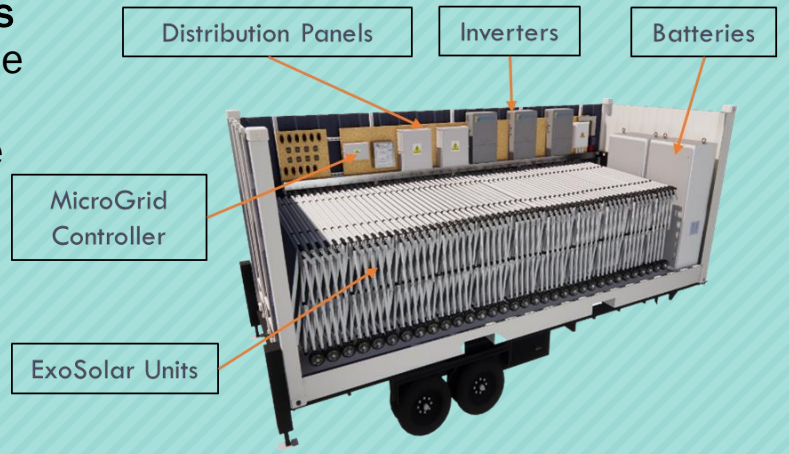
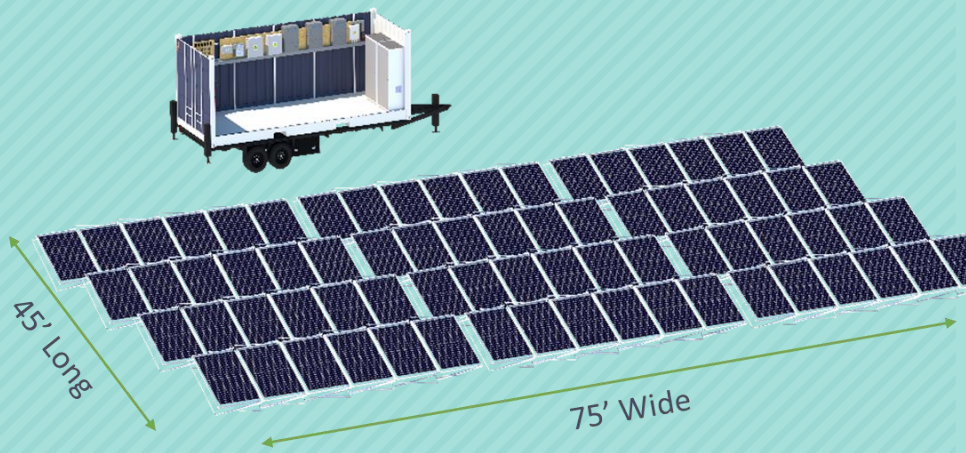
Dual Use Microgrid for Hometown Resilience

Project intends to implement a **unique, portable solar microgrid** in rural/smaller communities for **use during emergencies and non-emergencies.** Project will provide advanced technology exposure to an **underserved area**, **increase equity** in the clean energy revolution unfolding nationwide, and demonstrate an innovative new use case to enable **resiliency measures that benefit the community for 15 to 20 years.**

Travel Mode



Operational Mode



- **Perry County, KY**: Underserved and Legacy Coal Community. Devastated by severe flooding in 2022.
- **Microgrid Capacity**: Up to 30 kW of solar + 90 kWh battery
- **Swift Deployment** → Containerized, Portable, and Easy to Use
- **Novel Use-Case**: Shareable Asset for Resilient Hometowns
  - **Emergency**: Endless backup power for community critical infrastructure sites
  - **Normal Times**: clean, renewable power for a host facility
- **System Demonstrated** in Puerto Rico and by DOD/Army.
- **Seeking first-of-a-kind demo** in hometown communities.

Team & Collaborators

- National Institute for Hometown Security
- Resilient Energy & Infrastructure
- Perry County, Kentucky
- Kentucky Assoc. of Mitigation Managers