

# Solar thermochemical energy storage device



## Overview

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Molecular solar thermal (MOST) systems, as a promising alternative energy solution, typically store photon energy as chemical energy in molecules via processes such as photoisomerization or cycloaddition reactions. "Solar Fuels" are the special case where the endothermic reaction releases oxygen that can be released into the atmosphere and later re-absorbed during combustion / oxidation. A promising approach for solar energy harvesting and storage is the concept of molecular solar thermal energy storage (MOST) systems also known as solar thermal fuels (STF).

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### **Status and challenges for molecular solar thermal**

Molecular solar thermal energy storage systems (MOST) offer emission-free energy storage where solar power is stored via valence isomerization in molecular



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## Solar Energy

There are two main types of solar energy technologies-photovoltaics (PV) and concentrating solar-thermal power (CSP). On this page you'll find resources to learn what solar

### Solar explained

People have used the sun's rays (solar radiation) for thousands of years for warmth and for drying food. Over time, we've developed technologies to capture solar energy for heat and to convert it into



### [Solar system , Definition, Planets, Diagram, Videos, & Facts , Britannica](#)

Solar system, assemblage consisting of the Sun and those bodies orbiting it: 8 planets with more than 400 known planetary satellites; many asteroids, some with their own satellites;

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### [Review of Solar Thermochemical Heat Storage Equipment and](#)

As a low-cost, efficient, and well-integrated heat storage system, thermochemical heat storage systems can replace molten salt heat storage systems, which is the key to maximizing the

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## Solar power

Solar power, also known as solar electricity, is the conversion of energy from sunlight into electricity, either directly using photovoltaics (PV) or indirectly using concentrated solar power.



## [Solar thermochemical energy storage: lessons from 40 years of](#)

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