Highview

What is Energy Storage?

The UK Government's Clean Power 2030 Action Plan identifies energy storage as fundamental to achieving a 95% clean power system by 2030. Substantial deployment of short-, long- and flexible-duration is required to deliver a power grid with a high penetration of renewables like wind and solar.

With traditional forms of generation like coal and gas, power can be generated when it's needed most. Renewables like solar and wind are intermittent — so we need to capture, store and then shift the electricity generated by these renewables when demand increases.

This consultation is for a Battery Energy Storage System (BESS), which stores power for up to 8 hours. Highview is also applying for planning permission to build a Liquid Air Energy Storage (LAES) system at Hunterston.

These two technologies are independent - but our intention is to operate them in a complementary way at Hunterston. This will allow the whole system to store power over long periods (the LAES) but also be highly flexible and responsive to sudden power demand in the grid (the BESS).

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