



# TECHNICAL ASSISTANCE REQUEST



## Regular access to the following equipment:

- High-precision voltammetry equipment. This will enable us to quickly and accurately measure the electrical characteristics of our beta energy storage cells. i.e. capacitance, depth of discharge, max rate of charge/discharge, etc.
- Multi-cell precision charge/discharge test instruments with high accuracy output (Constant Voltage, Constant Current, and Constant Power modes) and measurement channels to ensure long term repetitive test results. The use of these instruments will provide preliminary cell reliability verification, such as battery cycle life tests.
- Nano-scale material properties analyzing equipment, such as an Electron Microscopes. To identify and isolate areas of improvement in our active materials.
- Sunlight simulation lab. To test our solar energy storage cells integration with photovoltaic solar cells in simulated real-world sunlight conditions. Analyze storage cell performances while integrated with solar cells to further improve upon our storage cell integration design.

## Technical experts:

- Assistance with optimizing the production of the energy storage device including application of materials: binder, electrolyte (dielectric), casing, and current collector. This assistance will help us maximum our cell's economics, safety, and energy storage potential.
- Assistance with interoperating the nanostructures of our active materials and our other non-active materials, which will ensure maximum purity while preserving electrical potential of all materials.
- Experts in all aspects of photovoltaic. They will help with ensuring that the integration of our storage cells is appropriately implement to prevent loss in performance, damage to either cells (storage & solar), or catastrophic failure.
- Experienced power distribution engineers to ensure that there will be no interference or modifications with/to residential and commercial electrical grids and to ensure that we are in compliance with all building electrical requirements.
- Professional assistance on the current application of roll-to-roll coating and regulation of energy storage devices. This will help understand current manufacturing practices. This will also allow us to understand the regulations about production of solar and energy devices.