LANGDON MILLS
SOLAR

BESS - Battery Energy Storage System FAQs

1. WHAT TYPE OF SUPPRESSANTS ARE USED IN BATTERY STORAGE SYSTEMS?

A. Battery Energy Storage Systems will incorporate a fire suppression system with the following safety precautions incorporated – fire alarm, smoke and heat detectors, heat activated sprinkler system, fire related insulation, strobe light, and a horn. Where needed, a clean agent fire suppression is optional for assistance in suppressing a potential fire. HVAC systems are also incorporated in the battery systems to keep the batteries from experiencing thermal abuse – overheating. The HVAC system will keep the batteries cool during the summer and at an appropriate temperature during the winter, to optimize the use of the project's battery energy storage system.

2. WHAT TYPE OF CONTAINERS ARE USED TO PROTECT THE BATTERIES FROM THE ELEMENTS AND FOR ADDITIONAL FIRE PROTECTION?

A. All manufactured BESS have approved rated enclosures to protect the battery systems from the elements and for the protection of adjacent properties in the unlikely event of a fire.

3. ARE PFAS USED IN BATTERY RELATED FIRE SUPPRESSION?

A. Per-and Polyfluoroalkyl Substances (PFAS) are not used as a suppressing agent for potential fires within a BESS. Although the manufacturer has yet to be determined for the Langdon Mills Solar Project, the fire safety precautions the project will take are as follows: addressable fire panel (meaning all alarms work in a system that can communicate and has a central monitoring location, allowing personnel to identify the location of the problem), smoke and heat detectors, heat activated sprinkler system, fire rated insulation, strobe lights, and a horn. A clean agent fire suppression can be used as an additional fire safety precaution but is not necessary for keeping a fire contained to the system.

4. WHAT HAPPENS IF A FIRE OCCURS IN A BATTERY SYSTEM?

A. This may vary depending on the additional safety systems in the system. By design, the system automatically disconnects batteries from the electrical system and activates the fire suppression system to contain the fire. Additionally, there may be an automatic system that notifies first responders.

5. WHO IS RESPONSIBLE FOR TAKING CARE OF THE FIRE?

A. The local fire department will be educated by Langdon Mills Solar on how to respond to a fire at the BESS. After the fire is extinguished, the owner/operator of the system will be responsible for cleanup and repairs.

6. HOW DO BATTERIES WORK? HOW DO THEY SUPPORT THE PROJECT, THE COMMUNITY, AND THE GRID?

A. BESS store energy for use at a future time. For the Langdon Mills Solar Project, a battery system would assist in providing power to the grid during high demand and could be utilized as backup power in the case of an outage or for additional capacity for nighttime use. Battery systems support the grid by providing it with a reliable source of generated electricity to be used as demand from the grid is needed.

7. WHAT WILL THE CONTAINERS SIT ON? WILL THEY REST DIRECTLY ON THE GROUND, OR WILL A CONCRETE PAD BE POURED?

A. There will be a properly engineered and installed concrete pad underneath the BESS.

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