Cat Creek Energy & Water Storage Renewable Power Station is located 25 miles NNE of Mountain Home, Idaho, above the South Fork of the Boise River and along US Highway 20.

This development is in a county long known for its renewable energy dedication with existing hydro dams, wind, solar, and bio-gas.

The upper reservoir, Cat Creek Reservoir, is located on private land classified by USGS as high desert.

The generation modules are sited on private lands with only a few hundred feet of penstocks and powerhouse on Public lands.
Anderson Ranch Dam

construction complete 1950
Land use and project layout form cohesive elements in facility location, size, and function.

Siting provides for proficient use of the Trybrid© technology modules.
Anderson Ranch Reservoir
• 430,000 Acre-feet (AF)

Cat Creek Reservoir
• 100,000 AF
• 87,120 MWh of storage
• ~1,900-acre footprint
• Fully lined, no exfiltration/percolation
• ~1,300 AF evaporative losses annually will be reduced 55% by PV Floatovoltaics

Powerhouse Connection
• 840 ft. dynamic head
• ~2,800 ft. penstock length
CCEW Trybrid© Modules

PSH Powerhouse
• 720 MW nameplate
• 6 - 120 MW Voith ternary turbines
• 330 ft below surface

Above Ground Structure
• Enclose High Voltage transformers
• Substation building

Wind
• 110 MW

PV Solar
• 150 MWac
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<th><strong>ENERGY STORAGE</strong></th>
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<td><strong>PUMPED STORAGE HYDRO</strong></td>
<td>RAMP TO 100% OUTPUT IN &lt;30 SECONDS</td>
<td>720,000 KW</td>
<td>PATHWAY TO CAISO</td>
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<td><strong>VARIABLE RENEWABLE ENERGY RESOURCES</strong></td>
<td>NET BIOLOGICAL BENEFIT</td>
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<td>2 - 1000 MVA TRANSFORMERS RATTLE-CAT SUB</td>
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<td><strong>PUMPED HYDRO ENERGY STORAGE</strong></td>
<td>CONTINUOUS GENERATION Capabilities</td>
<td>CALIFORNIA OVERPRODUCTION OF VRE RESOURCES</td>
<td>IPCO/PAC LINES DUAL OWNERSHIP ACROSS IDAHO</td>
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<td><strong>EMP PROTECTED</strong></td>
<td>2.7 MILLION METRIC TONS CARBON OFFSET</td>
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<td>CURRENT 230 KV &amp; 500 KV IPCO &amp; PACIFICORP</td>
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<td>100,000 ACRE-FEET NEW WATER STORAGE</td>
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<td><strong>DUAL CIRCUIT 230 KV LINES TO SYSTEM-WIDE INTERTIE</strong></td>
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<td>FUTURE 500 KV GATEWAY WEST INTERTIE</td>
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<td><strong>IMPORTANT INTERTIE OF VARIOUS HV SYSTEMS</strong></td>
<td>SUSTAINABILITY- CCE STAKEHOLDERS BOARD</td>
<td>FIRM RENEWABLE SUPPLY</td>
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<td>MTN. HOME IDAHO</td>
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<td><strong>INTERTIES TO NUMEROUS 230 KV &amp; 500 KV LINES</strong></td>
<td>ONSITE STORAGE 121 HOURS AT RATED CAPACITY – 720 MW</td>
<td>BLACK START CAPABILITIES</td>
<td>6,000 MW OF TRANSMISSION CAPACITY</td>
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</table>
The Western transmission grid serves 38 balancing Authorities

From the time of the Hoover Dam back in 1931, generation facilities have produced power for the entire West.

The CCEW facility is no different and can extend its reach to anywhere in the West including California.

CCEW’s reach is enhanced by 6,000 MW of transmission grid capacity at its point of interconnection and with a path both to and from CAISO.
The South Fork of the Boise River drainage area encompasses approximately 970 square miles.

Around 2,000,000 AF of water goes unclaimed and is lost downstream to the Pacific over a 20-year period.

CCEW applied for a water right to some of this lost water without affecting any downstream uses or other water right holders.
By late summer, the character of the ranch area changes to high desert conditions, the official designation of the Little Camas Prairie.
Existing On-River Reservoirs in the Boise River system have a storage capacity of around 1,000,000 AF.

- Anderson Ranch Reservoir
- Arrowrock Reservoir
- Lucky Peak Reservoir

All upstream from the population centers of the Boise River Basin known as the Treasure Valley.
CCEW Continues the Tradition...

Clean Energy Jobs
1905 - Installed hydro turbines at Niagara Falls

1937 - Invented first pump turbine

Today - 250 pump turbines installed worldwide

Manufacturing in York, PA using American steel and American labor

“This project will be the most advanced large-scale, fully integrated energy and water storage project ever to be constructed in the U.S...” Stanley J. Kocon, President and CEO of Voith Hydro North America. (4/29/2021)
CCEW Policy Agenda

A 30% ITC for PSH/PHES is necessary, as are some changes in depreciation schedules.

A convertible credit where PSH can augment additional storage for other water uses would accelerate a needed expansion of water storage.