People s republic of china rural microgrids

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In this Special Report, Yang Dechang summarizes current research on and deployment of microgrids in China, including an overview of the history of microgrids in China, two examples of microgrid projects currently operating in China (Dongao Island and Sino Singapore Tianjin Eco-City), progress on regulation and policies related to integration of microgrids with central grids, and key evolving microgrid technologies.

A summary of this report follows. A downloadable PDF file (0.8 MB) of the full report is here.

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Banner image: The Dongao Island megawatt-level independent smart microgrid project was China"s first megawatt-level microgrid system with complementary wind, solar, diesel, and energy storage, and was also China’s first commercial-run island smart microgrid system. The power supply is flexible and especially suitable for island and remote areas. The diesel power generation in the system has been greatly improved by the addition of the other system components, reducing power generation cost and island pollution. Image from here.

1.1 Brief Summary of the Status and Deployment Trends of Microgrids (MG) in China

1.2 China"s Current and Planned Policies Regarding MG

At present, the development of domestic microgrids in China is at the stage of building projects as demonstrations for commercial operation. There are still many challenges in the practical application of

microgrids in China. Policies, technologies and economics are the three main factors restricting the further development of microgrids.

First, based on an analysis of policy factors, China is paying more and more attention to the development of new energy sources and the efficient use of energy, and the policy orientation towards these topics continues to be favorable. Current electric power regulations, however, are in conflict in some ways with the construction and operation modes of microgrids. The State’s policies on microgrid subsidies and on-grid tariffs are still unclear as of this writing. There is also a lack of laws and regulations related to microgrids, which has become one of the main obstacles to future microgrid development.

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