Sites Reservoir
Sites Reservoir is a generational opportunity to construct a multi-benefit water storage project that helps restore flexibility, reliability, and resiliency to our statewide water supply.
Our Strength is in Our Broad Statewide Participation

Diverse statewide representation of public agencies advancing Sites Reservoir

Participants include counties, cities, water and irrigation districts

Urban and Rural
Sacramento Valley
San Joaquin Valley
Bay Area
Southern California
Our Strength is in Our Broad Statewide Participation

Sacramento Valley
Carter Mutual Water Company
City of American Canyon
Colusa County
Colusa County Water Agency
Cortina Water District
Davis Water District
Dunnigan Water District
Glenn County
Glenn-Colusa Irrigation District
LaGrande Water District
Placer County Water Agency
Reclamation District 108
City of Roseville
Sacramento County Water Agency
City of Sacramento
Tehama-Colusa Canal Authority
Westside Water District
Western Canal Water District

Bay Area
Santa Clara Valley Water District
Zone 7 Water Agency

San Joaquin Valley
Wheeler Ridge-Maricopa Water Storage District

Southern California
Antelope Valley – East Kern Water Agency
Coachella Valley Water District
Desert Water Agency
Metropolitan Water District
San Bernardino Valley Municipal Water District
San Gorgonio Pass Water Agency
Santa Clarita Valley Water Agency
Rightsized to Meet Our Current and Future Water Supply Needs

Sites Reservoir has been designed and optimized to meet our water supply needs for today and in the future.

The Sites Project Authority conducted a rigorous Value Planning effort to review the project’s proposed operations and facilities to develop a project that is “right sized” for our investors and participants while still providing water supply reliability and enhancing the environment.

Rightsizing the reservoir was responsive to input from state and federal agencies, NGOs, elected officials, landowners and local communities.

The feedback we received through a robust outreach effort was critical to developing a reservoir that is the right size for both people and the environment.
1.5 million acre-feet

Utilizes the existing Glenn-Colusa Irrigation District and Tehama-Colusa Canal Authority canals to convey water to Sites Reservoir from the Sacramento River

Delivers water back to the Sacramento River through the Tehama-Colusa Canal and through the Colusa Basin Drain for participant deliveries and for the environment
Rightsized to Meet Our Current and Future Water Supply Needs

### Participant Demand
Participant water subscriptions allocated in the current participation agreement

Allocation of State of California water subscription is based on the **Proposition 1 water investment**
- Water for Delta Smelt
- Water for Refuges

### Release Capacity from Sites
The “rightsized” project can deliver water to meet the demands of our participants and California’s investment of water for the environment

Long term average ~240,000 AFY

<table>
<thead>
<tr>
<th>Member</th>
<th>Reservoir Participation (AFY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Water Agencies</td>
<td></td>
</tr>
<tr>
<td>North of Delta</td>
<td>52,142</td>
</tr>
<tr>
<td>South of Delta</td>
<td>140,750</td>
</tr>
<tr>
<td>Subtotal Public Water Agencies</td>
<td>192,892</td>
</tr>
<tr>
<td>State of CA</td>
<td>~ 40,000</td>
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<tr>
<td>Total Requirement</td>
<td>~230,000</td>
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</table>

<table>
<thead>
<tr>
<th>Year Type</th>
<th>1,000 cfs Release Capacity (AFY) to the Colusa Basin Drain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet</td>
<td>90 - 120</td>
</tr>
<tr>
<td>Above Normal</td>
<td>260 - 290</td>
</tr>
<tr>
<td>Below Normal</td>
<td>245 - 275</td>
</tr>
<tr>
<td>Dry</td>
<td>355 - 385</td>
</tr>
<tr>
<td>Critically Dry</td>
<td>210 - 240</td>
</tr>
</tbody>
</table>
Assumed Diversion and Operations Criteria

<table>
<thead>
<tr>
<th>Location</th>
<th>Criteria</th>
</tr>
</thead>
</table>
| Wilkins Slough Bypass Flow                    | 8,000 cfs April/May  
5,000 cfs all other times                                               |
| Fremont Weir Notch                            | Prioritize the Fremont Weir Notch, Yolo Bypass preferred alternative, flow over weir within 5% |
| Flows into the Sutter Bypass System           | No restriction due to flow over Moulton, Colusa, and Tisdale Weirs        |
| Freeport Bypass Flow                          | Modeled WaterFix Criteria (applied on a daily basis)  
Post-Pulse Protection (applied on a moving 7-day average)  
Post-Pulse (3 levels) = January–March  
Level 2 starts January 1  
Level 1 is initiated by the pulse trigger                                           |
| Net Delta Outflow Index (NDOI) Prior to Project Diversions | 44,500 cfs between March 1 and May 31                                    |
Assumed Release Criteria

Most releases occur in dry years for water supply and environmental benefits

Priority of releases assume the following:
- Provide water to project participants north and south of the delta
- Provide water to Cache Slough area via Yolo bypass
- Provide water for incremental Level 4 refuge deliveries
- Support Reclamation goals through exchanges

Deliveries to SWP contractors supplement Table A (start @ 85% allocation and more aggressive releases starting @ 65%)
The Value Planning process has resulted in a project that has a smaller footprint and operated in a different manner than originally designed.

Due to these changes the Authority will revise and recirculate its Draft EIR.

Work with landowners, tribes, stakeholders, NGOs, and local communities to develop a collaborative environmental review process.

It is essential that we build a project now that makes sense for all our participants – local, state, and federal.
### Rightsized to Meet Our Current and Future Water Supply Needs

<p>| | |</p>
<table>
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<tr>
<th></th>
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<tbody>
<tr>
<td><strong>Reservoir Size (MAF)</strong></td>
<td>1.5</td>
</tr>
<tr>
<td>Project Cost (2019$, billions)</td>
<td>$2.4 - $2.7</td>
</tr>
<tr>
<td>Contingency Cost (2019$, billions)</td>
<td>$0.6</td>
</tr>
<tr>
<td>Total Project Cost (2019$, billions)</td>
<td>$3.0 - $3.3</td>
</tr>
<tr>
<td>Annualized AFY release</td>
<td>240,000</td>
</tr>
<tr>
<td>Range of Annual Costs During Repayment Without WIFIA Loans (2020$, $/AF)</td>
<td>$650 - $710</td>
</tr>
<tr>
<td>Range of Annual Costs During Repayment With WIFIA Loans (2020$, $/AF)</td>
<td>$600 - $660</td>
</tr>
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</table>

The rightsized project is roughly $2 Billion less than the 2017 preferred alternative.

Cost savings primarily from the removal of the Delevan Diversion facility on the Sacramento River and the Delevan Pipeline.

Lowered the Annual Cost during repayment ($/AF).

Significant savings to participants with finance through a WIFIA government backed loan.
**Provides Statewide Benefits for Generations to Come**

**Sites Reservoir provides many multi-layered benefits**

<table>
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<tr>
<th>Benefit</th>
<th>Description</th>
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<tbody>
<tr>
<td>Off-stream Storage</td>
<td>Does not create a barrier to native fish migration</td>
</tr>
<tr>
<td>Federal and State Agencies Manage Environmental Water</td>
<td>Adaptable to current and future conditions and priorities</td>
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<tr>
<td>Local Leadership and Cooperation</td>
<td>Aligns with Sacramento Valley’s values and fosters regional and statewide collaboration</td>
</tr>
<tr>
<td>Cooperative Operation</td>
<td>Increases effectiveness and efficiency of existing water storage infrastructure</td>
</tr>
<tr>
<td>Adaptable to Climate Change</td>
<td>Contributes to system reliability and performance with climate change</td>
</tr>
<tr>
<td>Dry Year Water Supply</td>
<td>Reliable dry year water supply for California communities, farms and businesses</td>
</tr>
<tr>
<td>Recreational Opportunities</td>
<td>Provides northern Sacramento Valley with additional opportunities for recreation</td>
</tr>
<tr>
<td>Environmental Support</td>
<td>Provides environmental water in drier periods for native fish, and habitat for native species and birds</td>
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Sites Reservoir provides water dedicated to environmental use

A significant portion of the Sites Reservoir Project’s annual water supplies will be dedicated to environment uses:

- Preserve cold-water pool in Lake Shasta later into the summer months to support salmon development, spawning and rearing
- Provide a reliable supply of refuge water to improve Pacific Flyway habitat for migratory birds and other native species
- Provide water dedicated to help improve conditions for the Delta Smelt

Water dedicated for the environment provided by Sites Reservoir will be managed by state resources agency managers who will decide how, and when, this water would be used - creating a water asset for the state that does not currently exist.
## Possibilities of Environmental Water Uses

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Sites creates a resource that can be managed for the benefit of the species.

Water for the environment is managed by state resource agencies.

There is flexibility to manage these benefits each year.

The range of possibilities will be covered in the recirculated Draft EIR.

### Potential Beneficiary

- Level 4 refuge water
- Enhanced Delta Ecosystem
- Improve Survival of Anadromous Fish
Sites Reservoir provides regional flood protection benefits

Provides significant **regional flood protection benefits** for the Sacramento Valley

Will capture and store **flood flows** that would normally impact the community of **Maxwell** - protecting homes, business and farms

Will help to limit **“downstream” flooding issues** by capturing storm flows that sometimes overwhelm the regions flood control facilities

Provides Statewide Benefits for Generations to Come
Sites Reservoir will benefit the local and regional economy

Create hundreds of construction-related jobs during each year of the construction period, and long-term jobs related to operations.

Creates new recreation opportunities in the Sacramento Valley which adds to the region's economy.

Adding resiliency to the water supply will strengthen the statewide economy and business that rely on a reliable source of water for their operations – particularly agriculture.
We are On-Track to Deliver This Vital Project for the People of California

Key Milestones Through 2021

Meet eligibility requirements under Prop 1 (WSIP) in order to access the remainder of the $816 Million in funding

Recirculate Draft EIR for public comment, proactively engage stakeholders, develop responses to comments to support environmental feasibility determination

Complete Feasibility Report

Secure environmental permit certainty and draft permit applications

Update and refine cost estimate and affordability analysis

Develop Plan of Finance

Improve definition of SWP/CVP exchange, including Operations Plan

Enhance landowner, stakeholder & NGO engagement

Develop Operating Agreement Term Sheets with: DWR, USBR, TCCA, GCID, CBD Authority
Questions