GENERATE FREE ELECTRICITY FROM SOLAR PV PANELS

ENERGLAZE

HOME ENERGY UPGRADES

NEW HUAWEI FUSIONSOLAR SMART ENERGY SYSTEM

Huawei uses cutting-edge Solar PV technology. The award winning NEW Huawei FusionSolar Smart Energy system is not only energy efficient but simple and easy to use with a plug and play battery interface which means you can add a battery at any time in the future (5–30kw). No need to purchase an additional battery connection device or conduct a system retrofit.

When Huawei inverters (2–5kw) are combined with our all black Piemar Solar PV panels, you can power your home with clean, green renewable solar energy and dramatically reduce your energy usage, bills and carbon footprint. Not only will you achieve a greater return on investment but they also qualify for a substantial SEAI grant of up to 3,000.

Higher Yields

- High Efficiency Inverter Topology
- Max. Efficiency 98.6%
- Monitor Via FusionSolar App

Simple & Easy

- Compact Size, Simple 1 Person Install
- Optimised AC Connector, Quick Wiring
- One-click Inverter Configuration

Safe & Reliable

- IP65, Natural Cooling
- Integrated Lightening Protection
- 10 Year Warranty (Option To Increase)

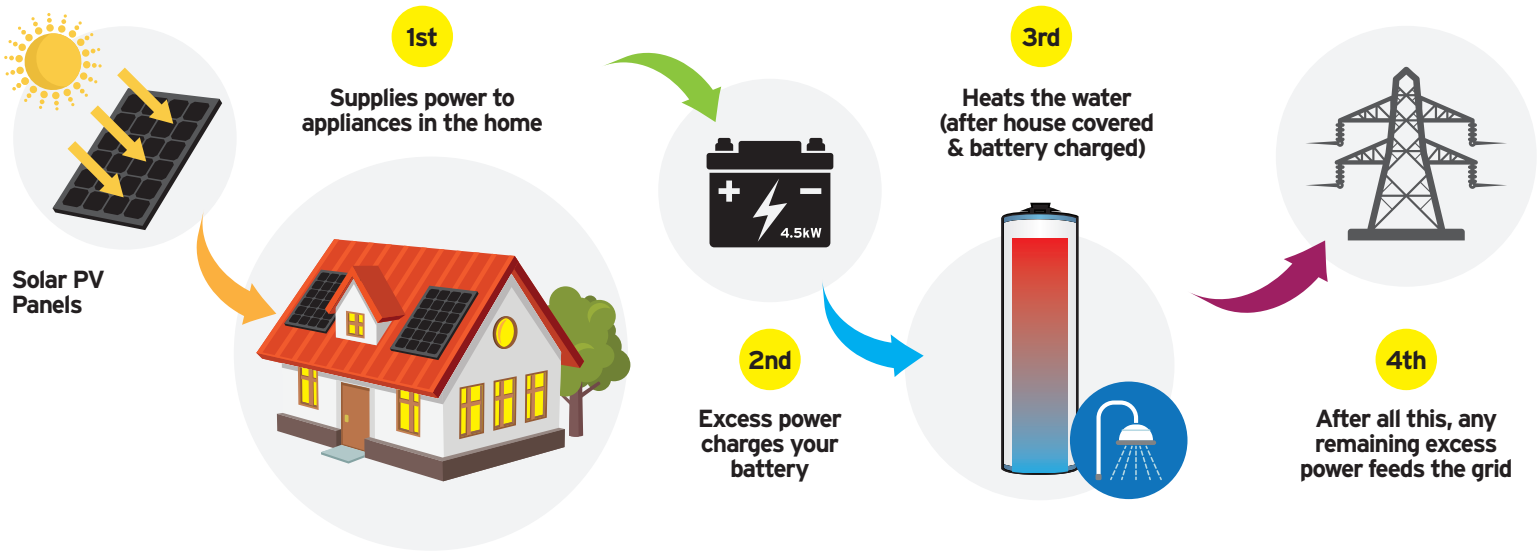
Battery Ready

- Integrated Plug & Play Energy Storage Interface

DESIGN AWARD 2017

reddot award 2016
winner

SOLAR PV TYPICAL ENERGY FLOW



HOME APPLIANCES

TYPICAL ONE HOUR ENERGY USAGE/COST

ELECTRIC SHOWER
8,500W
€1.70
per hour

TUMBLE DRYER
5,000W
€1.00
per hour

ELECTRIC OVEN
2,500W
50c
per hour

HAIR DRYER
1,500W
30c
per hour

FAN HEATER/ OIL BASED ELECTRIC HEATER
2,500W
50c
per hour

VACUUM CLEANER
1,400W
28c
per hour

ELECTRIC KETTLE
3,000W
60c
per hour

IMMERSION HEATER
3,000W
60c
per hour

DISHWASHER
1,800W
36c
per hour

TOASTER
1,200W
24c
per hour

CLOTHES IRON
1,000W
20c
per hour

MICROWAVE
850W
17c
per hour

WASHING MACHINE
650W
13c
per hour

TELEVISION (36")
200W
6c
per hour

REFRIGERATOR
180W
3.6c
per hour

LAPTOP COMPUTER
60W
1.2c
per hour

LIGHT BULB
60W 1.2c per hour
LED Equivalent 0.1c per hour

PORTABLE RADIO
5W
0.1c
per hour

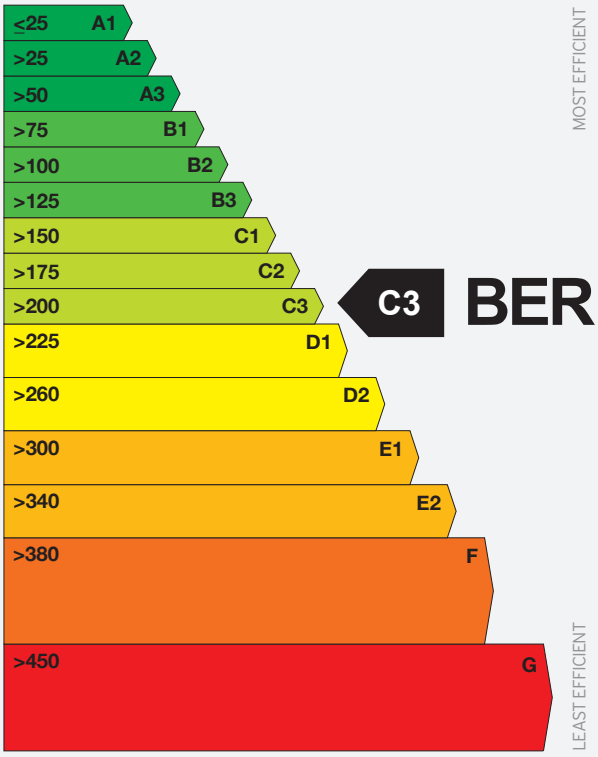
TOP TIP: All appliances must now be labeled according to their energy efficiency. New A-rated appliances use 30-55% less energy than a similar D-rated one.

HOW TO REACH A C3 WITH SOLAR PV

General Guidelines for ensuring that a house will achieve a minimum C3 Building Energy Rating (BER) once a solar system is installed.

There are no guarantees without carrying out a pre BER, however, in the majority of cases if the house has the following it should easily achieve a C3 rating:

1. House built from 1980 onwards
2. Built using bricks and mortar
3. Has good windows & doors
4. Has a modern boiler 86%+ efficiency
5. 200-300mm of attic insulation
6. Cavity wall insulation



Additional upgrades will enhance the BER energy rating further

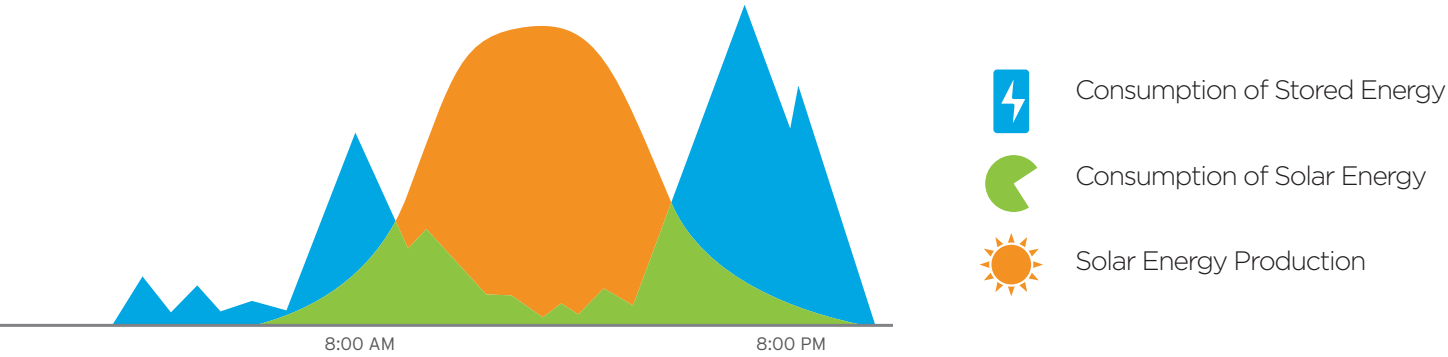
Average Electricity Generated From Solar PV

Number of Panels	Nominal Output (Pmax)	Average kWh Per Day	Average kWh Per Annum
6	2,190w	5.2	1,897
8	2,920w	6.9	2,529
10	3,650w	8.7	3,161
12	4,380w	10.4	3,793
14	5,110w	12.1	4,425
16	5,840w	13.9	5,057
18	6,570w	15.6	5,690
20	7,300w	17.3	6,322
22	8,030w	19.1	6,954
24	8,760w	20.8	7,586
26	9,490w	22.5	8,218
28	10,220w	24.2	8,851
30	10,950w	26.0	9,483
32	11,680w	27.7	10,115

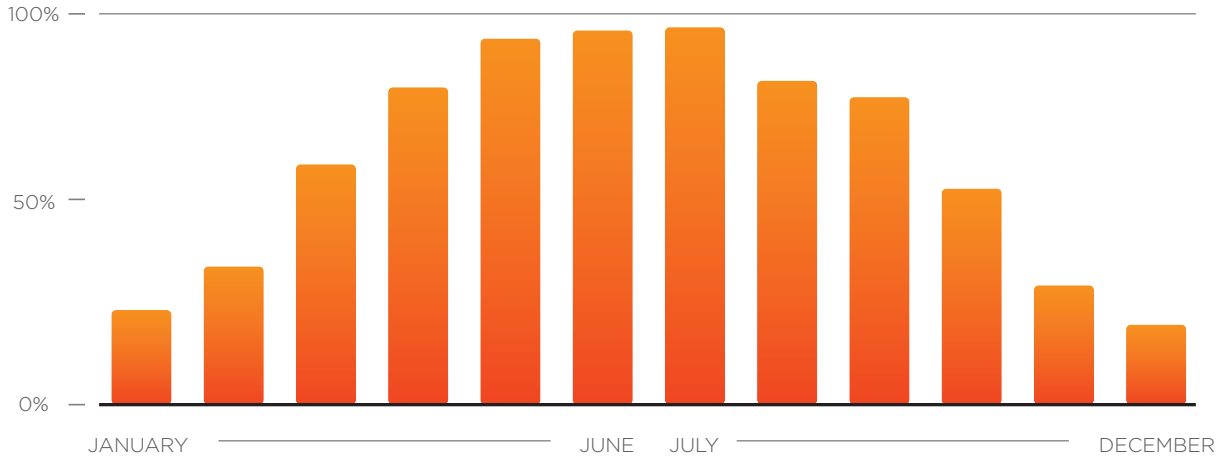
Based on a home solar PV system sized at 20 sq. m (~3kW) and well located would generate around 2,600kWh of electricity per annum. That is over 40% of the average annual electricity demand of an Irish home.

Note: All output figures (kwh) sourced from SEAI

Typical day with a solar battery system



Expected monthly solar energy generation in Ireland



Note: A PV Sol will be provided for your specific system.

WHAT IS SOLAR PV?

Solar panels that produce electricity are known as solar photovoltaic (PV) modules. These panels generate DC electricity when exposed to light.

HOW SOLAR PV WORKS

The DC power generated by your panels goes directly to your inverter/hybrid inverter where the DC (Direct Current) power is converted into AC (Alternating Current) power.

The AC power is then used to power your electrical appliances in the home.

THE SYSTEM MAY INCLUDE:

- Solar panels
- Hybrid inverter
- Immersion diverter
- Wifi operation & monitoring via app
- Additional option of battery storage

/// PEIMAR

SOLAR PV PANELS

All black Italian solar panels which offer 365w output per panel and have significant quality accreditations.

- 20-year warranty
- 30-year performance warranty

Ground-mounted installation also available.

IBOOST WATER HEATING MODULE (OPTIONAL EXTRA)

An iBoost diverts surplus power from your solar system to heat your water rather than exporting it to the grid.

ZAPPI CAR CHARGING MODULE (OPTIONAL EXTRA)

Zappi is an Electric Vehicle charge point that has an array of features & flexibility.

Note: To qualify for the SEAI Solar PV Grant a house must achieve a minimum C3 BER rating after the installation.

For a free quote, call Energlaze on 01 901 1635 or visit www.energlaze.ie

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