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
MANUFACTURING SCALE UP

• Fully operational manufacturing and testing facilities at the NY Center for Innovation in Pearl River, NY

• Over 60,000 cylindrical cells manufactured in 2018

• Growth plan to scale up to 1,000 cells per day (~250,000 per year)
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