

Integration of the hydrogen energy vector with the electric power system is typically done through electrolyzers - devices that use electric current to decompose water into hydrogen and ...

This paper studies the long-term energy management of a microgrid coordinating hybrid hydrogen-battery energy storage. We develop an approximate semi-empirical hydrogen storage ...

A hybrid electric propulsion system with a power switching technique is tested in flights of long endurance unmanned aerial vehicle, interchanging power supply between fuel and solar cell ...

A hybrid renewable energy system, including photovoltaic (PV) plant, wind farm, concentrated solar power (CSP) plant, battery, electric heater, and bidirectional inverter, is proposed. ...

This study models the energy management of a solar-hydrogen microgrid as a two-stage stochastic program. The coordination of BEV charging/discharging, hydrogen production, and ...

The proposed system is a solar-powered smart microgrid equipped with a hydrogen-based energy storage system. It consists of a photovoltaic (PV) array, an electrolyzer, a hydrogen storage ...

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A hydrogen energy storage system was designed, constructed, and operated to power zero-carbon pumping units, integrating traditional energy sources, renewable energy, and hydrogen ...

This proposed study focuses on an intelligent energy management system for a hydrogen-based microgrid that includes photovoltaic (PV) panels, wind turbines (WTs), fuel cells, and ...

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In this regard, this article introduces the optimal scheduling for an EMS model for a hydrogen production system integrated with a photovoltaic (PV) system and a battery energy storage ...



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Solar hydrogen production has attracted widespread attention due to its cleanliness, safety, and potential climate mitigation effects. This is the first paper that reviews various solar ...



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