

DOI: 10.1016/j.ijhydene.2022.10.125 Corpus ID: 253364201; Meeting the electricity demand for the heating of greenhouses with hydrogen: Solar photovoltaic-hydrogen-heat pump system ...

Water and energy are becoming more and more important in agriculture, urban areas and for the growing population worldwide, particularly in developing countries. To provide access to water it is necessary to use ...

Nowadays, solar power is a major contributor to the world's electrical energy supply by generating electrical energy directly from solar cells or through water storage, which ...

performed energy modeling of a greenhouse covered with translucent PV, where the PV system transmits a portion of daylight and provides some shading and solar power generation. With ...

The integration of energy storage systems with solar energy plays a vital role in maximizing its utilization and overcoming the intermittent nature of solar power generation. Energy storage technologies enable the ...

A. Chadly et al. [85] explored the use of lithium-ion batteries and fuel cells as energy storage units in RE systems, while Amine Allouhi [86] analyzed the economic viability ...

The power grid and energy storage in Figure 7 (for winter months of February and March) and Figure 8 (for summer months August and September) represent the power and energy variables for the time-line ...

The coldest day was December 27, while the warmest day was August 6. On the warmest day, the PV generation and the heat pump load peaked during the middle of the day. Similarly, both ...

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