Microgrid and photovoltaic heating methods

A techno-economic assessment of the viability of a photovoltaic-wind-battery storage-hydrogen energy system for electrifying primary healthcare centre in Sub-Saharan Africa

A new category of microgrid installations is emerging in the form of hybrid CHP systems, which incorporate a combination of CHP and other DERs in a single installation.

The network studied in this paper is an MG based on the configuration of an IEEE 33 low-voltage test network that includes renewable resources (such as PV and WT systems), CHP systems ...

This study aims to formulate a comprehensive optimization methodology for long-term planning, encompassing the intricacies of short-term scheduling involving PV systems, stationary ...

This study aims to comprehensively develop a modeling framework to evaluate the dynamic performance of a photovoltaic/thermal (PV/T) system ...

In this paper, an adaptive robust optimization model of combined heat and power microgrid based on photovoltaic mechanism/data fusion-driven ...

Some renewable energy generation sources, such as wind and solar energy are examples. Microgrids require a dispatchable generation source to follow load so that generation can ...

Then, this paper proposes a concept of energy utilization model for energy management, which includes a discussion of modern concepts including ...

This paper presents a novel fuzzy-logic control method for the coordinated operation of electricity, hydrogen, and thermal systems in a residential MEMG. A photovoltaic (PV) power plant serves as ...

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