



# Can the San Vicente reservoir store energy

Could solar power be stored in San Diego's San Vicente Reservoir?

Pumping water into a smaller reservoir in the surrounding mountains could store excess solar power until it's needed, when the sun sets. The San Diego County Water Authority has an unusual plan to use the city's scenic San Vicente Reservoir to store solar power so it's available after sunset.

Is San Vicente pumped Energy Storage a water battery?

Neena Kuzmich, deputy director of engineering for the San Diego County Water Authority, has been working on plans for pumped energy storage at the San Vicente reservoir. "It's a water battery!" says Neena Kuzmich, Deputy Director of Engineering for the water authority.

How a reservoir can be used to store energy?

A reservoir made in a porous and permeable underground formation can be used to store Natural Gas, CO<sub>2</sub>, Air, Hydrogen or even Thermal Energy. Storage of an energy carrying fluid requires a phase of compression and injection in gaseous state into the reservoir: the free-phase gas pushes the formation water away from the injection wells.

Can a geological reservoir be used as a storage technology?

After identification of the existing geological reservoirs, the feasibility of adopting a specific storage technology will be a function of a techno-economic analysis. Understanding which factors will influence more this techno-economic analysis will vary with the storage technology.

What should be considered when evaluating large-scale underground energy storage reservoirs?

Thermal and thermodynamics properties and behaviour of the rock should also be considered as part of the studies developed when evaluating large-scale underground energy storage reservoirs.

How do I choose the best underground reservoir technology?

Choosing what technology best fits each type of underground reservoir depends on many factors, such as the purpose of the energy storage facility, the geology of the reservoir in question, the efficiency of the technology, and also the economics of the pair reservoir/technology.



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