How much energy storage are we going to need to support the UK 2050 net-zero

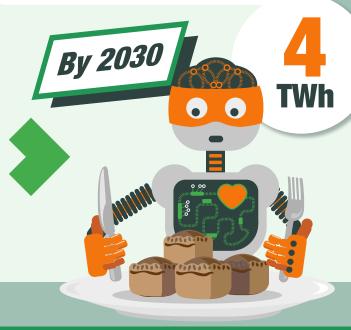
Energy Storage

supergenstorage.org

Supergen

Using the analogy of pies, we can visually demonstrate that future energy storage needs expand in-line with estimated exponential consumption increases over time...







UNITS in Terawatt hours (TWh)



Current UK storage capacity

AROUND

CONVERSION TABLE [Approximate]



12 PIES ~ **12** TWh

40 TWh

STORAGE DURATION

The storage discharge times will range from 1 second to 2,000hrs and energy could be held for up to three years.

POWER RANGE

- Short-duration ranging from seconds to a couple of hours (100 gigawatts)
- Medium-duration ranging from 4hrs to 200hrs (70 gigawatts)
- Long-duration ranging from 200hrs up to 2,000hrs (about 40 gigawatts)

(Average consumption)