

The El Paso salinity gradient solar pond, initiated in 1983, has been in operation since 1985. Through 16 years of research and operation, the El Paso Solar Pond has successfully demonstrated...

This research presented the design and performance evaluation of a floating solar photovoltaic system integrated with aquaculture ponds, with a specific case study based in the ...

By providing a detailed analysis of the current trends and future research directions, this paper seeks to contribute to the ongoing efforts to improve these systems, exploring various approaches to increase ...

This study evaluated the design and performance of an improved 3.5 MW floating photovoltaic (PV) power generation system consisting of fiber-reinforced polymer (FRP) members ...

Several researchers have explored the possibility of using organic Rankine cycle and air turbine for efficient conversion of thermal energy of solar pond into electrical energy. This paper reviews various ...

This work presents an analysis of solar pond electrical power generation ...

This study assesses the impact of implementing a floating solar photovoltaic system (FSPV) on the Turgutlu irrigation pond in Sakarya, Turkey, aiming to reduce energy expenses in agricultural ...

This work presents an analysis of solar pond electrical power generation systems, focusing on the unique climate of Jordan and employing Refrigerant 134a as a working fluid. The study develops a ...

With the integration of salt gradient solar pond hybrid systems, a maximum lower convective zone (LCZ) temperature of 90 °C, more than 50 % energy/exergy efficiency, and power ...

The review indicates that developing of zero-power heat extraction technologies and improving thermal efficiency of heat-to-power conversion unit are crucial for enhancing the ...

In the last decade, the potential of solar pond power plants (SPPP) based on thermoelectric generators (TEGs) has been explored. A review of various studies in this direction is ...

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