

Thinking about solar PV for your home?



Photo for illustrative purposes only.

Llangattock Green Valleys Community Interest Company is offering its members¹ the chance to join Reach For The Renewables, a new solar PV group-buying scheme for homeowners that brings you:

- market-beating prices (see page 2 for details)
- installation by a reputable and well-established firm of MCS-accredited installers
- quality Sharp panels, assembled here in Wales.

Through Reach For The Renewables you can:

- benefit from rock-bottom prices and group buying power: the more people who join, the cheaper it becomes
- choose the solution that's right for you, with systems ranging from 5-16 panels (1.15kW – 3.68kW)
- help your community: a proportion of the admin fee charged for each installation will go towards developing more local renewable energy projects.

Why choose Solar PV?

- solar PV generates free electricity that you can use – and that means reduced electricity bills
- cash back for the next 25 years through the Government's Feed In Tariff scheme. Currently this pays 43.3p² for every kWh of electricity you

generate. PLUS you receive an additional 3.1p per kWh for any electricity you export to the National Grid (for domestic systems this is normally assumed to be 50% of the total generated). What's more, this money is tax free and index linked for the life of the FIT scheme.

As the example below shows, over the guaranteed 25-year lifetime of the panels and the tariff, a typical 2.3kW system would almost quadruple your investment – equivalent to your money earning 16% interest each year.

1. This offer is only available to LGV members. To become a member, visit www.llangattockgreenvalleys.org and download our membership form.
2. For schemes <4kW (existing build). New build (<4kW) and all larger installations receive a lower tariff of 37.8p/kWh (4-10kW) or 32.9p/kWh (10kW-50kW).

Example – 2.3kW system (10 panels)

System cost	£6,634.70
Income from generation tariff	£897
Income from export tariff	£32
Fuel bill savings	£130
Total annual income and savings	£1,059
Payback period	6 years
Lifetime benefit (25 years)	£26,470
Total profit over 25 years	£19,835.30³

3. Figures calculated using the Energy Saving Trust's cashback calculator (www.energysavingtrust.org.uk)

In association with



REACH FOR THE RENEWABLES

FUSELAND Renewables Limited



The power of group buying

The table below shows the options available for domestic installation through Reach For The Renewables, with a wide choice of system sizes to suit your roof space and your budget.

The table also shows the benefits of group buying: the more participants, the cheaper it gets. We've worked hard to secure the very best prices for our members, so even the top price

(1-10 installations) is incredibly good value. But please feel free to compare our prices with other installers – and remember, our prices **include** 5% VAT and scaffolding.

In addition, you can currently take out an interest-free loan of up to £5,000 towards the cost of your solar PV system through Powys County Council's Carbon Dioxide Initiative (CO2i). Call the Council on 08708 510356.

Install size (kW)	Number of panels	Space (m ²) occupied by panels	Number of installs			
			1-10	11-40	41-60	61-100
1.15	5	8.21	£3,841.14	£3,806.08	£3,771.37	£3,737.00
1.38	6	9.85	£4,391.33	£4,350.71	£4,310.71	£4,271.00
1.61	7	11.49	£5,071.32	£5,024.08	£4,977.31	£4,931.00
1.84	8	13.14	£5,737.93	£5,684.09	£5,630.78	£5,578.00
2.30	10	16.42	£6,634.70	£6,571.99	£6,509.88	£6,448.40
2.76	12	19.70	£7,748.56	£7,674.81	£7,601.80	£7,529.50
3.22	14	22.99	£8,991.41	£8,905.35	£8,820.15	£8,735.79
3.68	16	26.27	£10,232.62	£10,134.28	£10,036.91	£9,940.51

Prices include a £300 administration fee, VAT at 5% and scaffolding. Prices are subject to survey and assume standard access and appropriate consumer unit.

What you get

Site survey and detailed energy assessment

- the survey ensures solar PV is right for your home, and that your roof can support the panels
- the energy assessment pinpoints ways you can increase the energy efficiency of your home and reduce your energy bills further, eg through draughtproofing or ensuring you have the right amount of loft insulation. Basic measures such as these are cheaper and can have a much greater impact on your energy bills than solar PV, so we strongly recommend that you address these first.

Installation by Fuseland Renewables Limited

- Bristol-based offshoot of Fuseland Electrical (established 1989), a large electrical contractor that's been installing solar PV on homes, schools, agricultural buildings and commercial premises for the past 5 years
- MCS accredited (NIC 1756), NICEIC approved and a member of the REAL assurance scheme.

MCS-accredited Gefran or Aurora inverters

- conversion efficiency of 96-97.8%.

MCS-accredited Sharp ND-R230 (A2) panels

- high-performance panel by leading manufacturer with over 50 years' experience in photovoltaics
- 230W power output; module efficiencies of 14%
- performance guarantees on power output of 90% for 10 years and 80% over 25 years
- 5-year product guarantee
- assembled in Wrexham. By choosing Sharp panels we are flying the flag for local industry and supporting 1,100 Welsh jobs.



What you need

- a pitched roof facing South, South-East or South-West. Flat roofs and East or West systems are also possible but will give slightly lower yields.
- at least 12m² of clear roof space, free from close shading (trees, chimneys or other buildings)
- solar PV is classed as permitted development but if your home is a listed building or you live in a Conservation Area you may need to apply for planning permission.

Optional extras

VPhase voltage optimisation

Voltage optimisation has been used by industry for years to stabilise incoming voltage and reduce energy bills. Now this technology is available for domestic properties through a gadget called the VPhase unit.

So how does it work? The UK electricity distribution network operates at a nominal 230V, although in practice average voltages are more likely to range between 240V and 245V. The VPhase unit (which is about the size of a home consumer unit) lowers and regulates the voltage in your home, typically to 220V, reducing the overall energy consumption of your appliances and saving you money.

The amount of energy saved is device specific, so while tests on fridges and freezers show average savings of 17%, across a whole house the savings average out at around 10%.

By fitting a VPhase unit at the same time as you install solar PV, you can maximise your energy savings,

reducing the overall payback period for your system and improving your return on investment. Find out more at vphase.co.uk.

£278.25 including installation and VAT (price assumes VPhase unit is installed at the same time as solar PV).

Solar PV wireless generation monitor

An OFGEM-approved generation meter is installed as standard as part of your solar PV system. This meter records the amount of electricity your system generates and is typically positioned near your consumer unit. You will need to take quarterly readings from this meter to claim your FITs payments. In addition, your inverter will have a performance display, showing how much energy you are producing on a daily basis. But as the inverter is usually located in the loft, accessing it may not be easy. With a remote monitoring device, you can monitor your system's performance whenever you want.

£472.50 including installation and VAT

NEXT STEPS...

Contact us today to arrange your free, no-obligation solar PV survey

- Simply fill out the [registration of interest form online](#)
- or email solar@llangattockgreenvalleys.org or call Llangattock Green Valleys on Freephone 0800 206 1915 (Monday–Friday 9am–5pm)

About LGV

Llangattock Green Valleys is a community interest company (reg no 7255186) run by volunteers. LGV was set up in 2010 to manage Llangattock's participation in the British Gas Green Streets competition, which we subsequently went on to win. LGV's aims are to:

- make Llangattock a carbon negative community by 2015;
- build a community asset base that supports sustainable development;
- involve the whole community and develop a sense of pride and wellbeing;
- inspire stakeholders to promote a culture of 'walking together'.

LGV will receive 90% of the £300 admin fee for each domestic installation. Any profit will be reinvested in further community renewable energy projects that help us meet our aims.

About Reach For The Renewables

Reach For The Renewables is a private company (reg no. 7732337) set up by Llangattock resident Michael Butterfield. The company aims to secure the very best prices on renewable technologies and to work with social enterprises like LGV to bring renewable energy within reach of more people. RFTR will receive 10% of the £300 admin fee for each domestic installation.

To find out more
Take a look at our [FAQs](#)



And finally...

Please pass this information on to your friends and neighbours. Group buying means cheaper, greener electricity for everyone who gets involved – plus your community benefits from every installation too, because LGV will reinvest any profit in further renewable energy projects.