

HOLIDAY ACCOMMODATION COTTAGES MAXIMISES RENEWABLES WITH 100kW ENERGY STORAGE SOLUTION

The logo for VIRTUE Energy Storage Solutions, featuring the word "VIRTUE" in a bold, green, sans-serif font with a stylized leaf icon integrated into the letter 'U'. Below it, the words "ENERGY STORAGE SOLUTIONS" are written in a smaller, green, sans-serif font.

ENERGY STORAGE SOLUTIONS

Client:

Leisure – holiday accommodation

Application:

Renewable firming

Voltage regulation

Supply resilience

Peak shaving

Grid contracts

Location:

Norfolk, UK

Technology:

100kW BESS, solar (PV), wind

Energy reduction:

57.5%

Project Date:

2017

CHALLENGE

The client are owners of rural cottages which provide holiday accommodation. Based in the Norfolk countryside, the site has large renewable capacity. The cottages are available to rent all year round.

The client predominately was looking to maximise its on-site generation to provide cost savings as well as reducing its impact on the environment by reducing the amount of energy consumed from the grid.

Additionally, it wanted an asset capable of partaking in grid contracts to provide the site with new revenue opportunities to support the investment into its holiday cottages.

SOLUTION

After a full and thorough site survey and analysis of the site requirements, Powerstar recommended the installation of a 100kW VIRTUE Battery Energy Storage System (BESS) combined with voltage regulation and UPS capabilities.

RESULTS

The Powerstar VIRTUE unit, installed in 2017, has enabled the site to maximise its on-site renewables through the process of renewable firming, which provided a 57.5% reduction in energy consumption.

Additionally, it is providing the site with an optimised voltage output, ability to access additional revenues through grid contracts and supply resilience with peace of mind through its UPS capabilities.

www.powerstar.com/virtue

ENERGY STORAGE SOLUTIONS FROM powerstar

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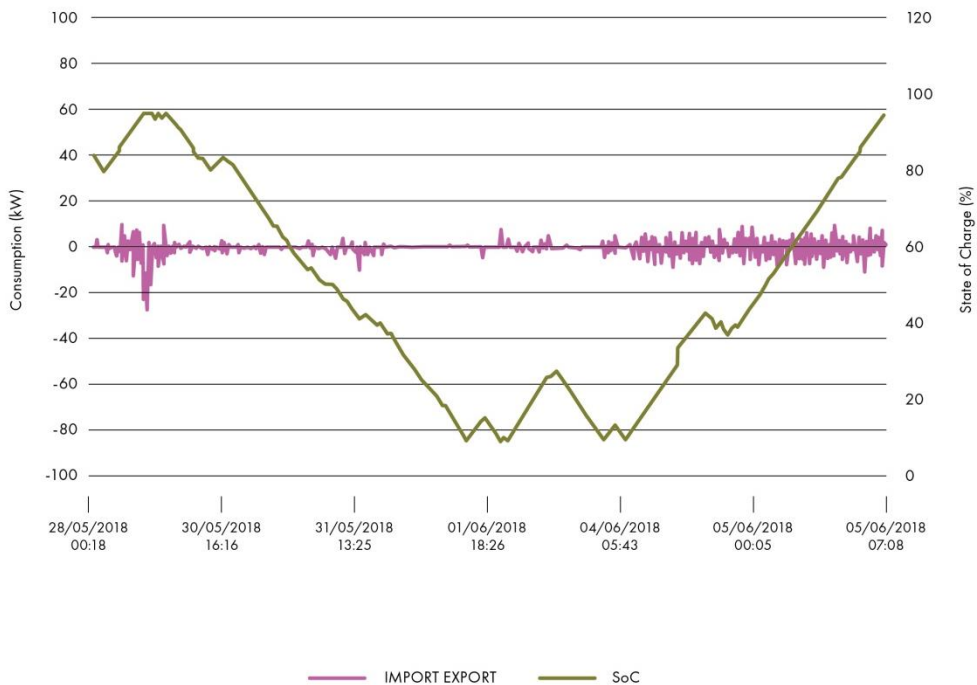
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ANALYSIS

The graph below highlights the results following the installation, in particular the result of the Powerstar VIRTUE's charging and discharging profile to minimise grid import and export

Site Import-Export



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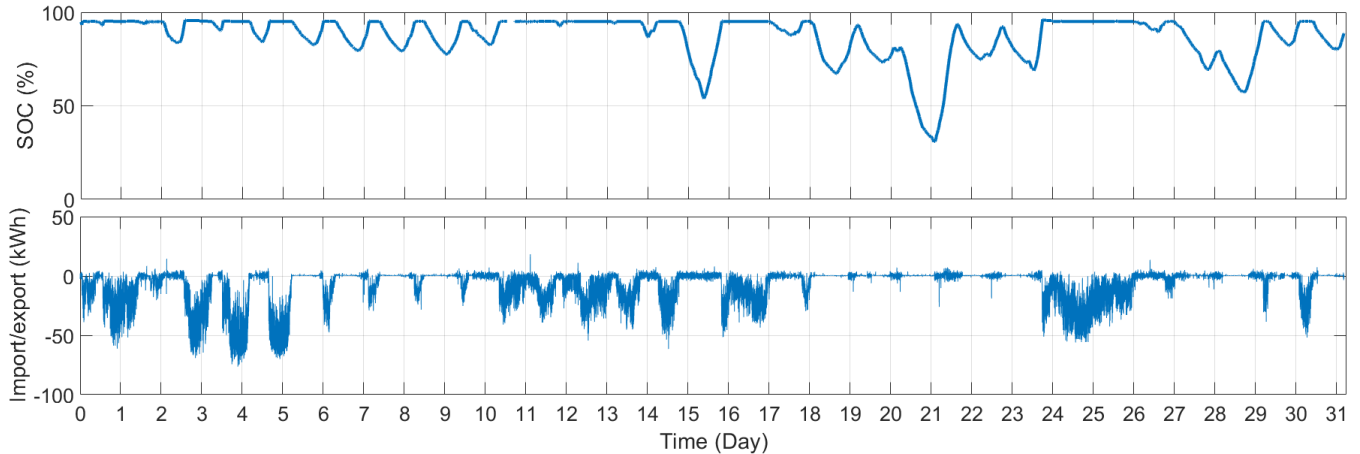
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ANALYSIS

The graph below shows the import/export and state of charge (SoC) for the installation from 17th June 2018 to 16th July 2018.

During this period the site only imported 2% of its total energy use from the electricity grid.



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