

Evaluate and summarize each identified study in terms of algorithm type, the specific research problem addressed, primary objectives, and energy-efficiency outcomes, along with the ...

A Robust and Efficient Two-Stage Algorithm for Power Flow Calculation of Large-Scale Systems Kunjie Tang, Student Member, IEEE, Shufeng Dong, Jie Shen, Chengzhi Zhu, and Yonghua Song, Fellow, ...

We initiate the systematic study of the energy complexity of algorithms (in addition to time and space complexity) based on Landauer's Principle in physics, which gives a lower bound on the amount of ...

Liquid hydrogen (LH₂) can serve as a carrier for hydrogen and renewable energy by recovering the cold energy during LH₂ regasification to generate electricity. However, the fluctuating ...

Our approach was devised to efficiently construct liquid-cooling networks specifically tailored for diverse scale BESSs, with considerations of cost-effectiveness, energy efficiency, ...

These solutions show it is possible to control a complex pumping station with various combinations of control parameters, giving similar results. This analysis demonstrates that the ...

Abstract Liquid air energy storage (LAES) is a kind of cryogenic energy storage technology that offers the advantages of relatively sizeable volumetric energy density and ease of ...

To obtain a more efficient diffuser model and achieve energy savings, in this study, two heuristic intelligent algorithms were used to optimize the diffuser parameters of a water pump. ...

This study proposed a novel optimization operation framework for a PSP station driven by the PS-VF operation for boosting power grid absorbability to renewable energy inputs. An ...

(4) The ERL-HC algorithm provides a new approach for solving the AC optimal power flow (ACOPF) problem for multiperiod power systems with energy storage and renewable energy ...

The liquid-only side-stream option is sometimes preferred to replace the vapor-liquid interconnection in thermally coupled distillation to achieve similar energy efficiency but easier ...

Electrochemical battery energy storage stations have been widely used in power grid systems and other fields. Controlling the temperature of numerous batteries in the energy storage station to be uniform ...

Energy efficiency algorithm of liquid flow power station

Energy efficiency reflects the energy-saving level of the Pumped Storage Power Station. In this paper, the energy flow of pumped storage power stations is analyzed firstly, and then ...

Despite these limitations, the rule-based control strategy can maintain the battery temperature within a certain range, but it is not satisfactory in maintaining temperature stability and ...

The failure rate of power devices increases exponentially with the rise of temperature, and the heat generated by large power and small volume will be more concentrated, so it is urgent to ...

power conversion efficiency integrated system can reach 99.39%. Natural gas peak shaving power station with gas-steam combined cycle is widely used to meet the demand of peak ...

Abstract Liquid piston compressor is the most promising compressor to be used for hydrogen-refueling stations. However, their energy transfer and the energy dissipation processes of ...

The ERL-HC algorithm provides a new approach for solving the AC optimal power flow (ACOPF) problem for multiperiod power systems with energy storage and renewable energy ...

This shows that the proposed method can obtain the optimal solution of the liquid flow battery energy storage configuration of the photovoltaic system, and the sum of the initial investment and the life ...

The model of flow battery energy storage system should not only accurately reflect the operation characteristics of flow battery itself, but also meet the simulation requirements of large ...

PDF | On Feb 10, 2014, Jihong Wang published Energy-efficient Algorithm of Base Station Based on Delayed Rejection Model over Heterogeneous Wireless Networks | Find, read and cite all the ...

Nowadays, energy efficiency enhancement strategies are considered the crucial approaches to release this problem. The pumps accounts for nearly 21% of the world electricity ...

This paper proposes a novel approach for optimizing the total power output of a power station with different generators by analyzing the characteristics of the corresponding efficiency ...

In this paper, the non-dominated sorting genetic algorithms-II is adopted to perform efficiency optimization, and the innovative theoretical model for analyzing the energy loss based on ...

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