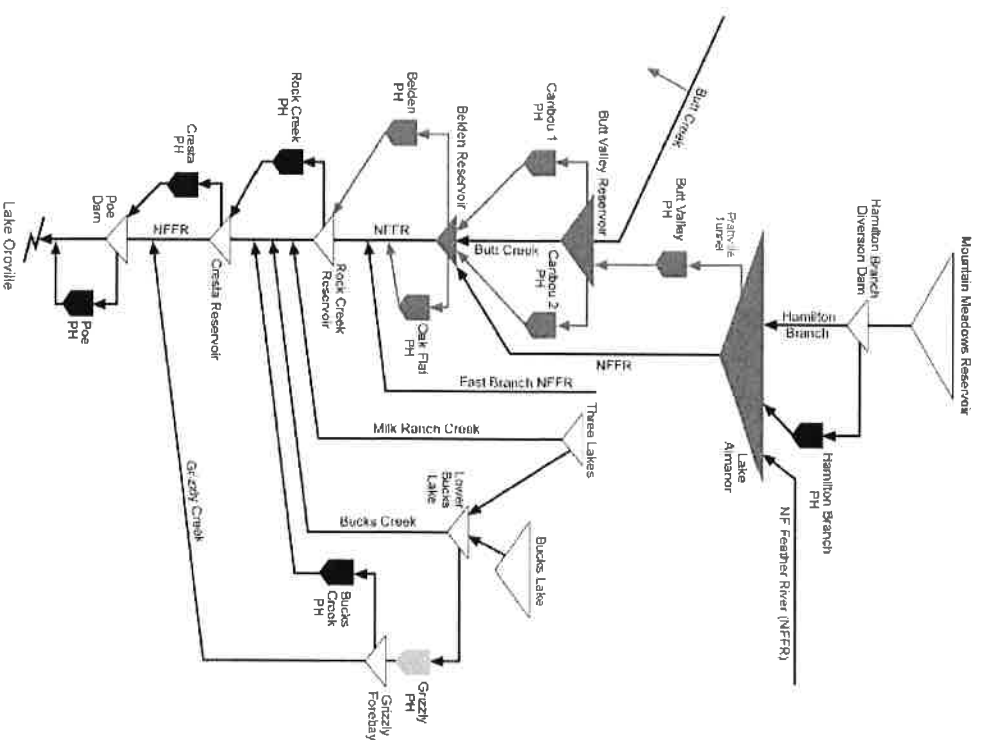
# Upper North Fork Feather River Project – Lake Almanor 2



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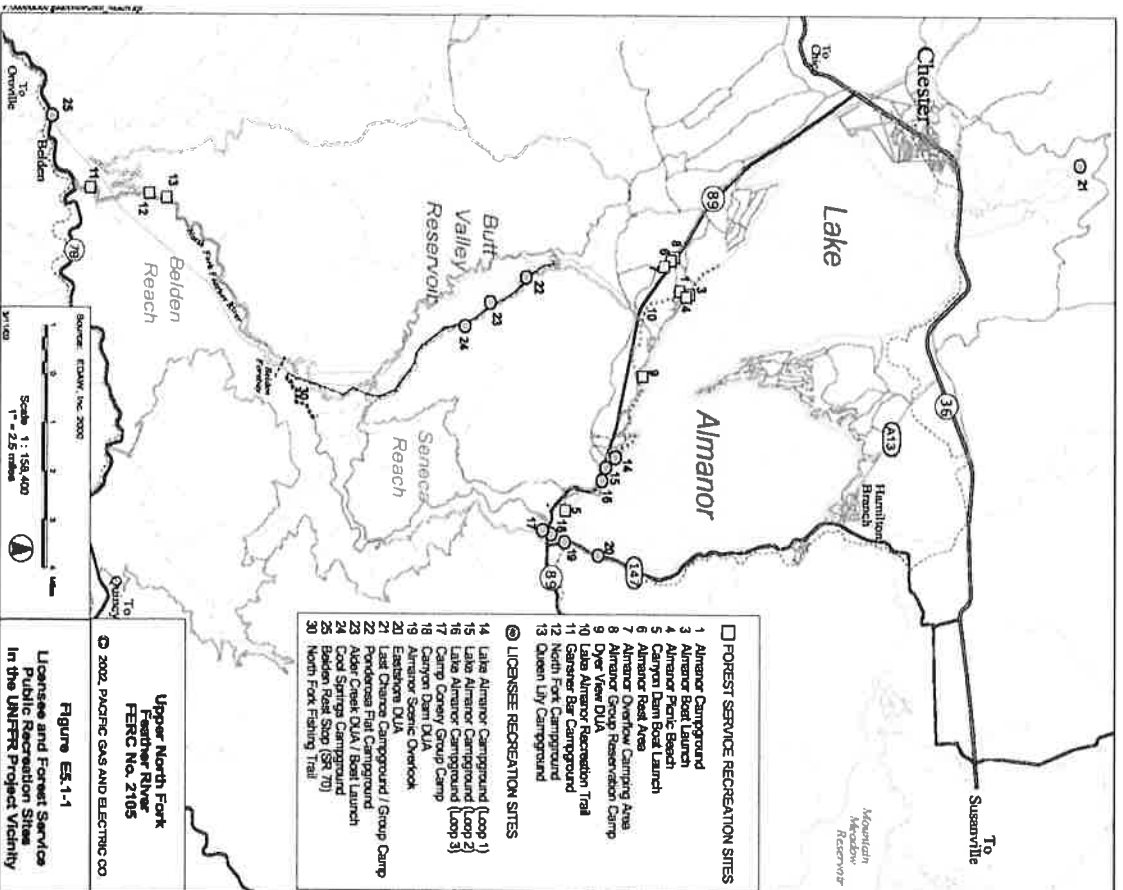
# Upper North Fork Feather River Flow Schematic – Project



- 3 Dams & Reservoirs, 5 Powerhouses (total capacity 362.3 MW)
  - Lake Almanor, Canyon Dam, Butt Valley PH
  - Butt Valley Reservoir Dam, Caribou No. 1 PH and Caribou No. 2 PH
  - Belden Forebay & Dam, Oak Flat PH and Belden PH
- 3 Affected Stream Reaches
  - NFFR: Belden and Seneca reaches
  - Butt Creek

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# Upper North Fork Feather River Project Recreation



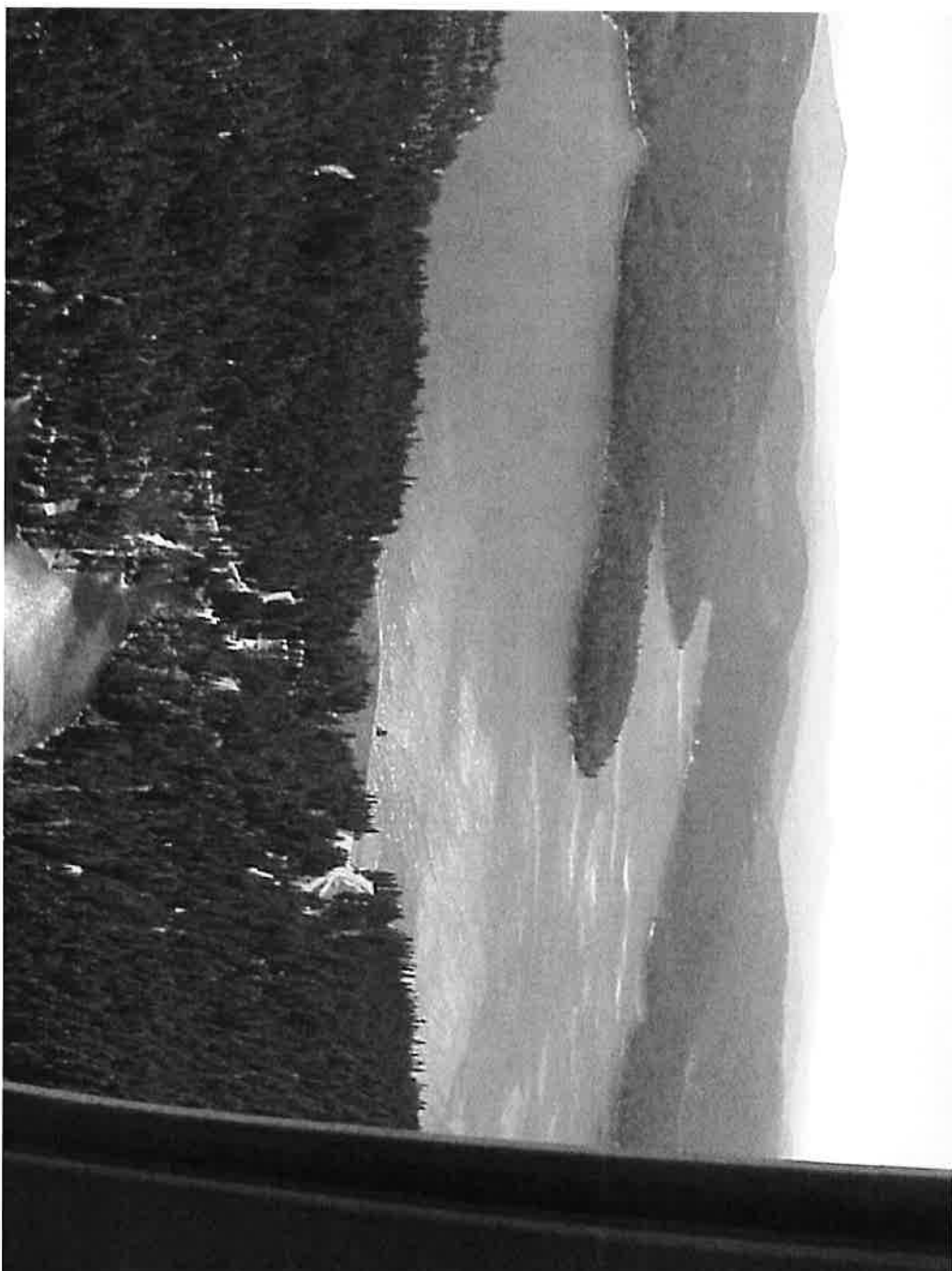
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## Relicensing Timeline

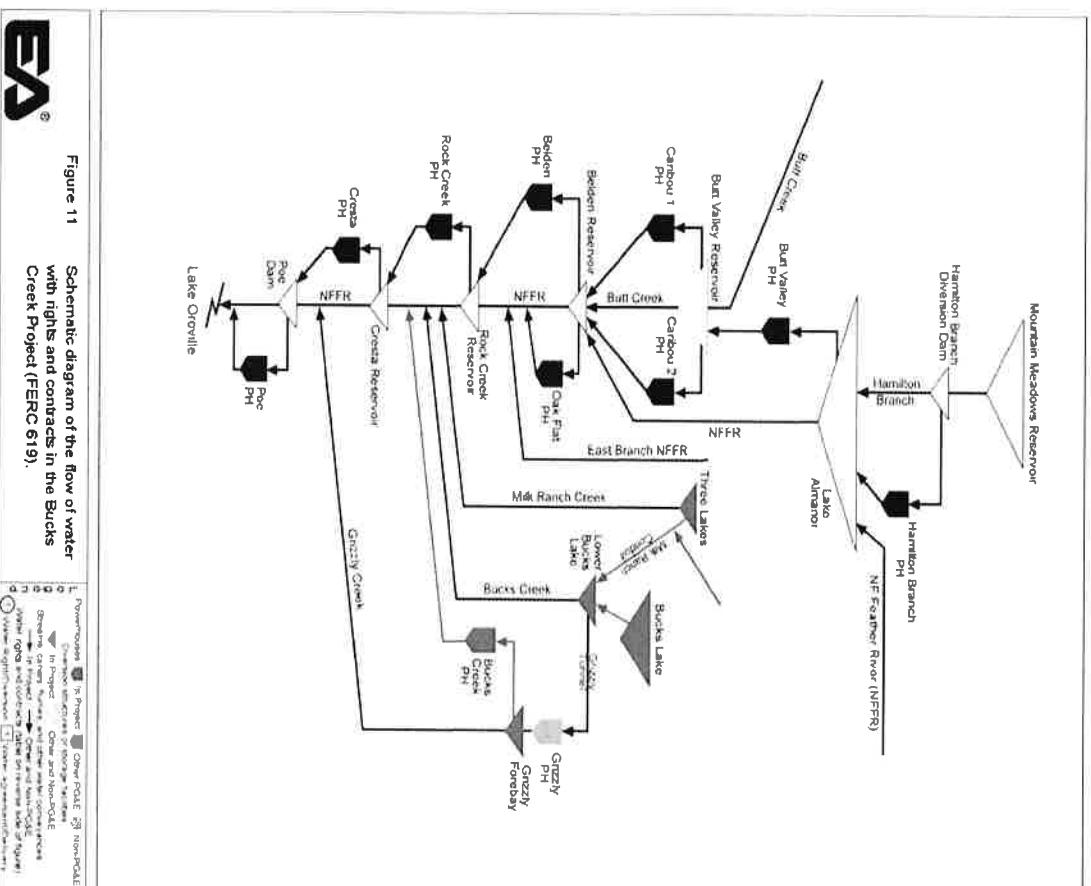
|                  |  |
|------------------|--|
| <b>10/23/02</b>  | PG&E filed Final License Application                                     |
| <b>04/22/04</b>  | Settlement Agreement signed (becomes effective upon issuance of License) |
| <b>09/13/04</b>  | FERC issued Draft Environmental Document (DEIS)                          |
| <b>04/11/04</b>  | Forest Service filed Final 4(e) Conditions                               |
| <b>11/10/05</b>  | FERC issued Final EIS (NEPA)   |
| <b>2006-2014</b> | SWRCB CEQA Process; Draft EIR 2014                                       |
| <b>04/24/20</b>  | PG&E requested waiver of 401 WQC with FERC                               |
| <b>05/15/20</b>  | SWRCB issued Draft 401 Certification/Rev. EIR                            |
| <b>07/15/20</b>  | SWRCB issued Final 401 Certification                                     |
| <b>07/16/20</b>  | FERC issued Order waiving 401 WQC  |
| <b>TBD</b>       | FERC issues new Project License  |

## Bucks Creek Project FERC 619



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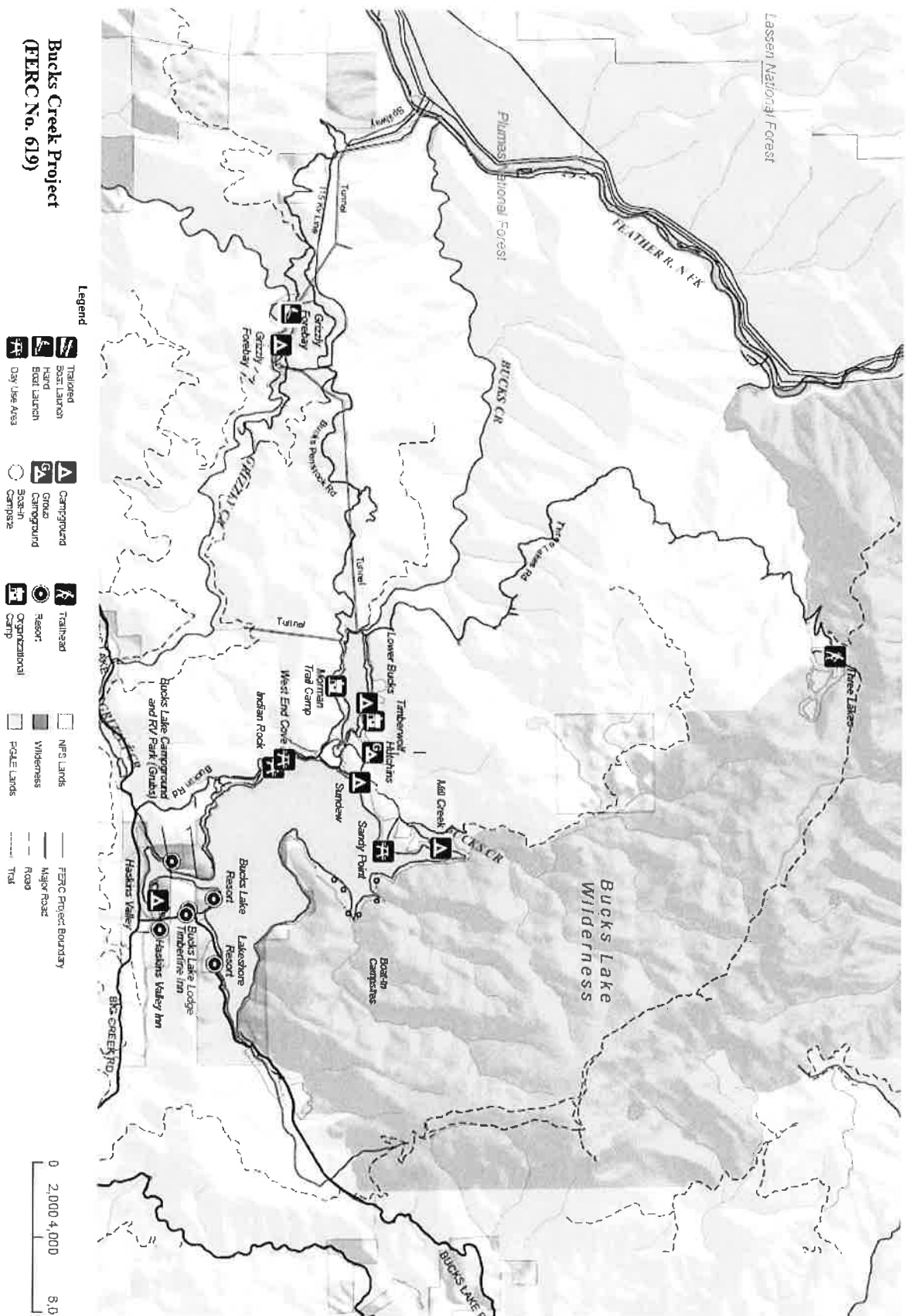
# Bucks Creek Flow Schematic



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- Project has two powerhouses, Bucks Creek and Grizzly 85 MW capacity
  - Bucks Creek PH - owned by PG&E
  - Grizzly PH - owned by City of Santa Clara
- Project has four reservoirs
  - Bucks Lake
  - Lower Bucks Lake
  - Three Lakes
  - Grizzly Forebay

# Project Recreation



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## License Timeline

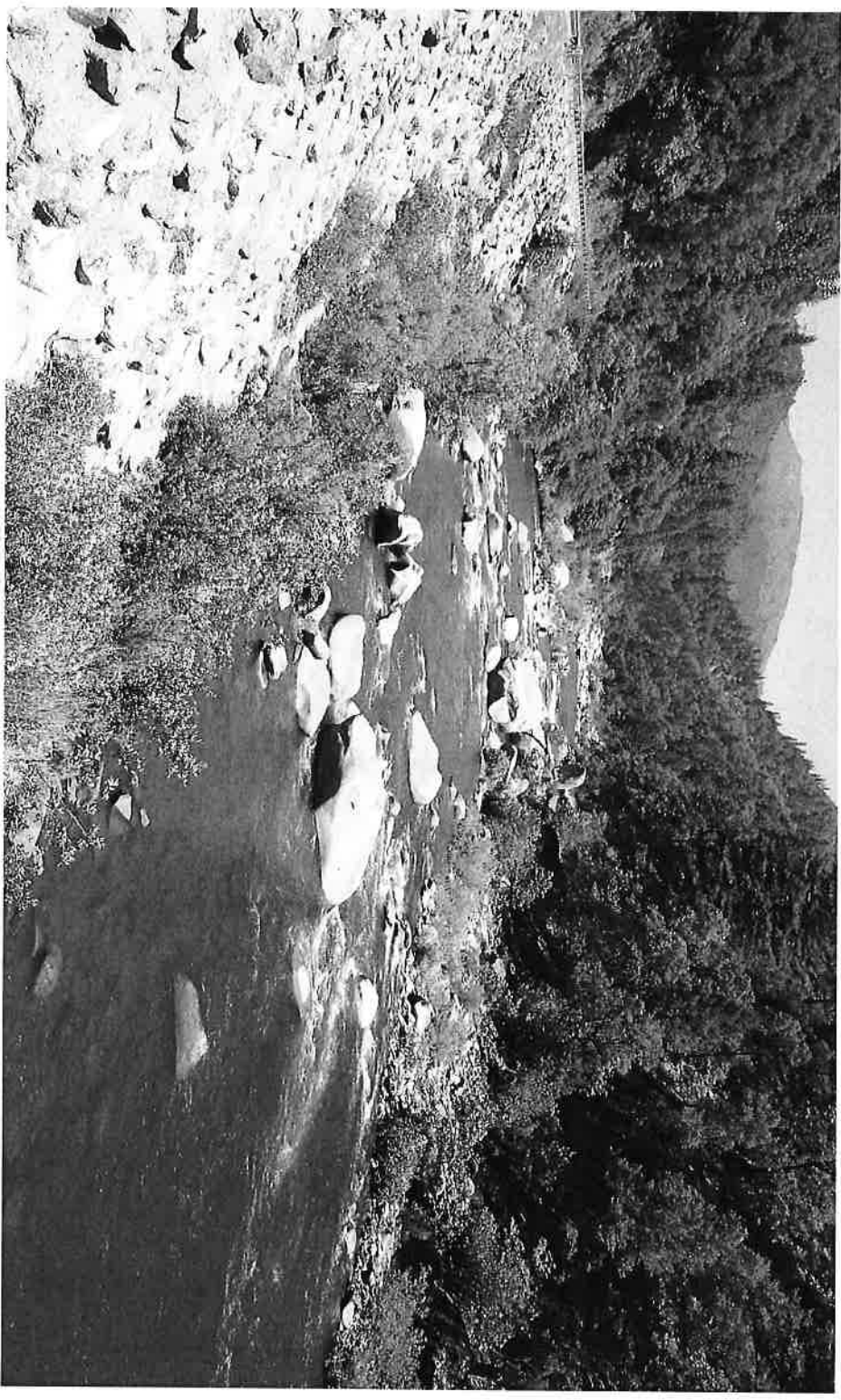
**9/22/2022**

License Issued

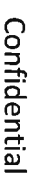
**6/1/2062**

Project license expires

# Rock Creek-Cresta Project FERC 1962



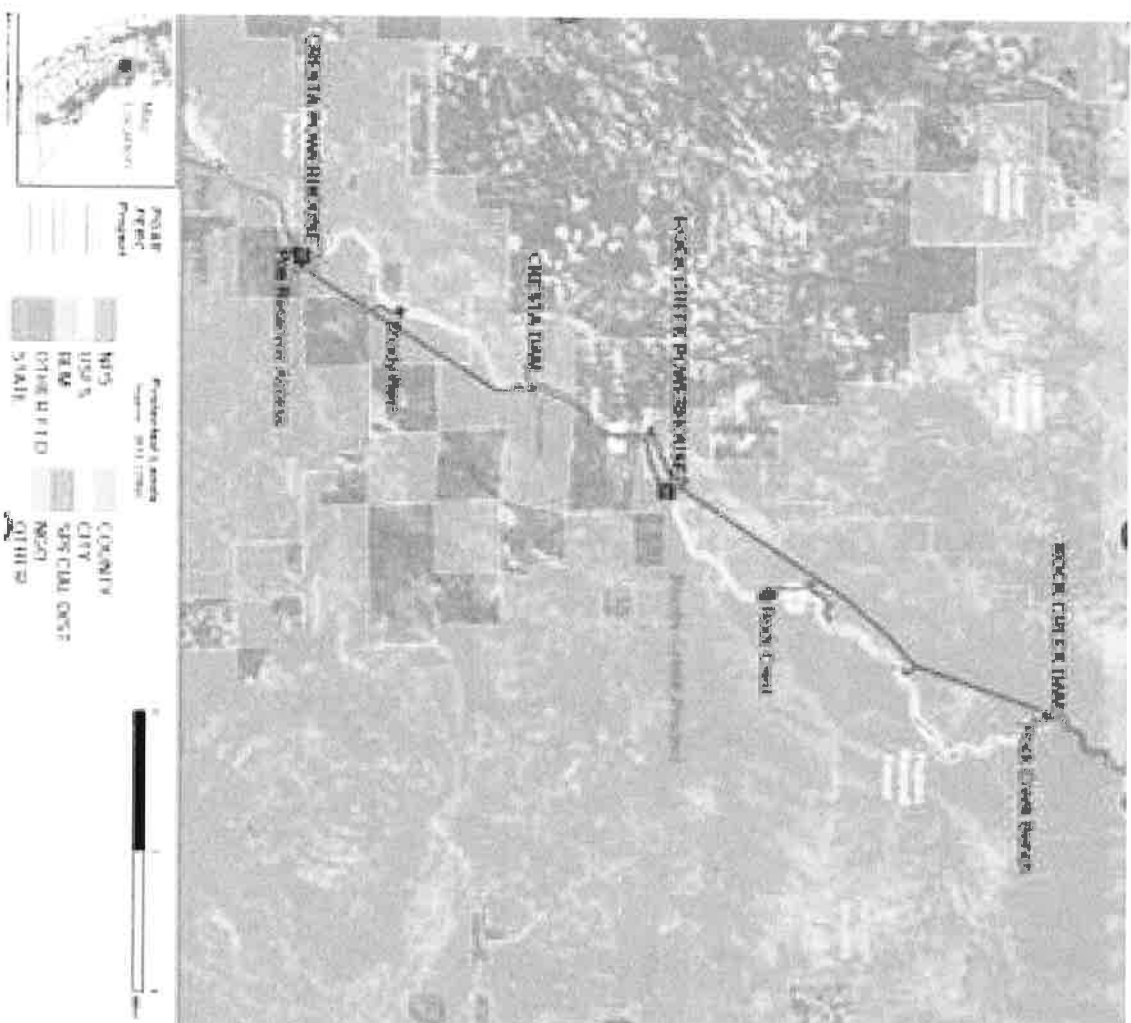
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- Two Powerhouses and Reservoirs 195 MW capacity
  - Rock Creek Powerhouse
  - Cresta Powerhouse
  - Rock Creek Reservoir
  - Cresta Reservoir



# Rock Creek-Cresta Project Map



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## License Timeline

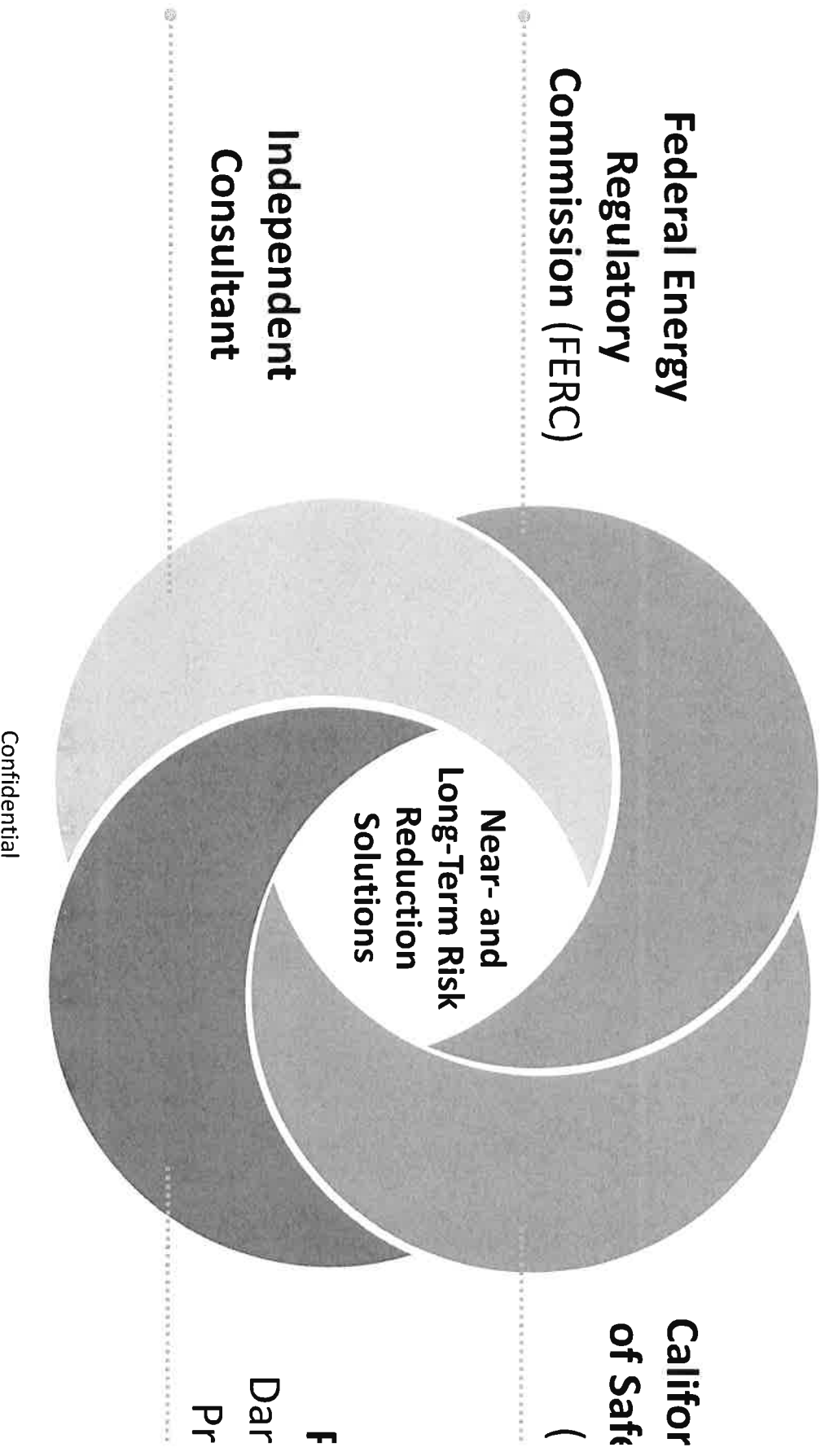
|                   |  |
|-------------------|--|
| <b>10/24/2001</b> | FERC Issued new project license with a term of 33 years and 3 5-year test-flow periods |
| <b>2006</b>       | Completion of 1 <sup>st</sup> test-flow period   |
| <b>2014</b>       | Completion of 2 <sup>nd</sup> test-flow period   |
| <b>2019</b>       | Completion of 3 <sup>rd</sup> test-flow period   |
| <b>10/1/2034</b>  | Project license expires  |

## Overview of Hydro Management

- Dam Safety
- Operations and Maintenance
- Asset Management
- License Management
- Land Management
- Environmental Management
- Water Management

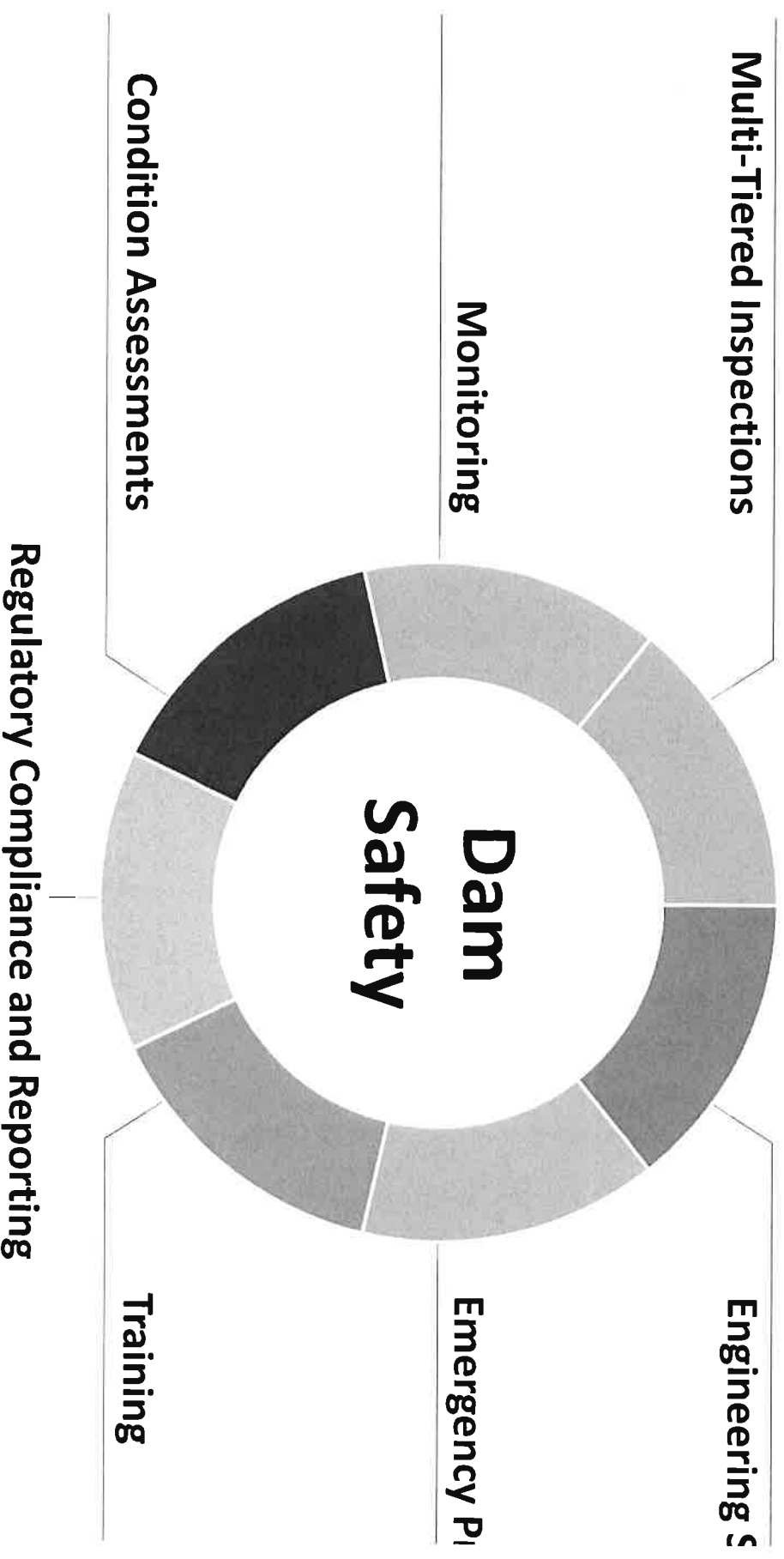
## How We Work with Our Regulators

**PG&E works alongside our regulators and independent consultants to identify and mitigate potential risks.**



## PG&E's Dam Safety Program

**PG&E maintains the safe operation of our dams through robust effort**



# Hydro Major Project Work – Plumas County

## UNNFR

- Lake Almanor LLO Gate #1 Stem repair Project. Replace the Gate 1 stem to restore the function the Lake Almanor LLO. **Construction starting 2024-2025**
- Lake Almanor Spillway Joints/Concrete Slab repair Project. Repair slab transverse and longitudinal well as repair spalled areas within concrete slab between joints. **Construction starting 2024-2025**

## Bucks

- Grizzly Powerhouse Interconnect Project. Reconnects the Grizzly Powerhouse to the grid. **Construction starting 2024-2025**
- Haskins Campground Boat Ramp. Replace boat launch and improve slope protection. **Construction starting 2024-2025**
- Lower Bucks Spillway Rehabilitation. Replace concrete spillway and improve discharge capacity. **Construction starting 2024-2025**
- Bucks Penstock Stabilization and Drainage. Provides long term stabilization to penstock foundations. **Construction starting 2024-2025**
- Grizzly Tap Rebuild. Replaces the 115kV Grizzly Tap transmission. Construction underway

## Rock Creek-Cresta

- Cofferdams Project. Install brackets onto both dams to allow for the use of modular cofferdams maintenance. **Construction starting 2024-2025**

# Thank you

For taking time to meet with us today.