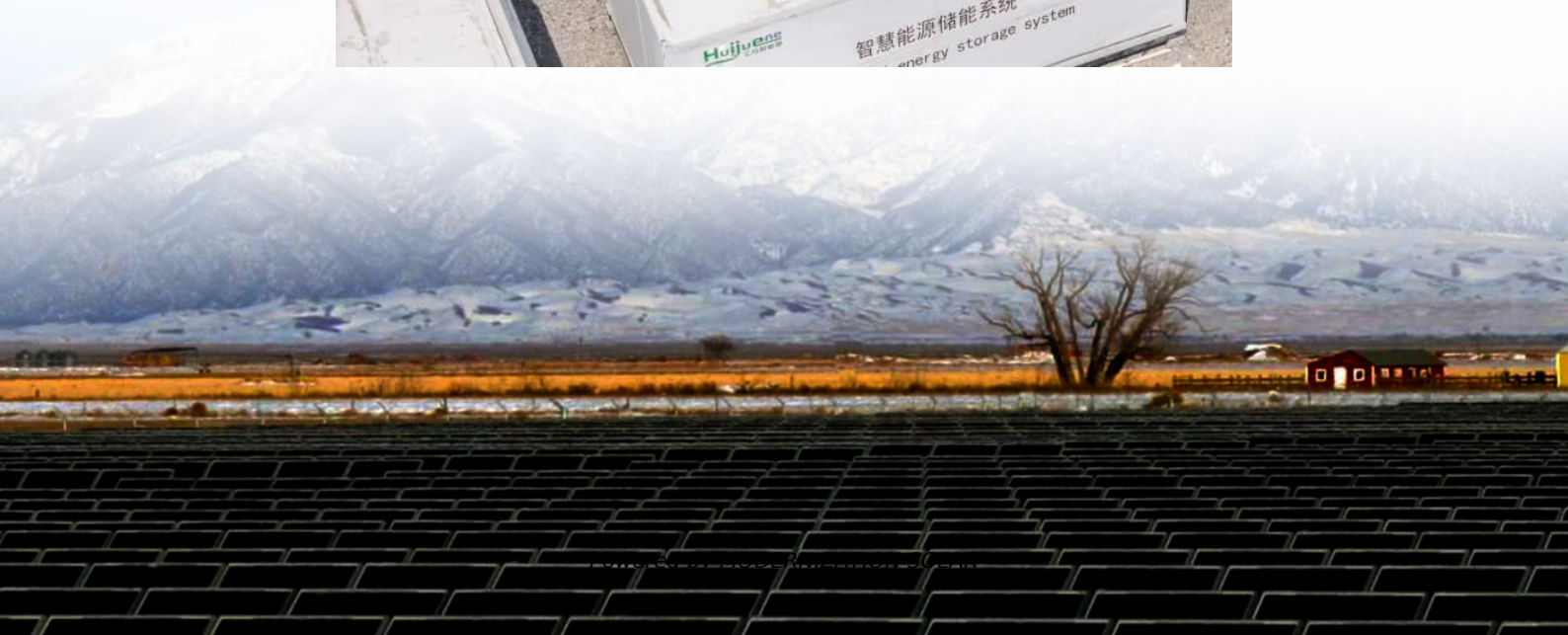


Solar cooling water pumps are hot and cold





Overview

Do solar water heating systems respond to solar radiation?

By comparing the results of the solar water heating system with buffer, attained by El-Sharkawy et al. in and Shalaby et al. in , with the results of SWH systems 2, 3 and 4, a good agreement can be observed in the response of the outlet water temperature with the solar radiation.

What is a solar water heating system 2?

Solar water heating system 2 SWH system 2, shown in Fig. 1b, consists of a solar collector, a storage tank, a mixing chamber, two variable flow pumps, and one proportional valve.

Does a closed-loop solar system perform better than an open-loop system?

This confirms the superiority of the closed-loop system performance over the open-loop system performance. Furthermore, the results of this study show that the optimal SWH system configuration depends on the dominant nature of the solar radiation in the region at which the SWH system is installed. 1. Introduction.

How much energy does a closed-loop solar system consume?

For the cloudy sky solar radiation condition, the table shows that the pumps in the closed-loop system consumed 23%, 88%, 52%, and 58% of energy less than the pumps in SWH open-loop system 1, 2, 3, and 4, respectively. This confirms the superiority of the closed-loop system over the open-loop system. Table 4.



Solar cooling water pumps are hot and cold

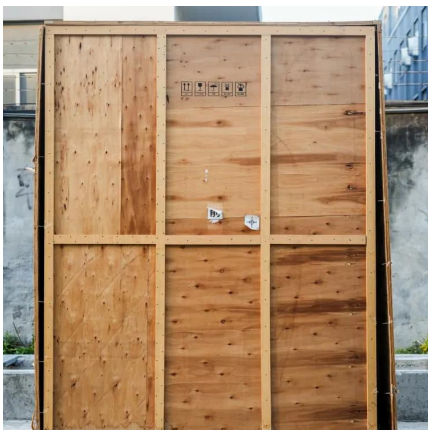


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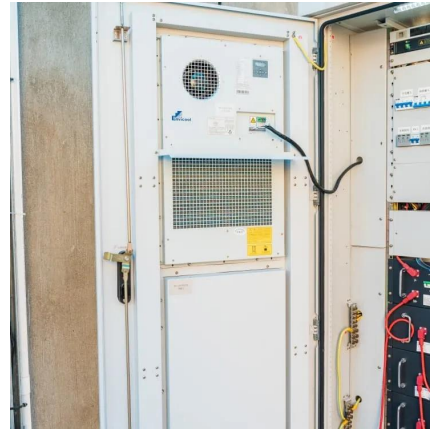
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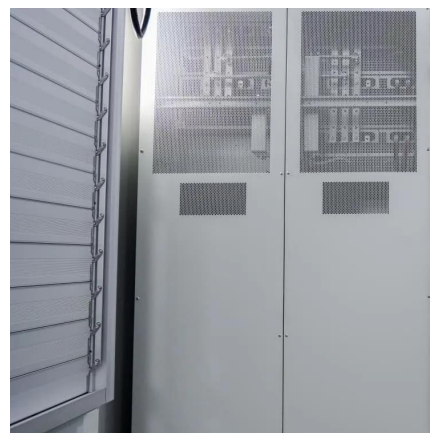
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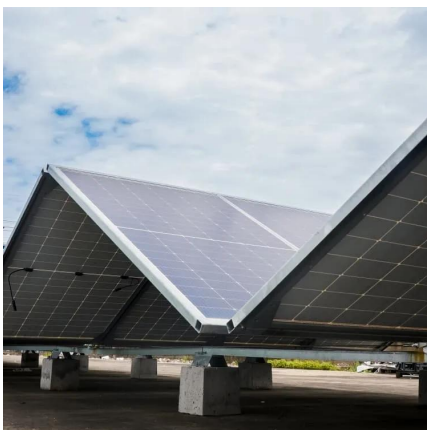
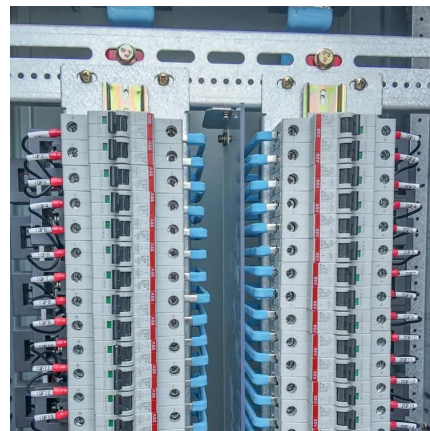


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