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A photovoltaic-thermal (PVT) collector is a solar-based micro-cogeneration system which generates simultaneously heat and power for buildings. The novelty of this paper is to conduct energy and exergy analysis on PVT collector performance under two different European climate conditions. The performance of the PVT collector is compared to a photovoltaic (PV) panel. Finally, the PVT design is ...

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In this study, comprehensive energy and exergy analyses of a geothermal heat pump with horizontal ground heat exchanger are performed and validated. In this paper, more viewpoints are considered to modeling and optimization of the system. The thermoeconomic optimization is done and optimum values of design parameters are calculated.

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Abstract. Energy-exergy analysis and parameter design optimization of the KCS-11 solar system with an auxiliary superheater are studied in low-grade thermal energy conversion (LTEC). Firstly, from a thermodynamics point of view, the corresponding calculation model is built to solve the system state points as well as the exergy input/output/loss for each system component.

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Uses of Exergy in Systems Engineering

In this study, experimental investigations and exergy analysis on shell and helically coiled tube heat exchanger are carried out for free convection heat transfer. The measured data are totally optimised utilizing thermodynamics rules in which exergy study is performed to investigate the thermal performance of the helical system under different operating conditions.

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Highlights. Performance analytical function of ORC is derived and optimized. Thermal and exergy efficiencies at maximum net power output are given as reference. Ammonia is a good choice for ORC utilized in OTEC from net power output viewpoint. Heat exchanger performance is the choke point for larger scale OTEC.

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