03 (2025-09-15)

Site Requirements

Applicable product models: LUNA2000-(4472, 5015) Series

Site Selection Requirements

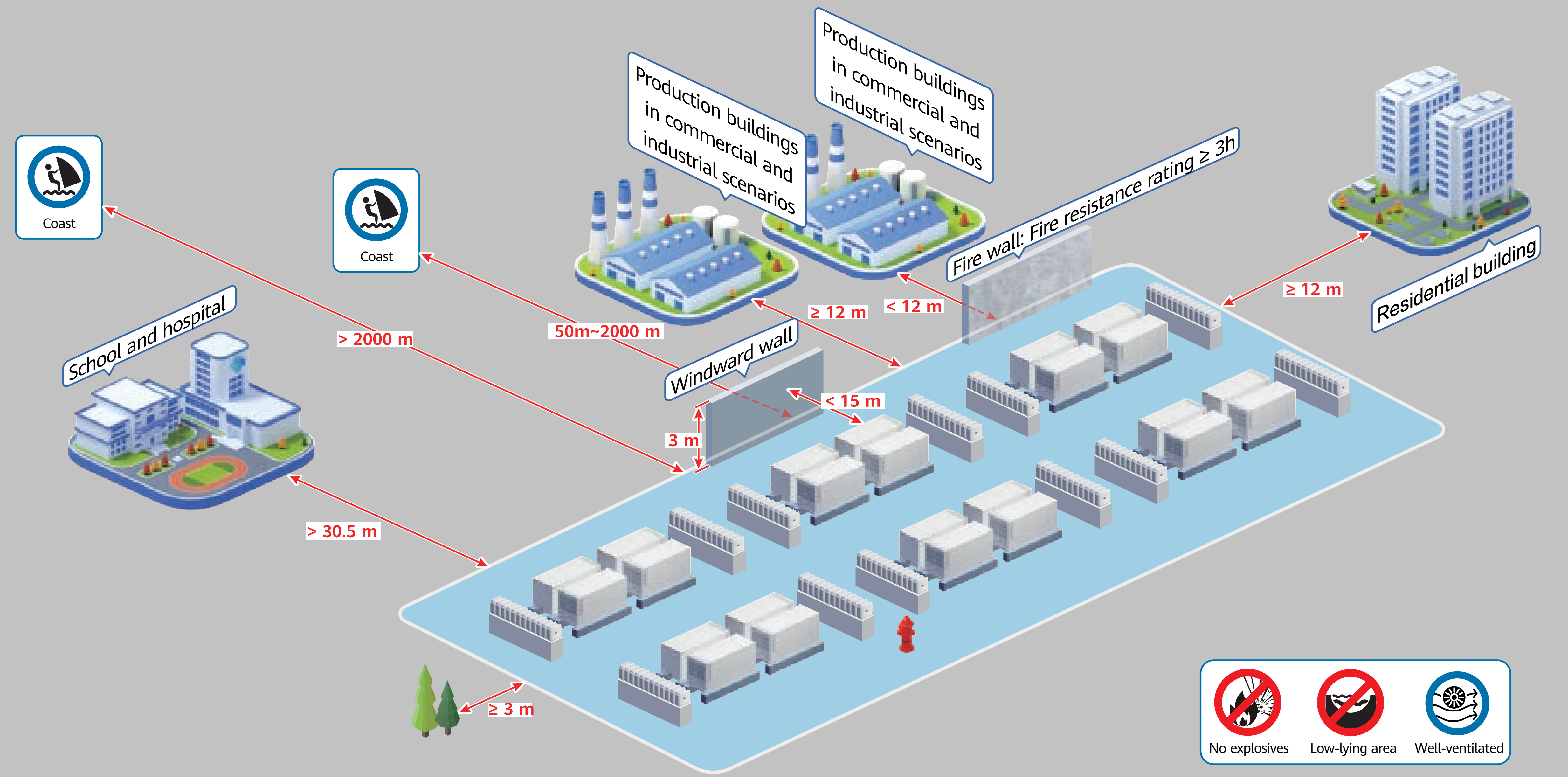
- The site must be located in an outdoor and well-ventilated environment without explosion risks, and must not be a low-lying area.
- No obstacle shall be above the ESS. For example, the ESS must not be installed under a parking shed and PV modules must not be installed on the top of the ESS.
- For safety purposes, the distance between the ESS and residential buildings must be no less than 12 m, and the distance between the ESS and densely populated buildings such as schools and hospitals must be greater than 30.5 m.
- For safety purposes, the distance between the ESS and production buildings in commercial and industrial scenarios must be no less than 12 m. If the distance does not meet the requirement, fire walls shall be installed between the ESS and production buildings.
- There must be no vegetation, especially flammable plants within 3 m of the ESS or the site.
- Transportation to the site shall be convenient and fire suppression facilities should be reliable.
- The ESS shall be more than 2000 m away from the coast. When the site is 50–2000 m away from the coast, select a model based on the site corrosion level. In coastal environments, to prevent irreversible damage on the windward side and reduce maintenance difficulty, you are advised to install a windward wall (3 m high and within 15 m of the container). Do not use the ESS in an area less than 50 m away from the coast.

Foundation Requirements

- The installation dimensions and load-bearing capacity requirements must be met.
- The local historical maximum rainfall drainage requirements must be met.
- It is recommended that the height of the foundation above the horizontal ground be less than or equal to 500 mm.
- 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 should be less than 5 mm.
- It is recommended that the cabling space at the bottom of the ESS be no less than 1.3 m (with maintenance space at the bottom) or 1.1 m (without maintenance space at the bottom).

Other Requirements

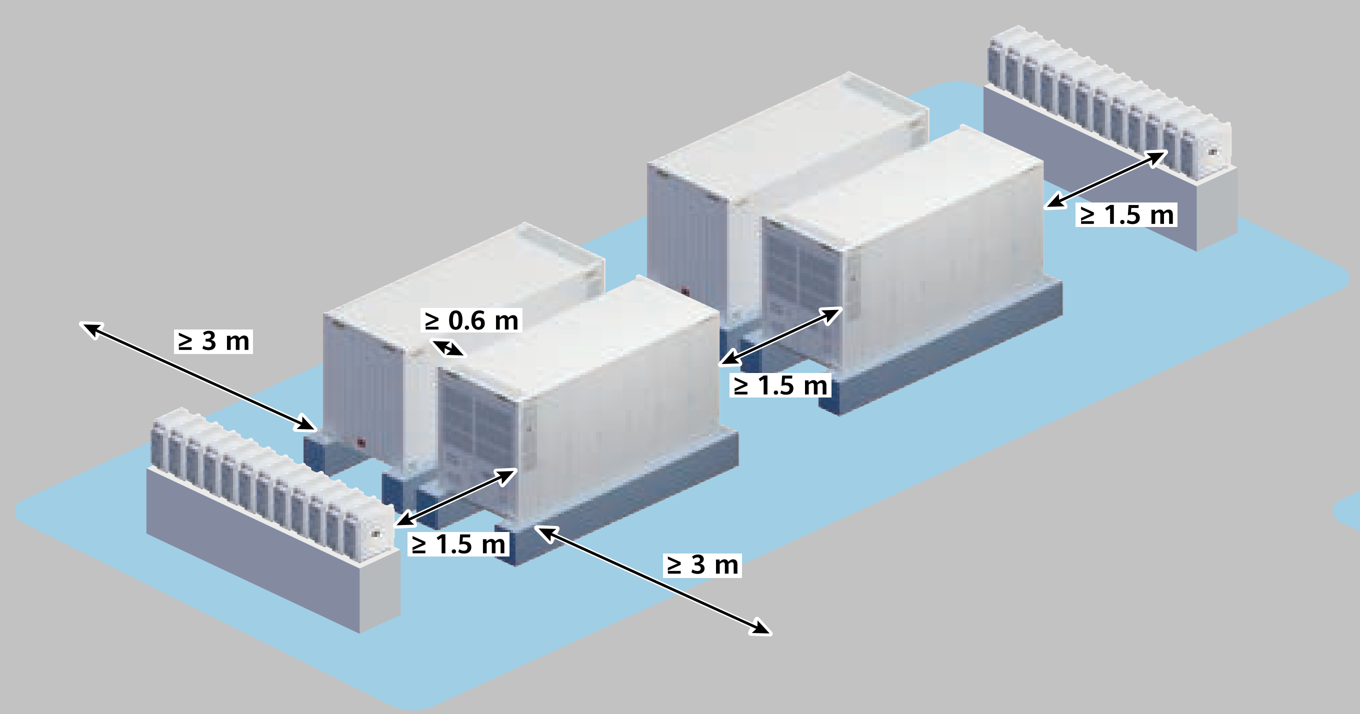
- It is recommended that batteries be used soon after being deployed onsite. Batteries that have been stored for an extended period shall be charged periodically. Otherwise, they may be damaged.
- The tools meet the insulation level and protection requirements.
- Ensure that fire fighting facilities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



Clearance Requirements

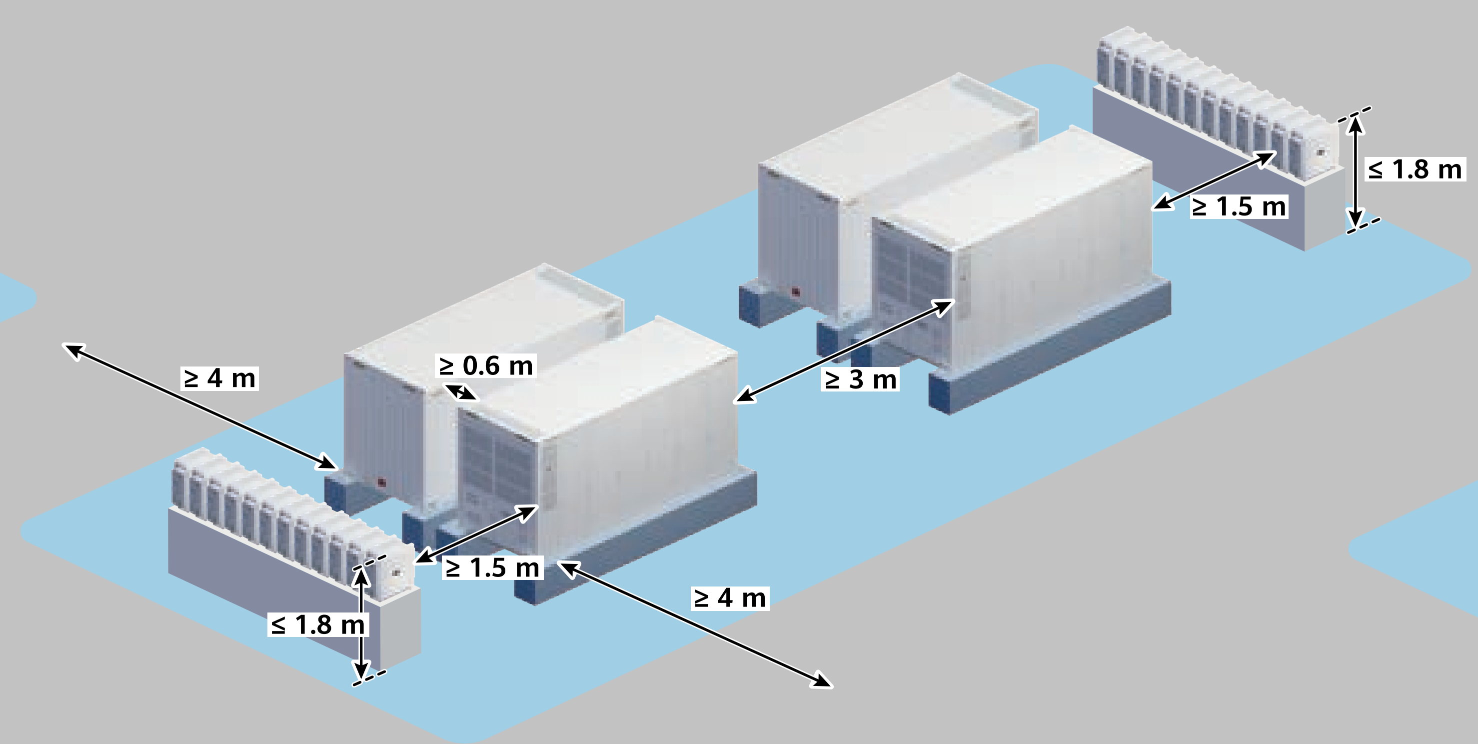
Scenario of using a forklift and crane

Use a forklift to install and maintain a battery pack.
Use a crane to install and maintain an LTMS.



Scenario 1 of using a forklift only (the height of PCSs or obstacles around the ESS ≤ 1.8 m)

When using a forklift to install and maintain the LTMS on the PCS side, you need to lift the LTMS to a height greater than 1.8 m before moving the LTMS.



Scenario 2 of using a forklift only (the height of PCSs or obstacles around the ESS > 1.8 m)

When using a forklift to install and maintain the LTMS on the PCS side, you can directly move the LTMS without lifting it.