San Diego Pumped Hydro

Will San Diego build a pumped hydro facility near a dam?
A partnership between the city of San Diego and the San Diego County Water Authority wants to build a pumped hydro facility near the dam. San Diego's Toni Atkins advocated for adding a provision to Assembly Bill 1373. Opponents of the project are upset and are worried about possible damage to several preserves near the proposed project.

Will San Diego build a pumped hydro facility near San Vicente Reservoir?
An aerial view of the San Vicente Reservoir. A partnership between the city of San Diego and the San Diego County Water Authority wants to build a pumped hydro facilitynear the dam. San Diego's Toni Atkins advocated for adding a provision to Assembly Bill 1373.

What is pumped hydro?
Pumped hydro is a flexible technology that can respond to various electricity demands. It consists of reservoir at higher elevation (upper storage) and a reservoir at lower elevation (lower storage). When the demand for electricity is low,or when renewable sources are abundant,water is pumped to the upper storage. It is then stored.

Will a pumped hydro project damage San Vicente Highlands Preserve?
The group worries that developing the pumped hydro project will damage the state's San Vicente Highlands Preserve and the county's 3,000-acre Boulder Oaks Preserve and says other energy storage technologies are less expensive.

Does San Diego have energy storage facilities?
The city of San Diego and the San Diego County Water Authority have partnered on the San Vicente Energy Storage Facility Project,which looks to provide 500 megawatts and an estimated 4,000 megawatt-hours of long-duration stored energy to California's electric grid. That's enough to power about 135,000 households.

How did the emergency & carryover storage project impact San Diego County?
To mitigate construction impacts from the Emergency &Carryover Storage Project,the Water Authority funded the acquisition of nearly 600 acres of upland habitat areas and created or enhanced nearly 40 acres of wetland habitatin San Diego County. Construction of the facilities began in 2005,and operations began in 2012.

It would store 4,000 megawatt-hours per day (500 megawatts of capacity for eight hours), enough energy for about 135,000 households. The development of the project is key to achieving California"s 100% zero-carbon electricity mandate by 2045 and the need for long-term storage assets to support that goal.

The Water Authority and City of San Diego are evaluating the feasibility of developing a pumped storage

energy project at the City of San Diego"s San Vicente Reservoir near Lakeside. It would store 4,000 megawatt-hours per day of energy (500 megawatts of capacity for eight hours), enough energy for about 135,000 households.

The Water Authority and City of San Diego continue to evaluate a pumped storage hydro facility to be located at San Diego"s San Vicente Reservoir. The energy benefit is approximately 500 megawatts for an eight-hour period. The feasibility study was initiated in 2021, and if approved the federal and state regulatory and licensing ...

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The San Diego County Water Authority wants to keep the lights on, even when the Sun goes down. It plans to use San Vicente Reservoir to store solar power energy in so-called water batteries to maximize the city"s renewable energy potential, NPR reports. Cities across California have an abundance of sunny days, which is perfect for providing renewable ...

One of the most promising pumped energy storage solutions in California is the San Vicente Energy Storage Facility under consideration in San Diego County. As proposed, the potential project could store 4,000 megawatt-hours per day of energy (500 megawatts of ...

Nine years after first proposing the San Vicente Energy Storage Facility, the city of San Diego and the San Diego County Water Authority announced in January that they were in talks with...

Pumped Storage Hydro. San Diego to Develop 500 MW Hydropower Energy Storage Project . As the owners" representative, Black & Veatch will help evaluate proposals, select the full service team and ...

A Request for Proposals (RFP) has been issued for a 500MW pumped hydro energy storage project at a reservoir in California by the San Diego County Water Authority. The authority supports water supplies for more than ...

CPUC Technical Workshop: The state of Pumped Hydro January 16, 2014 . Grid-Scale Storage Technologies o safe o inexpensive o made from abundant materials o high cycle-life o high round-trip efficiency o Lead Acid (PbA) o Sodium Sulfur (NaS) o Flow (ZnBr, VRB) o Compressed air energy storage (CAES) o Pumped hydroelectric storage (PHS) Energy Stored on Invested . ...

Now the San Diego County Water Authority and the city of San Diego are looking for a private partner to build and operate a pumped energy storage facility at the San Vicente Reservoir. The Water Authority and the city have issued a request for proposal to find a suitable team to develop one of the state"s largest "pumped hydro" projects that would add ...

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Proposed 500-MW San Diego pumped storage project would bring significant value to a California grid that is starving for long-duration storage

The Water Authority and City of San Diego continue to evaluate a pumped storage hydro facility to be located at San Diego"s San Vicente Reservoir. The energy benefit ...

The Water Authority and the City of San Diego are exploring a potential pumped storage energy project at the San Vicente Reservoir that could store 4,000 megawatt-hours per day of energy, or 500 megawatts of capacity ...

A wide-ranging bill at the State Capitol aimed at boosting renewable energy sources includes a provision that could help develop a proposed pumped hydroelectric facility at the San Vicente ...

Pumped hydro storage is highly cost competitive for large-scale energy storage, according to a report published by the San Diego County Water Authority. The report models a pumped hydro project as ...

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