

# Managing your Battery Energy Storage System (BESS) on Site



**On Site Checks and Maintenance:** Like all equipment on site, a BESS needs regular checks to ensure it is performing correctly and delivering the savings you'd expect.

The below guide will help you ensure your BESS is working correctly, however, if you have any concerns or need further support, please contact our Uptime team on **01246 858702**.

## Do

- Ensure the generator is always left in auto.
- When the generator is charging the Battery Energy Storage System ensure the charging light is illuminated on the BESS.
- Do ensure the Generator is inputted into input one on the BESS unit.

## Don't

- Do not leave the generator in manual, unless advised otherwise.
- Do not assume the BESS is charging when the generator is running, check the charging light input one is illuminated, and the digital multi is in bulk, absorption or float, if it is not illuminated call the Uptime Team on **01246 858702**.

## Additional Trouble Shooting, if your BESS is not performing

- Manage your site load, ensure all non-critical power is turned off at night, weekends or when you want the BESS power utilised (including heaters).
- Check all cables are plugged into the BESS (this must be done in compliance with all safety regulations and carried out by a competent person, and cables are plugged into input one).
- If the auto start light is illuminated on the BESS, but the generator is not running, call the Uptime team on **01246 858702**.
- The BESS has 2 modes that are set up as per your requirements on install (Hybrid or Timer Mode). If the BESS is not running as you would like, speak to a member of our Uptime team on **01246 858702**, they will check this mode and alter if required.

**24/7 Technical Support - National Uptime Centre**

**01246 858702 | [nationaluptimecentre@sunbeltrentals.co.uk](mailto:nationaluptimecentre@sunbeltrentals.co.uk)**

## The function of a Battery Energy Storage System (BESS).

A Battery Energy Storage System (BESS) is a large battery that can be charged by a generator, mains or a combination of power sources. When linked to a generator in the correct way it is effective in reducing fuel consumption, lowering emissions, lowering noise and can reduce overall costs associated with temporary power. When paired with a generator, the generator will typically support the peak power demands on site, and it will charge the BESS while doing so.

When the load drops (typically below 8kW), the BESS will take over from the generator to power your site. This is usually at evenings and weekends, when loads are low. But this can vary per application and site. The battery is silent and will turn off the generator (providing the generator is in AUTO) and the BESS will continue to power your site, with no use of fuel, no noise and no emissions.

If your site needs power 24/7 this often results in an average 50% reduction\* in fuel consumption and associated costs.

\*Savings vary per site and application and 50% is the industry average saving, however our team will advise before the hire if pairing a BESS with a generator is right for your particular site.

