

Cat Creek Energy Status Conference & Update

June 13, 2024

Boise, Idaho



AGENDA

Project overview



New 2024 Permit overview

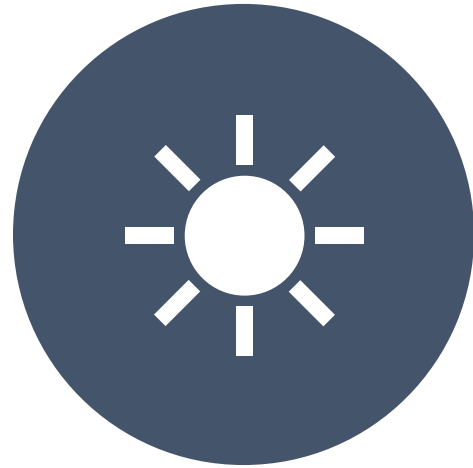


FERC-BOR update

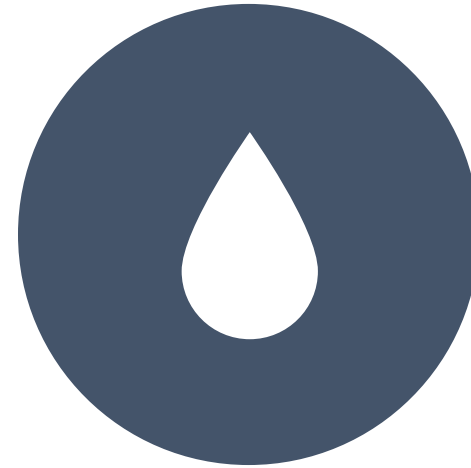


Project comparison and Path forward

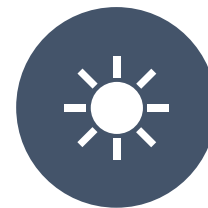
WHY



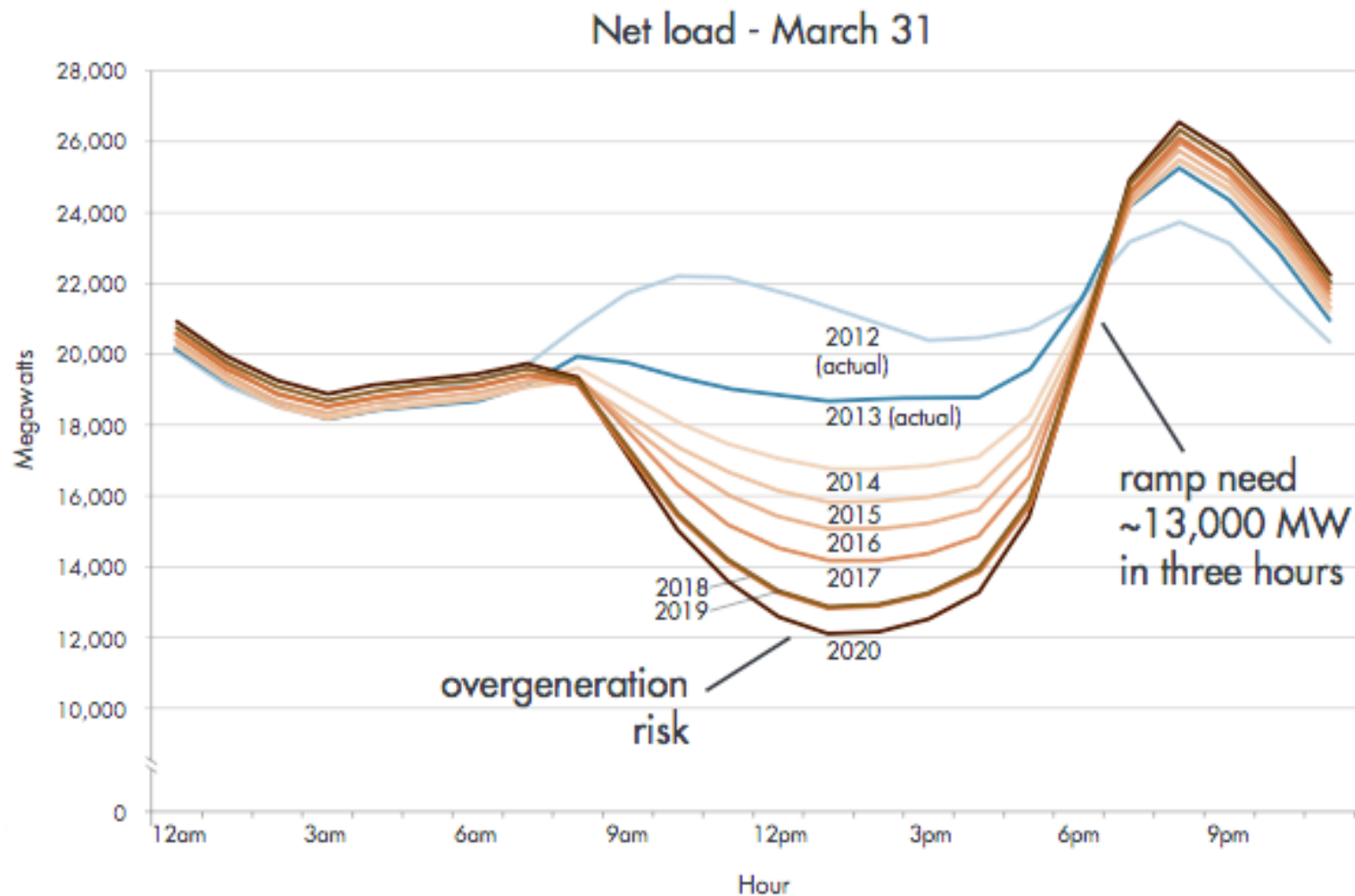
ENERGY STORAGE



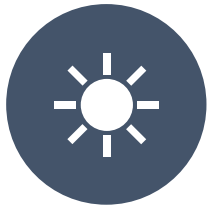
WATER STORAGE



ENERGY
STORAGE

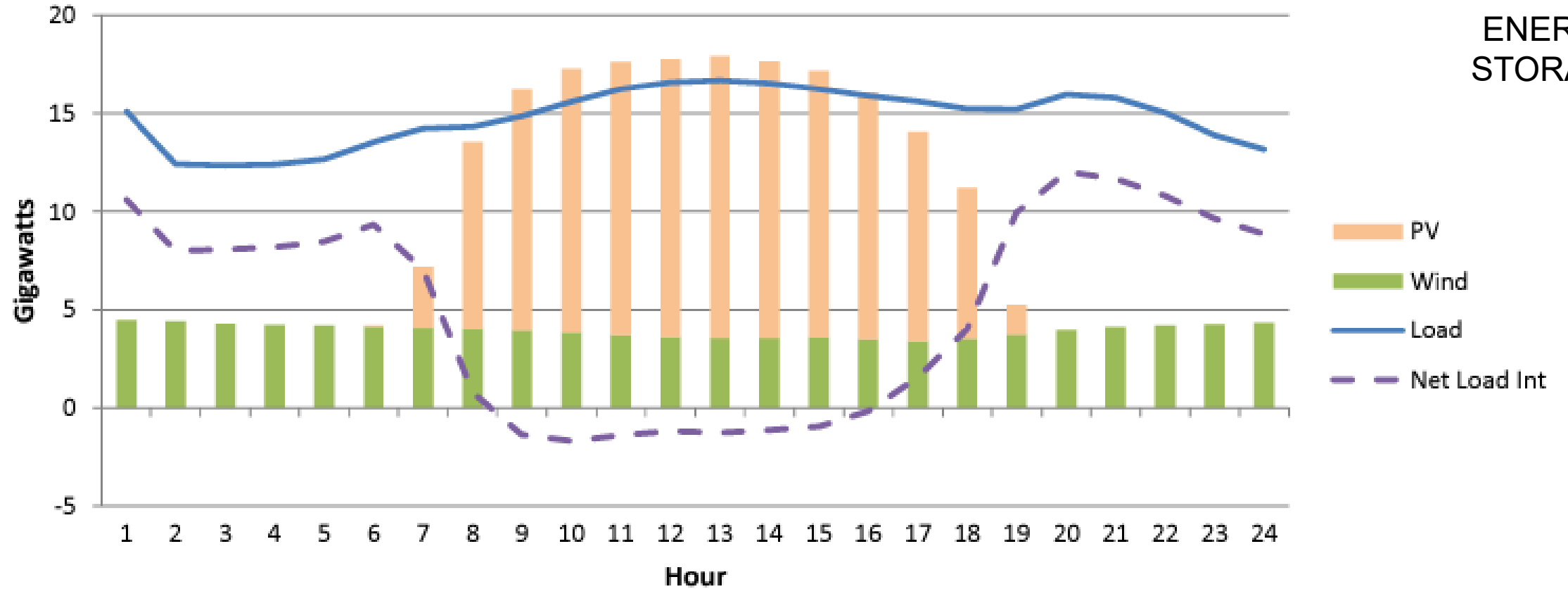


Net Load Curves for March 31, from 2012 to 2020, based on analysis by California ISA. Source: California ISO



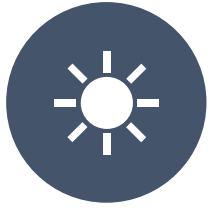
ENERGY STORAGE

Arizona/New Mexico March Weekend_Day in 2040



The Consideration of PV Curtailments in NEMS: Addressing the Duck Problem

Presented by Frances Wood OnLocation, Inc. July 11, 2016



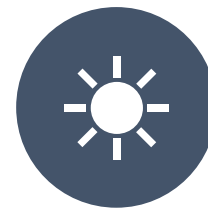
ENERGY
STORAGE

Introduction—Western Assessment of Resource Adequacy

Executive Summary

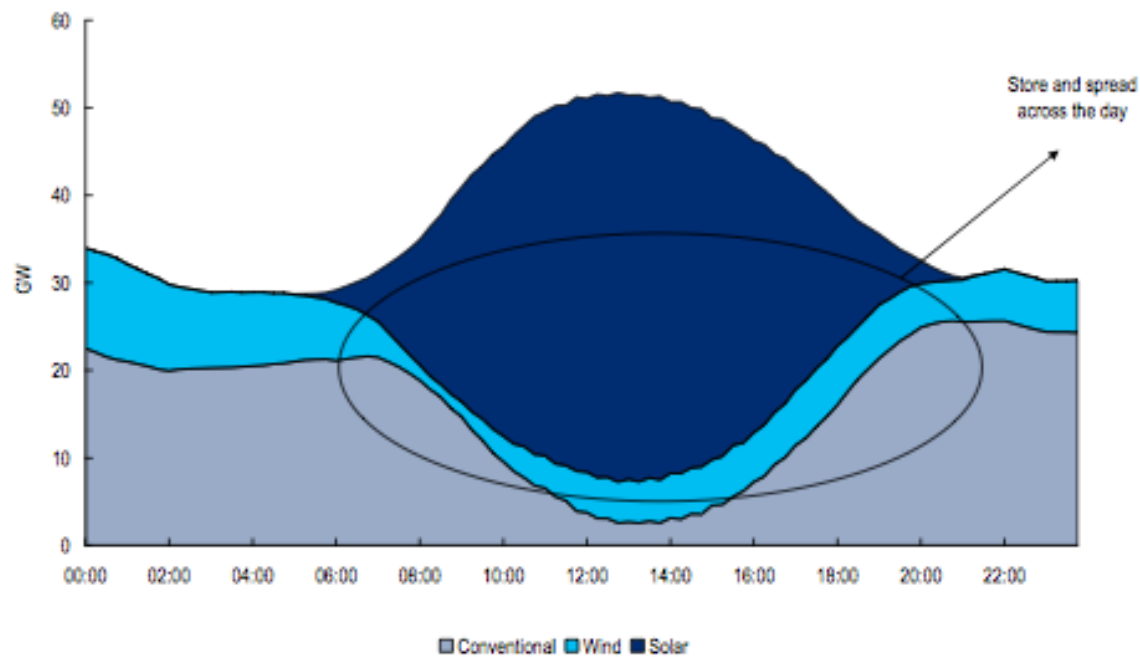
The 2021 Western Assessment of Resource Adequacy (Western Assessment) concludes that resource adequacy risks to reliability are likely to increase over the next 10 years. WECC recommends entities take immediate action to mitigate near-term risks and prevent long-term risks. Approaches to evaluating and planning for resource adequacy must adapt to changes affecting the system and evolve to ensure future reliability. The world has changed. The West has changed. These changes appear not only destined to continue, but to accelerate. If reliability and resilience are to be maintained, our planning, analyses, and ideas about resource adequacy must also change. Based on current projections, by 2025, each subregion, and the interconnection, will be unable to meet the 99.98%—one-day-in-ten-year—reliability threshold.

Source: Western Energy Coordinating Council, 2021 Assessment of Western Resource Adequacy



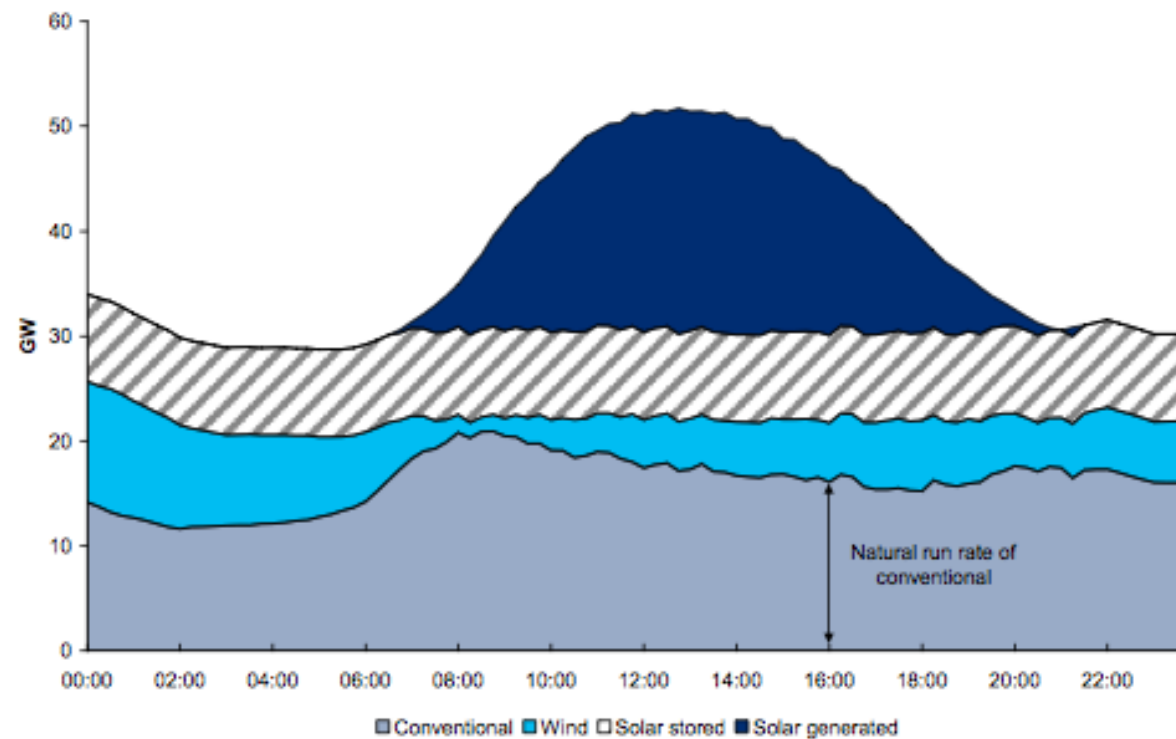
ENERGY
STORAGE

Figure 20. Generation profile before storage



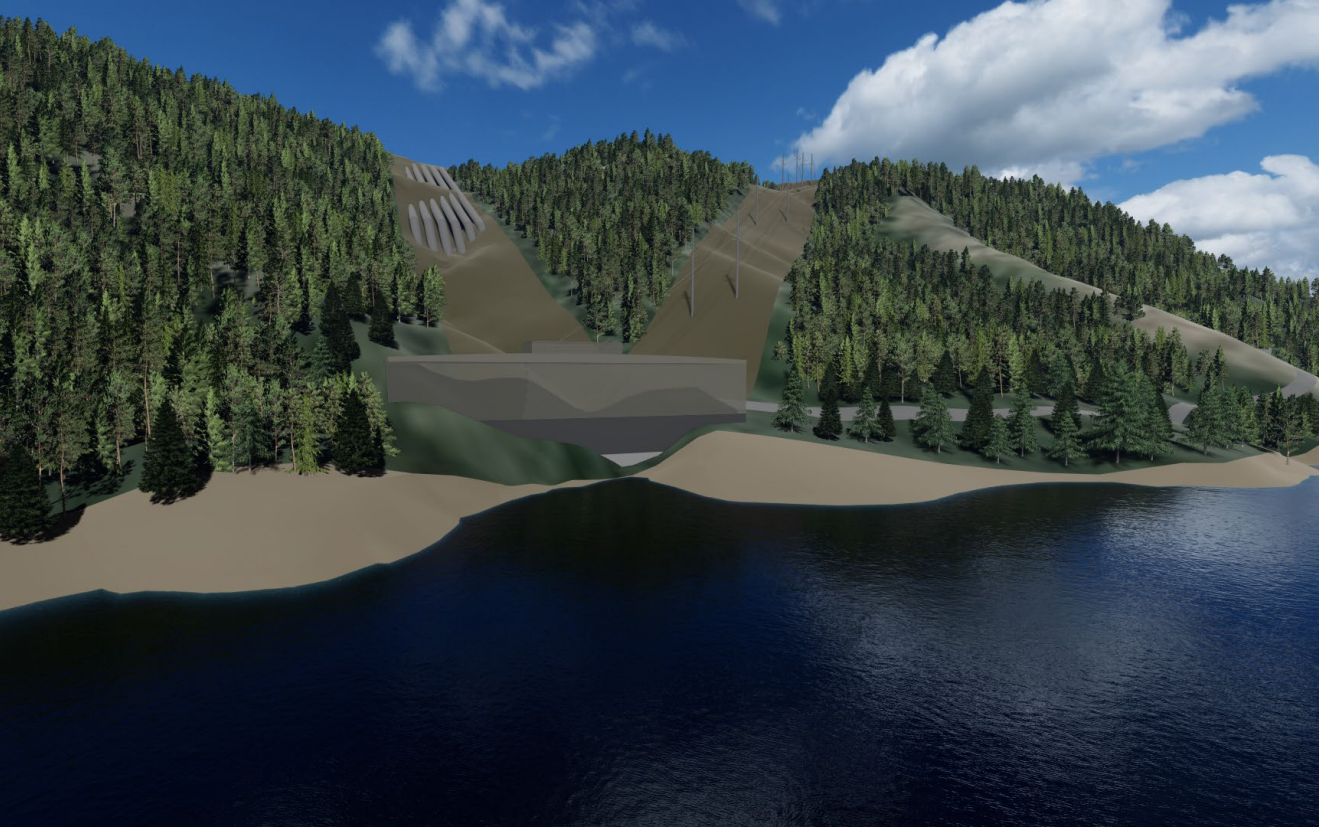
Source: Citi Research, EEX

Figure 21. Generation profile once storage is installed



Source: Citi Research, EEX

PSH vs. Chemical Battery Storage



Cat Creek Energy
72 times larger

“World’s Largest Battery”



WATER
STORAGE

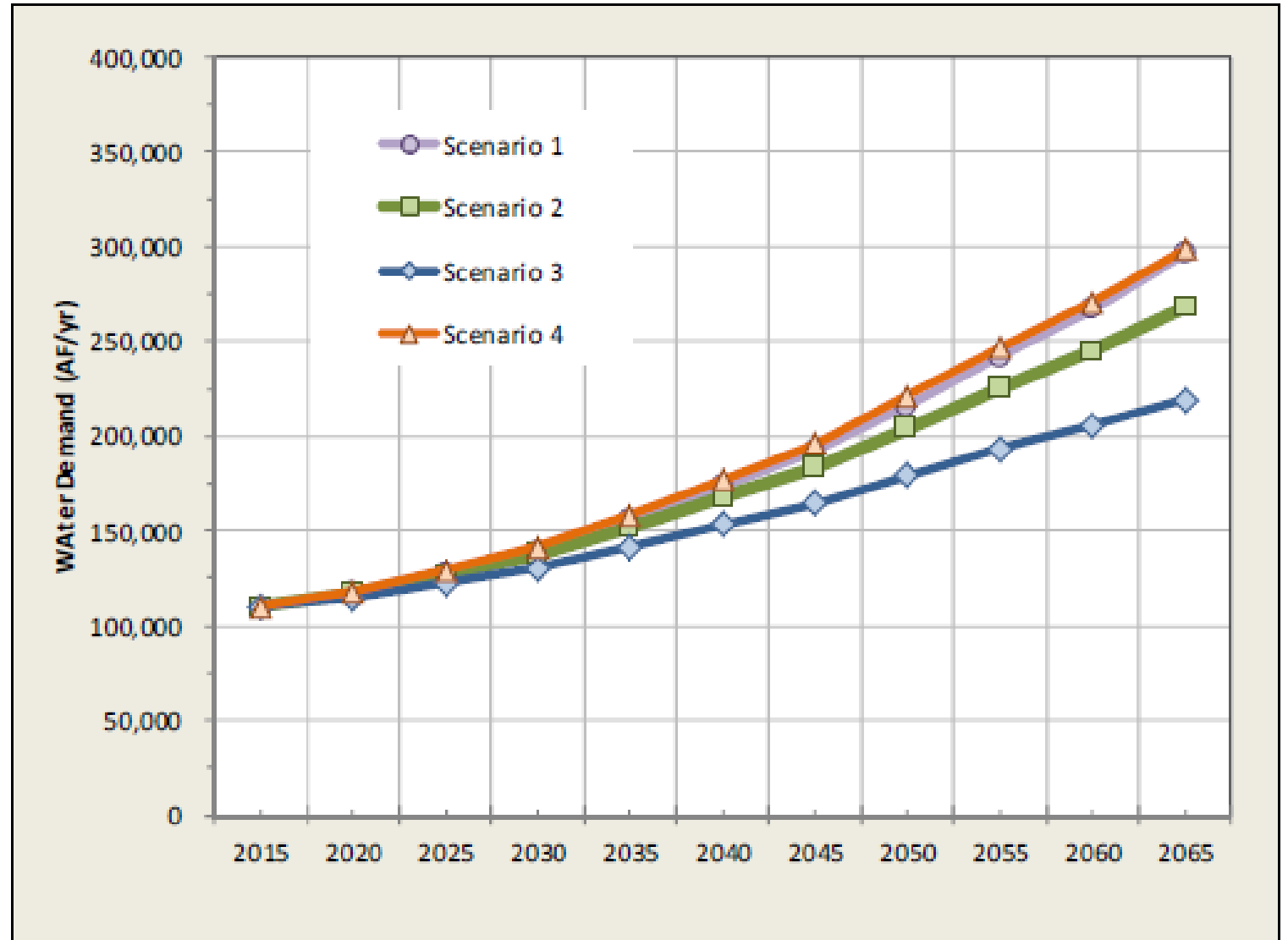
Water Storage





WATER
STORAGE

Treasure Valley DCMI Water Demand Projections (2015-2065)





WATER
STORAGE

Treasure Valley DCMI Water Demand Projections (2015-2065)

Water Demand Projections, 2015-2065 (AF/yr)									
Scenario →	1			2		3		4	
	2015 ⁽³⁾	2065	Increase, 2015- 2065	2065	Increase, 2015- 2065	2065	Increase, 2015- 2065	2065	Increase, 2015- 2065
Total indoor	55,700	136,500	80,800	120,400	64,600	95,600	39,800	120,400	64,600
Total irrig. ⁽³⁾	54,500	506,900	452,400	456,200	401,700	354,800	300,300	587,400	532,900
Total	110,200	643,400	533,100	576,500	466,300	450,400	340,100	707,800	597,500
Net DCMI indoor ⁽⁴⁾	55,700	136,500	80,800	120,400	64,600	95,600	39,800	120,400	64,600
Net DCMI irrig. ⁽⁴⁾	54,500	159,500	105,000	147,500	93,000	123,700	69,100	178,000	123,500
Net DCMI Total ⁽⁴⁾	110,200	296,000	185,700	267,900	157,600	219,200	109,000	298,300	188,100

Notes:

- "Partial irrigation" refers to urban areas in which a portion of the irrigable land is not irrigated or is irrigated with a water volume that is less than that which is required for fully-irrigated turf (see text).
- "Full irrigation" refers to urban land that is irrigated with an amount needed for fully irrigated turf.
- The irrigation volume in 2015 does not include surface water delivered by non-DCMI water-delivery entities (e.g., irrigation districts or canal companies). In contrast, the 2065 "total" irrigation volumes does include urban land that will be irrigated with surface water provided by non-DCMI entities.
- The "Net DCMI" volumes do not include future demand that will be supplied by currently-developed supplies (surface water or groundwater). These indoor, irrigation, and total demand volumes therefore represent a better comparison with the total estimated 2015 DCMI demand.



WATER
STORAGE

4E - SNAKE RIVER BASIN NEW STORAGE

Development of new on-stream, off-stream, and aquifer storage is in the public interest; provided, however, applications for large surface storage projects in the Milner to Murphy reach of the Snake River should be required to mitigate for impacts on hydropower generation.



LEGISLATURE OF THE STATE OF IDAHO
Sixty-fifth Legislature First Regular Session - 2019

IN THE HOUSE OF REPRESENTATIVES

HOUSE JOINT MEMORIAL NO. 4

BY RESOURCES AND CONSERVATION COMMITTEE

BE IT FURTHER RESOLVED that the Idaho Legislature urges the IWRB, Corps, Reclamation, water users, and other stakeholders to consider other infrastructure projects to address future water needs, including but not limited to raising of Arrowrock, Lucky Peak, Minidoka, and Island Park dams.

WHEREAS, studies show that additional water supplies will be needed to meet future demands as the state population continues to grow; and

WHEREAS, additional water infrastructure would provide opportunities to meet current and future water demands; and



Needs

The combination of population growth and climate projections is expected to create challenges in meeting existing water contract obligations and increased water supply demand in the Treasure Valley. With these challenges, there is a need to identify, investigate, recommend, and implement a plan for increased storage within the Boise River basin.



WATER
STORAGE

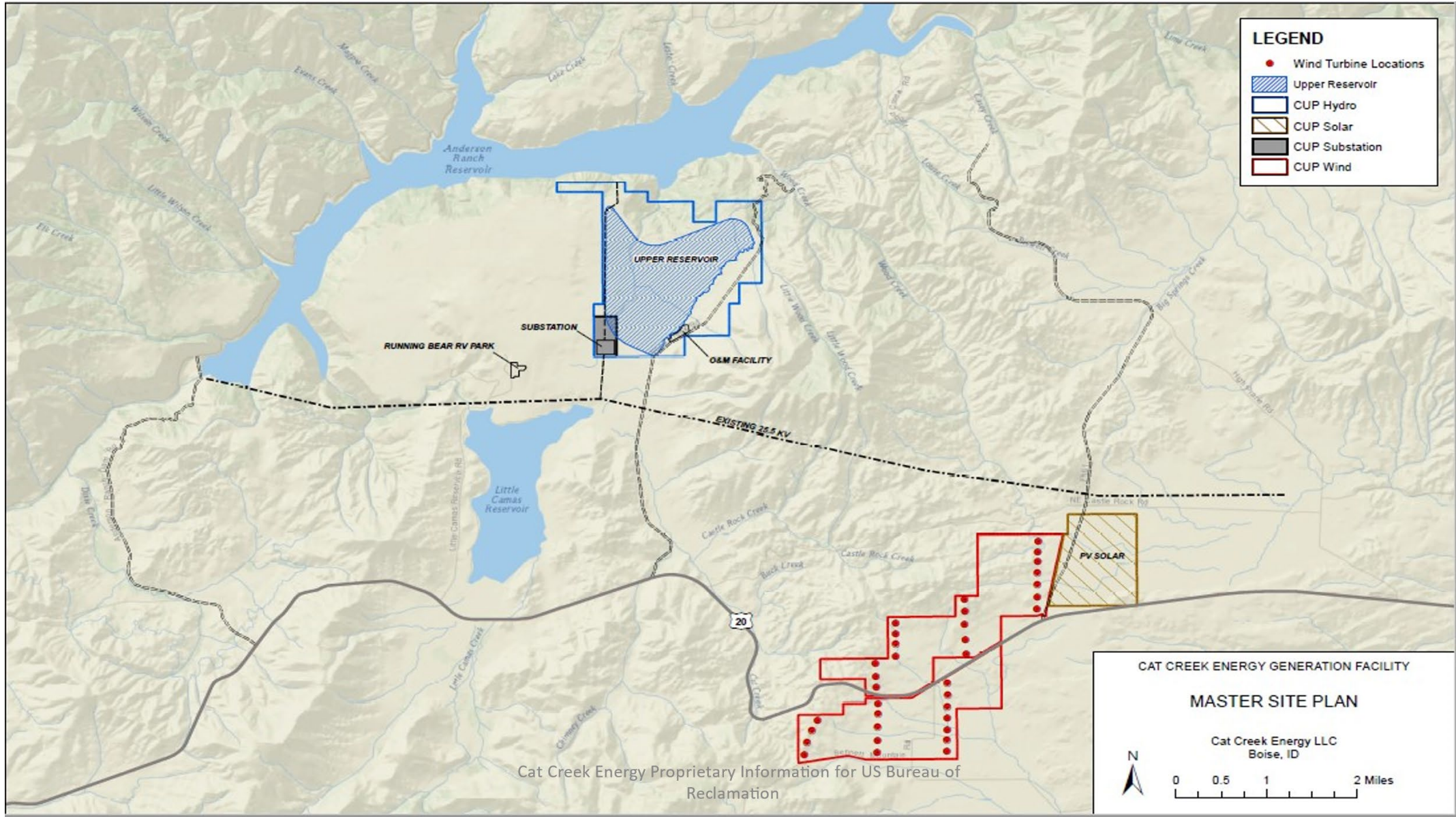
Idaho
Statesman

EDITORIALS

Growth + climate change = pending water crisis in Idaho. Let's sound the alarm now

BY THE EDITORIAL BOARD
AUGUST 01, 2021 04:00 AM







Upper Reservoir

Penstocks

Transmission Line

Emergency Spillway

Access Road

Powerhouse/
Pumphouse/
Substation

Prior Water Right Applications

Water Right #	Beneficial Use	Acre-Feet
63-34403	Hydropower	100,000
63-34652	Irrigation, Municipal, Mitigation	30,000
63-34897	Irrigation, Municipal, Mitigation	31,000
63-34900	Irrigation, Municipal, Mitigation, Recharge, Water Quality, Industrial, Commercial, Fish Habitat, Recreation, Domestic, Wildlife	19,000

New 2024 Water Right Application

RECEIVED

JAN 18 2024

WATER RESOURCES
WESTERN REGION

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of Idaho

Ident. No. 63-35522

1. Name of applicant(s) Cat Creek Energy, LLC Phone 208-336-1370
 Mailing address 398 S. 9th Street, Suite 240 City Boise
 State ID _____ ZIP 83702 Email jt@ccewsrps.com

2. Name of representative, if any Idaho Water Engineering, attn: David R. Tuthill, Jr. Phone 208-378-1513
 Mailing address 2918 N El Rancho Pl City Boise
 State ID _____ ZIP 83704 Email dave@idahowaterengineering.com

a. Send all correspondence for this application to the representative and not to the applicant OR
 Send original correspondence to the applicant and copies to the representative.

b. The representative may submit information for the applicant but is not authorized to sign for the applicant OR
 The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation.

3. Source of water supply South Fork Boise River which is a tributary of Boise River

4. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
1N	9E	26			SW	NW	Elmore	South Fork Boise River	
					SE	NW	"	"	
					SW	NE	"	"	
See Attachment A.									

5. Water will be used for the following purposes: See Attachment C.
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)

6. Total quantity to be appropriated is (a) 2000.00 cubic feet per second (cfs) and/or (b) 50,000 acre-feet per year (af).

7. Proposed diverting works:
 a. Describe type and size of devices used to divert water from the source. Same as Application for Permit 63-34403.
 b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 12. For dams 10 feet or more in height AND having a storage capacity of 50 acre-feet or more, submit a separate [Application for Construction or Enlargement of a New or Existing Dam](#). Application required? Yes No
 c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.
 d. Is ground water with a temperature of greater than 85°F being sought? Yes No
 e. If well is already drilled, when? _____; drilling firm _____; well was drilled for (well owner) _____; Drilling Permit No. _____

For Department Use
 Received by ZTD Date 1-18-24 Time _____ Preliminary check by ZTB
 Fee \$ 61610.00 Receipted by CC Receipt No. W051722 Date 1-18-24
3,000.00 W051723 1-18-24
\$91610.00

- Received by IDWR on Jan. 18, 2024
- Application for additional 50,000 ac-ft for hydropower
- Project design recently expanded, increasing upper reservoir storage from 100K ac-ft to 150K ac-ft
- 130K portion of the upper reservoir available for downstream uses
- 71K of upper reservoir assigned to irrigation and municipal water entities under agreements with CCE
- Additional 50K ac-ft of storage available for existing and future needs

FERC Licensing Process



PRE-APPLICATION DOCUMENT



SCOPING PHASE



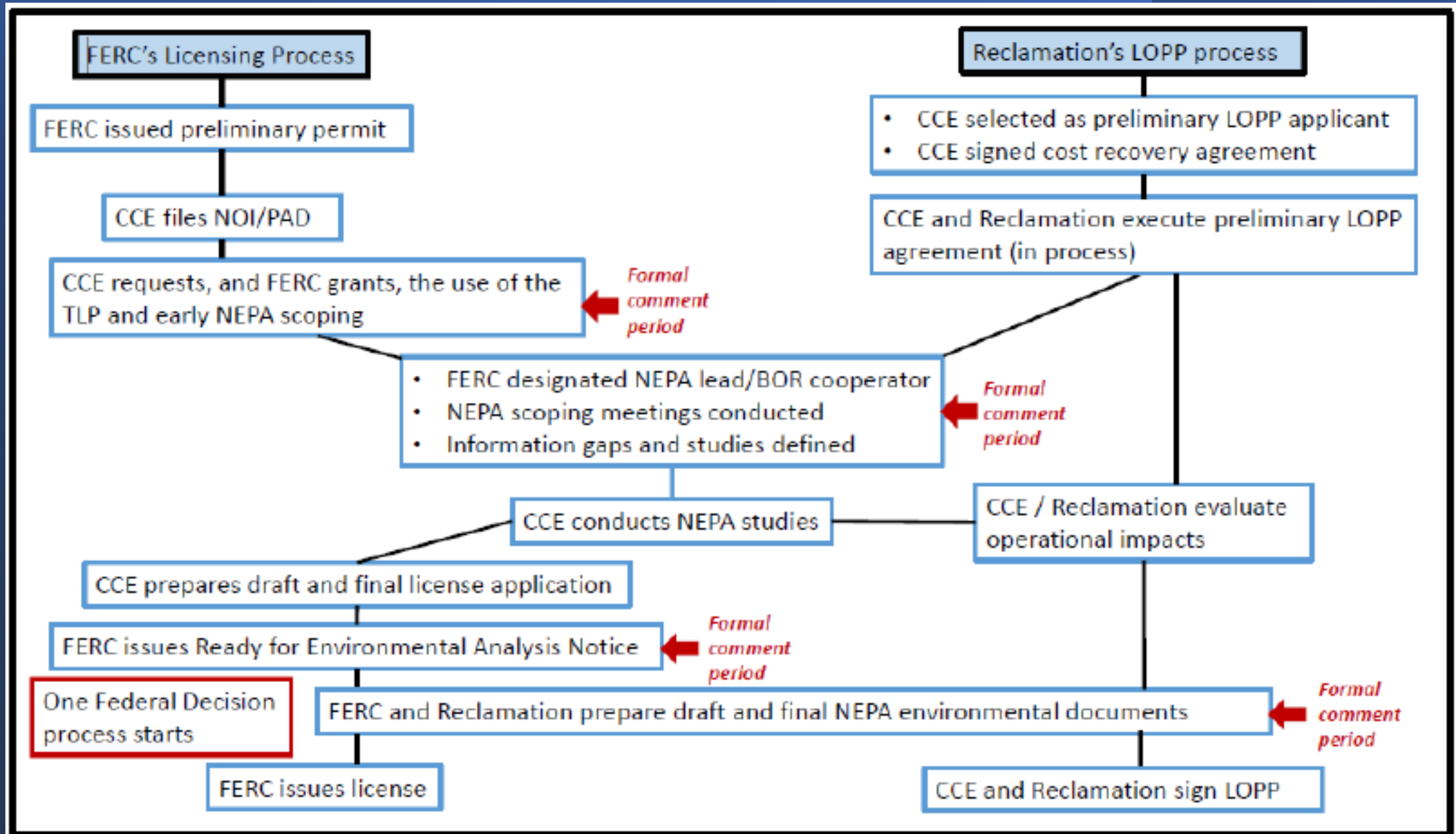
STUDY PLAN



STUDIES PERFORMED



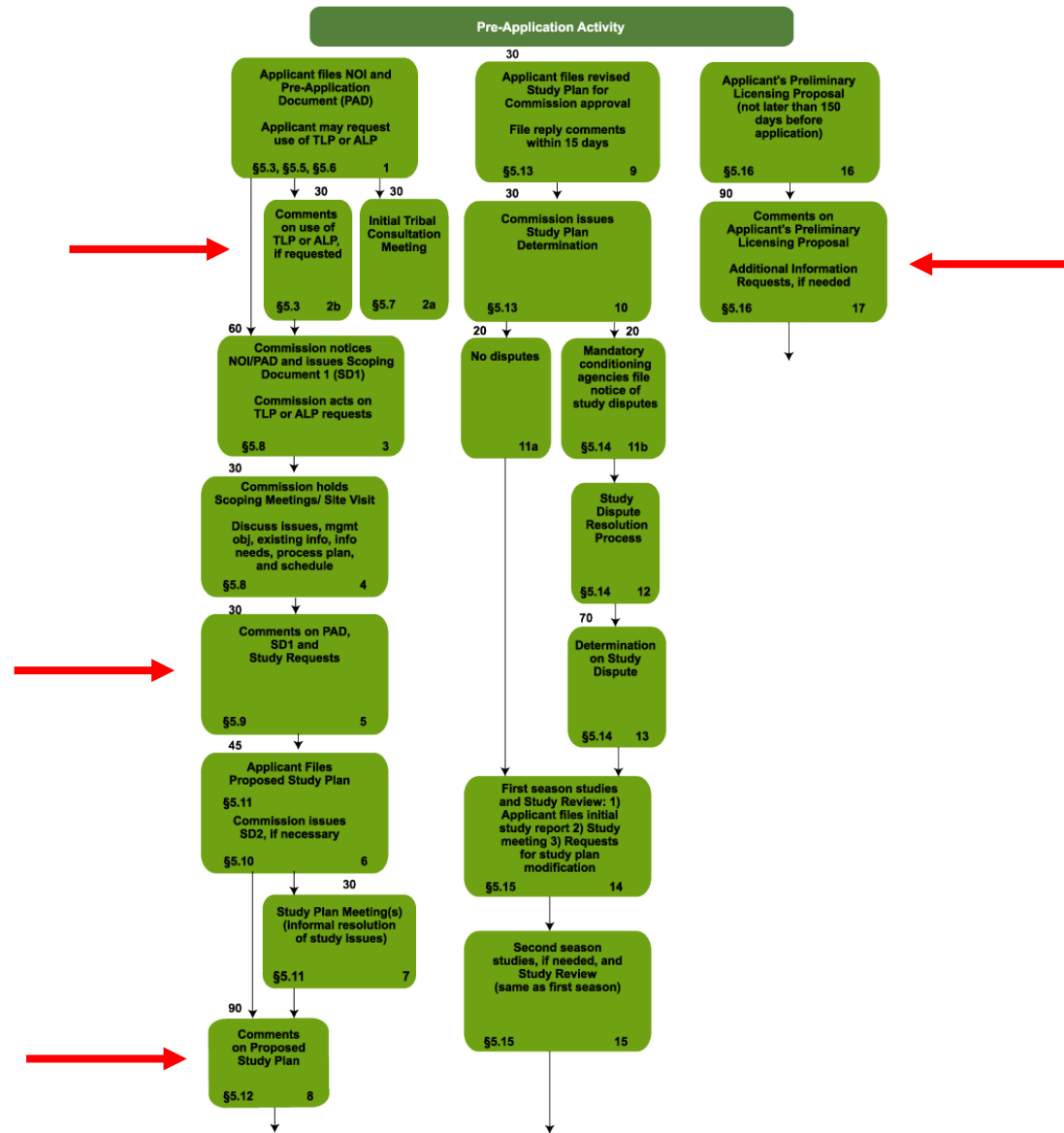
APPLICATION FOR LICENSE



FERC Licensing Process

PROCESSES FOR HYDROPOWER LICENSES Integrated Licensing Process (ILP)

5.5-5 years before expiration for relicense





**FERC
requires
compliance
with:**

Clean Water Act

Endangered Species Act

Wild and Scenic Rivers Act

National Historic Preservation Act

Recommendations of Federal and
State Fish & Wildlife Agencies

Studies

- Imagery-based land cover mapping with field verification to identify and quantify available wildlife habitat that could be affected by the Project
- Baseline floristic survey of the Project area
- Assessment of avian populations subject to migration patterns and encounters with the upper reservoir
- Waterfowl baseline counts
- Amphibian and reptile baseline survey
- Test plots on amphibious plants that grow on Reservoir edges to determine plant root impact on liner
- Test plots on rehabilitation plants for the site
- Inventory survey of the entire project area
- Nested computational modeling system to determine changes on water quality and fisheries
- A full featured coupled 3D hydrodynamic water quality model to simulate future conditions and capture varying aspects of weather, catchment, aquatic biota, and basin planning scenarios

Cat Creek Energy & Water Storage Renewable Power Station Project Proposed Aquatic Studies



Anderson Ranch Reservoir - Nov 2017

J. Brock

Water Quality and Fish

Kokanee



IDFG – June 2008

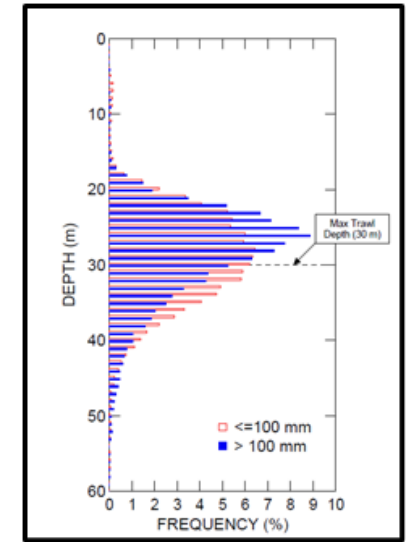
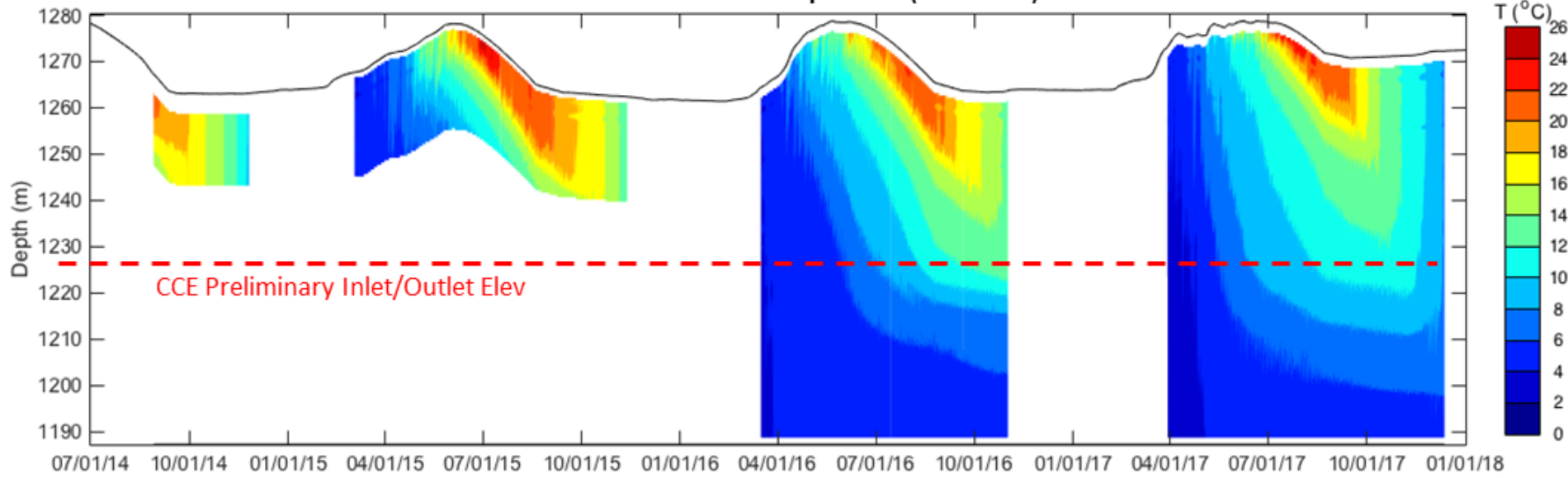
SFBR Tailwater - Trout



IDFG

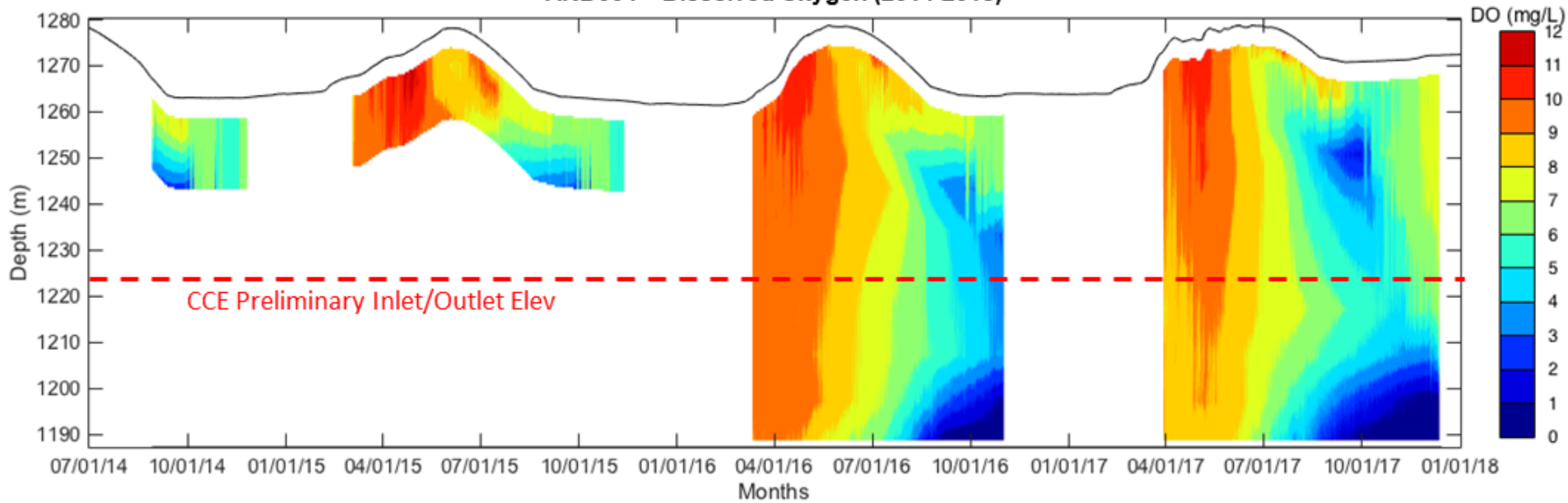
Bull Trout

AND004 – Water Temperature (2014-2018)

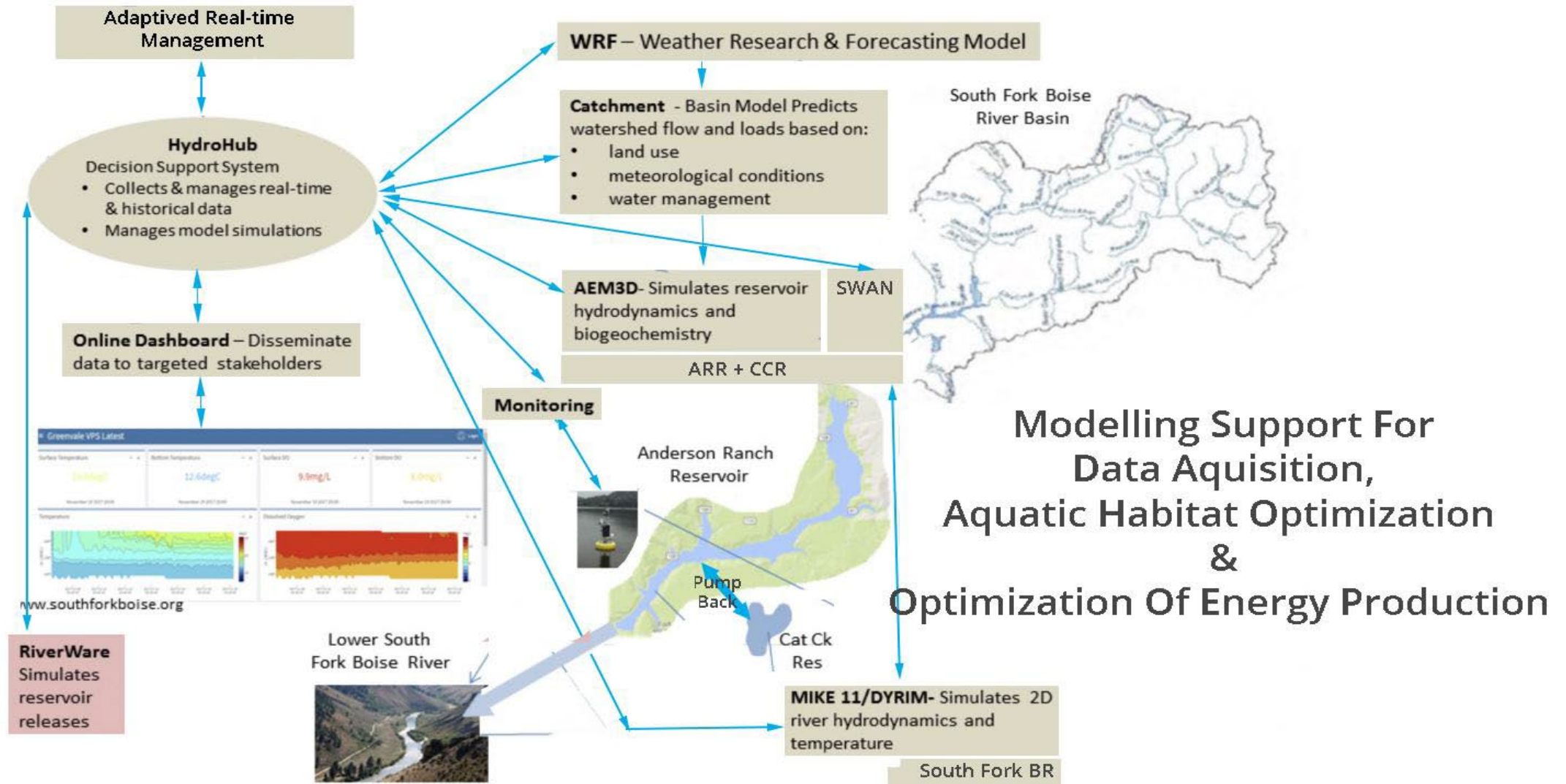


Depth distribution of Kokanee in ARR on July 24, 2000. Figure 2 in Teuscher (2001).

AND004 – Dissolved Oxygen (2014-2018)



Data Source:
BOR Unpublished



	Domain	Model Abbrev	Model Name	Role	Inputs	Physical Domain Descriptors	Outputs	Monitoring	Comments
A	Weather	WRF	Weather Research & Forecasting Model	provide weather conditions throughout basin (1000m x 1000m grid) and over ARR (200m x 200m)	lateral boundary conditions from NARR, NOAA	topography	irradiance, air temp, precipitation, humidity, wind	land and buoy-based met stations	3 second time step, 15 minute output interval DRI/BSU
B	Catchment	TBD	SWAT, WARMF, HSPF, HSP2 (to be determined)	route runoff and streamflow through basin, determine sediment, nutrient, and water temperature inflows to ARR	WRF	topography, land use, soils, channel hydraulic properties, water management, i.e., irrigation withdrawal	flow, temperature, water quality including nutrients, sediment, carbon	flow, water quality sondes, water chemistry, temperature, channel survey	LimnoTech/IWE
C	Reservoirs	AEM3D	Aquatic Ecosystem Model 3D	simulate 3D hydrodynamics and biogeochemistry of reservoirs	WRF, Catchment inflows and WQ data, initial conditions	bathymetry, location of inflows and outflow	hydrodynamics and water quality 3D distribution, water level, fish food & habitat	temperature buoys, profiling, water chemistry, plankton, fish	includes coupled CCR model, wave model coupled to AEM3D, Clelia Marti/HydroNumerics collaborate with BoR
D	AND Dam	BRPM	Boise RiverWare Planning Model	determine releases from AND	inflows		flow Releases to SFBR	flow	in collaboration with BoR
E	Tailwater	MIKE11-MIKE21/DYRIM	MIKE11-MIKE21/DYRIM	2D river hydrodynamics, temperature and aquatic habitat	WRF, AND releases	topography, bathymetry, channel hydraulic properties	downstream flow & temperature	flow, water temperature	U of I Boise Group/ Clelia Marti
F	Decision Support System	HydroHub	HydroHub	collect and manage historical, real time and future scenario data, manage model simulations, visualise field and model data	WRF, Catchment, AEM3D, Tailwater		Index of Sustainable Functionality (ISF), Model Database	online dashboard	HydroNumerics - ISF may guide optimization of CCE operations consistent with ecological and energy generation constraints

Notes:

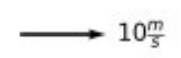
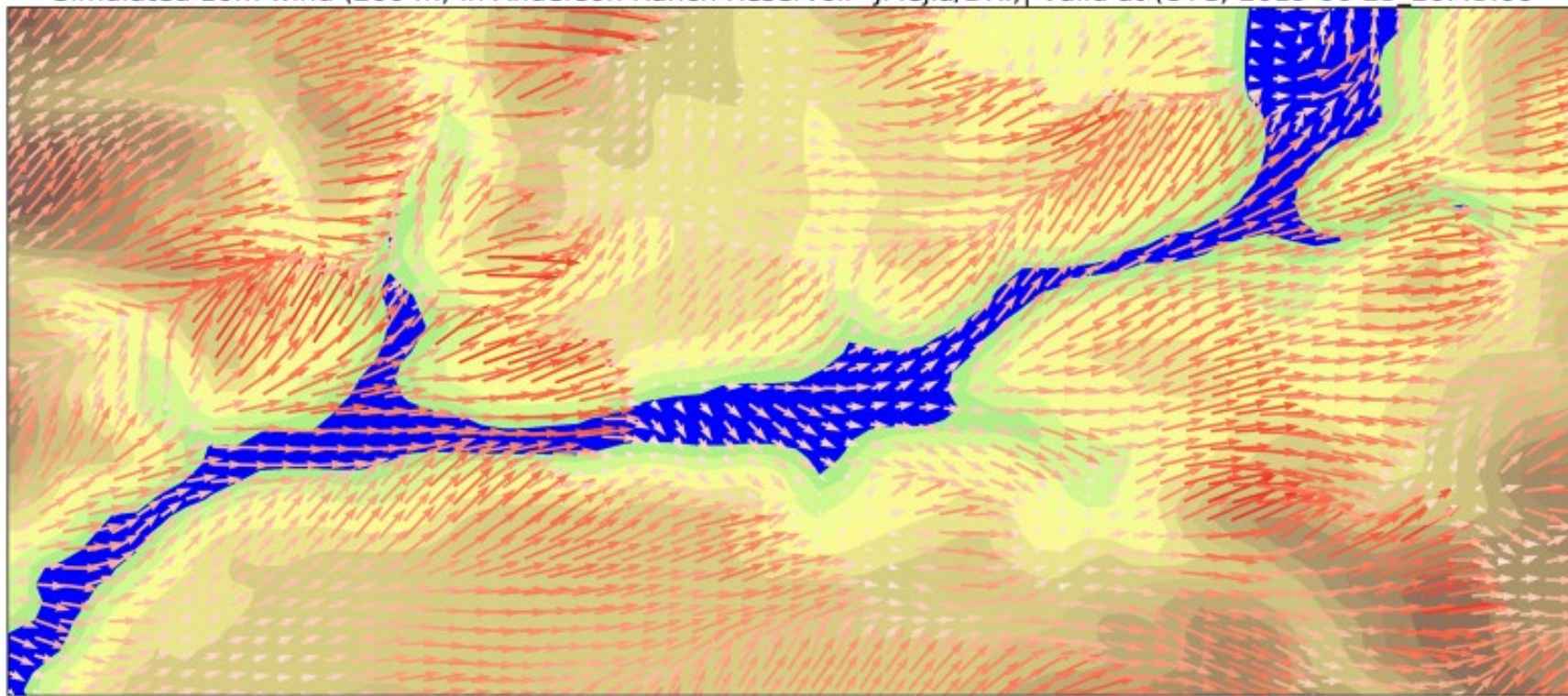
NARR = North American Regional Reanalysis; available 1978-Present

ARR = Anderson Ranch Reservoir

AND = Anderson Ranch Dam

CCR = Cat Creek Reservoir

Simulated 10m wind (200 m) in Anderson Ranch Reservoir- JMejia/DRI| Valid at (UTC) 2019-06-25 20:45:00



Monitoring to Include:

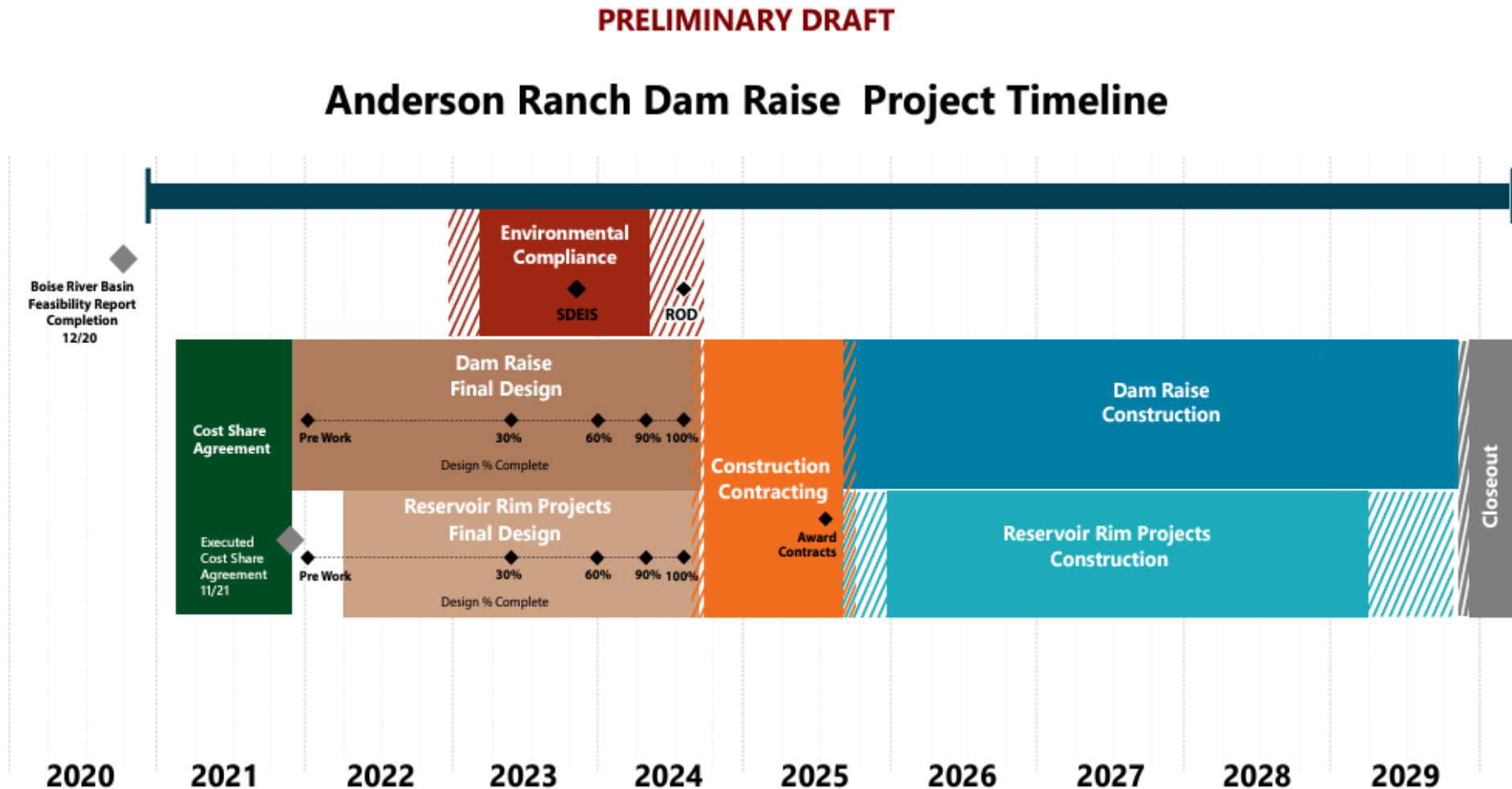
Weather	AT,RH,SWR,LWR,WS,WD,Precip - Multiple Locations
In/Outflows & Catchment	Discharge
	Water Temperature
	Water Chemistry
Reservoir	Pool Elevation
	Water Chemistry
	Comprehensive Profiling
	Data Buoys - Continuous Monitoring
	Plankton - Plant Pigments, Zooplankton
	Fish - HydroAcoustics, Coordinate with IDFG, BOR
	Ice Cover

Reclamation Update

- Held Continuing Learning Education event with BOR at Sun Valley with IDWR in 2023
- Discussions with BOR at Governor Little's one-day water conference in summer 2023 in Boise
- Updates provided to BOR in May 2023, January 2024, May 2024, and June 2024
- New stakeholder additions to the Project are in progress and will impact BOR discussions re LOPP (Lease of Power Privilege) and FERC study plan

Comparable Projects

- IWRB submitted Application for Permit of 30,000 ac-ft in June 2019 for additional storage water created by the proposed dam raise on Anderson Ranch Dam.
- Dam raise competition predicted for 2029/2030



Comparable Projects

- IWRB and Utah filed Application for Permit in March 2018 for 400,000 ac-ft related to Bear River project to retain “flood control releases” to supply existing and future water uses in Bear River basin.
- Protests filed in Utah on the Application
- Procter & Gamble Paper Products Company filed request for IDWR to publish notice on the application to allow protest, but no publication yet filed
- Project not yet identified or listed on IWRB website

RECEIVED
MAR 23 2018
DEPT OF WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of Idaho

Ident. No. 11-7835

1. Name of applicant(s) Idaho Water Resource Brd. & Utah Div. of Water Resources Phone (208) 287-4800
Name connector (check one): and or and/or
 Mailing address 322 E Front Street, PO Box 83720 City Boise
 State Idaho ZIP 83720-0098 Email brian.patton@idwr.idaho.gov

2. Name of representative, if any Ann Vonde, Deputy AG Phone (208) 334-4141
 Mailing address PO Box 83720 City Boise
 State ID ZIP 83720-0010 Email ann.vonde@ag.idaho.gov

a. Send all correspondence for this application to the representative and not to the applicant OR
 Send original correspondence to the applicant and copies to the representative.

b. The representative may submit information for the applicant but is not authorized to sign for the applicant OR
 The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation.

3. Source of water supply See Attached which is a tributary of _____

4. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
15S	44E	16			NW	NE	Bear Lake	See Attached	B.L. Outlet Canal
15S	44E	16	2		SW	NE	Bear Lake	See Attached	B.L. Outlet Canal
14S	44E	17	5		NE	NW	Bear Lake	See Attached	Outlet Canal Gate
13S	44E	34			SE	NE	Bear Lake	See Attached	Rainbow Canal Inlet

5. Water will be used for the following purposes:
 Amount 2,000 cfs for Diversion to Storage purposes from 10/1 to 7/31 (both dates inclusive)
(cfs or acre-feet per year)
 Amount 400,000 af for Irrigation Storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
 Amount 400,000 af for Municipal Storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
 Amount _____ for See Attached Supplement purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)

6. Total quantity to be appropriated is (a) 2,000 cubic feet per second (cfs) and/or (b) 400,000 acre-feet per year (af).

7. Proposed diverting works:
 a. Describe type and size of devices used to divert water from the source. See Attached

 b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 12. For dams 10 feet or more in height AND having a storage capacity of 50 acre-feet or more, submit a separate [Application for Construction or Enlargement of a New or Existing Dam](#). Application required? Yes No
 c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.
 d. Is ground water with a temperature of greater than 85°F being sought? Yes No
 e. If well is already drilled, when? _____; drilling firm _____;
 well was drilled for (well owner) _____; Drilling Permit No. _____

Summary of CCE Project Events to Date

- Project comprised of five components
 - Reservoir with hydroelectric turbines
 - Solar panels
 - Wind turbines
 - Electrical transmission lines
 - Onsite power station
- Requires coordination with Elmore County Commissioners for conditional use permits, FERC, Reclamation, IDWR and Project investors/customers
- Lots of moving parts and studies which impact one another

	'14	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Elmore County Proceedings	0-4-14 CCE begins CUP process for Project	1-14-15 CCE issues CUP for Project	0-4-16 CCE holds hearings CUPs 0-2-16 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent	1-1-17 CCE holds hearings CUPs 0-2-17 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent	1-1-18 CCE holds hearings CUPs 0-2-18 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent	1-1-19 CCE holds hearings CUPs 0-2-19 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent	1-1-20 CCE holds hearings CUPs 0-2-20 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent	1-1-21 CCE holds hearings CUPs 0-2-21 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent	1-1-22 CCE holds hearings CUPs 0-2-22 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent	1-1-23 CCE holds hearings CUPs 0-2-23 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent	1-1-24 CCE holds hearings CUPs 0-2-24 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent	1-1-25 CCE holds hearings CUPs 0-2-25 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent	1-1-26 CCE holds hearings CUPs 0-2-26 CCE issues CUPs CCE appeals CUP decision to Board First Board Hearing on CUPs Board approves CUPs CCE starts negotiating Dev. Agent
S-Bar District Court & ISC Appeal					0-4-18 S-Bar District Court for Judicial Review of 2017 CUP Order and 2018 CUP Amendment 0-4-18 S-Bar District Court for Judicial Review 0-2-18 CCE Motion to Dismiss Filed S-Bar District Court Amended Pet.	0-4-19 County Elmore County Board on Standing 0-4-19 District Court Motion, Decree and Order affirming Board's decision S-Bar appeal withdrawn Board request demand of matter back to Board 0-4-19 DC denies demand S-Bar files Amended Notice of Appeal			10-1-22 10 Sep. Ct. issues first Opinion 10 Sep. Ct. issues Amended Opinion				
FERC Process	CCE applies for 10-year preliminary permit with FERC CCE responds to FERC's draft EIS and comments on FERC's draft EIS CCE submits preliminary permit application accepted by FERC Notice of Intent to begin Order to begin permit application and preliminary permit application to CCE CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report	CCE submits comments to FERC on FERC's draft EIS (DOP) CCE submits progress report CCE submits progress report CCE submits progress report
Water Right Applications for Permit				0-4-17 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-17 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-17 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-17 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs)	0-4-18 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-18 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-18 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-18 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs)	0-4-19 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-19 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-19 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-19 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs)	0-4-20 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-20 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-20 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-20 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs)	0-4-21 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-21 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-21 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-21 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs)	0-4-22 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-22 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-22 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-22 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs)	0-4-23 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-23 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-23 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-23 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs)	0-4-24 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-24 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-24 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-24 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs)	0-4-25 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-25 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-25 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-25 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs)	0-4-26 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-26 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-26 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs) 0-4-26 WR Application Form No. 50 (WR-001) (Hydropower, 100 cfs)

Go Forward Plan

- Continue to coordinate with BOR and stakeholders on LOPP and study plan
- After LOPP finalized FERC will take application out of abeyance and process will continue
- Finalize study plan and conduct FERC-NEPA (National Environmental Policy Act) studies
- Work to cooperatively resolve IDWR Permit Application protests after study results
- If necessary, reinitiate IDWR formal proceedings and resolve remaining protests

Other Issues?