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Performance Evaluation of Pyramidal Slope Solar Still Integrated with PCM Thermal Storage

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Abstract:The pyramidal slope solar still is designed with thermal storage unit to increase the production rate of desalinated water. The paraffin wax is used as a storage material. The performance test is conducted for three days without and with phase change material (PCM). The experimental results observed that the still productivity yield increases due to maximum radiant energy absorbed by the pyramidal slope and with PCM. The increased efficiency of desalinated water by using the paraffin as thermal energy storage material is 9.908%.

Keywords: Pyramidal slope, Solar still, Paraffin storage.

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