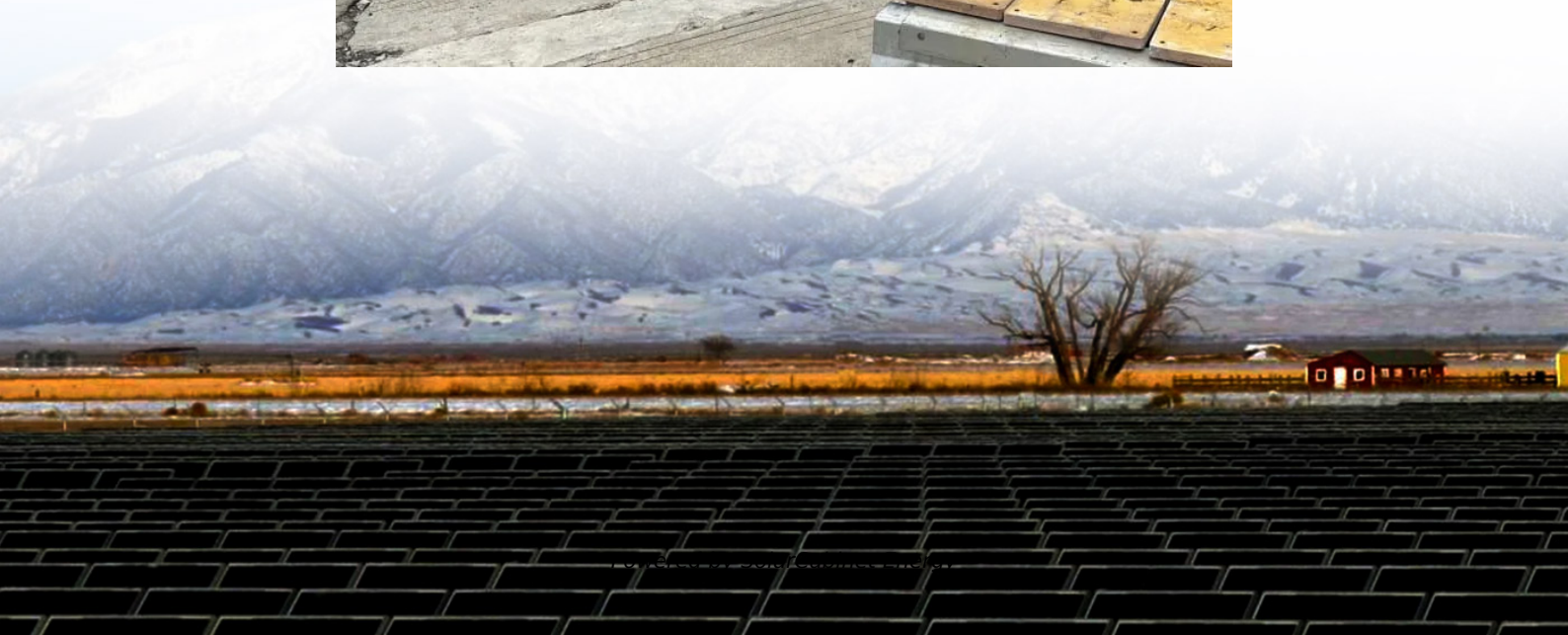


French high-temperature solar system





Overview

The Odeillo solar furnace is the world's largest solar furnace. It is situated in Font-Romeu-Odeillo-Via, in the department of Pyrénées-Orientales, in the south of France. It is 48 metres (157 ft) high and 54 metres (177 ft) wide, and includes 63 heliostats. It was built between 1962 and 1968, started operating in 1969, and has a power of one megawatt. It serves as a science research site studying ma. GeographyIt is situated in , in the department of , region of , in south of . The site was chosen because: • the length and the quality of sunshine with direct light (.

The principle used is the concentration of rays by reflecting mirrors (9,600 of them). The solar rays are picked up by a first set of steerable mirrors located on the slope, and then sent to a second series of mirrors (the concentrat.



French high-temperature solar system



[Concentrating Solar Thermal for High-Temperature Solar Process Heat](#)

The EU-supported Solpart project, coordinated by the French-based CNRS public research organisation, is investigating the deployment of high-temperature solar-heated reactors for the ...

[A New Heat Transfer Fluid for Concentrating Solar Systems: Particle](#)

Solid particle solar receivers associated with solar tower concentrating systems offer very interesting options for high temperature and high efficiency power cycles, thermal storage ...



[Solar furnace - Knowledge and References - Taylor & Francis](#)

A solar furnace is a structure that captures sunlight and concentrates it to produce high temperatures, typically for industrial purposes. It is used to shorten sintering times and reduce ...

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