

# The need for battery energy storage

The way in which we use, and generate, electricity is changing. Our electricity system is in a transitional period to manage the increasingly complex supply and demand needs of the 21<sup>st</sup> Century, and battery energy storage systems provide an important role in this.

Battery energy storage technology supports the variable generation of renewable energy technologies by playing an important balancing and grid stability role. Battery energy storage helps support National Grid by storing energy at times when generation exceeds demand and releasing electricity back to the national grid network when demand exceeds generation.

Battery energy storage is considered the fastest technology for responding to a sudden spike in demand or an abrupt loss of supply.

Battery energy storage can also provide grid stability (frequency of the grid) services on a second-by-second basis as well as providing additional network capacity, particularly at times of network stress.

Battery energy storage is essential to enabling and accelerating the rollout of zero carbon energy. Increasing its installed capacity will be vital to support Scotland's net-zero emissions target and help to deliver a reliable, resilient, decarbonised electricity system for the future.

RES has been working in the battery energy storage market for a decade and design safe storage projects using proven Lithium iron phosphate technology. RES has developed over 830MW of energy storage projects across the UK and Ireland and currently manage over 600MW of operational storage projects with 24/7/365 monitoring provided from our control centre in Glasgow.



Image for illustrative purposes only

## Westport Energy Storage Proposal

[westport-energystorage.co.uk](http://westport-energystorage.co.uk)

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