Krongart BESS

TotalEnergies H_2
a company owned by TotalEnergies and eren

Managing Fire Risk

Community safety is a key priority for TE H2, reflected in how the Krongart BESS will manage fire risk through design and operational considerations.

TE H2 will ensure that all battery systems used in the Krongart BESS are compliant with all relevant South Australian Country Fire Service (CFS), Australian, and International safety standards and have undergone rigorous testing to minimise the risk of a fire starting and propogating.

The BESS containers will use a variety of fire risk mitigations that are built into the system and design of the BESS project site. In the unlikely event that a fire does break out within one of the BESS containers, the design of the site (including minimum setbacks from each container and firebreaks at the boundary of the project) will reduce any risk of fire spreading to another BESS container or adjacent properties.

As a part of the final design, water tanks and other firefighting equipment will be included to local fire standards.

The BESS containers will also feature container-level monitoring equipment, ventilation, thermal insulation, and fire resistant construction.

Design precautionary measures

TE H2 will manage fire risks in accordance with relevant standards and in consultation with the South Australia CFS.

Mitigations that will be employed by TE H2 as a part of the final design include, but are not limited to:

- Minimum setbacks between battery containers
- Firebreaks of 10 metres around outermost BESS infrastructure
- Fire water tanks with adequate capacity
- Firefighting equipment and maintained access

Groundwater

TE H2 will manage groundwater and any potential firefighting run off in accordance with relevant local, State, and Federal requirements. The Krongart BESS containers will be designed to contain any fire incidents within their individual enclosure, which significantly reduces the risk of contaminated water runoff.

The BESS containers are also designed to minimise the likelihood of fire, however in the unlikely event of a fire within a BESS container, they are designed to burn out without propogating to nearby containers.

Fire water tanks installed on site will not be used to extinguish any fire within a container directly, but rather to cool off neighbouring infrastructure and to prevent the spread of any fire. This further minimises the risk of groundwater contamination.

Neighbour safety

Ensuring local community and neighbour safety was a key focus when choosing the location of the Krongart BESS. The BESS is located on cleared land, with only three neighbouring houses within 1.5km of the project. This separation, combined with the project's fire management design, helps reduce fire risk and minimises potential impacts to the community. Water tanks and associated firefighting equipment installed on site will assist in controlling any encroaching bushfires as well.