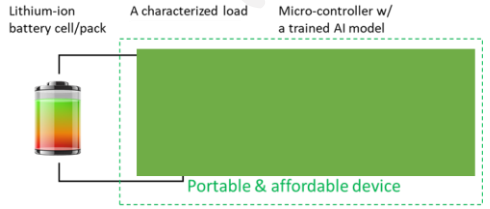
# Battery ReLife: Advancing Second-Life Solutions for Lithium-Ion Batteries

**Project Overview:** Introducing a groundbreaking device designed to assess and repurpose aged lithium-ion batteries, making renewable energy storage more accessible and affordable.




**Innovation Highlights**

- **Portable Assessment Device:** Assesses SOH (State of Health) and SOC (State of Charge) in 6 minutes at an affordable cost.
- **Major Innovations:** Utilizes advanced deep learning techniques for precise health estimation and introduces a novel prognostic framework for battery life prediction.

**Impact & Value Proposition**

- **Environmental Impact:** Reduces electronic waste by extending battery life, supporting renewable energy storage solutions.
- **Community Engagement:** Plans for community workshops and green tech job creation, focusing on underserved communities.
- **Economic Benefit:** Makes second-life batteries a cost-effective solution for energy storage, with significant savings over new batteries.

**Team & Achievements**

- **Team Expertise:** Led by industry and academic experts with a track record of innovation and award-winning projects.
- **Key Achievements:** Semifinalist in the American-Made Solar Prize, First Place in the American-Made Net Load Forecasting Prize, and more.

**Future Plans**

- **Goals:** To commercialize our device by 2026, enabling widespread battery repurposing and supporting global sustainability efforts.
- **Metrics of Success:** Achieve under 1% estimation error, reduce assessment time to 6 minutes, and ensure device affordability at $100.