Providing Clean Water in Yabucoa, Puerto Rico
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Problem
Water infrastructure is dependent on power infrastructure
Natural disasters destroyed power, water, and housing

Impacts
Lack of water for island
Sanitation Issues
62% mortality rate increase after Hurricane Maria

Solutions
Community Solution
Fog Nets are an additional non-power dependent source of clean water for community

Emergency Solution
SODIS technology uses the U-V radiation in sunlight to kill or inactivate pathogens to purify water of biological impurities
Solar Ball technology uses sun’s heat for repeated vaporization and condensation to purify water of physical and chemical impurities

Implementation
Planning
Community
Conduct topography study
Emergency
Propose idea to local government

Development
Community
Installing fog nets on mountainous regions
Emergency
Distribution of Emergency kits to all households with the help of government

Result Study
Community
Track output of fog nets and how much is being distributed
Emergency
Conducting a survey about SODIS/Solar Ball output and proper usage by all households

References: