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Pacific Gas and Electric Company

Plumas County Board of Supervisors Update

Overview of PG&E's Feather River Hydro Projects

February 13, 2024



Preparedness Tip

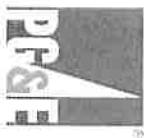
Always be prepared
natural disaster or a

Safety

Build a disaster supply
your family or your

Be sure to include first
aid kit, medications, flashlight
kits, a list of emergency
numbers, and more.

Visit [SafetyActionC](#)
to help prepare for a



Welcome and Introductions

Welcome!

Brenda Narayan

Government and Public Affairs

Janet Walthier

Senior Manager, Hydro Licensing

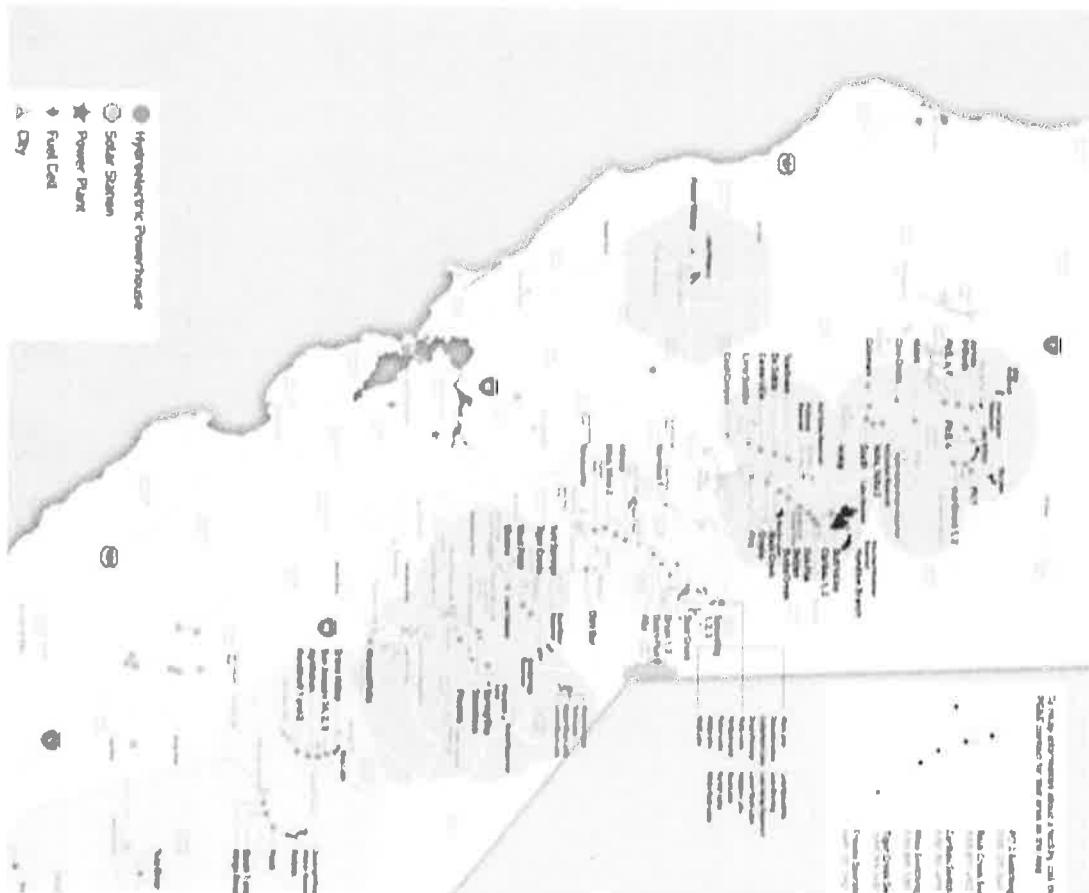
Rob Riedlinger

Senior Licensing, Project Manager

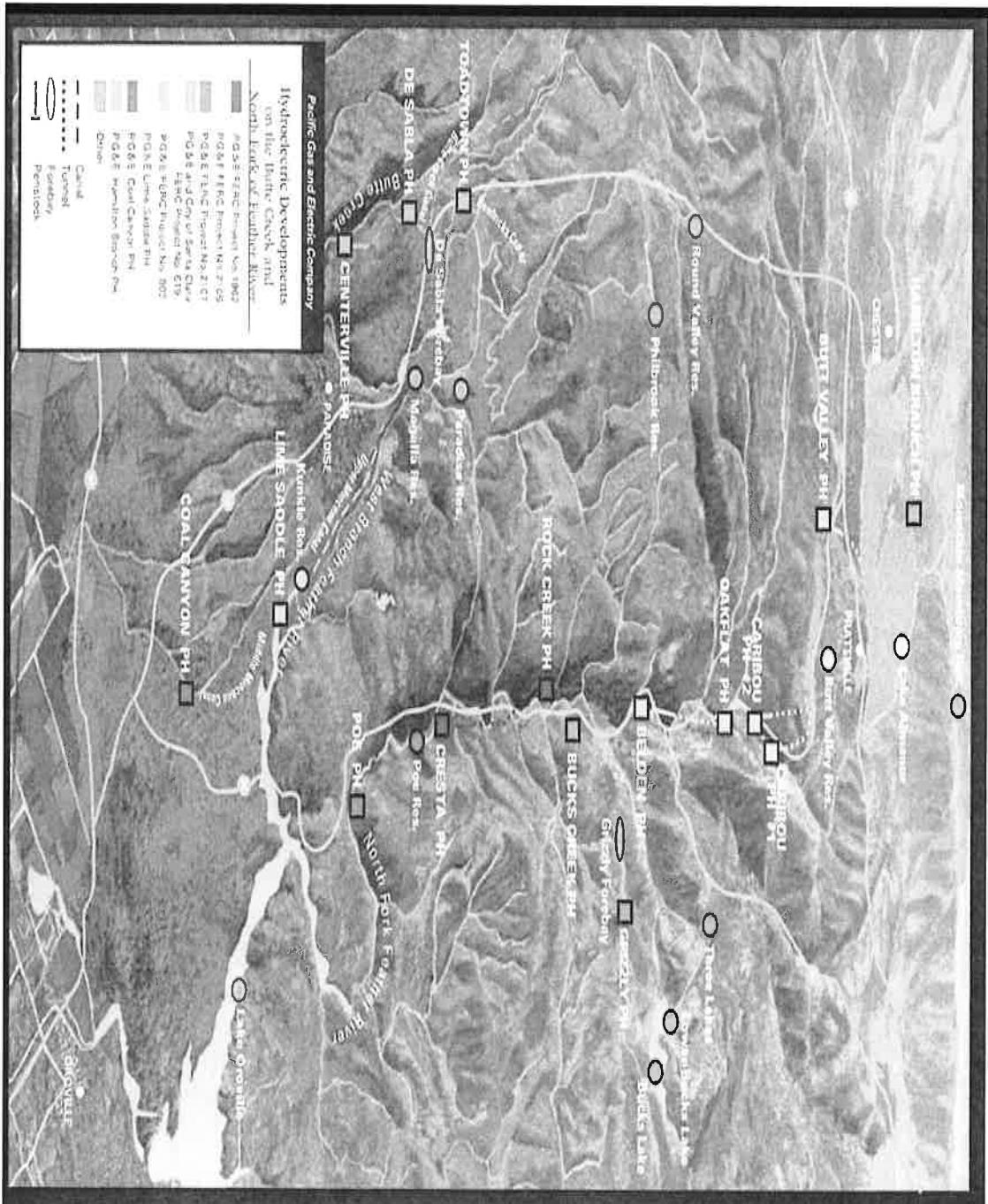
Thank you for taking time
out of your Agenda for PG&E to
provide an overview of our
Plumas County Hydro Facilities.

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- 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)



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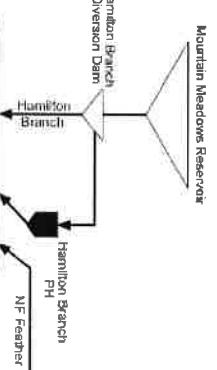
Upper North Fork Feather River Project – Lake Almanor 21



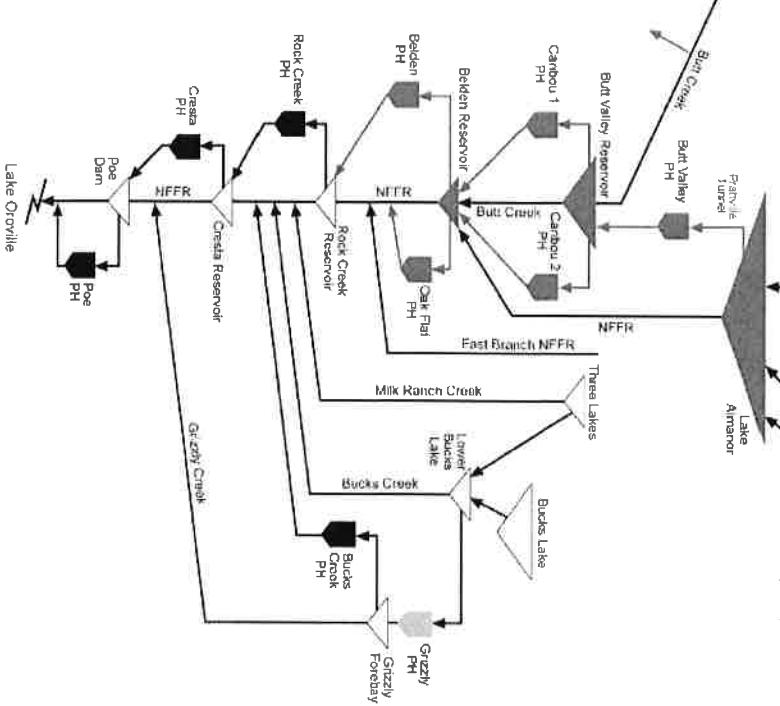
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Upper North Fork Feather River Flow Schematic – Project

- 3 Dams & Reservoirs, 5 Powerhouses (total capacity 362.3 MW)

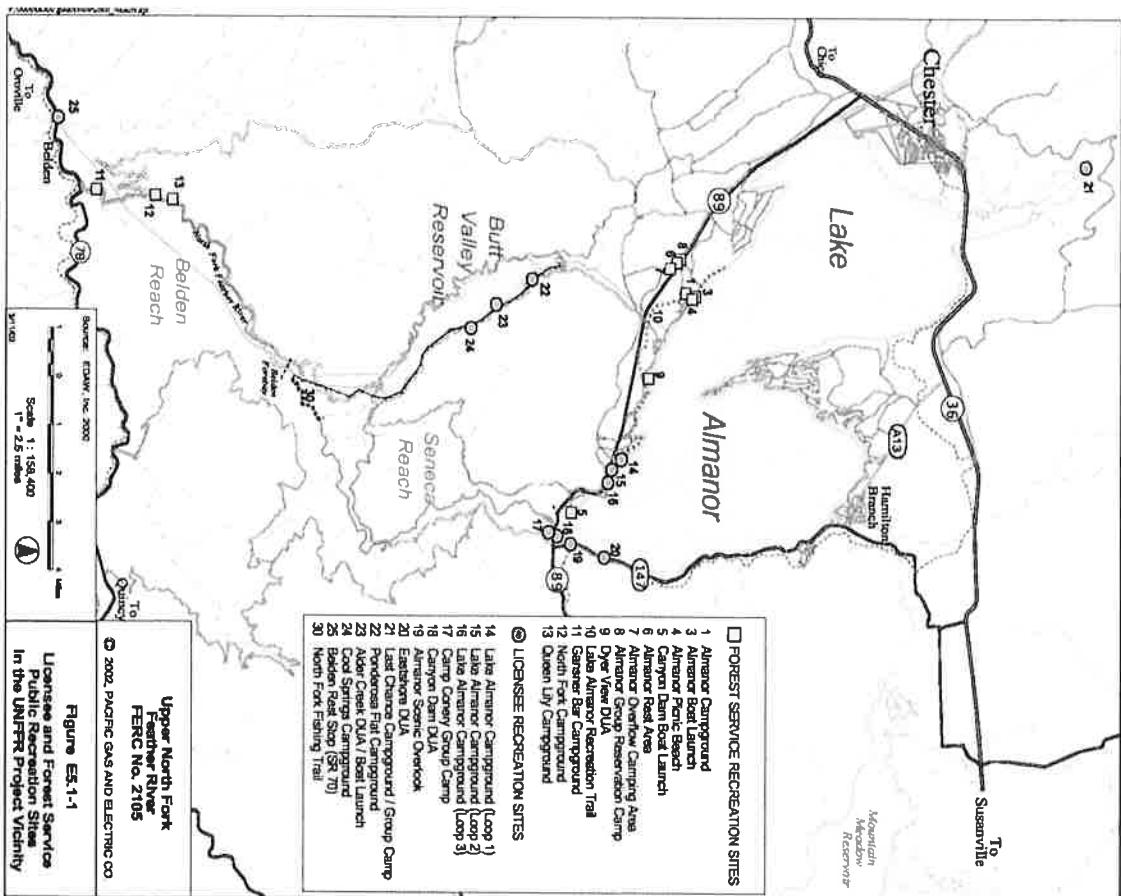


- Lake Almanor, Canyon Dam, Butt Valley PH
- Butt Valley Reservoir Dam, Caribou No. 1 PH and Caribou No. 2 PH
- Belden Forebay & Dam, Oak Flat PH and Belden PH
- 3 Affected Stream Reaches
 - NFFR: Belden and Seneca reaches
 - Butt Creek



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Upper North Fork Feather River Project Recreation

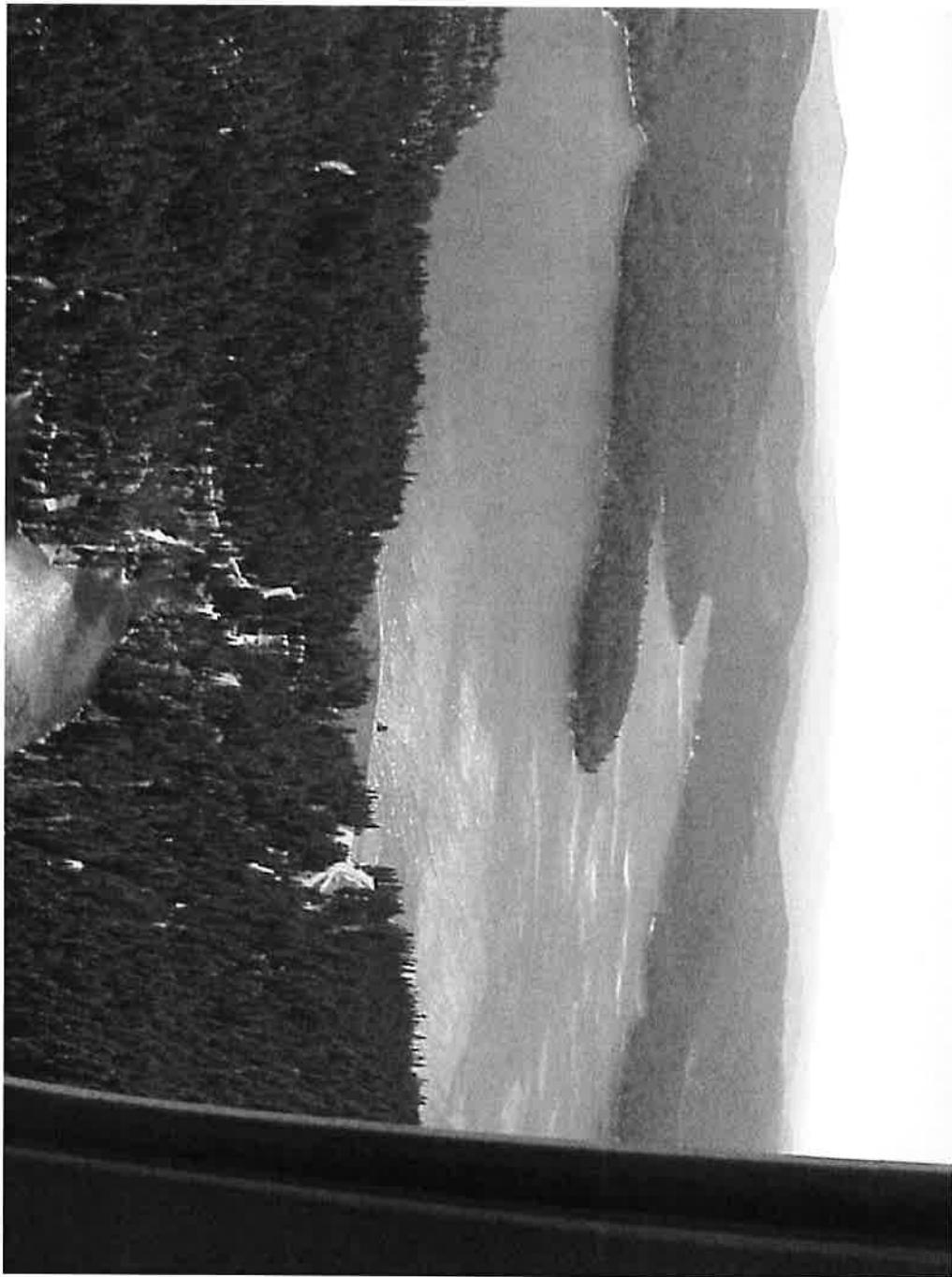


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Relicensing Timeline

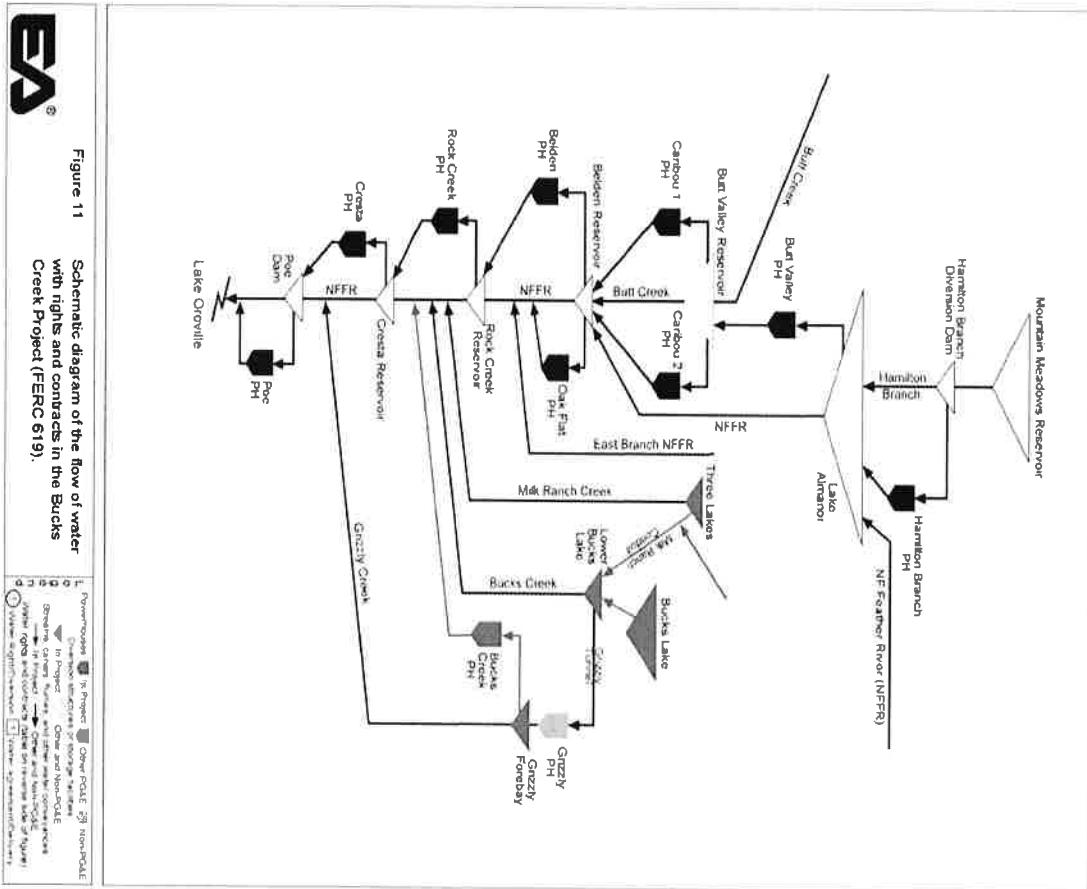
10/23/02	PG&E filed Final License Application
04/22/04	Settlement Agreement signed (becomes effective upon issuance of License)
09/13/04	FERC issued Draft Environmental Document (DEIS)
04/11/04	Forest Service filed Final 4(e) Conditions
11/10/05	FERC issued Final EIS (NEPA)
2006-2014	SWRCB CEQA Process;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

Bucks Creek Project FERC 619



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Bucks Creek Flow Schematic



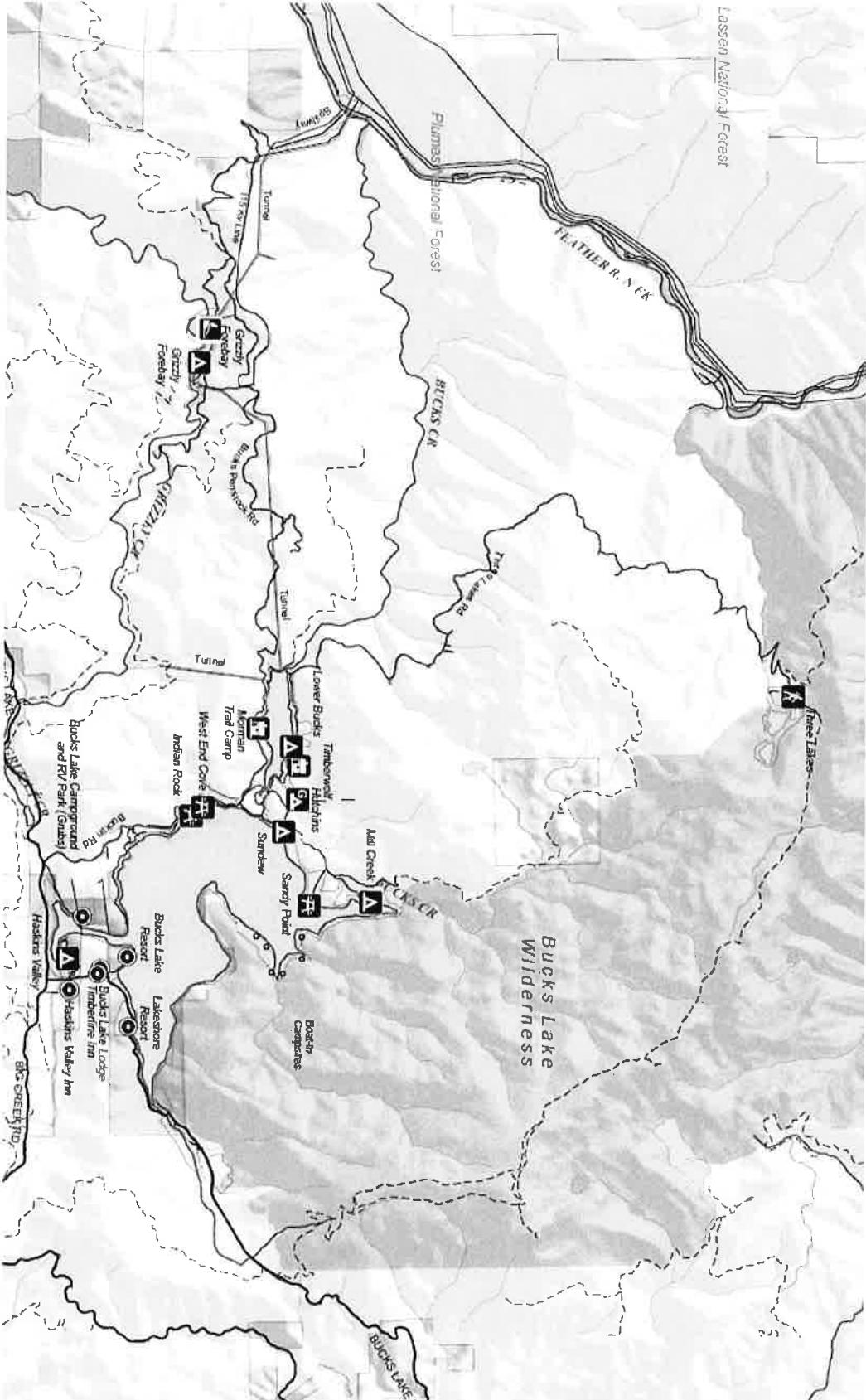
- Project has two powerhouses, Bucks Creek and Grizzly 85 MW capacity

- 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

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Project Recreation



Bucks Creek Project
(FERC No. 619)

Legend	
	Trailhead
	Horseshoe Bend
	Launch
	Day Use Area
	Campground
	Group Campground
	Private Campground
	Organizational Campground
	Campsite
	Camp
	Trailhead
	Resort
	Organization
	NFS Lands
	Wilderness
	PG&E Lands
	Major Road
	Road
	Trail

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License Timeline

9/22/2022

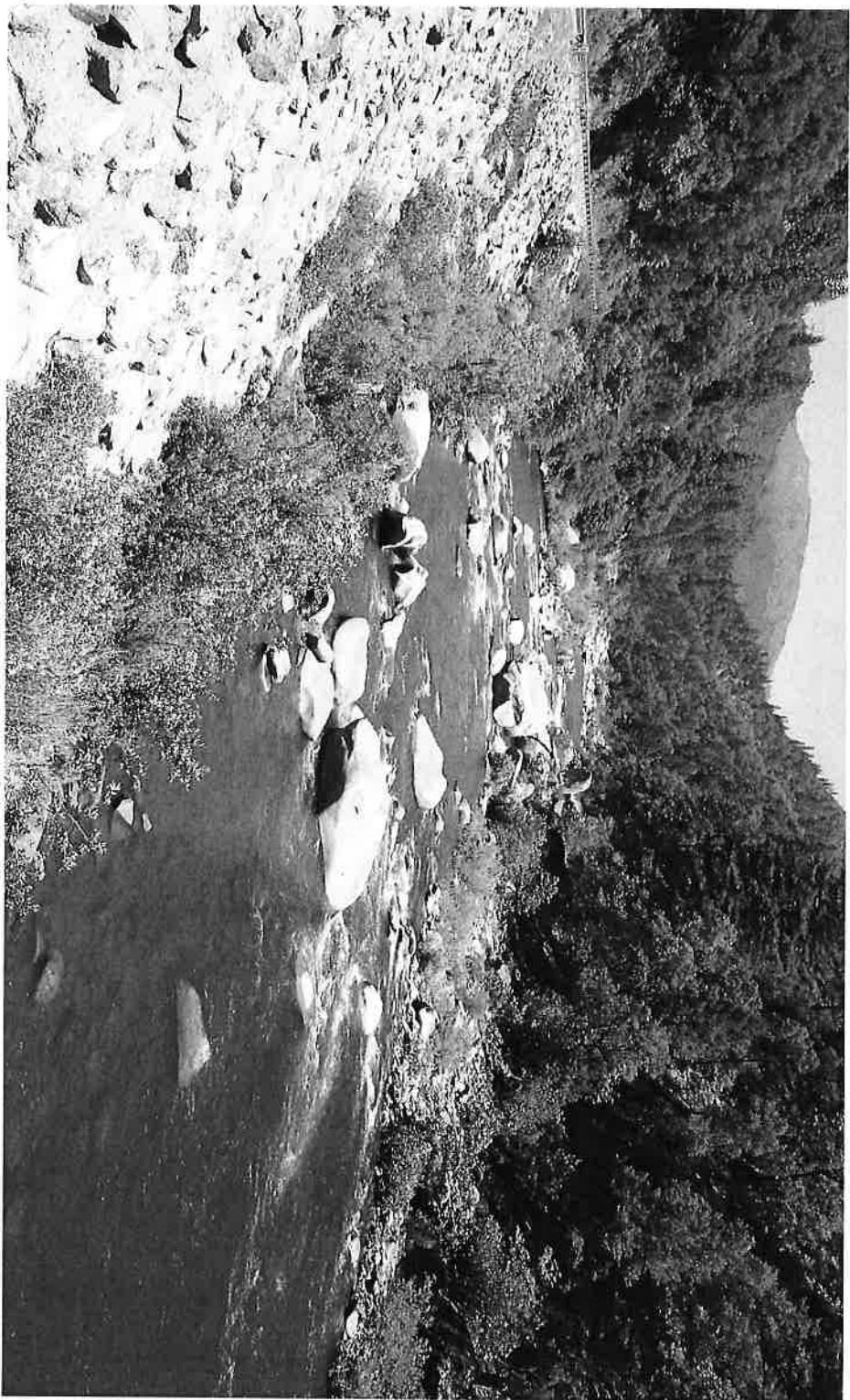
License Issued

6/1/2062

Project license expires

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Rock Creek-Cresta Project FERC 1962



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Rock Creek-Cresta Project Schematic

- Two Powerhouses and Reservoirs 195
MW capacity

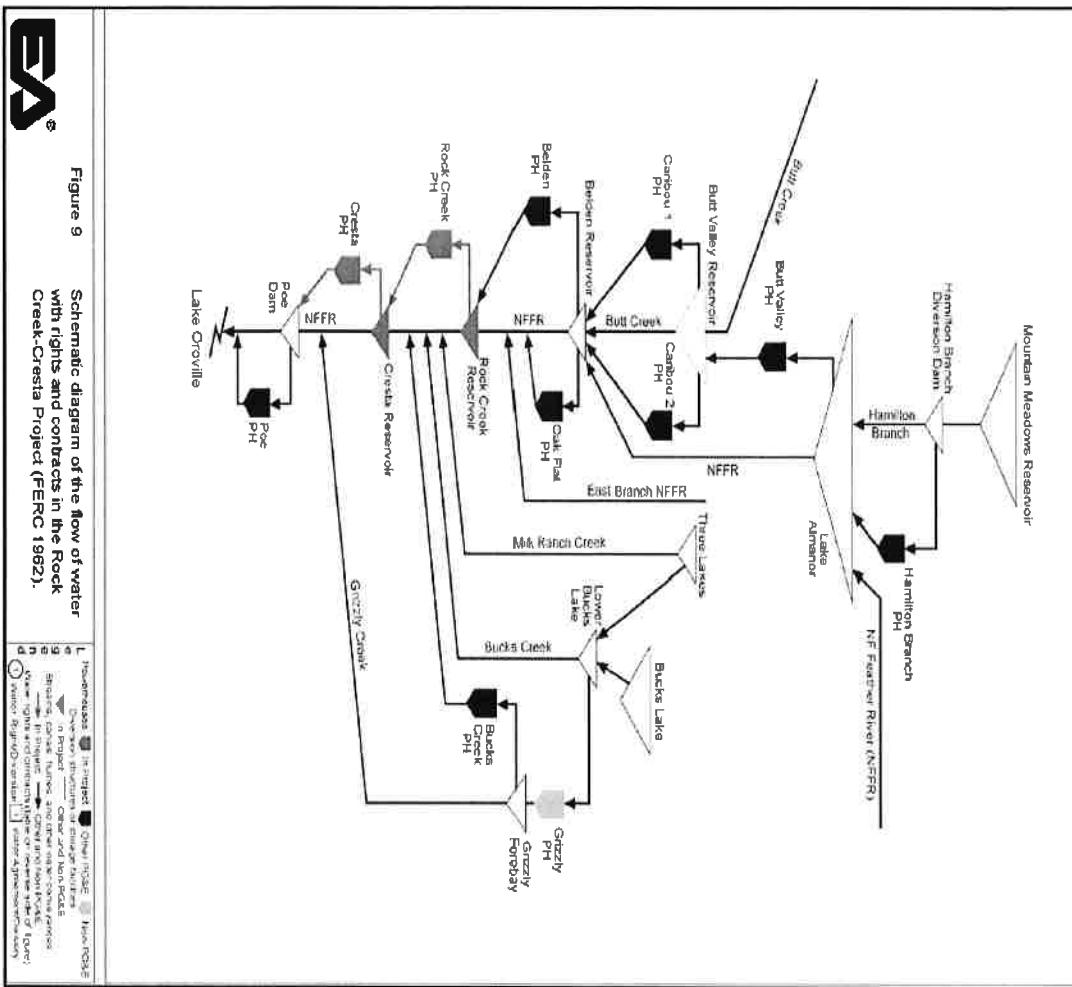
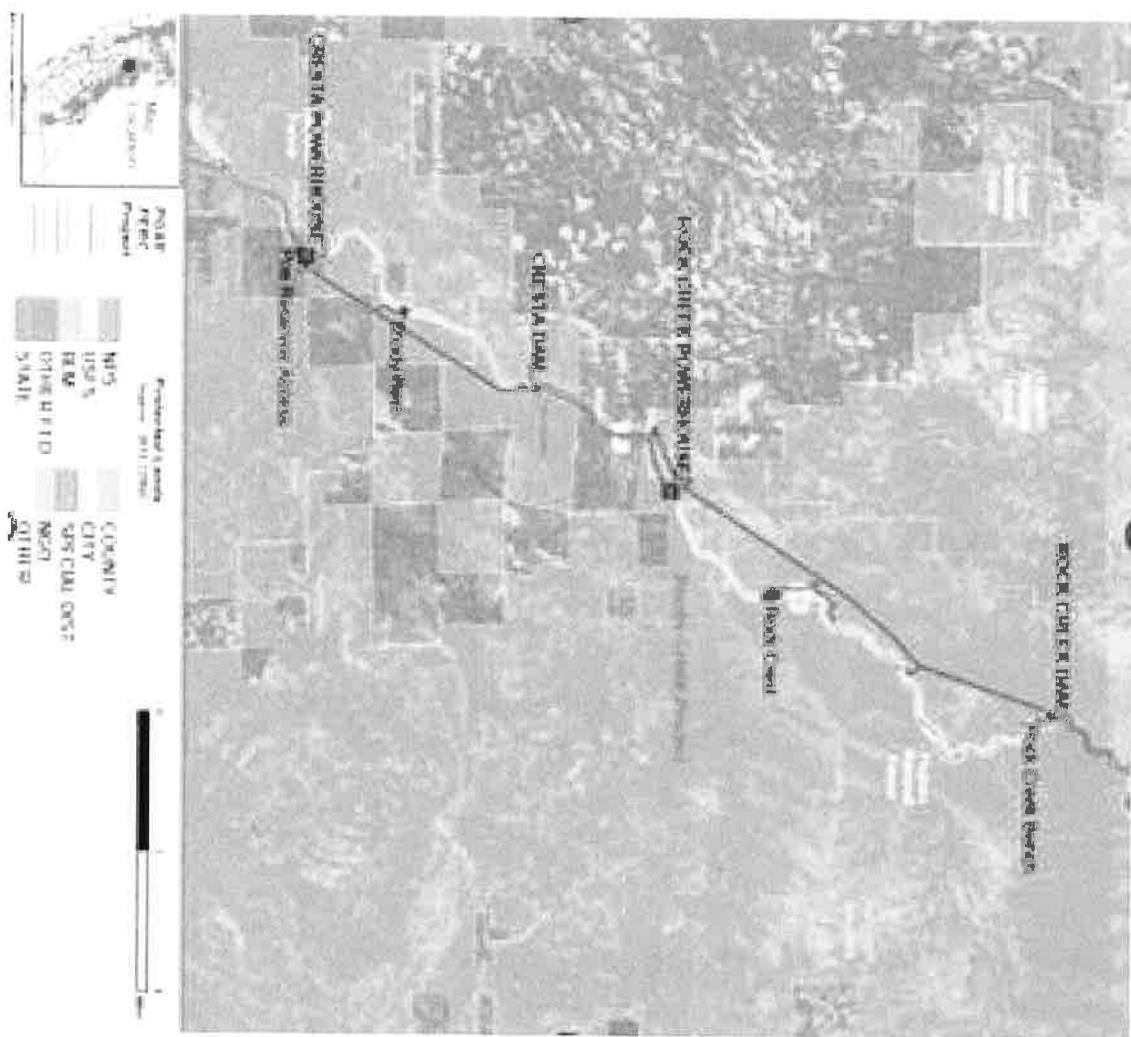


Figure 9 Schematic diagram of the flow of water with rights and contracts in the Rock Creek-Cresta Project (FERC 1962).

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Rock Creek-Cresta Project Map



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License Timeline

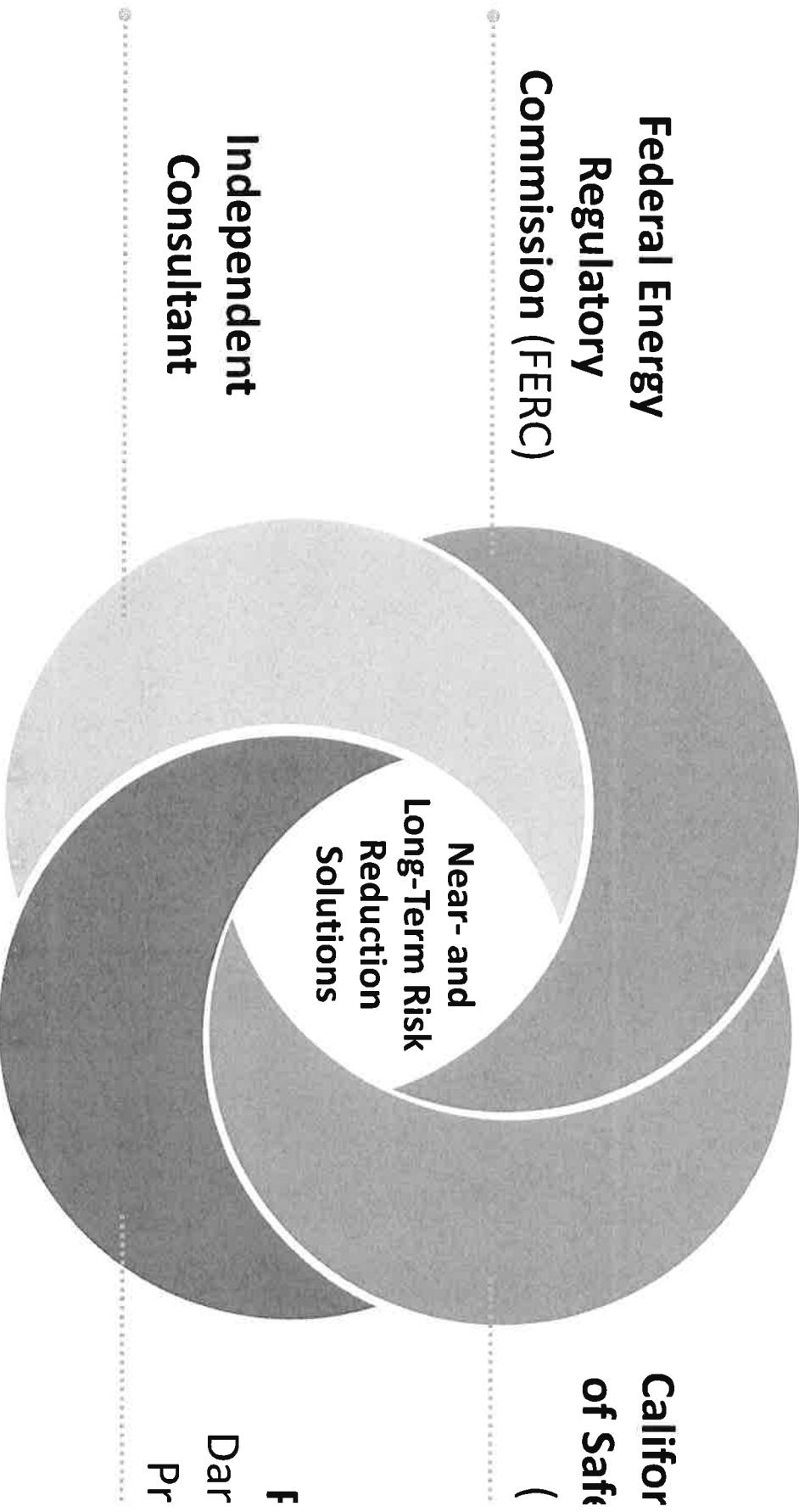
10/24/2001	FERC issued new project license with a term of 33 years and 3 5-year test-flow periods
2006	Completion of 1 st test-flow period
2014	Completion of 2 nd test-flow period
2019	Completion of 3 rd test-flow period
10/1/2034	Project license expires

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

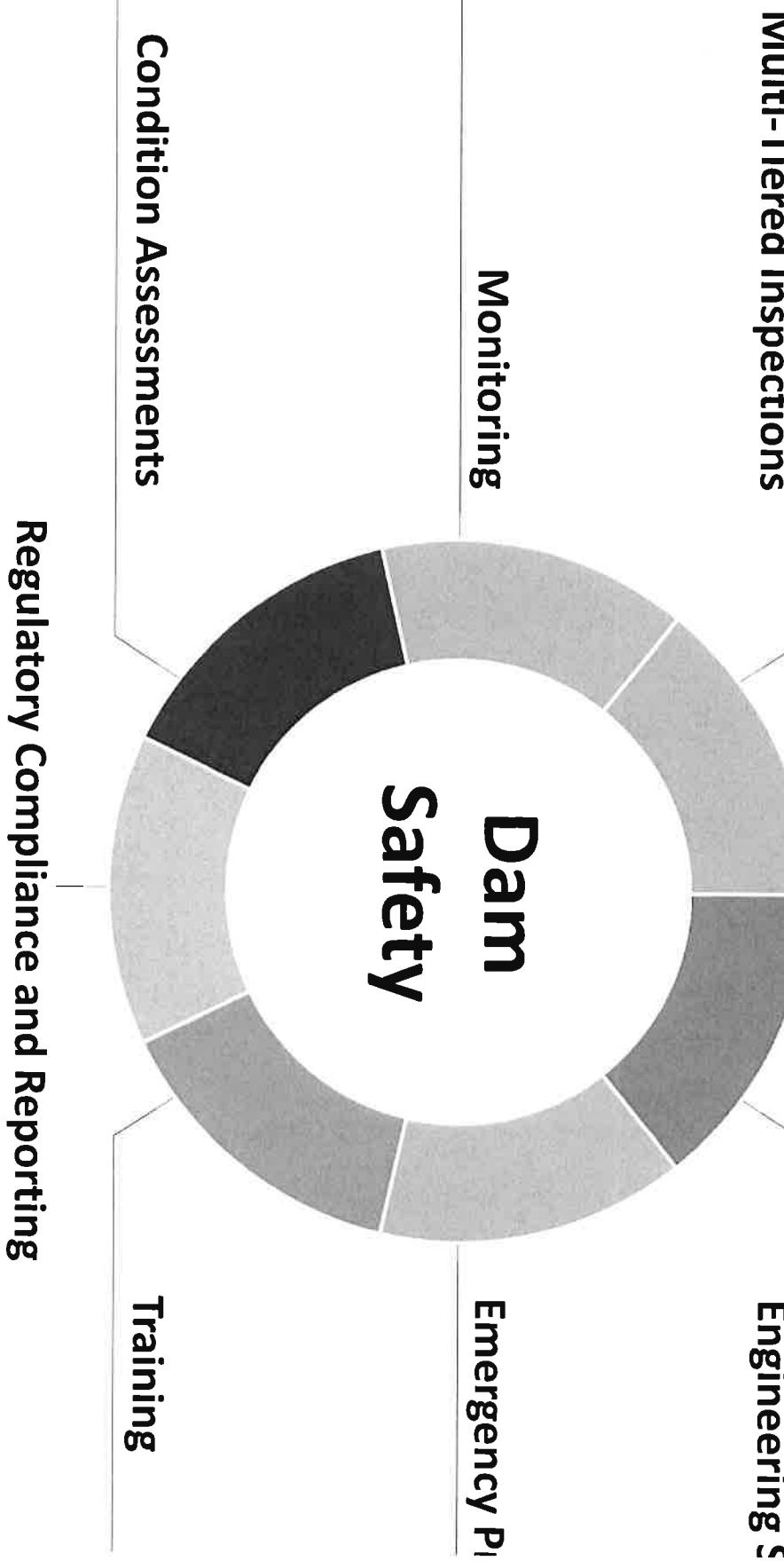
PG&E works alongside our regulators and independent consultants to identify and mitigate potential risks.



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PG&E's Dam Safety Program

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



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 underway**
- Haskins Campground Boat Ramp. Replace boat launch and improve slope protection. **Construction underway**
- 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 foundation piers. **Construction starting 2024-2025**
- Grizzly Tap Rebuild. Replaces the 115kV Grizzly Tap transmission. Construction underway

Rock Creek-Cresta

- Coffer dams 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.