Mobile Solar+Storage for Emergency Management

May 10, 2022
WEBINAR LOGISTICS

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Clean Energy Group (CEG) works at the forefront of clean energy innovation to accelerate an equitable and inclusive transition to a resilient, sustainable, clean energy future.

Visit [www.cleanegroup.org](http://www.cleanegroup.org) to learn more about our current initiatives, recent publications, and upcoming events.
THE RESILIENT POWER PROJECT

• Increase public/private investment in clean, resilient power systems (solar+storage)

• Protect low-income and vulnerable communities, with a focus on affordable housing and critical public facilities

• Engage city, state and federal policy makers to develop supportive policies and programs

• Visit www.resilient-power.org for more information and resources
SUPPORTING 250+ PROJECTS ACROSS THE COUNTRY

Boulder: Nonprofit transportation center serving elderly and disabled residents

Puerto Rico: Supporting the installation of solar+storage at multiple community medical clinics

Boston: Multiple housing properties representing 1,000+ units of senior and affordable housing

New Mexico: Added resilience for remote wildfire operations command center

DC: First solar+storage resilience center at affordable housing in DC

Puerto Rico: Supporting the installation of solar+storage at multiple community medical clinics

Clean Energy Group - Resilient Power Project
WEBINAR SPEAKERS

Will Heegaard
Operations Director, Footprint Project

Jamie Swezey
Programs Manager, Footprint Project

Chuck Cerasoli
Fire Chief, Steamboat Springs Fire Rescue

Craig Moreau
Chief of Emergency Management and Homeland Security, Fayette County, TX

Marriele Mango
Project Director, Clean Energy Group (moderator)
Our mission is to build back greener after disasters, by mobilizing cleaner energy to communities in crisis.
Disasters are more frequent and costlier than ever.
And how we respond to them could use a makeover.

Generators poison thousands a year. The U.S. has failed to form changes.

Portable generators, which emit carbon monoxide, are among the,
Two decades after the government identified the danger, people
that lets the industry regulate itself.

Generators, carbon monoxide poisoning have
killed more people than Hurricane Laura itself

Dylan McGuinness, Staff writer
Aug. 28, 2020 | Updated: Aug. 28, 2020 7:46 p.m.

LA's New Air Pollution Concern
During Outages

June 19, 2020, 5:01 AM
Problem
Disaster teams struggle to deliver clean energy to climate emergencies.

Solution
We mobilize solar + batteries to power first response, recovery, and resilience.
Our Programs

Disaster Response
We rapidly deploy mobile solar generators to power up responders and survivors.

Community Resilience
We develop fleets of community mobile solar generators and train local partners to plug-in.

Solar Waste Recovery
We reuse second-life solar electric components to keep them out of landfills.
Impact to Date

15+ disaster missions
150+ kW of mobile solar
550+ kWh of mobile battery storage

25,000+ survivors provided with emergency, sustainable energy access.
Resilience vs Response

**REMOTE**
- Energy Consults
- Design Support
- Outreach
- Training

**IN-PERSON**
- Builds
- Trainings
- Workshops
- Simulations
- Events

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**In-Take Requests**
- Load Assessments
- Troubleshooting Support

**Ready... Set... Go!**
- Site Assessments
- Equipment Delivery
- Maintenance
- Demobilization
Our Vision through 2030

Decarbonize Disaster Relief

by

1) Developing national networks of sustainable, deployable energy infrastructure;

2) Training a 21st century workforce of volunteer and professional responders;

3) Piloting new models of community resilience.
Site 1
Pop-Up Aid Station with Portable Solar Genny

New Orleans Tornado Response
March 2022
Site 2
Food Drop / Distro Site with Towable Solar Genny

Tennessee Tornado Response
March 2020
Site 3
Volunteer Basecamp

Hurricane Ida Response
September 2021
Solar Generator Networks
Centralized vs Decentralized (Swarm)
Training

Staff/volunteers

Deployment

Load management

Safety

Check out our “Solar Smart Hands” training on

https://www.heatspring.com/
Logistics

- Storing vs. staging
- Transportation
- Operations and maintenance
- Remote monitoring

footprintproject.org
Reporting

- Energy/Human
- Positive/Negative
- Grant writing
- Sponsorship
Chuck Cerasoli

Fire Chief

Steamboat Springs Fire Rescue
Craig Moreau

Paramedic/Haz-Mat Technician

Chief of Emergency Management and Homeland Security

Fayette County Texas
COVID 19 Vaccination Clinic
April 2021
COVID 19
Vaccination Clinic
April 2021
Thank you for attending our webinar

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Find us online:
www.resilient-power.org
www.cleanegroup.org
www.facebook.com/clean.energy.group
@cleanenergygrp on Twitter
Upcoming Webinars

Building Community Resilience with Green Mountain Power
*Wednesday, May 18, 3-4pm ET*

Quantifying the Health Benefits of Clean Energy Policies with EPA’s AVERT and COBRA Tools
*Thursday, May 19, 1-2:30pm ET*

Exploring Peaker Power Plant Inequities with Clean Energy Group’s New Mapping Tool
*Thursday, June 23, 3-4pm ET*

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