



SOLAR PV & ESS PROPOSAL

TAILORED TO FIT
YOUR UNIQUE CIRCUMSTANCES

ADDRESS: Castle Pub, Hickstead Estate,
Haywards Heath, RH17 5LZ

REF: C1683 – Castle Pub, Hickstead

ISSUED: 19th May 2026

**Baystar Energy Efficient
Systems**

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The proposed development at Hickstead Castle Pub will operate as an all-electric commercial site comprising a pub/restaurant with full electric kitchen, guest accommodation (B&B), and a farm shop, all served by high-efficiency building services including ground source heat pumps (GSHP), mechanical ventilation with heat recovery (MVHR) and electric cooling. Together, these loads are expected to give an annual electrical consumption in the region of 100,000 kWh.

To support this, the latest SolarEdge design (Image 1) proposes a 26.10 kWp (Image 2) solar PV system using 58 Trina Vertex S+ modules and a single 20 kW three-phase inverter, delivering an estimated 23.83 MWh of usable solar generation per year (Image 3). As shown on image 2, around 92% of this generation (21.96 MWh) will be used directly on site, meeting roughly 22% of the development's annual electricity demand, with only 1.86 MWh exported to the grid.

For the site, this translates into materially reduced operating costs, improved resilience against future electricity price rises, and enhanced environmental credentials that will strengthen the commercial appeal of the B&B, farm shop and hospitality offer. From a local infrastructure perspective, on-site generation and storage reduce peak imports and the overall burden on the local electricity network, supporting regional net-zero objectives and potentially mitigating the need for costly grid reinforcement for what is otherwise a high-load, all-electric commercial site.

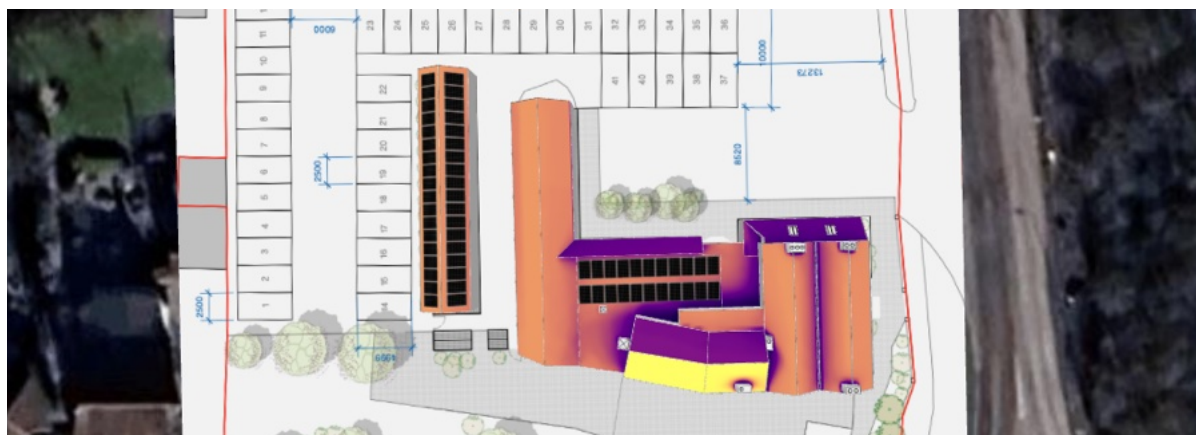


Image 1



Image 2

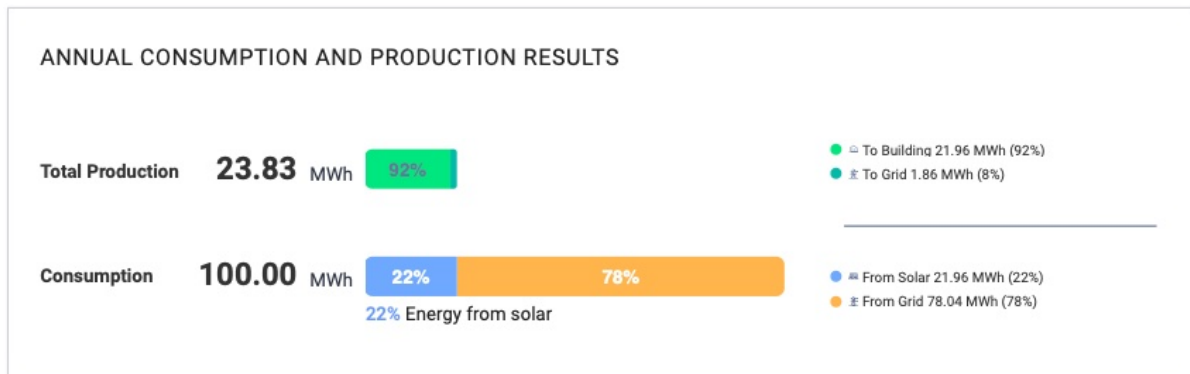


Image 3

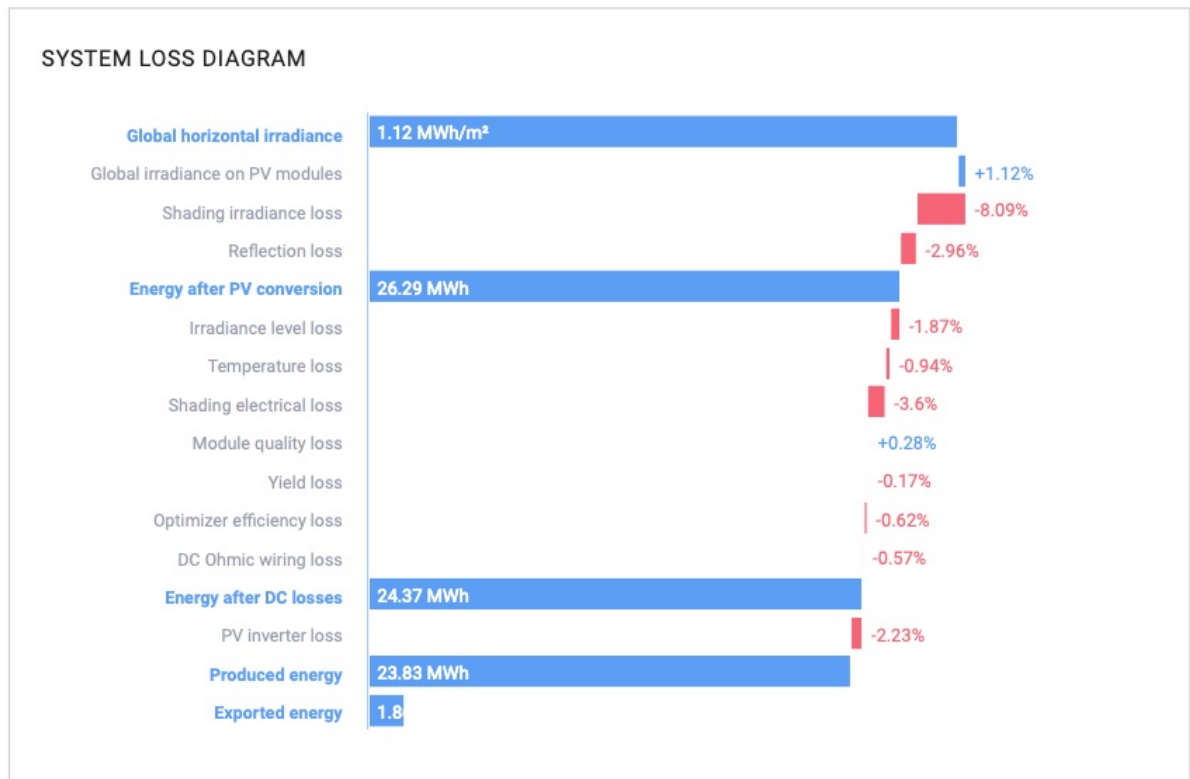




Image 4

