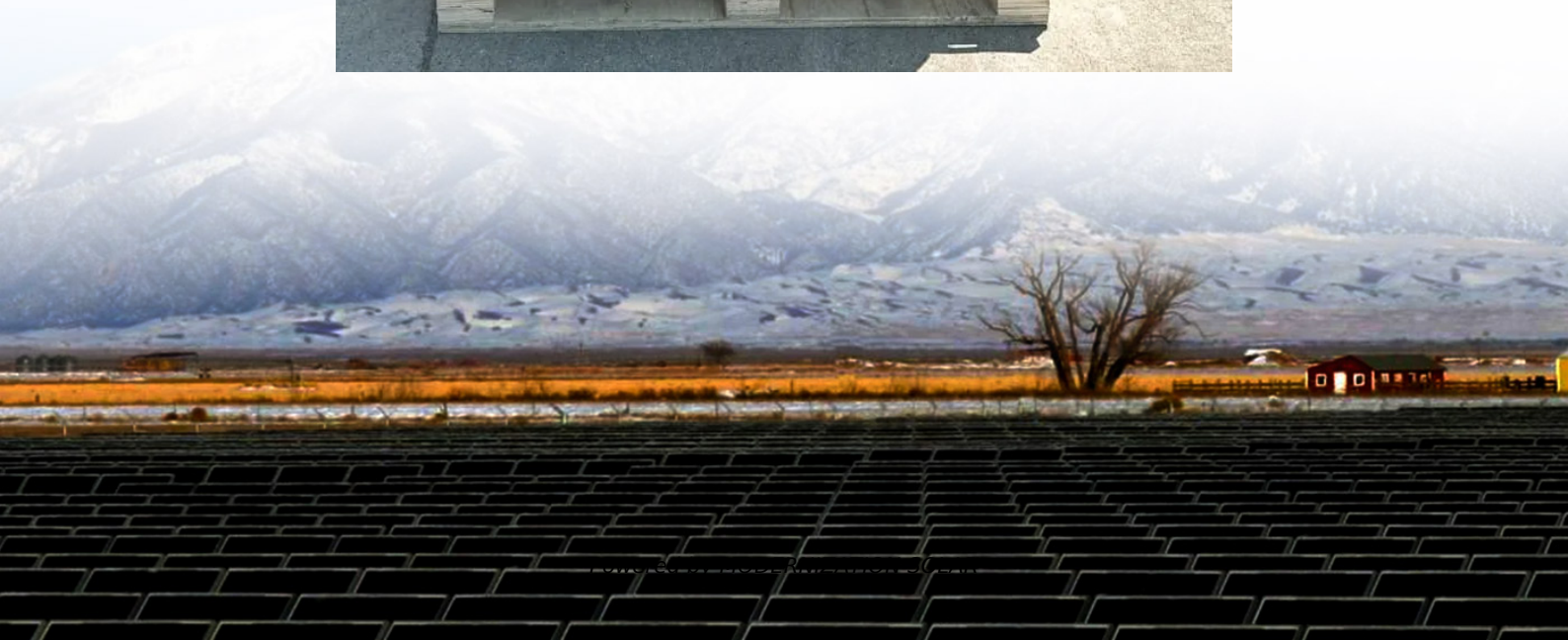


# **Solar energy circulation system set up**





## Overview

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What is a forced circulation solar system?

A forced circulation solar system is a solar thermal installation in which water circulates within the circuit driven by a pump. Unlike solar installations with a thermosiphon, this system does not move hot water to the highest point of the closed circuit, but rather makes it go down from the solar collectors to where the storage tank is located.

How does a solar energy system work?

The energy supply for space heating and domestic hot water is performed by two pairs of distribution pipes using the heating water as the heat transfer medium within the whole heating network. Figure 3.26. Solar supported district heating network with direct interconnection of a central solar thermal system.

What are solar thermal energy installations with forced circulation?

Solar thermal energy installations with forced circulation have the following elements: Solar collectors are responsible for transforming solar radiation into thermal energy.

How do solar thermal systems work?

In these solar thermal systems, the water that circulates between the solar collectors and the accumulator cannot do so by natural convection since the hottest water is already at its highest point. To do this, you will need a conventional water pump and, therefore, an external electrical power source.



## Solar energy circulation system set up



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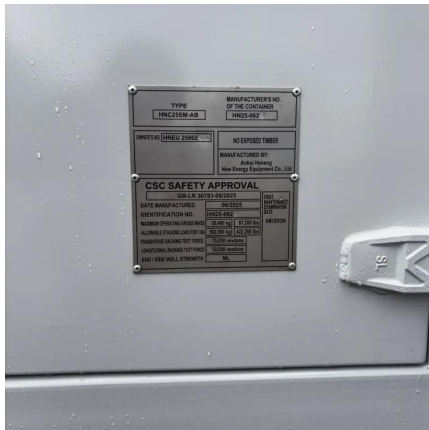
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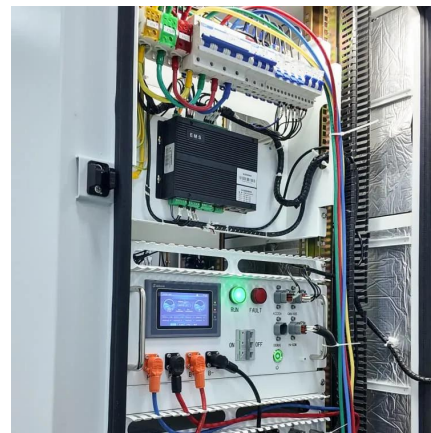


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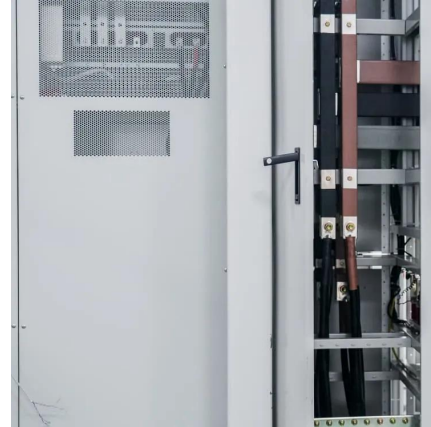
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