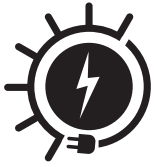




Agriculture: Renewable Energy Solutions

CELTIC
GReen
ENERGY

The natural choice for cheaper power!



GENERATE ENERGY



SAVE MONEY



REDUCE CARBON



Energising life in the country

Celtic Green Energy are located in the very heart of the Welsh farming community providing renewable energy solutions for all aspects of the agri-economy from small farms to large super dairies including service industries, feed merchants, veterinary practices, auctioneers and equipment suppliers. We are able to advise you on the best energy solutions for your individual circumstances including power consumption, energy storage, planning, location, maintenance and aftercare.

We offer a variety of environmentally friendly, energy efficient solutions that can help dramatically cut your energy costs and futureproof the uncertainty of rising bills. Our expert team of friendly customer advisors will be able to explain the variety of options available that we can tailor to your individual circumstances and budget.

We have a long standing relationship working with the farming community and a good understanding of their needs. This helps address their concerns and aspirations for better, more economical solutions. With continually pressing agricultural reform, increasing demands on the industry and new challenges with diversification, we welcome enquiries to see how we can provide some economically beneficial solutions, help the environment and meet your Government CO₂ compliance targets.



CELTIC
GREEN
ENERGY



Modern solutions for traditional practices

Installing solar panels on your farm is the environmentally friendly and affordable way to generate energy and save you money from long term rising fuel prices. Solar electricity panels are known as Photovoltaics (PV), are made from layers of a semi-conducting material that generates electricity when light shines on to the surface.

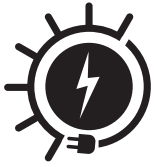
The cells work using minimal light even on cloudy days, but work best with strong sunshine when more electricity is created. A Solar PV systems is made up of several interlinked panels, with each panel generating around 385W of energy in strong sunlight. Typical 50kW systems contain around 130 panels and generate direct current (DC) electricity. Because the electricity used for appliances is alternating current (AC), an inverter is installed along with the system to convert DC electricity to AC. This electricity can be used throughout your property, or exported to the grid.



Solar PV panels with Digital Inverter and Energy Store

If you use more power around your property than your panels are generating, or during the evening when your panels are not generating any electricity, you can supplement this by importing electricity from the grid. Conversely, if you generate more electricity than you use or want to store – you can feed electricity back to the national grid and receive a payment for every unit of electricity you export, achieved under the Government's Smart Export Guarantee. You can scan the link with your smartphone to learn more.





Use generated energy during daylight hours for immediate use to power electrical equipment.



Store generated energy during daylight hours to use later at night to power equipment.



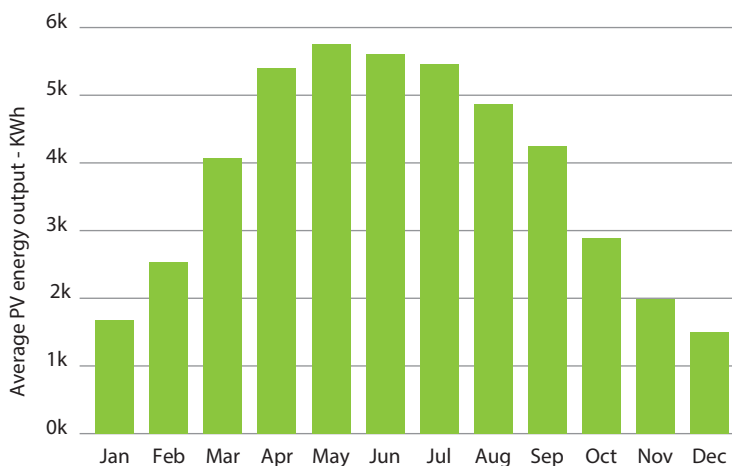
Feed surplus generated energy back into the National Grid and earn on every unit produced.



Make hay whilst the sun shines

The old farming proverb **“make hay whilst the sun is shining”** is even more relevant today in a world of economic uncertainty. Harvesting FREE solar power will provide you with substantial savings to your energy bills – depending on your choice of system and individual circumstances. If you use most of your energy to power your equipment during the day, you will get the most out of your investment. If you use your energy predominantly at night, then you will need to draw from the national grid or from solar energy batteries.

As every business will operate to different circumstances with variables in annual consumption, seasonal demand, time of use and environmental constraints, it will be necessary to undertake a thorough evaluation survey to identify the best system tailored for your needs. Typically, whenever the sun shines, you will be able to generate FREE electricity - even when it is cloudy, saving you up to 90% of your annual energy bill (based on a 50kW energy consumption x 0.64p commercial tariff)



**SAVE
100%**

Solar PV panels will generate electricity all year round. This charts a typical 50kW system based on 2023 figures at our Crosshands base in South Wales. Figures supplied by the EU commission.



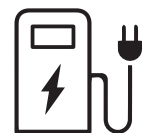
Renewable energy around the farm



Investing in renewable energy for agriculture is a perfect long term solution that can provide many incentives including tax exemptions, lower running costs, environmental benefits and a reduction in carbon footprint to help meet Government CO₂ emission targets. With plentiful roof space available on agricultural buildings, you can also consider further land diversification for dual purpose use allowing cattle or sheep to graze in between the Solar PV panels.

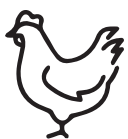


Solar power will make significant savings to your annual energy costs, supplementing your electricity needs throughout the year. Where seasonal variation occurs, you can be almost entirely dependant on solar during the summer for charging EV's and power tools, whilst during the darker months, you can rely less on the national grid, or take advantage of Solar Battery system and store cheaper off-peak electricity and use when required.



Add value to your Renewable Energy System:

Stored energy with Solar Batteries will provide you with an assurance of continuity of supply avoiding any national grid outages or energy rationing, critical if you rely on energy for your business such as dairy and temperature sensitive livestock units for light and heat.

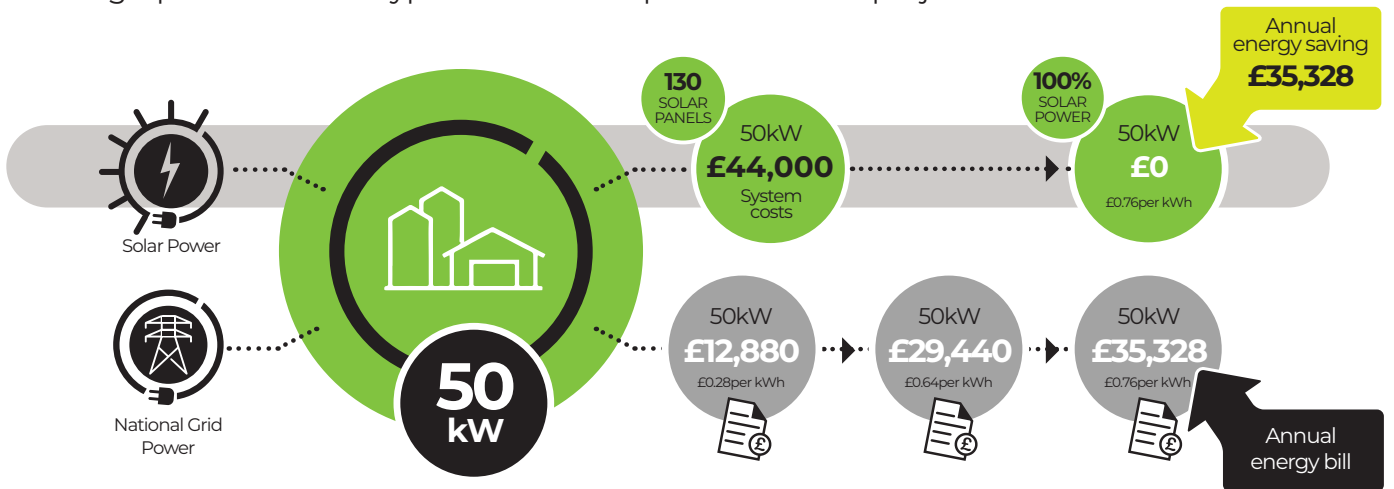


Other renewable energy solutions to consider are hot water provision, low energy Air Source heating and EV charging points.



Environmentally friendly economics

Investing in renewable energy is a prudent and sensible long term solution to cap your annual energy expenditure and make significant savings. The following infographic outlines a typical 50kW comparable annual projection.



- Significantly reduce business overheads – Generate and store free energy and improve your bottom line with up to 100% savings on your energy bills.
- Secure your future energy – protect your business against future increases in utility prices.
- Tax exemptions – Solar panels are classed as plant and machinery and are eligible for capital allowances.
- Achieve a healthy ROI – A typical commercial solar panel system will provide free electricity for more than 25 years, achieve returns of more than 12% per annum and pay back installation costs within 2-8 years.
- Scan to learn more about our renewable energy solutions for industry and commerce.





Our assurance of quality



We pride ourselves on superior quality work, product performance and customer satisfaction. We strive to provide the best possible service with long-term after-care and support. We only use the best quality reliable products with generous warranties to provide our customers with a promise of high standards conforming to industry codes of conduct and regulations.



Let's get you connected



It all starts with a quick phone call:



Call to arrange an on-site meeting with our Technical Sales Director.



Discuss your requirements, prepare a detailed outline for the most effective solutions.



Plan and project manage including all paperwork, Building Control and District Network Operator (DNO) requirements for you.



Plan and arrange system installation with progress updates.

On completion, commission and handover all documentation and operating instructions.

CELTIC **GREEN**

ENERGY

Experts in renewable energy



SOLAR POWER



ECO HEATING



ENERGY STORAGE



LOW CARBON



LOW COSTS

LEARN MORE



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