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Requirements for fire extinguishing equipment in energy storage stations

Overview

What are ESS fire safety requirements?

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. It shall apply to ESS installations where the total stored energy exceeds the Threshold Stored Energy listed in Table 10.3.1 below.

What is the requirement for a fire extinguisher?

The manual states that one (minimum) dry chemical or CO2 fire extinguisher with a minimum rating of 10B:C should be installed in the cab or at the machinery housing.

What are the requirements for small underground ESS installation?

Category 1: Small underground ESS installation having the following requirements: (1) Cl.10.3.1a. on capacity shall not be applicable. (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.

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.

Which smoke purging system should be provided for the compartmented ESS room?

The smoke purging system to be provided for the compartmented ESS room shall be in accordance with Cl.7.4.3. Battery management system (BMS) shall be provided for monitoring operating conditions and maintaining voltages, currents, and temperatures within the manufacturer's specifications.

How wide should the exit staircase be for unmanned firefighting equipment?

To facilitate the deployment of unmanned firefighting equipment, exit staircase with at least 1.2m clear width and located within 10m measured from the nearest edge of the compartmented ESS room exit access door to the exit staircase door shall be provided.

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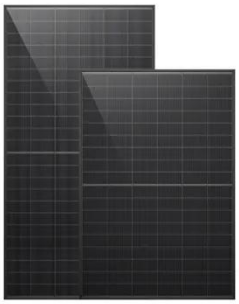

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