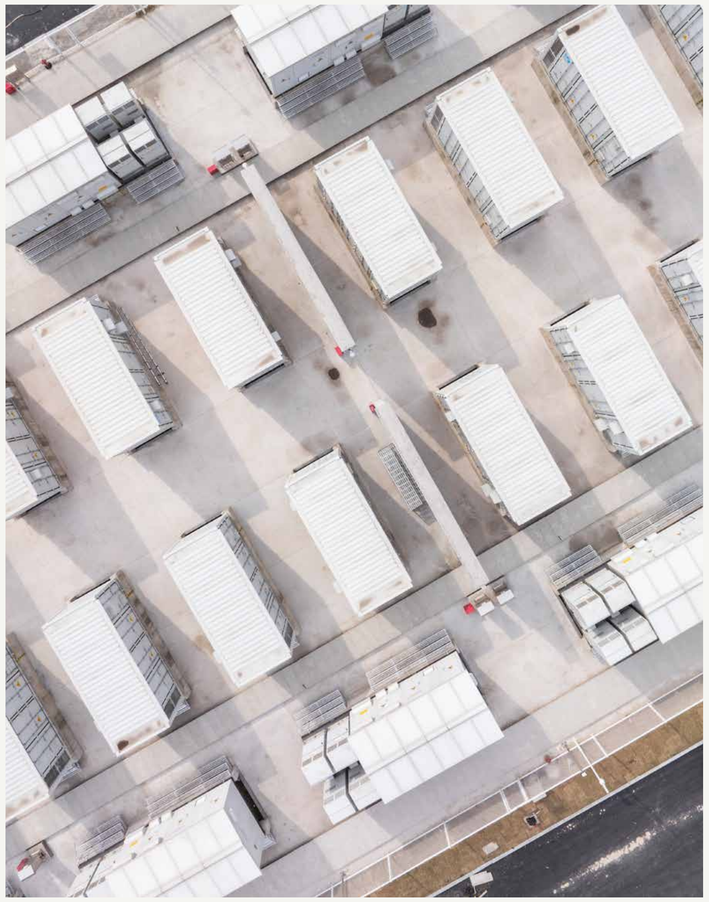
BESS FIRE SAFETY & FAQ'S



FIRE SAFETY

Fire safety has been instrumental throughout the design stages of the development. The BESS site will comply with fire and safety regulations and will provide the required Site Specific Risk Information (SSRI) to the Fire and Rescue Services via South Lanarkshire Council.

The site will have an emergency response plan, of which draft details will be presented within the Planning Application. The site will be accessible from two directions to allow emergency service vehicles access during different wind conditions. All roads are wide enough for emergency vehicles to manoeuvre safely.

BESS FAQ'S

WHAT IS THE PURPOSE OF BESS?

Battery Energy Storage Systems (BESS) are groups of batteries connected to both a power generation source and the electricity grid. They store excess electricity and are ready to feed it back into the grid at times of peak demand or whenever required.

ARE THEY EFFECTIVE?

BESS are one of the most efficient technologies in the chain of electrical production. They allow the avoidance of waste and allow full use of potential renewable sources, such as wind or solar. Ongoing advances in battery technology have improved system reliability and efficiency, supporting the UK's transition to a resilient, net zero electricity network.

DO THEY POLLUTE?

Storage systems are incredibly sustainable, with the lithium-ion batteries they use being recyclable.

ARE BESS SAFE?

BESS units are located within purpose built containers that are connected to the general power grid. These containers are fitted with specialised security measures which enable them to be supervised remotely. By doing this, their operation can be continually monitored and action can be taken immediately if any risk is identified.

WHAT ARE THE ADVANTAGES OF BESS?

There are a number of benefits, for example retaining a supply of clean energy that would otherwise be lost or ensuring that the grid is a reliable, uninterrupted and secure energy source.

ARE THE BATTERIES NOISY?

The batteries themselves do not emit any noise, however the process required to cool them (particularly during charging and discharging) needs both fans and chillers which generate noise. Noise analysis is carried out during the assessment phase of any potential development prior to a planning application being submitted, to ensure minimal disruption with mitigation built into the site design.

HOW LONG WILL THE BESS BE IN OPERATION?

The typical operational lifespan of a BESS is around 25–30 years. After this period, the site can either be repowered with new technology or fully decommissioned and restored.