CARBON NEUTRAL ENERGY

"Hybrid Power Solutions"

Battery Storage:
Remote Locations 3G-5G Masts

Delivering & Storing
Mobile Green Power
To Remote Locations

What is a Tower or Mast

The connection between any mobile device and the mobile network operator's (MNO) network is done using radio signals. The antennas that the MNOs use to send and receive those radio signals need to be high above the ground to avoid interference from objects like buildings and trees, so they are attached to tall metal towers or masts.

Emergency Backup power

Rural electricity supplies are unreliable and currently have small back up power, using diesel or gas generators.
When utility power is lost, a controller switches tower and ground equipment to back-up battery supply. The emergency generator starts. An Automatic Transfer Switch (ATS) routes the generator power to a controller that switches from backup battery power to emergency generator power. Once the utility power is restored, the ATS disconnects the generator power and connects the utility power to the grid. The generator enters the shutdown sequence. This description of events is a basic illustration. With larger systems, many more steps are involved with the additional equipment associated.
The UK is moving towards the roll out of 5G, which will not only be used for communication but aid the use of autonomous cars. Therefore reliability and redundancy is crucial. **CNE** has that solution!

Our Solution

Large Capacity Battery Storage

Minimum 10-year Life Cycle

Robust Design

Hybrid

Bespoke Builds Available

Ideal For Remote Locations

Green Off Road Delivery Vehicle

500Kw Deliverable & Transferable Power to Remote Locations

Latest Tracking Technology

Efficient

Low Maintenance

Unique Commercial Model available for Long Term Lease

Renewable Back up Power

CNEs unique robust modular design for remote sites are efficient & environmentally friendly. With the aided help of our 4x4 **Mobile** Hybrid unit, the **eGen** will always have the ability to be topped up even in the harshest of weathers.

CNE is able to take power direct from a local renewable source delivering the power direct to the masts when required. Our Hybrid unit can include solar panels, low emitting gas or diesel generators to give guaranteed year round power, to minimise maintenance and fueling, which will enhance robustness of the 5G network throughout the UK.

The **eGen** range is fitted with the latest tracking technology & smart analytical software allowing **CNE's** control rooms to logistically track & monitor the hardware & performance of each power module. Providing our customers daily reports on energy performance, consumption & thus allowing for future proofing backup power when required.