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Novel and Ancient Technologies for Heating and Cooling Buildings

Strategies and Solutions



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The building thermal function is more important to provide improved comfort in the buildings and also economic development in this area. To supply domestic hot water and space heating, water must be simultaneously available at two different temperature levels. Cold water temperature, close to that of the atmosphere, and hot water between 50 and 60 C. An interesting feature of the preparation of hot water is the small variation of requirements during the year, unlike that to heating. The preparation of hot water is one of the preferred applications of solar energy in the building for several reasons. This study included concentrating solar collector in which optical fibers were used to transport the energy to the storage tank. Another technology was introduced and developed for heating and cooling buildings in the desert involving an existing ancient irrigation system called Fougara.

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