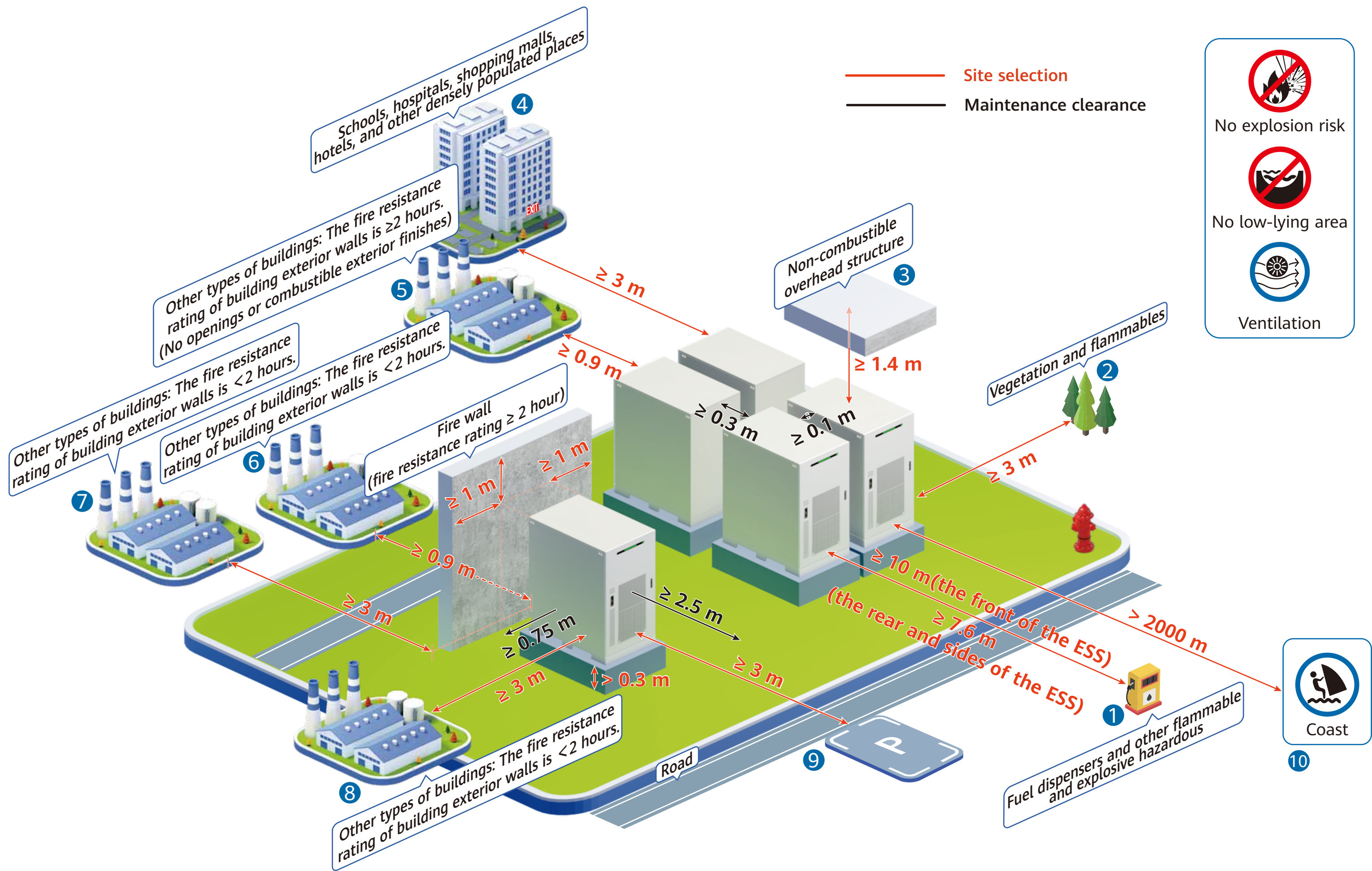


Commercial and Industrial Hybrid Cooling Grid Forming ESS Site Requirements

Applicable product models: LUNA2000-(107-241) Series Commercial and Industrial Hybrid Cooling Grid Forming ESS



Site Selection Requirements

Regulatory compliance			The ESS site selection and installation shall comply with local ESS standards and fire protection regulations or standards.	
Installation environment			Select a well-ventilated environment without fire or explosion risks . The horizontal level of the installation site must be above the highest water level of that area in history and at least 300 mm above the ground. The site must not be located in a low-lying land .	
Deployment space			The ESS applies only to outdoor scenarios and must not be deployed indoors.	
Distance	①	Flammable and explosive hazards	The distance between the front of the ESS and flammable and explosive hazards such as fuel dispensers, oil tanks, gas tanks, and hydrogen dispensers shall be ≥ 10 m . The distances between the rear and sides of the ESS and flammable and explosive hazards such as fuel dispensers, oil tanks, gas tanks, and hydrogen dispensers shall be ≥ 7.6 m . The distance must not be shortened by using a fire wall.	≥10m / ≥7.6m
	②	Vegetation and flammables	There shall be no vegetation or flammables within 3 m of both the ESS and the ESS plant site. Single specimens of trees, shrubbery, or cultivated ground cover such as green grass, ivy, succulents, or similar plants used as ground covers shall be permitted to be exempt provided that they do not form a means of readily transmitting fire.	≥3m
	③	Overhead structure	You are advised not to add any overhead structure above the ESS. If an overhead structure is necessary in special scenarios, the following conditions must be met: 1. The distance between the overhead structure and the top of the ESS shall be ≥ 1.4 m . 2. The overhead structure shall be non-combustible.	≥1.4m
	④	Densely populated places	The ESS shall be ≥ 3 m away from key positions such as main entrances and fresh air systems in densely populated places such as schools, hospitals, hotels, and shopping malls. The distance must not be shortened by using a fire wall.	≥3m
	⑤ ⑥ ⑦ ⑧	Other buildings	The ESS shall be ≥ 3 m away from buildings, public roads, and parking spots. If either of the following conditions is met, the distance between the ESS and buildings, public roads, and parking spots shall be permitted to be reduced to 0.9 m . In addition, clearance requirements for equipment transportation, installation, and maintenance shall be considered. 1. There is a fire wall with a 2-hour fire resistance rating between the ESS and buildings, public roads, and parking spots. The fire wall shall extend 1 m above and 1 m beyond the physical boundary of the ESS. 2. The building walls near the ESS have a 2-hour fire resistance rating and are free of openings and combustible exterior decoration, or the openings and combustible exterior decoration are ≥ 3 m away from the ESS.	≥3m
	⑨	Public roads and parking spots		
	⑩	Coast	You are advised to use the ESS in an outdoor environment > 2000 m away from the coast. You are advised not to use the ESS in an area within 2000 m of the coast. (If you need to use it, confirm with the vendor or the Company's engineers.)	>2000m
Safety facilities		Fire access	Transportation to the site shall be convenient, with fire engines able to reach it via surrounding roads.	
		Fences and walls	You are advised to use physical walls or fences for isolation and protection in the energy storage equipment area. The fences shall be equipped with a door lock and the recommended fence height is > 2.2 m .	

Foundation Requirements

- The installation dimensions and load-bearing capacity requirements must be met.
- The local historical maximum rainfall drainage requirements must be met.
- The foundation must be **above the highest water level of that area in history and at least 300 mm above the ground**.
- The horizontal error between the foundation and the contact surface of the ESS shall be **less than or equal to 3 mm**.

Other Requirements

- It is recommended that batteries be used soon after being deployed onsite. Batteries that have been stored for an extended period shall be charged periodically. Otherwise, they may be damaged.
- The **tools** meet the insulation level and protection requirements.
- Ensure that **fire fighting facilities** are effective before installation and commissioning.
- The **personnel qualification** meets the requirements of local laws and regulations or standards.
- Both** the site selection requirements and maintenance clearance requirements **must be met**, and the **greater value** shall be adopted as the clearance distance.