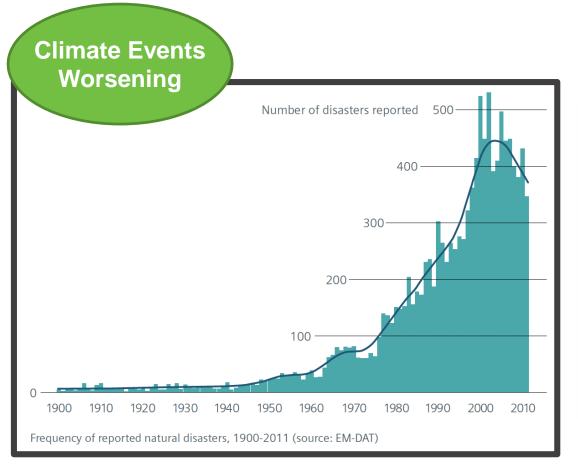
STORAGE AND RESILIENCE

Kyle Datta

Why is Resilience Important to the Future of Renewables?







How Can Renewables Improve Resilience?



Local, not dependent on ports



Siting and hardening



Transmission architecture matters



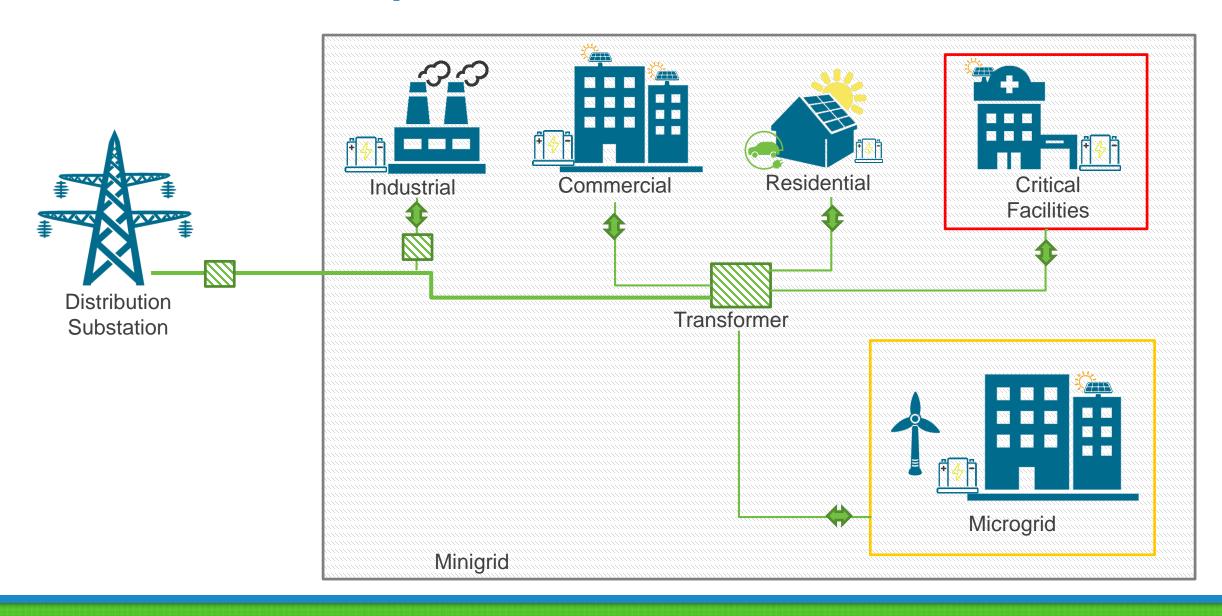
Distributed with grid modernization



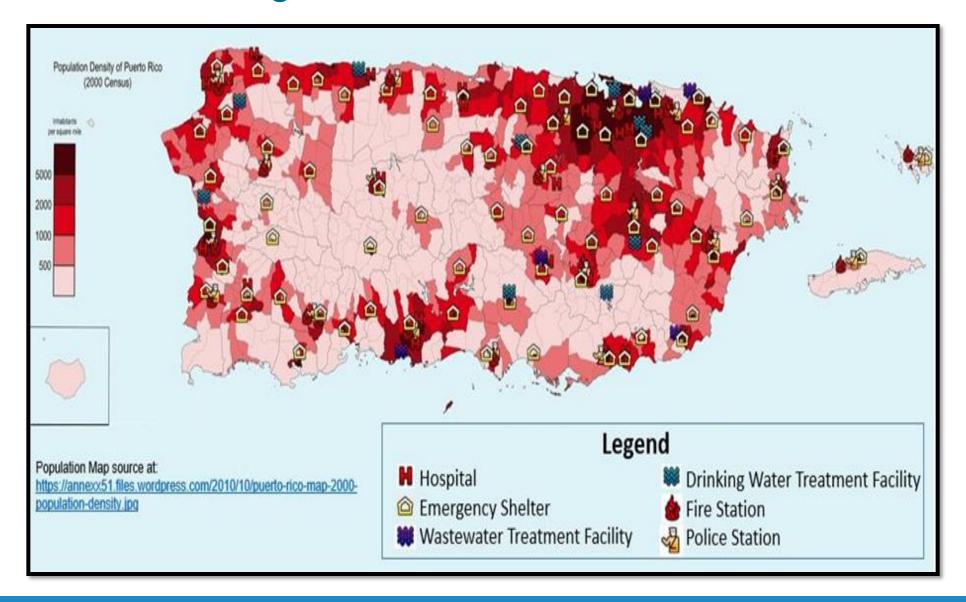
Electrification of transportation



System Architecture Matters



Microgrids for Critical Infrastructure



Where Do We Go From Here?

- Explicit quantification of the costs and value of resilience
- Co-optimization with traditional planning reliability and cost criteria
- Careful siting of renewables with expectation of climate disruption
- Hardening of solar installation to withstand hurricanes
- Cellular approach to grid modernization with distributed resources / microgrid as the default architecture