Microgrid pv system Cook Islands

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Cook Islands Renewable Energy Chart Implementation Plan Island Specific This Implementation plan is outlined specific to each island of the Cook islands which articulates the costs, technology, time lines, and the processes. It is noted this document must be read in conjunction with the "Cook Islands Renewable Energy Chart Implementation Plan"

In its approach to delivering a 100% renewable energy target across 12 islands by 2020, the Cook Islands presents a rare insight into how planning requirements of high penetration renewable island systems vary with scale.

Mangaia (Cook Islands), La Digue (Seychelles). Each case study explored the economics of installing SolarCity"s "GridLogic" microgrid system. GridLogic systems combine a ground-mounted PV array, battery storage, and backup generators with a sophisticated control system to provide a free-standing, low-carbon power system. Renewable ...

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The proposed PV system could produce approximat ely 549 MWh of energy annually. Considering the load profile, proposed storage capacity, and natural va riations in resource, this will be able to deliver approximately 363 MWh of usable solar PV energy to Atiu, which is approximately 95% of the 382 MWh estimated annual consumption.

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