

Solar Energy System Proposal

Date: 2 October 2026

Dear there,

Thank you for your enquiry regarding solar for [REDACTED] I'm pleased to enclose our proposal for a **205.64 kWp** system.

This quotation is based on the brief provided; any changes to specification may require a requote. We will provide a detailed design and specification should you wish to proceed.

Please don't hesitate to get in touch with any questions.

Kind regards

[REDACTED]
Energy Expert
[REDACTED]
[REDACTED]

Your System



205.64
kWp

INSTALLED DC POWER

152,226

ANNUAL SOLAR KWH

31,510 kg

ANNUAL CO₂ SAVED

1418

TREES PLANTED

A 205.64 kWp system across 3 roof sections, generating approximately 152,226 kWh per year at

HOW THIS WAS MODELLED

Your roof was assessed as 388 panels facing SE at 6° (745 kWh per kWp per year); 42 panels facing NW at 3° (701 kWh per kWp per year). Generation comes from PVGIS irradiance data for this location, queried separately for each roof plane at its own pitch and orientation.

Those panel counts describe the **full roof**. The system quoted here is 388 of those 430 panels; the final layout, and which planes are used, will be confirmed at survey, and a surveyor would normally favour the best-performing orientations.

Benefits

1.9 yrs

Payback Period

1237.9%

Return on Investment

£944,768

Lifetime Savings (15yr)

Year	Consumption	Generation	Bill before	Bill after	Export	Saving	Cumulative
2026	322,440	152,226	£90,283	£52,686	£1,257	£38,854	£-37,465
2027	BREAKS EVEN	322,440	151,617	£96,603	£56,535	£1,339	£41,407
2028	322,440	151,011	£103,365	£60,664	£1,427	£44,128	£48,070
2029	322,440	150,407	£110,601	£65,093	£1,521	£47,029	£95,099
2030	322,440	149,805	£118,343	£69,844	£1,621	£50,120	£145,219
2031	322,440	149,206	£126,627	£74,941	£1,727	£53,413	£198,632
2032	322,440	148,609	£135,491	£80,408	£1,841	£56,924	£255,556
2033	322,440	148,014	£144,975	£86,272	£1,962	£60,665	£316,221
2034	322,440	147,422	£155,123	£92,563	£2,091	£64,651	£380,872
2035	322,440	146,833	£165,982	£99,310	£2,228	£68,900	£449,772
2036	322,440	146,245	£177,601	£106,547	£2,375	£73,429	£523,201
2037	322,440	145,660	£190,033	£114,310	£2,531	£78,254	£601,455
2038	322,440	145,078	£203,335	£122,635	£2,697	£83,397	£684,852
2039	322,440	144,497	£217,569	£131,565	£2,874	£88,878	£773,730
2040	322,440	143,919	£232,798	£141,142	£3,063	£94,719	£868,449

WHAT THIS TABLE ASSUMES

Electricity bought from the grid starts at 28p/kWh and rises 7% a year. That is the single biggest driver of the later figures.

Exported electricity starts at 7p/kWh, 25% of the import rate, and rises with it at 7% a year. Both are set by the same wholesale market, so they are assumed to move together.

Your consumption is held at 322,440 kWh every year. No allowance is made for the business growing, adding equipment or becoming more efficient.

Your usage pattern is modelled, not measured. We matched a typical half-hourly demand profile for a light manufacturing against this roof's generation through the year, which is what puts 88% of generation on site and the rest on export. Sending us a year of half-hourly or hourly meter readings would replace that assumption with your building's own figures. It is the single largest refinement available to this estimate.

Generation falls by 0.4% a year. Solar panels lose a small amount of output as they age; this is normal and covered by the manufacturer's performance warranty.

The cumulative column starts negative because it includes the system cost in year one. Where it turns positive is your break-even point.

Figures exclude VAT and assume no finance costs.

Figures are estimates based on PVGIS irradiance data for your location and roof orientation, with CIBSE TM46 consumption benchmarks where no meter data was supplied. Subject to survey.

Components

Solar Panels

Total Power: 205.64 kWp
Model: Hi-MO 6 (LR5-72HBD-530M)
Output: 530W per panel
Quantity: 388

Inverter

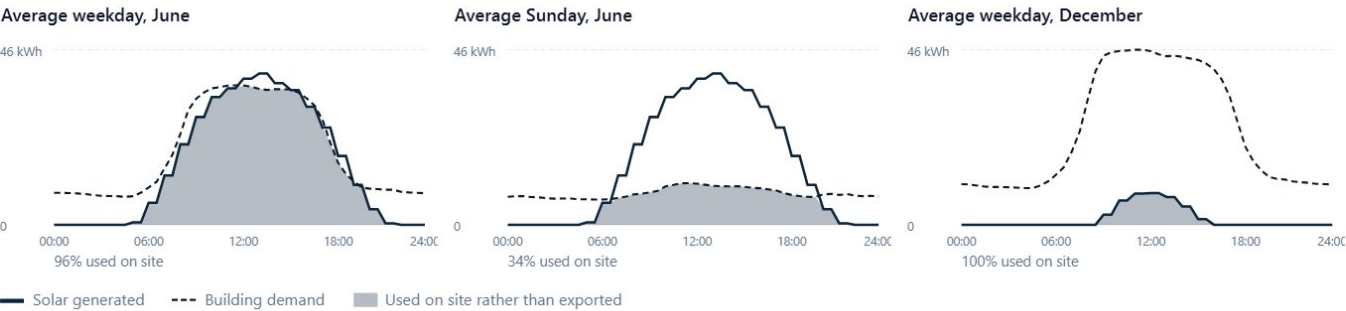
Brand:
Model: 3-Phase String Inverter

Annual Performance



Output peaks in Jun at 22,507 kWh and is lowest in Dec at 2,402 kWh, a 9.4× summer-to-winter swing typical of UK installations. Figures are for a 205.64 kWp array at this location.

Through the day



Demand is a modelled profile for a light manufacturing; generation is this roof, half-hour by half-hour. The shaded area is what the building uses as the array makes it, and it is what the savings in this proposal are built from — solar above the shading leaves the site on the export tariff instead. It is also why the recommended system is sized to the demand curve rather than to the roof.

Figures are estimates based on PVGIS irradiance data for your location and roof orientation, with CIBSE TM46 consumption benchmarks where no meter data was supplied. Subject to survey.

Quotation

System price (ex VAT)

£76,319

These costs have been calculated via a desktop survey. When an in-person survey is conducted there may be additional costs.

A non-refundable deposit is requested to facilitate a full technical survey and completion of designs; this is deducted from the system price on order.

Access costs (scaffolding, lifting of materials) are subject to survey and not included.

This proposal is valid for 45 days.

Other Options

Powered by



If the upfront cost is too high, we can facilitate a Power Purchase Agreement (PPA) with no initial cost to you. You simply pay for the electricity generated at a fixed, competitive rate — typically lower than your current utility rate — over an agreed term. At the end of the agreement, you own the system.

Indicative PPA saving: £13,428 per year with no upfront cost.

About Roof Worth

Power your business with solar energy

We specialise in the design, supply, installation and maintenance of commercial solar PV and renewable energy solutions.

With decades of combined energy-sector experience, we deliver consultancy, design, installation and ongoing system management across all commercial sectors.

Our accreditations include MCS, NICEIC, CHAS, SafeContractor and RECC.

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