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Overview

The Indonesia microgrid market is set for robust growth, projected at 15% CAGR from 2019-2030, reaching $2. Key drivers include rising renewable energy demand, government initiatives, technological advancements in storage, and rural electrification. What appears to be Indonesia's greatest infrastructure challenge: powering 17,000 islands scattered across 5,000 kilometers of ocean, is actually its secret weapon in the global energy transition. 2% in 2020, it has shown stagnating electrification since 2018. This is because most of the remaining areas that need to be electrified are remote and have unique characteristics that hamper implementation of microgrids for providing energy. This paper aims to provide a resilience-oriented planning strategy for community microgrids in Lombok Island, Indonesia. A mixed-integer linear program, implemented in the distributed energy resources customer adoption model (DER-CAM), is presented in this paper to find the optimal technology. Recognizing this, Dr. Khoirul Anwar, an Indonesian engineer and innovator, has advanced a groundbreaking solar microgrid technology tailored to the country's geographical and socio-economic needs.

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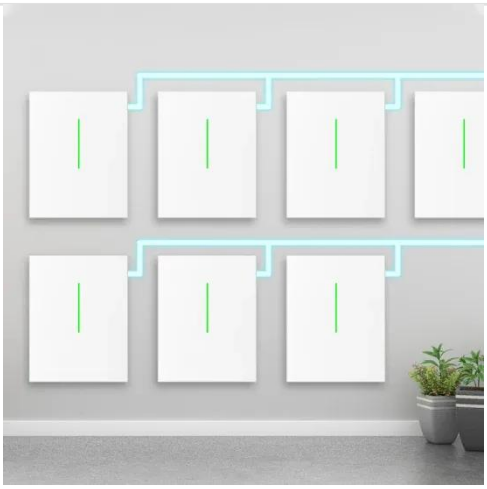

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