

SolarTech Power Solutions

Safe distance between energy storage power stations and buildings



Overview

How far away should you stay from power lines?

There are various guidelines based on scientific research regarding how far away you should stay from power lines to ensure your safety. Generally, it helps if you live at least 1,970 ft. away from high-voltage transmission power lines. But, this distance may vary in some cases.

Where should the energy storage system be located?

All Energy Storage System installations shall be located at the same storey as the fire engine accessway/ fire engine access road. c. The allowable Maximum Stored Energy for the various battery technologies in each compartment shall be as listed in Table 10.3.1. a It shall refer to an aggregated stored energy capacity per compartment.

What happens if the stored energy capacity exceeds the limit?

Where the stored energy capacity or separation distance of the unit exceed the limit, it shall be subjected to the fire and explosion testing specified under UL 9540A and together with the NFPA 855 Hazard Mitigation Analysis report to be submitted to SCDF for approval.

What is energy storage system (ESS)?

Energy Storage System (ESS) refers to one or more devices, assembled together, capable of storing energy in order to supply electrical energy. a. This set of fire safety requirements applies to ESS which supply electrical energy at a future time to the local power loads, to the utility grid, or for grid support.

What is the minimum separation distance between BSS units?

Aggregate stored energy capacity Aggregate stored energy capacity of each BSS unit shall not exceed 20kWh. Where more than 1 BSS unit is installed, a minimum separation distance of 3m between BSS units shall be provided and the total aggregate stored energy capacity of all BSS units shall not exceed

100kWh.

How deep can ESS units be located?

(1) Cl.10.3.1a. on maximum stored energy capacity shall be in accordance with Cl.10.3.3.a. (5) & Cl.10.3.3.b. (4), respectively. (2) Cl.10.3.1b. on location shall not be applicable. ESS units is permitted to be located in basement not exceeding a depth of 9m below the fire engine accessway/ fire engine access road level.

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