

While myriad inputs can affect whether a customer or developer decides to pursue a microgrid project, state policymakers can play an important role in establishing programs and procedures that incentivize and ...

At the recent National Summit Clinton Chapman presented on the situation with the government's key infrastructure assets including Niue Power, Water, Broadcasting Corporation, Telecom Niue, Transport, Civil ...

This paper proposes a supervisory control system (SCS) for a microgrid with Z-source converters (ZSCs), ensuring power balance and revenue generation by selling excess energy to the grid. ...

By incorporating renewable energy sources, energy storage systems, and advanced control systems, microgrids help to reduce dependence on fossil fuels and promote the use of clean and sustainable energy ...

To address these challenges, the microgrid will include a rapid solid-state switch to protect the microgrid from grid disturbances. NLR collaborated with Caterpillar to test a prototype utility-scale energy ...

NLR develops and evaluates microgrid controls at multiple time scales. Our researchers evaluate in-house-developed controls and partner-developed microgrid components using software modeling and ...

This chapter addresses the issues related to protection schemes in a microgrid, gives an overview of the existing and new requirements of protection schemes, and analyses the potential of the existing and adaptive ...

This paper proposes an adaptive secondary control strategy for islanded AC microgrids (MGs) using Distributed Stochastic Deep Reinforcement Learning (DSDRL), targeting reliable ...

This paper provides a comprehensive overview of the microgrid (MG) concept, including its definitions, challenges, advantages, components, structures, communication systems, and control methods, ...

In addition to Australia's support, the New Zealand Government contributed \$2.5 million to relocate and restore Niue's Battery Energy Storage System (BESS). This funding has allowed the Ministry ...

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