

Hillside Farm

Lenham, Kent

A high – spec bespoke new build with three integrated flat roof photovoltaic arrays.

TECHNOLOGY:

Photovoltaic modules:

- 46 x BENQ Sun Forte 330W modules

Inverter:

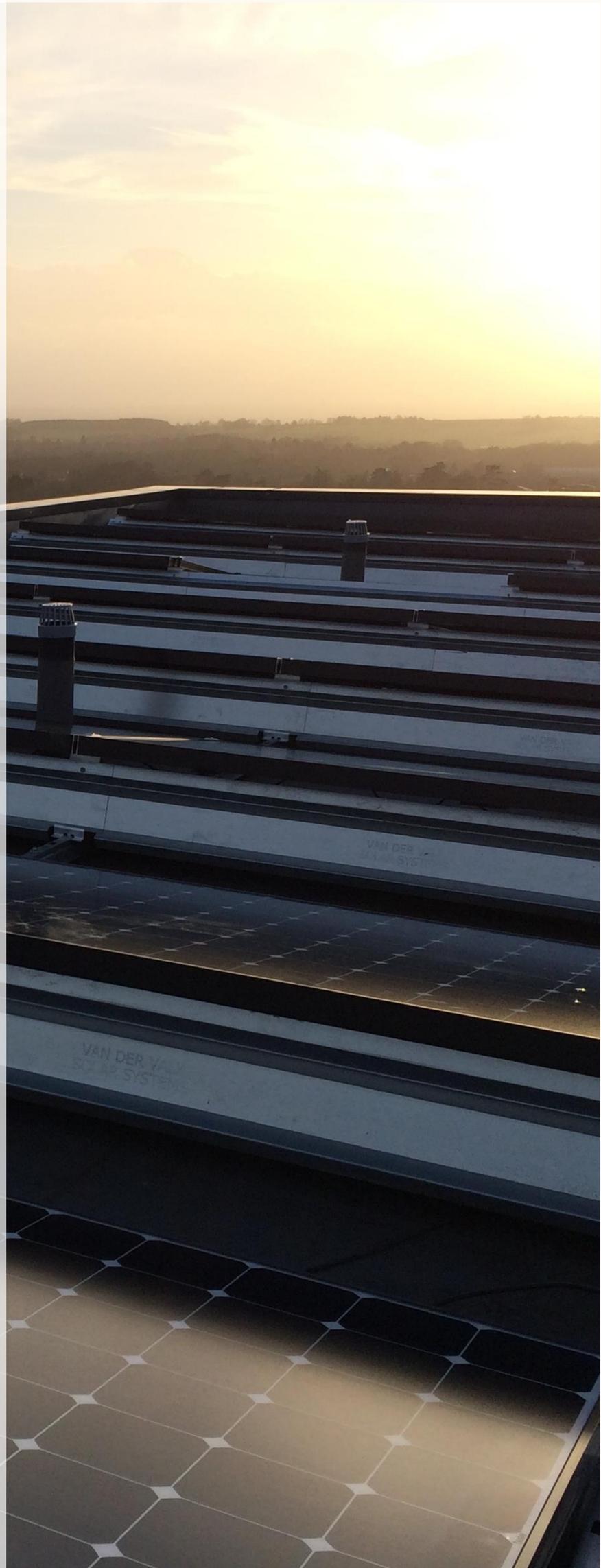
- 1 x Solar Edge 15kW 3phase inverter
- 46 x Solar Edge power optimizers

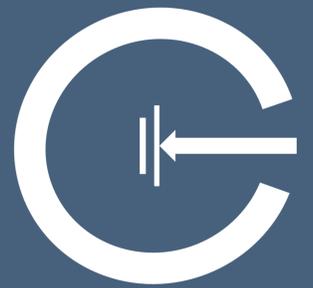
SYSTEM PEAK PERFORMANCE:

- Electrical 15.18 kWp

SYSTEM ANNUAL PERFORMANCE:

- Electrical 14375 kWh
- Displaced Co2 7432 Kg
- Estimated return on investment 6.4 yrs





Convert Energy Ltd



System overview:

Providing household and office baseload Electricity.

- 46 x BENQ Sun Forte 330W modules
- 1 x Solar Edge 15kW 3phase inverter
- 46 x Solar Edge power optimizers
- Online system control and monitoring

From sun rise to sun set!

This high spec new build property consists of three main structures.

A large property with separate office, gym and indoor pool, clearly requires significant energy. Our client wished to offset as much of the running cost as possible. The building layout provided us with three different flat roofs, all with a different orientation to the sun's path.

This allowed us to configure the three separate arrays to maximise solar gain from morning through to late afternoon. By using high performance modules, the size of each array could be reduced whilst still generating significant power. This allowed us to draw each array away from the edge parapet walls, eliminating any visual impact from the ground and surrounding area.

Annual Electrical Generation	-	14375 kWh
Annual Displaced CO ₂	-	7432 kg
Estimated Return on Investment (ROI)	-	6.4yrs

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