

The PowerBox: Repurposed Innovation by Unity Renewables

What is the PowerBox? A portable power solution that breathes new life into end-of-life electric vehicle (EV) batteries, housed in robust, repurposed Pelican and pelican-style cases.

The Mission: To transform the way we view and use discarded EV batteries, turning potential waste into a valuable resource for clean, portable power. Our goal is to not only promote environmental sustainability but also to alleviate energy burdens in disadvantaged communities (DACs), making clean energy accessible to all.

Emerging Waste Stream Opportunity: The combination of the fast-growing waste stream from end-of-life EV batteries and the existing waste of Pelican cases opens up significant opportunities for sustainable innovation, highlighting the potential for repurposing and recycling within a circular economy framework.

Key Features:

- ❑ **Repurposed EV Batteries:** Harnesses the untapped potential of accident-damaged or end-of-life EV batteries, providing a second life as a reliable energy source.
- ❑ **Durable Enclosures:** Utilizes repurposed Pelican cases known for their strength and protection, ensuring the PowerBox is ready for any situation.
- ❑ **Versatility:** Offers emergency power during natural disasters, supports energy needs for those experiencing homelessness, energizes mobile businesses (e.g. food trucks, construction sites), serves as residential backup power, and offers a sustainable alternative to diesel generators.

Prime Positioning: With regulatory landscapes evolving, particularly in New York, this product is primed to meet and exceed forthcoming environmental standards. Its innovative approach positions it advantageously in a market increasingly defined by strict regulations on waste management and recycling, ensuring compliance and leadership in sustainable practice.

Why Unity Renewables? Unity Renewables combines technical expertise with a strong commitment to social equity. Dedicated to local manufacturing and job creation in Rochester, NY, Unity Renewables, as an MBE aspirant, aims to foster opportunity in its community and grow sustainable opportunities.