



# Underground garage energy storage project





## Overview

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Enerdrape, a Swiss startup, is installing energy-harvesting panels in underground parking garages and other concrete spaces to provide heating and cooling for buildings without drilling. To create energy storage that addresses Li-ion limitations, the project team has identified an unlikely source: inactive upstream oil and gas (O&G) wells. NREL will repurpose inactive O&G wells to create long-term, inexpensive energy storage. Team member Renewell Energy has invented a method of. But what if these concrete giants could morph into 24/7 power plants?

Underground parking lot energy storage is quietly rewriting urban energy economics, with distributed photovoltaic systems and vehicle-to-grid tech achieving 83% round-trip efficiency in recent trials [2]. Underground energy storage projects are innovative systems designed to store energy beneath the Earth's surface, utilizing various geological formations.



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### [Underground Energy Storage: A Renewable Solution](#)

Our project, as featured in the Los Angeles Times, involves creating the world's largest underground energy storage facility. By compressing air underground, we store excess renewable electricity in ...

### Energy Storage Is Going Underground

Novel energy storage systems are in the news this week, from underground compressed air in California to raising and lowering sand.

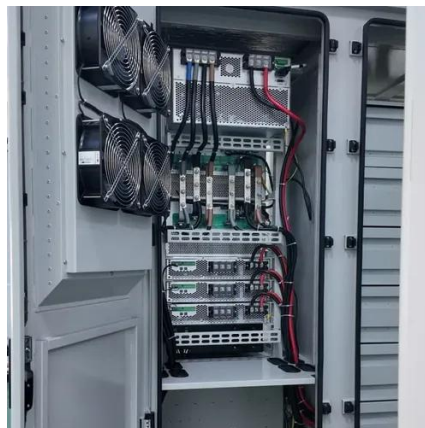


### [Underground Parking Energy Storage: The Silent Game-Changer in ...](#)

we've all circled a dimly lit parking garage while our phones die and EVs hunt for chargers. But what if these concrete giants could morph into 24/7 power plants?

### [Going Beneath the Grid with Underground Energy Storage](#)

The idea of storing compressed air underground as a renewable energy resource is not new. In fact, two plants in the world currently operate on this concept: the McIntosh CAES facility in Alabama and the ...



### [What is an underground energy storage project? , NenPower](#)

Underground energy storage works by utilizing geological formations to store surplus energy, which can be released back into the grid during periods of high demand. This method allows ...



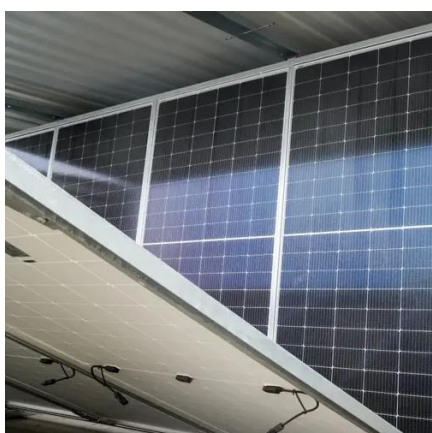
### [Swiss greentech startup turns underground space into energy](#)

Enerdrape, a Swiss startup, is installing energy-harvesting panels in underground parking garages and other concrete spaces to provide heating and cooling for buildings without drilling.



### [Overview of Large-Scale Underground Energy Storage Technologies for](#)

There are several technologies which can be viable options for underground energy storage, as well as several types of underground reservoirs can be considered.



### [Massive underground air-battery project lands \\$1.76B DOE award](#)



Compressed-air energy storage, a decades-old but rarely deployed technology that can store massive amounts of energy underground, could soon see a modern rebirth in California's ...



### [A Startup Is Tapping Underground Parking Garages for Clean Energy](#)

As cities look to harness zero-carbon power and heating, Enerdrape is offering a novel no-drill solution for geothermal energy. The heat held in New York's underground labyrinth of



### [Repurposing Infrastructure for Gravity Storage using Underground](#)

Team member Renewell Energy has invented a method of underground energy storage called Gravity Wells that will give a second life to ~\$4 trillion worth of inactive upstream O&G ...





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