

ONLY SOLAR

36.9kW SOLAR SYSTEM

ADDRESSED TO:

David Walker

Park Hall, Thurloe Street
Manchester M14 5SG
England

Prepared by Andrew Strange on 6th July 2023



PROPOSED PANEL LAYOUT

Park Hall, Thurloe Street,
Manchester
England M14 5SG

SYSTEM DETAILS

Your custom design

36.9 kW_{DC}

System size (STC)¹

29 MWh

Estimated annual production²

97%

System efficiency³

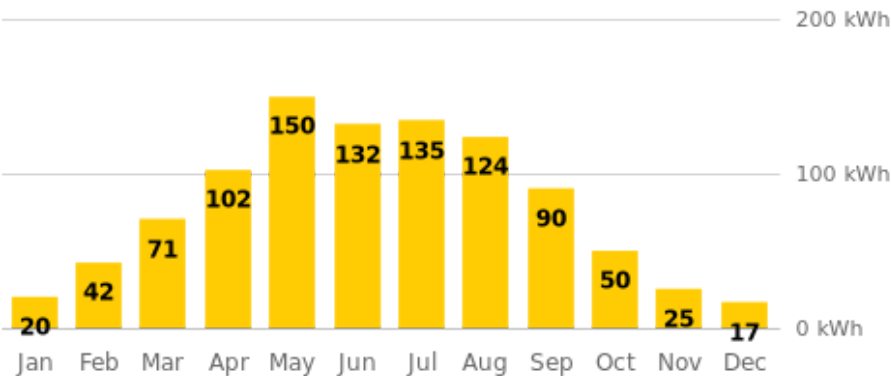
SOLAR PANEL

90 × 410W LONGi Solar Hi-MO 5m - LR5-54HIH-410M

1722 mm × 1134 mm · Monocrystalline · [Datasheet](#) · [Warranty](#)

DAILY PRODUCTION PER MONTH

How much electricity will my system generate per day, on average?



UTILITY COSTS

How much will I save after installing solar?

BEFORE SOLAR

£2,000.00
Average monthly bill

£24,000.00
Annual bill

WITH SOLAR

£1,159.95 ↓ 42%
First year average

£13,919.42 ↓ 42%
Estimated annual savings £10,080.58



25 YEAR FINANCIAL SUMMARY

NET PRESENT VALUE OF INVESTMENT⁴

£2,030,640.46



The Net Present Value (NPV) is the **present day value** of all future cash inflows minus the outflows. Since money is worth more in the present day than in the future, all future cashflows need to be discounted by inflation. A positive NPV indicates a good investment.

DISCOUNTED PAYBACK PERIOD⁴

4-5 YEARS



Similarly, the Discounted Payback Period also accounts for all discounted future cashflows. The resulting period will typically be longer than a "simple payback period" calculation.

RATE OF RETURN ON CASH INVESTED⁴

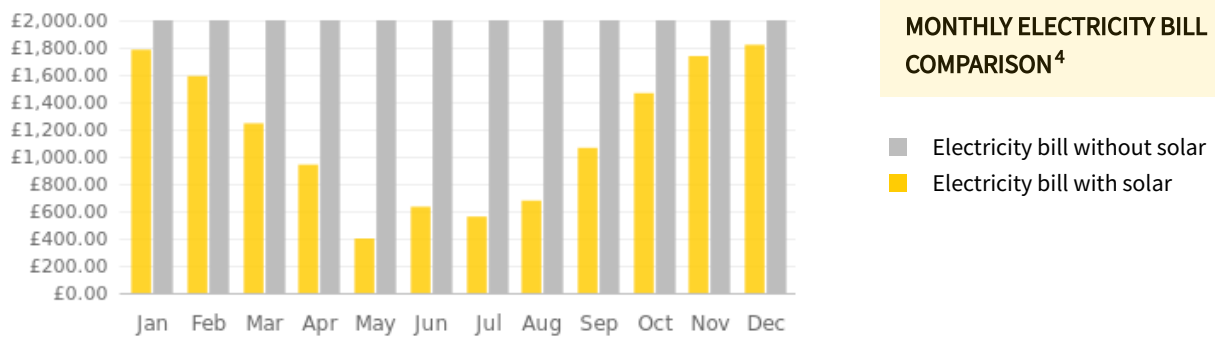
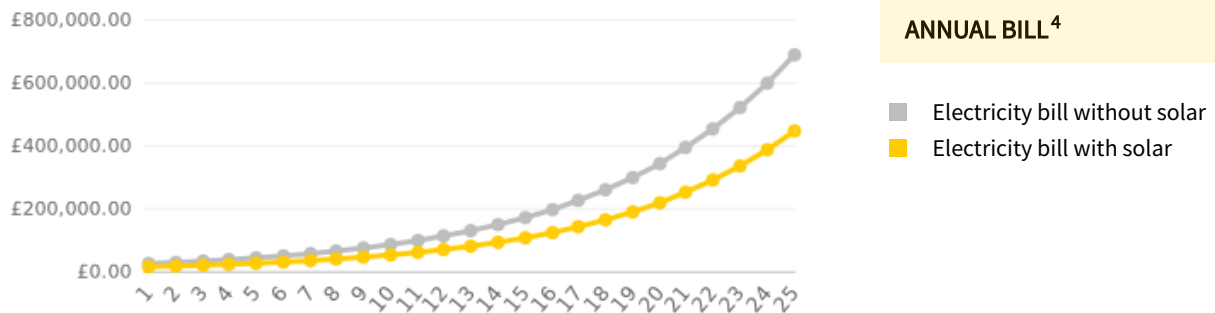
32.8%



The Rate of Return on Cash Invested (or Internal Rate of Return) is the annual compounded rate of return that the cash flows bring based upon the net cash invested in the year of installation. Think of it as the interest rate that a term deposit would need to provide to match the returns on your solar investment.

FINANCIAL ANALYSIS

Your historical electricity bills were used to help size your solar system. Based upon the system size suggested, the expected electricity bill savings over a 25 year period are provided below. In addition, the first-year electricity bill savings you can expect are provided together with a chart of the monthly solar system output you can expect.



ENVIRONMENTAL ANALYSIS

Your solar system will generate significant environmental benefits. These come primarily from avoided power plant emissions.



TREES PLANTED EQUIVALENT

—
531 trees per year⁵



AVOIDED EQUIVALENT FUEL

—
8824 litres of petrol
per year⁵



AVOIDED COAL BURNT

—
10029 kg of coal per
year⁵