

Resilient Photovoltaic Systems

Kyle Datta General Partner





What is Resilience?

re•sil•ience

1.

noun



How Can Renewables Improve Resilience?



Local, not dependent on ports



Siting and hardening



Transmission architecture matters



Distributed with grid modernization



Electrification of transportation



Kaua'i: 97% Renewable Power During the Day



ulupono INITIATIVE

Distributed, Renewable & Resilient



ulupono INITIATIVE

Distributed Utilities for Remote Villages



ulupono initiative

PV and Battery Microgrids

- 85% Solar and 15% generator
- For peak load of 0.6 MW, 1.5 MW PV and 4 Mwh storage covered the demand
- At larger scales, 5-6 hours of storage appears to suffice for reliability



ulupono INITIATIVE



Kyle Datta General Partner

kdatta@ulupono.com

ulupono.com

