Abstract
After Hurricane Maria hit Puerto Rico in 2017, millions of Puerto Ricans were left without power for almost a year. As a result, communication, access to water, electricity, and medical devices were abruptly taken from communities causing multiple effects on the surrounding populations. When a natural disaster strikes, electrical grids are completely demolished, leaving Puerto Rico with no source of power. Multiple problems arise dealing with powering medical devices, telephones for communication, and lights in individual buildings.

Objective
To provide Puerto Ricans in rural communities short-term energy sources for medical needs after a natural disaster until the electric grid can be restored.

The Problem
- Power Loss
- Slow Reaction Time/Unpreparedness
- Immediate Medical Needs
- Electricity Required For Powering Medical Devices

Research

Charging Methods
- Solar Panel
  - 100 W
  - ~ 10-15 Hours
- Grid Access
  - ~ 6 Hours
- Car Generator
  - ~ 9 Hours

Our Solution

Energise Puerto Rico's Power Station ~ High Capacity Battery and Mobile Solar Panel

Summary: A little power can have a big impact
- Emergency visits due to mental health increase a couple days into a blackout
- Phones make people feel more connected/loved
- Lack of electricity/transportation increases substance abuse

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