

Visiting the Nanji Island Microgrid

Where is Nanji archipelago?

Located in Pingyang County, Nanji Archipelago was rated by Chinese National Geography Magazine as one of the most beautiful islands in China and is the earliest UNESCO Biosphere Reserve in China.

What is Nanji Islands national nature reserve?

In July 1998, Nanji Islands National Nature Reserve was approved by the UNESCO as a member of the International Man and Biosphere Reserve Network. Nanji Islands National Nature Reserve lies in a coastal area where the Taiwan warm current and Jiangsu-Zhejiang coastal current fluctuate in alternate.

What is the control system for the Nanji Island microgrid?

The control system for the Nanji Island microgrid is based on the IEC61850 standard, which coordinates the three control layers using an MMS protocol for between-layer communication and a GOOSE protocol for within-layer communication.

What power sources are in the Nanji Island microgrid?

The Nanji Island microgrid contains four types of power sources: wind power, solar power, DE, and energy storage. The lithium batteries have three operating modes: P/Q, constant V/F, and droop control. DEs have P-F and Q-V droop control modes. WTs, PV units, and super capacitors have P/Q operating mode only.

What is the EMS for the microgrid on Nanji Island?

The EMS for the microgrid on Nanji Island is relatively complex due to the large rated capacity and aggregate load. The load on this island is classified into important load, shiftable load, and adjustable load by the controllability of load.

What does Nanji Island look like?

The Nanji Island is a bedrock island mainly composed of 23 islands and 14 reefs. The Nanji Island, the biggest one in the Reserve covering an area of 7 square kilometers, looks like a muntjac with its head northwestward and tail southeastward. The highest peak of the Nanji Island is 229 meters above sea level.

To provide a relatively low cost power supply to an isolated island, in contrast with power supplied by a submarine cable or diesel delivery, the Zhejiang Nanji Island Microgrid Project features 1 ...

The island's population swells to about three hundred during the summer including visiting boating enthusiasts who like the shelter of the island's harbor. There is no car ferry to the island, and this helps keep Cuttyhunk quiet ...

The micro grid created by CALB for Nanji Island consists of 18,000 60Ah batteries which store the electrical energy created on site. The first phase of the grid consisted of being able to store and distribute 2.3MWh with

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a second phase of ...

The scheme builds detailed operation models for key devices and presents the procedures of the typical manipulations. Based on the scheme, an operation and regulation simulation system ...

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CALB's renewable power storage station on Nanji Island is the largest self-contained grid of its kind in China and aims to provide continuous and efficient energy conversion. The micro grid created by CALB for Nanji Island consists ...

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