



INDICATIVE IMAGE



## Battery Energy and Storage Systems

### Why does the site include a BESS?

Battery storage, or battery energy storage systems (BESS), are devices that enable energy from renewables, like solar and wind, to be stored and then released when the power is needed most.

Battery storage technology has a key part to play in ensuring homes and businesses can be powered by green energy, even when the sun isn't shining or the wind has stopped blowing.

#### According to the National Grid

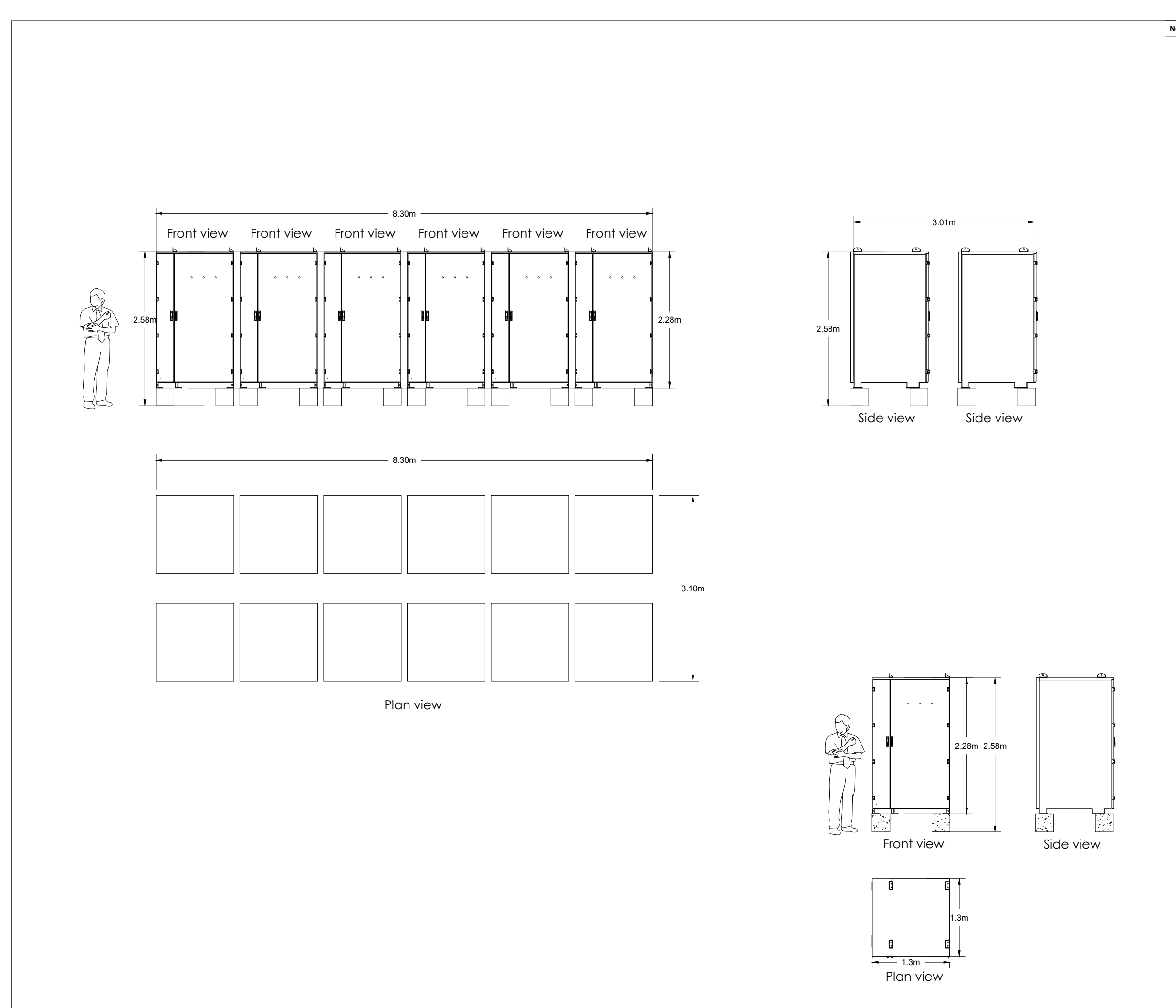
Every day engineers at National Grid and electricity grids worldwide must match supply with demand. Managing these peaks and troughs becomes more challenging when the target is to achieve net zero carbon production. Fossil-fuel fired plants have traditionally been used to manage these peaks and troughs, but battery energy storage facilities can replace a portion of these so-called peaking power generators over time.

The UK government estimates technologies like battery storage systems – supporting the integration of more low-carbon power, heat and transport technologies – could save the UK energy system up to £40 billion by 2050, ultimately reducing people's energy bills.

### BESS layout

We moved the BESS to a less-visible part of the site and it also meets these safety requirements.

- More than 25-30m from occupied buildings within the battery compound.
- We can clear vegetation within 10m of the units.
- One formal access point to the east, and informal vehicular access from the northern, western and southern boundaries of the site. At least one will be upwind of prevailing wind direction.
- Water tanks that can deliver no less than 1,900 litres per minute for at least two hours are included in our design.
- A site-specific Sustainable Drainage Systems (SuDS) strategy will accompany our Section 36 application: this is crucial for management of water runoff in the event of an emergency and will protect the environment and prevent contamination of water sources.



BESS CONTAINER



# £40billion

amount technologies like battery systems could save the UK energy system, reducing bills

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.

