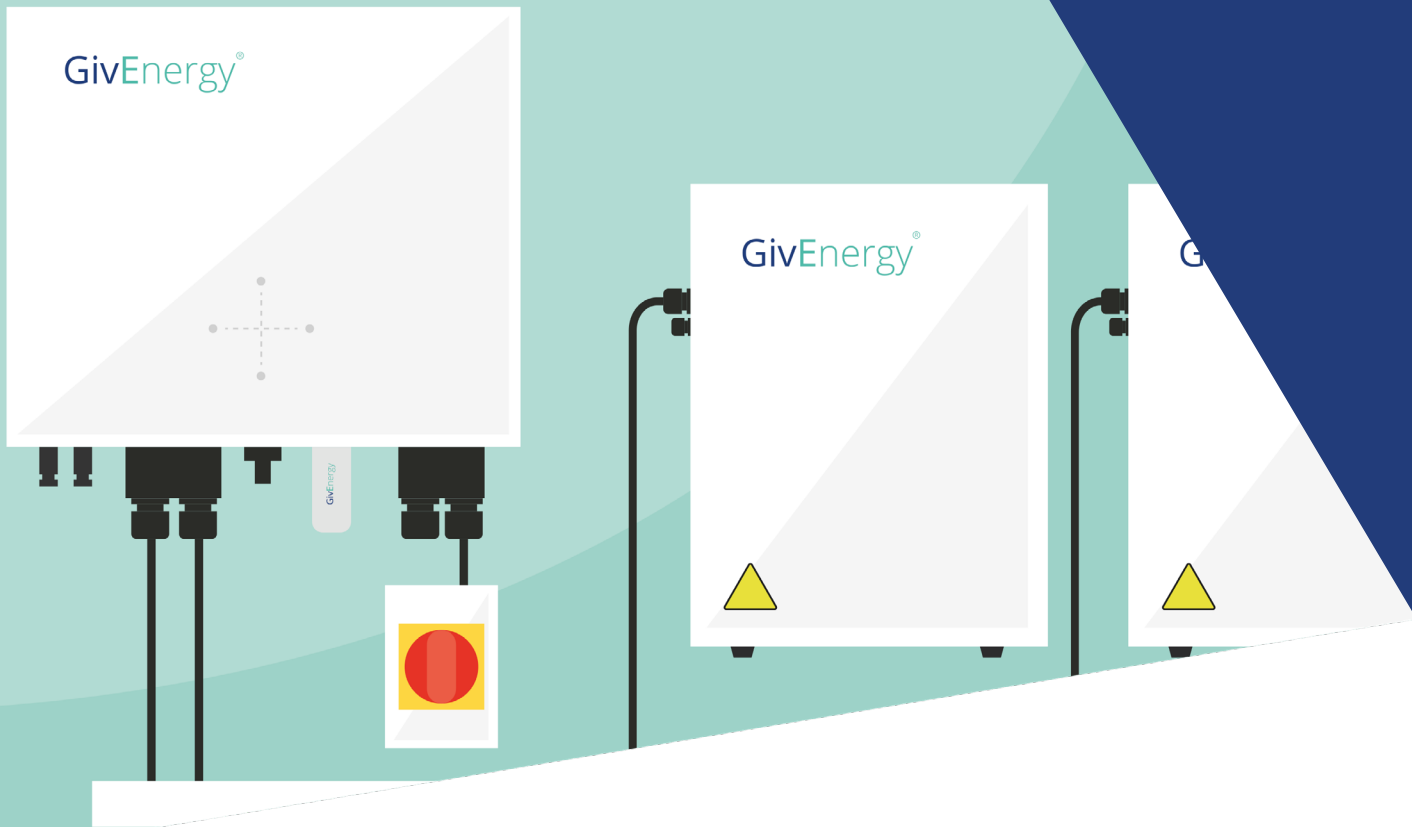


Welcome Pack





Welcome to GivEnergy

Thank you for choosing one of our Smart Energy Storage Systems, you will now be able to store more of your renewable energy (if installed) and make use of variable rate tariffs.

Your system will efficiently store excess generation (e.g. from Solar) and minimise the amount of energy you have to buy from the grid.

Not only could this save you money on your energy bills, it also contributes to environmental cleanliness.

Grid Neutrality

Our aim is to import and export as little energy as possible (grid neutral) by smartly managing onsite renewables such as solar PV so that you are paying less for your electricity.

Your system will be configured initially to be grid neutral, with further options available to set via the GivEnergy App or Monitoring Portal.

Save Money

Your GivEnergy system is also capable of charging your batteries by utilising an off peak or flexible energy tariff to provide additional savings through load shifting, this is where we store energy in your battery at a cheaper rate (usually at night) and discharge through the day where it would be expensive to import from the grid.

Maximising Your Self-Consumption

Self-consumption is the process of using energy generated at home to meet your electrical demand from renewable sources such as solar PV.

As an example, if you have a self-consumption rate of 50%, this will mean that you consume half of the green electricity you produce through your system.

Example:

Solar = 2kW
Home Demand = 1kW
Grid (Export) = 1kW
This means that your self-consumption will be 50%

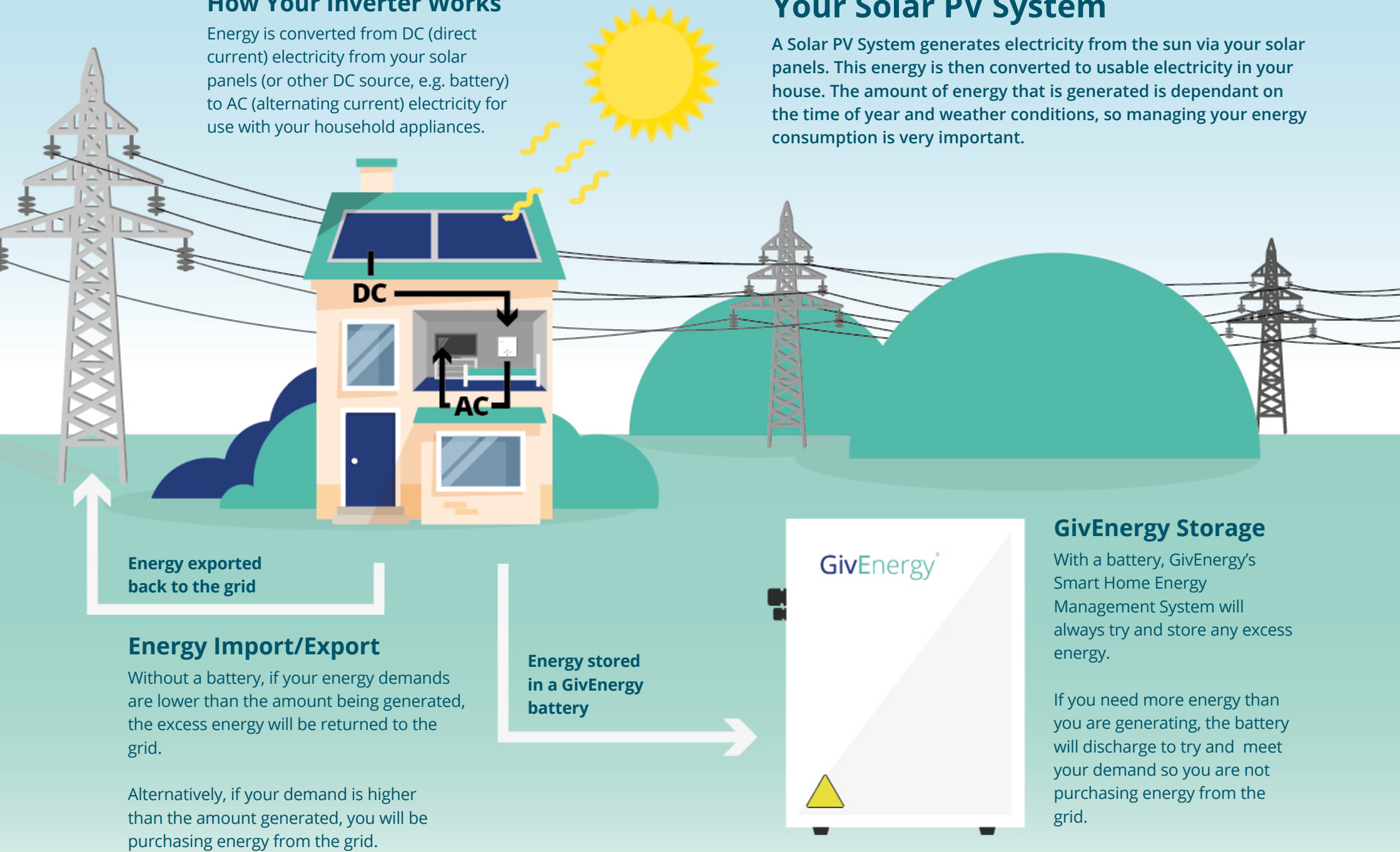
The other 50% would be ordinarily exported back to the electricity grid, as you have a battery storage system, it can be saved for later use, maximising your self-consumption.

How Your Inverter Works

Energy is converted from DC (direct current) electricity from your solar panels (or other DC source, e.g. battery) to AC (alternating current) electricity for use with your household appliances.

Your Solar PV System

A Solar PV System generates electricity from the sun via your solar panels. This energy is then converted to usable electricity in your house. The amount of energy that is generated is dependant on the time of year and weather conditions, so managing your energy consumption is very important.



Energy exported
back to the grid

Energy Import/Export

Without a battery, if your energy demands are lower than the amount being generated, the excess energy will be returned to the grid.

Alternatively, if your demand is higher than the amount generated, you will be purchasing energy from the grid.

GivEnergy Storage

With a battery, GivEnergy's Smart Home Energy Management System will always try and store any excess energy.

If you need more energy than you are generating, the battery will discharge to try and meet your demand so you are not purchasing energy from the grid.

Understanding your Hybrid Inverter

Solar and Battery Inverter in one unit

Grid

When energy is being **imported** from the grid, the arrows pointing **towards the centre** will be lit. When energy is being **exported** to the grid, the arrows pointing **towards the grid** will be lit.

Inverter Status

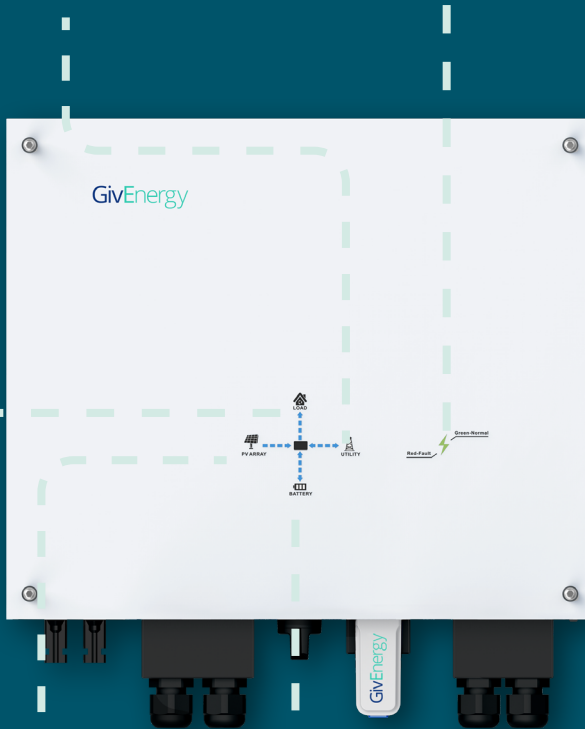
Green (Solid) - Normal
Green (Flashing) - The system is in waiting
Yellow - Communications issue
Red - Fault (contact GivEnergy)

Home Demand

This is a calculation made by our Smart Energy Management System and is lit up when a load is detected, within the property.

Solar PV

When solar PV generation is detected, the inverter will indicate the energy is being converted from **DC to AC** energy and can be used within the property.



Battery

When the battery is being **charged**, the arrows will point **towards the battery pack**. When the battery is **discharging**, the arrows will point **towards the inverter**.

Understanding your AC Coupled Inverter

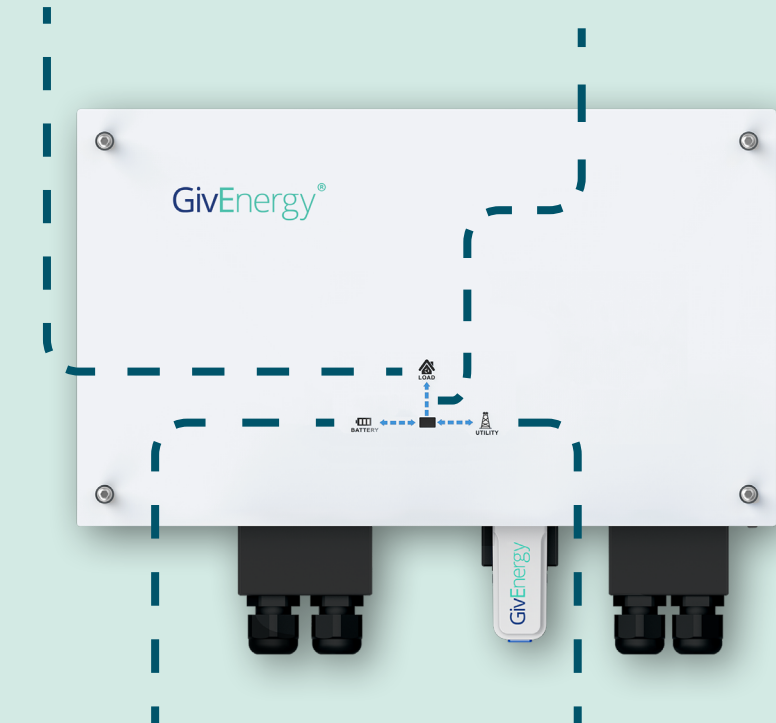
Standalone Battery Inverter

Home Demand

This is a calculation made by our smart energy management system and is lit up when a load is detected, within the property.

Inverter Status

Green (Solid) - Normal
Green (Flashing) - The system is in waiting
Yellow - Communications issue
Red - Fault (contact GivEnergy)



Battery

When the battery is being **charged**, the arrows will point towards the battery pack. When the battery is **discharging**, the arrows will point towards the inverter.

Grid

When energy is being imported from the grid, the arrows pointing towards the centre will be lit. When energy is being exported to the grid, the arrows pointing towards the grid will be lit.

Getting to know your online portal

The GivEnergy Monitoring Portal gives you full control over your energy. Featuring a customisable interface, your dashboard is unique to you. Display your energy data exactly how you want on your phone, tablet or computer.



Power Flow

A visualisation of the power produced and the direction of flow to and from your home.



Home Flow

Display your home flows, including additional products such as EV chargers, hot water diverters, etc.



Smart Tariff

Input or select a tariff, displaying your tariff price vs estimated cost per day, week, month and year.



Power Graph

Display your solar, home, battery and grid usage in an easy to read format.



My Inverter

View and control your Smart Home Storage System.



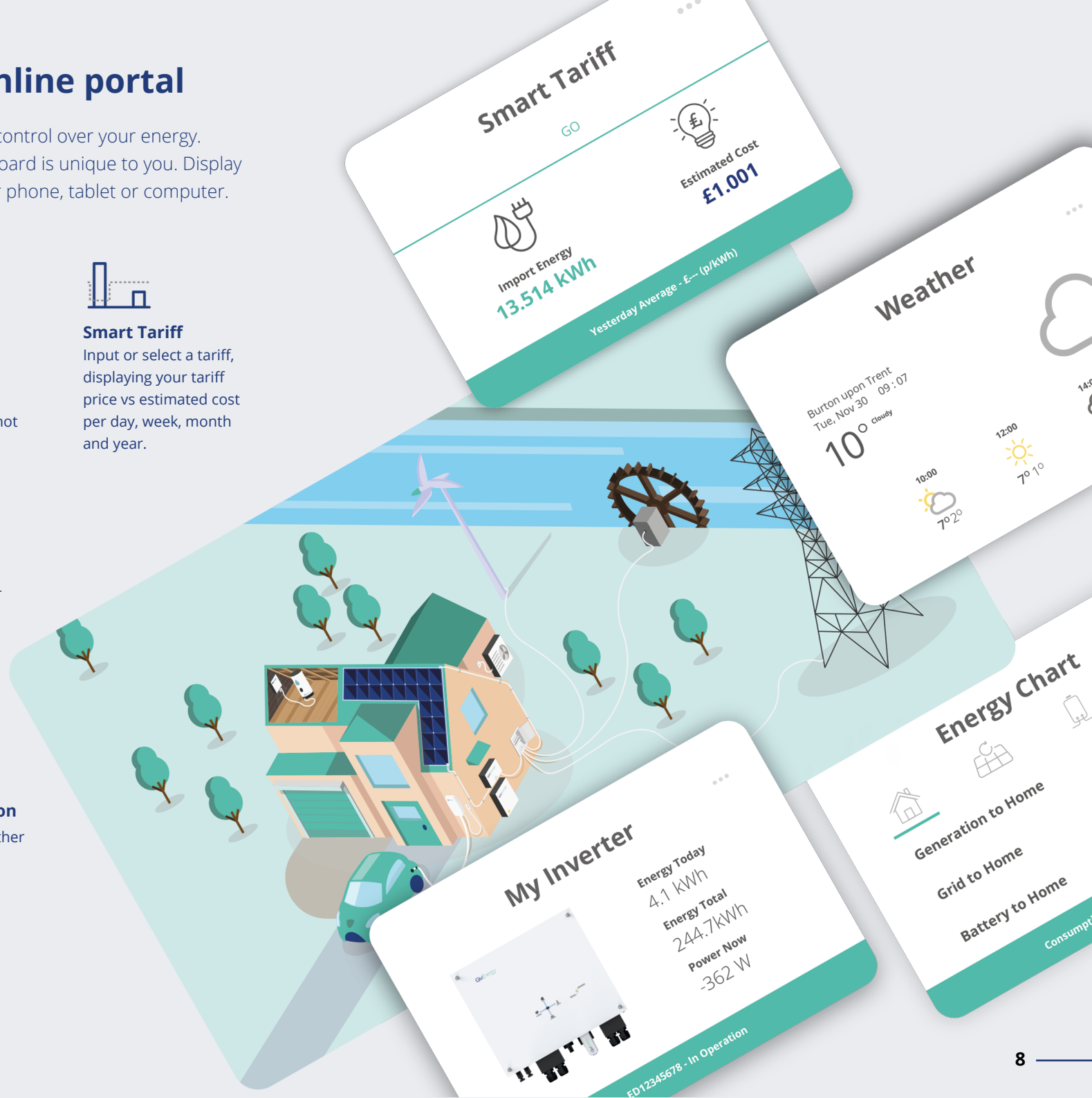
Solar Power Forecast

Predict your solar generation for the next 7 days with SOLCAST compatible integrated solar forecasting.



Weather Integration

Receive real time weather forecasts to plan your future energy usage.

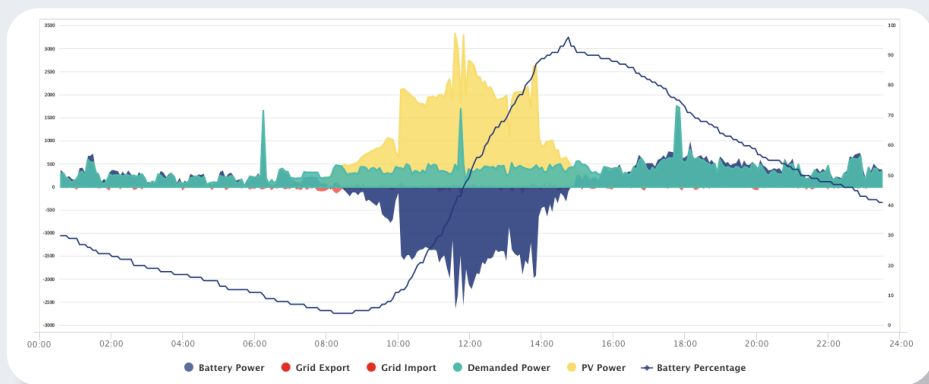


Understanding your data

The daily power graph shows your property demand, solar PV generation and battery usage, monitored via the GivEnergy Portal.

Power graph with battery

The property demand is being met with the stored energy from the battery in the morning and evening.



Battery Power

The amount of power in (below 0W), or out (above 0W) to the battery.



Grid Export

The amount of power exported back to the grid.



Grid Import

The amount of power imported from the grid.



Demanded Power

The amount of power your property is using.



PV Power

The amount of power being generated in your property.



Battery Percentage

The level of charge in your battery.

How your system will operate

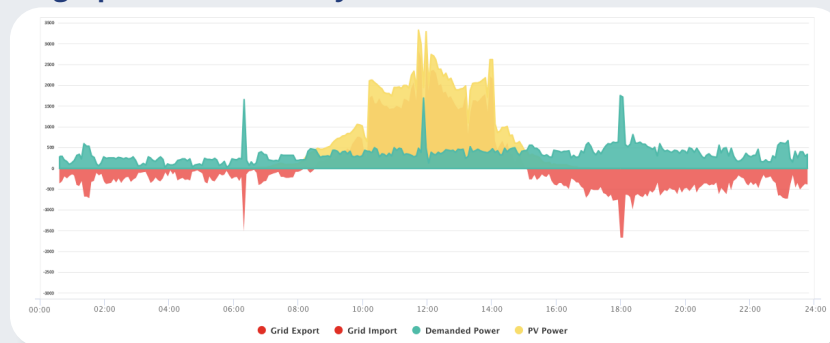
Your system will store excess generation in the battery. This energy will be discharged to meet demand when required. This prevents you having to import energy from the grid, thus saving you money.

If your demand is higher than the power available from the battery and generation, the system will begin to import from the grid and charge you at your energy providers rate.

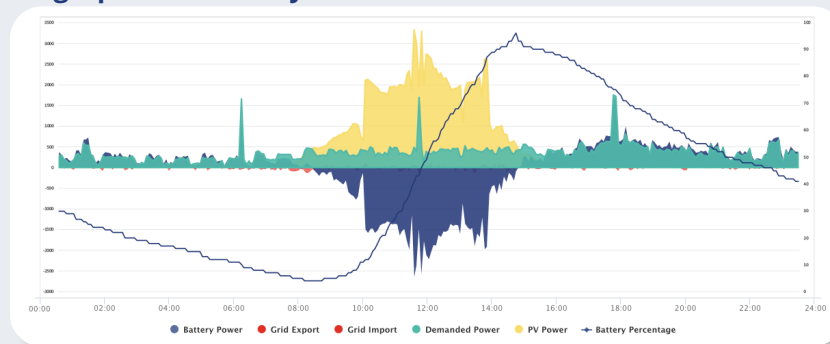
This is the standard logic for all GivEnergy battery systems, whether you have an AC Coupled or Hybrid Inverter installed in your home. If you want to make any changes to this logic, this can be done through the GivEnergy Monitoring Portal.

The top graph shows how your battery discharges when demand is at its peak. The bottom graph shows the energy that is being imported from the grid.

Power graph without battery



Power graph with battery



Your GivEnergy

App Monitoring Portal

Monitor your energy on the go with our Mobile Monitoring Portal.

Enjoy the key features of your GivEnergy Storage System at the power of your fingertips.

Key operational features are available in this cut-down version of our Monitoring Portal, allowing you to monitor and control your system remotely.

APP FEATURES

- Energy and Power Graphs
- Energy Flow
- Home Flow
- Historic Energy Data
- Generation and Consumption Monitoring
- Battery Usage
- Smart Tariff
- Settings Page

Available FREE from



Getting the most out of your system

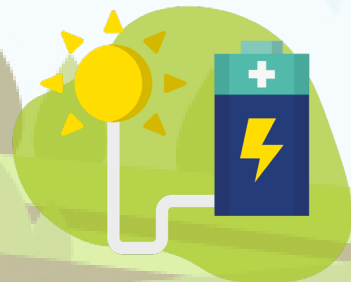
Set your system to ECO

Your system will be set to ECO by default. This will ensure that the system works dynamically to maximise your self-consumption.



Maximise your tariff

If you have an off-peak, Economy 7 or similar tariff, you can utilise this to the best of its capability. You can charge at cheap rate. It will discharge when energy is more expensive, minimising your import from the grid. This is known as load shifting.



Keep your battery topped up

Keep the battery topped up from the grid during the early hours of the morning. This will help to maintain the battery's efficiency. The energy can be used later on when prices are more expensive.

Warranty



Your GivEnergy battery system will come **supplied** with a **full manufacturers warranty**.

Our dedicated UK support team are on hand to help you should any issues arise.

GivEnergy Inverter
5 Year Standard Warranty
(This can be extended to 10 years, at an additional cost, upon request from your installer within 60 days of commission)

GivEnergy Battery Pack
10 Year Standard Warranty
(please see specific battery warranty document)

Questions about a warranty claim?

Get in touch with us on
01377 252 874



GivEnergy®

Get in touch with us

01377 252 874

Visit us at

www.givenergy.co.uk

Email us at

support@givenergy.co.uk

 **@GivEnergyUK**

 **givenergy**

 **@givenergy1**

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