

OverviewSolar thermal reactorsComparison between CSP and other electricity sourcesHistoryCurrent technologyCSP with thermal energy storageDeployment around the worldCostCSP has other uses than electricity. Researchers are investigating solar thermal reactors for the production of solar fuels, making solar a fully transportable form of energy in the future. These researchers use the solar heat of CSP as a catalyst for thermochemistry to break apart molecules of H<sub>2</sub>O to create hydrogen (H<sub>2</sub>) from solar energy with no carbon emissions. By splitting both H<sub>2</sub>O and CO<sub>2</sub>, other much-used hydrocarbons - for example, the jet fuel used to fly commercia...

In a concentrating solar power (CSP) system, the sun's rays are reflected onto a receiver, which creates heat that is used to generate electricity that can be used immediately or stored for later use. This enables CSP systems to be flexible, ...

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