

## Safety

The safety of the BESS element of our proposal was raised by several people at the last public exhibition.

The scheduled maintenance regime will regularly require:

### Battery system

- **Visual examination:** Periodical visual checks to identify potential damage, leakages or corrosion.
- **Thermal inspection:** Use of infrared thermography to identify potential hotspots, e.g. poor electrical connections.
- **Capacity testing:** Regular discharge tests to check the battery capacity and actual performance, ensuring the system still meets the expected energy output, as per the BS EN 62620 standard.
- **Regular cleaning:** Keeping battery terminals and general connections clean helps avoid poor connections.

### Power Conversion System (PCS)

- **Regular battery inverter testing:** The regular testing and recalibration of the inverters to guarantee the system efficiency and operational safety.
- **Firmware updates:** Regular software updates to ensure new releases or bug fixes are applied.
- **Visual examination:** Undertake inspections to identify potential damage to connectors, cables, connectors, etc.

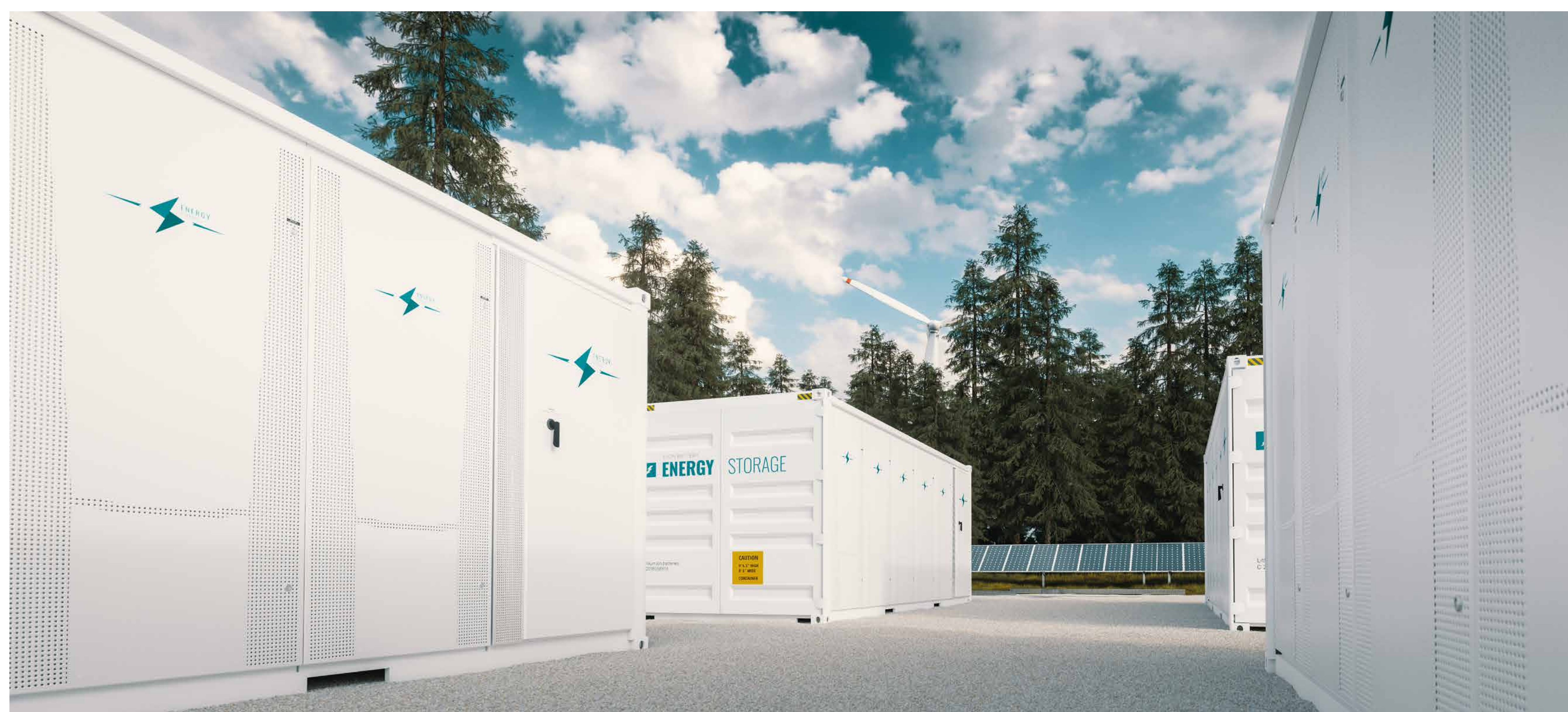
### Cooling and HVAC

- **Air filters maintenance:** Ensure filters are regularly cleaned or replaced to guarantee optimal cooling performance.
- **Fans and ventilation system inspection:** Inspect ventilation fans and airflow paths for blockages and ensure proper air circulation.
- **Coolant levels:** For liquid cooling systems, verify coolant levels and test for potential system leaks.

### Fire suppression

- **Functional system testing:** This involves periodical fire tests to verify that the system performs as expected.
- **Smoke and gas detectors testing:** This involves periodical tests to verify early detection of any hazardous situations.
- **Alarm system testing:** This involves periodical tests to confirm the alarm notification is triggered under a potential fire event.

Our site has been designed according to the Grid Scale Battery Energy Storage System planning - Guidance for FRS (2022) produced by the National Fire Chiefs Council.



INDICATIVE IMAGE

If you have any comments or questions about any aspect of the project please talk to a member of the project team or visit our website.

