

Can swimming pools store thermal energy for heating the water?

Application of swimming pools for storing thermal energy for heating the water is discussed in several studies,. Ice slurry is a suitable media for cool storage as the phase change between ice and water can provide a significant latent energy for cooling .

What heating technologies are used for outdoor swimming pools?

The active heating technologies used for outdoor swimming pools include solar collector, heat pump, PCM storage, geothermal energy, biomass heater, and waste heat recovery technologies. A discussion is presented on the practical and possible heating techniques for swimming pool applications.

How much energy does a swimming pool store?

This is around three times the amount of energy a standard swimming pool can store (3500 kWh t). During the summer, some of the cooling is generated directly from a conventional air-conditioning system using daytime solar generation.

What are the main components of a swimming pool thermal energy storage system?

Main components of a Swimming pool thermal energy storage system . Ice slurry storage has been selected for this system because it increases the heat transfer, as ice is not built up in the heat exchanger, which reduces the investment cost for freezing the water in the pool.

Can a swimming pool be used as a cold energy storage system?

Hunt et al. investigated the use of swimming pools as a long-term cold energy storage system, in which a small building can store solar energy for cooling purposes in a yearly cycle by filling the pool with ice slurry in winter and using that ice to cool the house in the summer.

What technologies are used in indoor swimming pools?

Then, different passive and active technologies are summarized. The active heating technologies used for indoor swimming pools include solar collector, heat pump, waste heat recovery, geothermal energy, and congregation technologies.

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DOI: 10.1016/J.ENCONMAN.2020.113796 Corpus ID: 234318769; Swimming pool thermal energy storage, an alternative for distributed cooling energy storage @article{Hunt2021SwimmingPT, title={Swimming pool thermal energy storage, an alternative for distributed cooling energy storage}, author={Julian David Hunt and



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Smith CC, Löf G, Jones R (1994). Measurement and analysis of evaporation from an inactive outdoor swimming pool. Solar Energy, 53: 3-7. Google Scholar Somwanshi A, Tiwari AK, Sodha MS (2013). Feasibility of earth heat storage for all weather conditioning of open swimming pool water. Energy Conversion and Management, 68: 89-95.

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