

model and exploit the inherent biogas-solar-wind energy couplings among electricity, gas and heat flows. Furthermore, a dis- ... and benchmarked on different scaled multi-microgrid system over a 24-hour scheduling horizon. Comparative results demon- ... sified energy services such as electricity, heating, and lighting [12],[13]. In [14], the ...

The rapid expansion of international trade has conferred substantial significance upon maritime logistics. Ports worldwide oversee approximately 80% of global trade in terms of volume and 70% in terms of value (Gutierrez-Romero et al., 2019) the pursuit of highly efficient ship operations and services, a considerable energy demand arises, subsequently leading to ...

With PV energy as the main power supply, an integrated complementary power supply system consisting of wind, hydro, thermal and other power sources is added to provide integrated solution of multi-energy complementary with wind, ...

A multi-energy complementary system including solar energy, multi-source heat pump, biomass energy, and wind energy is utilized commonly in cooling and heating [4-6], seawater desalination [7], material processing [8], hydrogen production [9], and power generation [10]. Daqing area is rich in solar energy resources.

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Although solar power is packed with potential, prices are kept impractically high because output drops to zero after sundown. But new innovations in solar energy storage, including molten salt energy storage and ...

Numerous studies have been conducted on MCIES planning. Ren et al. [6] developed an optimization model with the objectives of energy, environment and economic benefits to optimize the equipment capacity of a combined cooling heating and power (CCHP) system coupled with biomass biogas, geothermal energy and solar energy. Wang et al. [7] ...

The geometric mean indicator through the multi-scenario approach identified the MES configuration most suitable for all considered scenarios (levelized cost of energy 0.21 \$/kW h (within the interval 0.178-0.275), investment costs 294 289 \$(43 573-535 439), CO<sub>2</sub> emission 43 008 kg/year (3069-118 542), and unmet load

3262 kW h/year (0-24 044). Furthermore, for ...

Identifying the primary sources of exergy destruction is a powerful method for promoting the high-efficiency operation of multi-energy supply systems. Advanced exergy analysis identifies avoidable parts of the destruction and discovers interactions between subsystems of a multi-energy complementary coupled system to explore the potential for system improvement.

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