

### **ABOUT UEP**

- Urban Electric Power (UEP) was spun out of the City University of New York (CUNY) in 2012 with an exclusive license to commercialize zinc anode battery technology
- \$45M in total funding includes public and private investment
- Safe, earth-abundant, inexpensive battery materials with performance well-suited for solar + storage and resiliency applications



### PRODUCT CERTIFICATIONS

- ✓ Safe, non-hazardous materials similar to those in traditional primary alkaline cells
- Received UL 1973 certification for cylindrical cell
- ✓ Categorized as similar to lead-acid for flammability per DNV-GL labs testing





**UEP Cell Flammability Testing** 





Before

After



### POWER BACKUP PRODUCT

- Power Assurance system designed for residential and commercial backup applications
- Two backup power systems installed in Connecticut
  - IT firm (112kWh/8kW)
  - CT residence (56kWh/8kW)
- Assembled by UEP, installed by local electrical contractors



Power Assurance demonstration system at UEP headquarters

# JOINT VENTURE PARTNERSHIP

- Advancing JV partnership with Godrej & Boyce (G&B) an Indian industrial firm
- UEP batteries being tested in various use cases and product formations (right) including home backup and solar + storage
- Indian total secondary battery market is ~\$4.5 billion, growing to \$13B by 2022
- Systems to be deployed at customer sites across India throughout 2019







## PROJECT PROFILE: CITY COLLEGE

- 200kW/800 kWh grid-tied
- Supports peak load management and demand response activities
- Large demonstration project to support UEP's commercial scale product
- Support from NYSERDA and Sandia National Laboratories









### PROJECT PROFILE: NM STATE

- Distributed storage research in extreme conditions
- Provides off-grid power for remote homes without grid access
- Replicable model with use cases across the globe
- Prototype under development at New Mexico State University, supported by Sandia National Laboratories











#### LOOKING AHEAD

- Enhance cell performance and product features
- Engage domestic and international partners for system deployments
- Install demonstration projects for key market segments and use cases
- Expand sales and marketing efforts to increase commercial sales