SHIPMEADOW SOLAR FARM

AUGUST 2023

40 MW
Capable of producing up to 40MW of clean, low-cost electricity

18,000* homes
Equivalent to the average, annual electricity consumption of 18,000 homes

17 acres
of Skylark habitat

1.7 km
of new permissive footpaths

Since our Public Information Day on 25 May 2023, we have been continuing to refine the design of the solar farm, taking into consideration the results of final surveys and assessments as well as any feedback from the community and stakeholders.

Overleaf is the updated layout for the proposed solar farm. As a direct result of feedback from the Public Information Day, we have relocated some of the inverters further away from residential properties and existing Public Rights of Way.

RES is proud to have been innovators in the development of the global renewable energy market and we continue to seek new and pioneering ways to improve the efficiency and generation potential of our schemes. Following recent technological and commercial advancements, we propose to include hybrid battery energy storage units as part of the proposed development to help increase the flexibility and generation opportunities for Shipmeadow Solar Farm.

Energy storage will be a key part in managing the increasingly complex supply and demand needs of the 21st Century. The grid network must be finely balanced; electrical demand must match electrical generation at all times. If this balance is not achieved, it can lead to blackouts and the failure of grid circuits.

The addition of battery storage units would enable excess generation from the solar farm to be stored, then released back to the grid network during times of no or low generation from the solar panels, for example during winter.

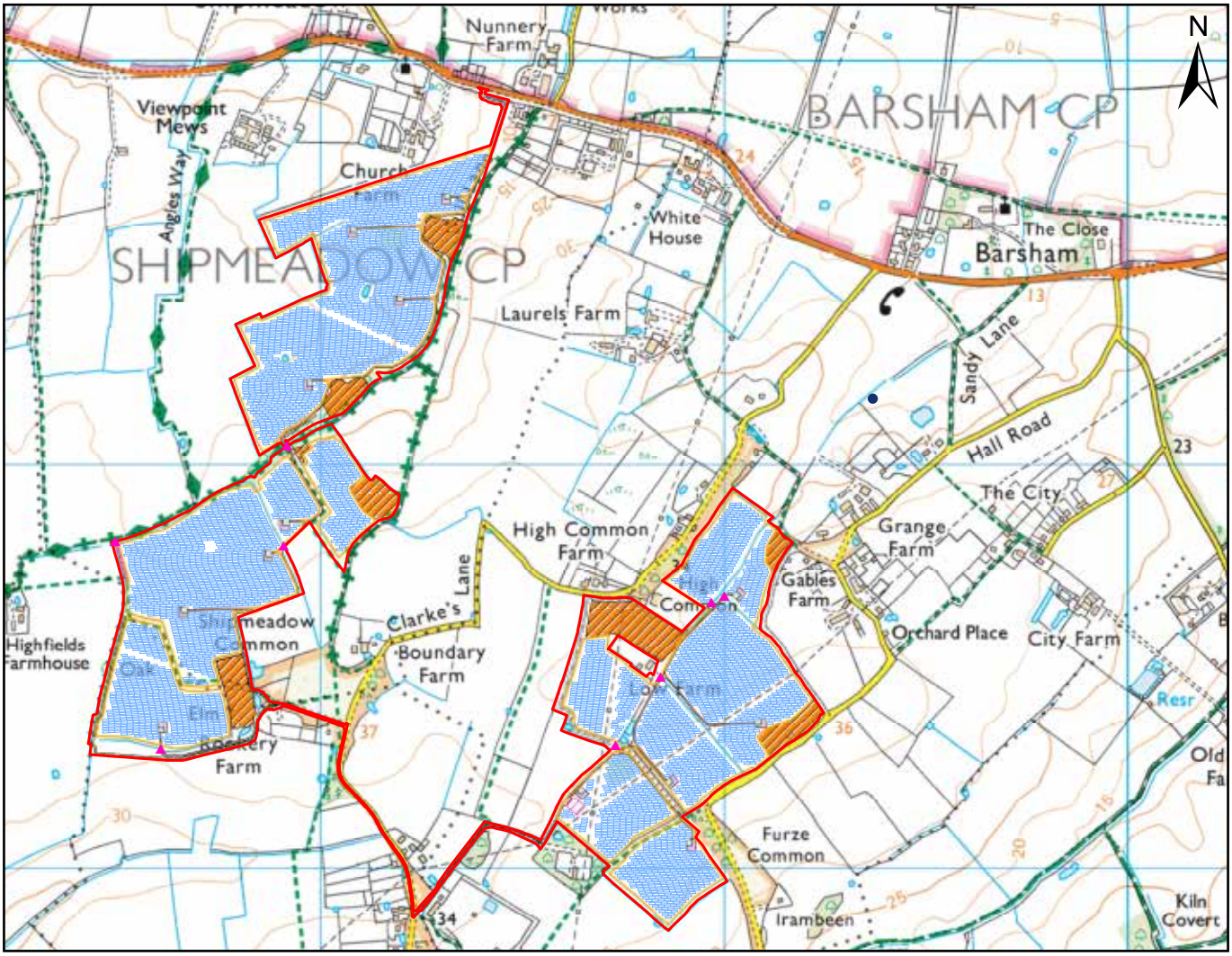
It is proposed to include 2 x battery storage containers each measuring 6m x 2.5m x 3m (length x width x height) at each inverter location (shown in the plan overleaf). A small amount of solar infrastructure has been removed to accommodate the energy units, however, Shipmeadow Solar Farm would be maintained at 40MW for solar generated electricity.

In the coming weeks, we will be preparing a planning application to submit to East Suffolk Council, which will be supported by an Environmental Impact Assessment. RES will also be submitting an application under the Commons Act 2006 Section 38 for temporary works. We will be in touch again once the application has been validated by East Suffolk Council.

* The homes figure has been calculated by taking the predicted average annual electricity generation of the site and dividing this by the annual average electricity figures from the Department of Business, Energy and Industrial Strategy (BEIS) showing that the annual UK average domestic household consumption is 3,748 kWh (Dec 2021).

Solar Infrastructure Layout - Latest design

The following plan is also available to view and/or download at www.shipmeadow-solarfarm.co.uk



Key

- Water Crossing
- Potential Development Boundary
- Solar Modules
- Temporary Construction Compounds
- Substation
- Fenceline
- Inverter and Battery Storage Location
- Tracks
- Hardstanding
- Permissive Path A
- Permissive Path B
- Permissive Path C
- Proposed Skylark Habitat

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