



SOLAR PV ENERGY



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Solar PV at Vencomatic Energy

Solar PV (photovoltaics) generates electricity from the energy provided by the sun, making it the most yearly consistent and sustainable energy source on the planet.

Solar PV panels produce electricity from daylight rather than direct sunlight therefore all-year-round generation is possible. The panels will give a consistent output on a year by year basis and are estimated to produce 80% of their capacity by year 25 and 60% of their capacity by year 40.

Now that the Feed-in Tariff subsidy has been removed from Solar PV, the general consensus is that Solar PV needs a subsidy to make financial sense, this is not the case. Solar PV as an energy source is now truly sustainable on its own two feet and with electricity prices due to keep rising, the savings will only increase year on year.

On a well-designed system suitable to individual needs, estimated payback should be around 6.5 years. This can be achieved by on-site usage between 60-100% of the energy produced by the solar. Using the power at around 14-15p is more cost-effective than exporting and selling the power at around 6p.

A proven technology providing a safe investment

Most of the Solar panels in the UK have been installed predominantly over the last 10 years but one of the first grid-tied PV systems has been generating for over 25 years and still produces over 85% of its rated wattage. With the technology having advanced dramatically since that time, it's safe to say that Solar PV is a tried and trusted technology that can help control your energy bill.



The Electric Age

Everywhere we go and everything we do, requires energy, this has been the case for as long as we have known. Renewable energy is the future of our energy requirements and electricity will become the fuel for the majority of our vehicles over the next 20 years as Diesel and Petrol Cars will be phased out by 2040 at the latest.

Roof Mounted or Ground Mounted?

There are benefits of both examples of Roof and Ground Mounted systems and it all depends on the layout of space available on your site. This recommendation will be given to you by our site surveyors who will offer their opinion and give it the same thought as if it were their own site. Considerations would include:

- Structural integrity of the building
- Available roof space
- Available ground area and distance to electricity meter
- Orientation of building

Power Purchase Agreements (PPA)

A Power Purchase agreement is another option for your business. A PPA is a way of lowering your electricity bills through Solar without the need to invest yourself! This works on a 25 year agreement that is re-evaluated alongside the negotiation of your existing electricity cost. You then buy the electricity generated by the solar panels at an agreed reduced rate.

Benefits:

- The solar PV system is funded by Vencomatic and therefore also maintained by us
- A zero cost route to improve the sustainability of your business
- The unit price you pay can be fixed or variable for the 25 years, much like a mortgage to allow you flexibility during the agreement
- The PPA can be transferred to new occupants of the property should your businesses location change.



Climate Change

The planet is now at a stage of advanced climate change where we all need to do our part. One of the ways to do this is through Solar PV. Not only is it helping the planet, it's helping your business become more sustainable and efficient straight away.

Net Zero

The Government have made a pledge to achieve 'Net Zero' by 2050. This means that the energy required to power a business or home should be similar to the amount of energy generated through renewable sources. The UK is currently generating around 33% of the energy required having made great strides in the last 10 years. However, there is a long way to go and as we talk more about greenhouse gases and petrol and diesel cars becoming a thing of the past, a move towards electric cars is inevitable meaning our electricity demand will soar over the next 10 - 15 years.

25

year warranty

Timescale

How long will it take?

We would estimate the whole process from enquiry and initial site visit to generating electricity from your Solar panels to be around 8 weeks. Ground mounted systems that require planning permission would take longer and larger scale systems may add up to 2 weeks on install time.

Initial enquiry/figures provided	1 day	↓ 8 weeks
Site visit/ Feasibility study	1 week	
Quotation	1 day	
Grid application	Typically 4 weeks	
Structural survey	1 week	
Site preparation	3 days	
Installation	1 week	
Commissioning	1 day	
Handover	1 day	



6.5

year payback



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