

What is Underground Sun Storage 2030?

The Underground Sun Storage 2030 project takes the initiative a step further by building on these findings. Experiments in the laboratory have shown that the hydrogen content can be increased to 100%. We are now carrying out a field trial to gain new insights into the storage of hydrogen produced from solar and wind power in former gas reservoirs.

What is the underground sun conversion project?

Building on the research conducted so far, for the first time the Underground Sun Conversion project will enable production of natural gas directly within a gas reservoir using a microbiological process initiated specifically for this purpose by RAG, and to store it in the same reservoir.

What is underground sun conversion (USC)?

The aim of the project is to take RAG Austria AG's patented "Underground Sun Conversion" (USC) technology (which involves methanation of CO<sub>2</sub> and green H<sub>2</sub>) to the next level, and to design services based on it. Field tests are planned at RAG's research facility in Pilsbach (Upper Austria).

Underground Sun Storage - Wind- und Sonnenenergie unterirdisch speichern Sonnenenergie gewinnen, speichern und bereitstellen: Diese zukunftsweisende Form der Energieproduktion und -speicherung testet die RAG derzeit in einem ...

Underground Sun Storage 2030 is a flagship project that is researching a solution for large-scale seasonal storage of renewable energy. The renewable generated energy will be stored in the form of pure hydrogen (H<sub>2</sub>) in depleted natural gas ...

„Underground Sun Storage 2030" Launched in March 2021, this unique research project - the only one of its kind in the world - is aimed at finding ways to convert renewable solar energy into pure hydrogen using climate-neutral electrolysis ...

In simple terms, Underground Sun Storage 2030 is about using electrolysis to convert solar energy into pure hydrogen in a climate-neutral way during the summer months and then storing it in depleted natural gas reservoirs during ...

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