

# Choosing Solar PV for your home

**This booklet has been designed to help inform you about PV for your home. It addresses what is required to set up a Boggis Electrical Solar PV system on your home, explains the feed in tariffs available and the purchasing process. We hope that it provides you with the information that you require but if you do have any further questions, please do not hesitate to contact us.**

## Solar PV

Solar PV systems allow a great degree of flexibility in design and specification. They are easy to install on your home in an on-roof, in-roof and flat roof arrangement, both landscape and portrait. Generally, the size of the system is determined by the available, south facing roof space on your home.

## Boggis Electrical Solar PV

PV arrays are sized in kWp (kilowatt-peak). This is the rated output under standard test conditions. A southern oriented, minimally shaded, 1 kWp array will cover approximately 8m<sup>2</sup> of roof space and each year will:

- Generate approximately 834 kWh (kilowatt-hours) of electricity\*
- Save approximately 474 kg of CO<sub>2</sub> (kilograms of Carbon Dioxide) from entering the atmosphere.

Boggis Electrical's Solar PV home solution has been designed to suit a wide variety of needs and situations. We will always specify a high quality system tailored to meet your requirements, saving you time and money and also ensuring safety and code compliance.

\*Per 'The Government's Standard Assessment Procedure for Energy Rating of Dwellings'

## PV Solution for your home

Boggis Electrical's standard Solar PV Home Solution includes:

- PV Modules – for converting light into electricity. The systems are modular so that you have the ability for a bespoke design.
- Mounting Systems – support structure for the PV modules
- Inverter – for processing the solar power to meet grid quality standards
- Cables and adaptors – for delivering the electricity to your consumer unit
- Generation Meter – for recording how much electricity is being produced by the PV system

For an installed price system contact Boggis for details on: 01502 675233.

## Quick guide to a perfect roof

Each installation will generate differing amounts of kWh over a year. You can see the best roof example from the table below.



Make The Right Choice  
Choosing Solar  
PV for your Home



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Orientation: compass bearing (°) measured from north

	West		SW		South		SE		East				
	270°	255°	240°	225°	210°	195°	180°	165°	150°	135°	120°	105°	90°
<b>Horizontal</b> 0°	90	90	90	90	90	90	90	90	90	90	90	90	90
10°	89	91	92	94	95	95	96	95	95	94	93	91	90
20°	87	90	93	96	97	98	98	98	97	96	94	91	88
30°	86	89	93	96	98	99	100	100	98	96	94	90	86
40°	82	86	90	95	97	99	100	99	98	96	92	88	84
50°	78	84	88	92	95	96	97	97	96	93	89	85	80
60°	74	79	84	87	90	91	93	93	92	89	86	81	76
70°	69	74	78	82	85	86	87	87	86	84	80	76	70
80°	63	68	72	75	77	79	80	80	79	77	74	69	65
<b>Vertical</b> 90°	56	60	64	67	69	71	71	71	71	69	65	62	58



APPROVED PRODUCTS



# Three Simple Steps

to purchase a Boggis Electrical Solar PV Home Solution

## Step 1: Contact Boggis Electrical



Getting started is easy. Call Boggis Electrical on 01502 675233. Once you have, we will contact you to discuss the system best suited to your needs.

When you are ready to purchase your system, we will visit your home and assess:

- Your roof – to determine exact orientation, pitch, shading, type and overall condition.
- Your current electrical installation, to ensure it complies with current safety standards over your home.
- Your electricity consumption requirements, to determine the right system for you that will offer the best return on your investment.

Using this information we will put together an estimate indicating the total installation costs and expected return on your investment.

## Step 2: Financial Incentives



Investing in PV is a good, sound investment and the Feed-in Tariff will pay for every kWh the below rate for all electricity generated on your residence.

PV System Size	Feed-In Tariff*
<4 kW new build	37.8
<4 kW retrofit	43.3
4 – 10 kW	37.8
10 – 50 kW	32.9
50 – 150 kW	19.0
150 kW – 250 kW	15.0
250 kW – 5MW	8.5
Stand-alone	8.5

\*Correct at time of going to print

On top of this, a bonus of 3.1 pence per kilowatt hour will be given for all electricity exported from your residence into the electricity grid. This total rate is guaranteed for 25 years by the Government, is index linked and all profits are non-taxable!

A highly effective and sustainable solution to rising energy costs and a great “tax free” investment guaranteed for 25 years.

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## Step 3: Installation Process



If you decide to have a Boggis Electrical Solar PV system installed on your home, we will organise an installation date that suits your schedule. Installation of a solar PV system usually takes between two to three days depending upon the size of the system.

After the installation has been finished, we will make sure that you are familiar with all the components comprising your system and present you with a personally tailored 'Owners' Manual containing warranty certificates and service contact details in case you have any further questions.

### So, what does this mean financially and how can I calculate what I will generate and save? Well, here is a simple example:

A well sited 12 panel system, or 2.28 kilowatt (kW), will produce 2,000 kilowatt hours (kWh) or units of electricity annually for which you will receive the generation credit from the table above.

**2,000 kWh x 43.3p = £866 generation credit**

If you use half of the electricity generated to directly power your appliances you will not have to purchase that electricity from the utility company and therefore will save:

**1,000 kWh x 13p = £130 savings on electricity consumption**

The other half of the electricity generated will be exported back into the electricity grid for which you will receive the export credit below:

**1,000 kWh x 3p = £30 export credit**

Therefore your total savings after installing a solar PV system on your residence will amount to:

**£866 + £130 + £30 = £1026 annual savings for 25 years**

After 25 year Index linked, tax free income is guaranteed for 25 years.

“You can now sit back and enjoy generating your own energy knowing that you have made a good investment for your family and the planet.”

[www.boggiselectrical.co.uk](http://www.boggiselectrical.co.uk)