Tiger Storage 1 Operations Plan

Tiger Storage 1, LLC C/O New Leaf Energy, Inc. is proposing to develop a 200MW AC Battery Energy Storage System (BESS) on an approximately 16.7 acre portion of an existing agricultural field on PN 23-023-000-01. The parcel is located in Rock Island County, IL and approximately 0.5 miles north of the intersection of 14th Street West and 127th Avenue West. The parcel is approximately 81 acres in size and is zoned General Agriculture (AG-2) with an agricultural/farmland land use. The project will interconnect to the substation 0.18 miles to the south of the project via above-ground gen-tie line. Please refer to the Gen-Tie Exhibit for the path and location of the proposed site improvements.

The BESS consists of lithium-iron phosphate (LFP) based battery modules, or similar, housed in purpose-built metal enclosures, with integrated power conversion equipment and fire suppression systems. Additionally, interconnection equipment, including transformers, will be located on-site, with the entire system completely enclosed within a 10-20 foot tall noise barrier that will also act as a security fence and visual barrier. The fence gates will remain locked at all times, and the emergency contact and project information will be located on a sign at the site entrance. The site will be remotely monitored on a continuous basis, with the ability to perform a remote shut-off in case of emergency.

The BESS will operate continuously for the expected project operational term of 30 years. Typical operation of the system will include charging from the grid during the day and discharging during peak electric demand at night. The project will also include the installation of lighting fixtures to comply with electrical code lighting requirements. All lighting fixtures will be oriented downward, fully shielded, and comply with all County lighting regulations.

Project Construction

The Project is anticipated to be built over an approximately 18-month period from the onset of site preparation activities through energization. Initial mobilization and site preparation is anticipated to begin in 2028 and testing and commissioning is anticipated to conclude no later in early 2030. The commercial operation date (COD) is expected shortly following the completion of testing and commissioning in 2030. It is anticipated that construction crews will work up to 10 hours per day, with work occurring Monday through Friday, excluding federal holidays. Overtime, night work, and weekend work will be used only as necessary to meet the Project schedule or complete time-sensitive or safety critical work. All work schedules will comply with applicable Illinois labor laws and County regulations. Estimated durations of construction activities are presented below.

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Estimated Construction Activity Duration

Construction Activity	Estimated Duration	Estimated Timeframe
Site Preparation	1 months	6/1/2028 – 7/1/2028
Substation Site Preparation	2 weeks	7/2/2028 – 7/16/2028
Civil Work and Grading	1 months	7/2/2028 – 7/30/2028
Substation Civil Work and Grading	2 weeks	7/31/2028 – 8/14/2028
Battery Enclosure/PCS Installation	16 months	7/31/2028 – 11/30/2029
Project Substation Installation	8 months	8/15/2028 – 4/15/2029
Gen-Tie Foundations and Structure Erection	2 months	4/16/2029 – 6/16/2029
Gen-Tie Line Stringing and Pulling	1 month	6/16/2029 – 7/17/2029
PG&E Interconnection Facility Upgrades within Green Valley Substation	6 months	4/1/2029 - 10/1/2029
Testing and Commissioning	6 months	12/1/2029 – 6/1/2030
Decommissioning	7 months	5/31/2065 – 12/31/2065

Note: PCS = power conversion system.

Project Operations

Once constructed, the Project will be available to operate 7 days per week, 365 days per year. The BESS will operate continuously for the expected project operational term of 30 years. Typical operation of the system will include charging from the grid during the day and discharging during peak electric demand at night. The project will also include the installation of lighting fixtures to comply with lighting requirements. All lighting fixtures will be oriented downward, fully shielded, and comply with all County lighting regulations.

The facility will be remotely monitored and operated by an Owner contracted O&M provider, by means of a NERC-CIP compliant remote operations center. Project operations will be monitored remotely through the SCADA (Supervisory Control and Data Acquisition) system. It is expected

that the Project will require one to two operations and maintenance workers to visit the facility on an approximately bi-weekly basis during operation.

On-site maintenance will be required, which will include replacement of inverter power modules, filters, and miscellaneous electrical repairs on an as-needed basis. During operation of the Project substation, O&M staff will visit the substation periodically for switching and other operation activities. Light duty maintenance will be utilized to perform routine maintenance, including but not limited to equipment testing, monitoring, repair, routine procedures to ensure service continuity, and standard preventative maintenance. Typically, one major maintenance inspection would occur annually, requiring up to twenty (20) workers for approximately one week. In addition, up to six (6) workers would visit the site every two to three years to add or connect additional batteries to the facility using a crane and a forklift, within the proposed facility boundary. Even when considering routine maintenance and augmentation activities, the project expects to provide no less than a 96% annual availability factor to the grid.

As batteries slowly lose their capacity to store energy, extra batteries and related equipment will be installed at intervals throughout the life of the Project, which is referred to as augmentation. Augmentation is expected to occur approximately once every 5 – 7 years to maintain an annual capacity of 200 over an approximate 30-year life. The Project's final augmentation strategy will be determined by market-based contracting requirements. Augmentation may include installing BESS equipment on the foundations, and completing electrical work within the existing Project footprint. The site drawings submitted with this CUP application shows an "end of life" configuration, meaning it shows the equipment layout after all augmentation units are implemented.

Fire Safety

Fire protection systems will be incorporated within each individual BESS enclosure and will include remote monitoring, auto-shut off, and active, waterless fire suppression. The Project's fire protection system will comply with all applicable standards including the International Fire Code (IFC), International Building Code (IBC), the National Fire Protection Association's Standard for the Installation of Stationary Energy Storage Systems (NFPA 550 and NFPA 855), Underwriters Laboratories (UL) 9540A, UL 1973, UL 1741, UL 9540, and the Institute of Electrical and Electronics Engineers (IEEE) C2. BESS enclosures will be Underwriters Laboratories (UL) listed, tested, and certified to the most rigorous international safety standards. UL independently tests equipment for compliance with the latest fire safety code requirements, and the methods were developed to minimize fire risk and safety concerns about battery storage equipment raised by fire departments and building officials in the United States. Faults, mechanical damage, or manufacturing defects in lithium-ion batteries can cause thermal runaway, which can lead to fires or other hazards. Should a thermal runaway event occur, the

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BESS enclosures are designed and constructed in such a way that fire will not propagate from one enclosure to a neighboring enclosure. The Project's BESS enclosures, as part of the testing

and listing process, will be subjected to destructive testing including fire testing. The Project's BESS enclosures will include the following UL certifications:

- **UL 1973 –** Standard for Batteries for Use in Stationary Applications (module level certification).
- **UL 9540 –** Standard for Energy Storage Systems and Equipment (system level certification).
- **UL 9540A –** Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems.

A Draft Emergency Response Plan (ERP) will be developed before the commencement of construction for this project.

Decommissioning

In general, the BESS will be recycled at the expiration of the Project's life (estimated to be 30 years). Following decommissioning, the use of the land would return to agricultural use. Transmission interconnection facilities would remain in place for the life of the facility. If the transmission interconnection and distribution lines and communications lines would not be further used by a public or private utility or power generator, the gen-tie lines would be decommissioned. The aboveground portion of the gen-tie line would entail removal of the overhead conductors, wiring, and poles. The belowground communications lines would entail removal of the underground lines and conduit. All underground cables would be excavated and removed. Inverters and BESS enclosures would be removed from concrete foundations or piling, and the foundations would be removed. All wiring, cables, heating, cooling, and ventilation equipment would be disconnected from the BESS enclosures and batteries. All facility components would be recycled to the maximum extent possible. Lithium batteries would be recycled at a specialized recycling plant, and the remaining BESS components would be recycled or disposed of in accordance with the procurement documents provided by the battery manufacturer.