

Title: Xiong an Smart Microgrid

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Acting as a multi-energy backup and intelligent microgrid, it is able to provide emergency power during grid outages, enhancing community resilience and ensuring reliable electricity for...

This study presents a chance-constrained scheduling model based on probabilistic and robust optimisation to handle the uncertainty of renewable energy generation and loads in microgrids.

In this paper, an improved voltage control strategy for microgrids (MG) is proposed, using an artificial neural network (ANN)-based adaptive proportional-integral (PI) controller combined ...

This paper proposes a deep reinforcement learning (DRL)-based real-time optimal energy management method to assist the EMS for microgrids in making optimal scheduling decisions.

Some 20 meters below ground in Rongdong area of Xiong'an New Area, an integrated utility corridor houses nearly 10,000 devices spanning more than 20 categories, collecting real-time ...

This chapter presents smart Python agents for autonomous microgrid systems. The agents operate microgrids by integrating renewable energy resources and optimizing energy consumption while ...

This paper presents an overview of our body of work on the application of smart control techniques for the control and management of microgrids (MGs). The main focus here is on the ...

This thesis presents smart python agents for microgrid systems to automate the operations and control of microgrid renewable resources in an effort to provide resilient solutions to ...

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