

USC Viterbi researchers want to convert idle oil and gas wells into much-needed storage for sustainable energy, making California's blackouts a thing of the past

Geo2Watts is transforming abandoned oil and gas wells into renewable energy assets using solar power and sand. In this exclusive Q&A, co-founders Phil Cruver, Bill Bartling, and Ken Murray share their ...

Learn how off-grid solar power solutions are transforming oil and gas operations, reducing costs, and improving environmental impact.

The US flow battery startup Quino Energy aims to repurpose old oil tanks for low cost, long duration clean energy storage.

Geo2Watts is transforming abandoned oil and gas wells into ...

The Borehole Battery uses a concentrating solar power parabolic trough to heat sand in a closed-loop pipe, which extends into an idle oil well borehole, storing heat at about 200C.

With over 1.8 million idle oil wells in North America alone, the potential for transformation is immense. By converting these wells into Gravity Energy Batteries, we aim to create over 132GWh of storage ...

Ample sunlight and tens of thousands of abandoned oil wells and experienced oilfield workers have made Kern County the focus of a new battery-storage technology.

This study evaluates the technical and economic performance of a hybrid power system for an offshore oil facility using the Hybrid Optimization of Multiple Energy Resources (HOMER) software. The ...

Much of the utility-scale solar generation capacity additions will come online in Texas. We expect that solar electricity generation supplied to the grid managed by the Electric Reliability Council of ...

Salgenx unveils a groundbreaking solution that converts oil wells into grid-scale saltwater batteries using chlorine redox flow technology, enabling solar energy storage and nighttime grid support with high efficiency ...

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