

# Power Predictor 2.0



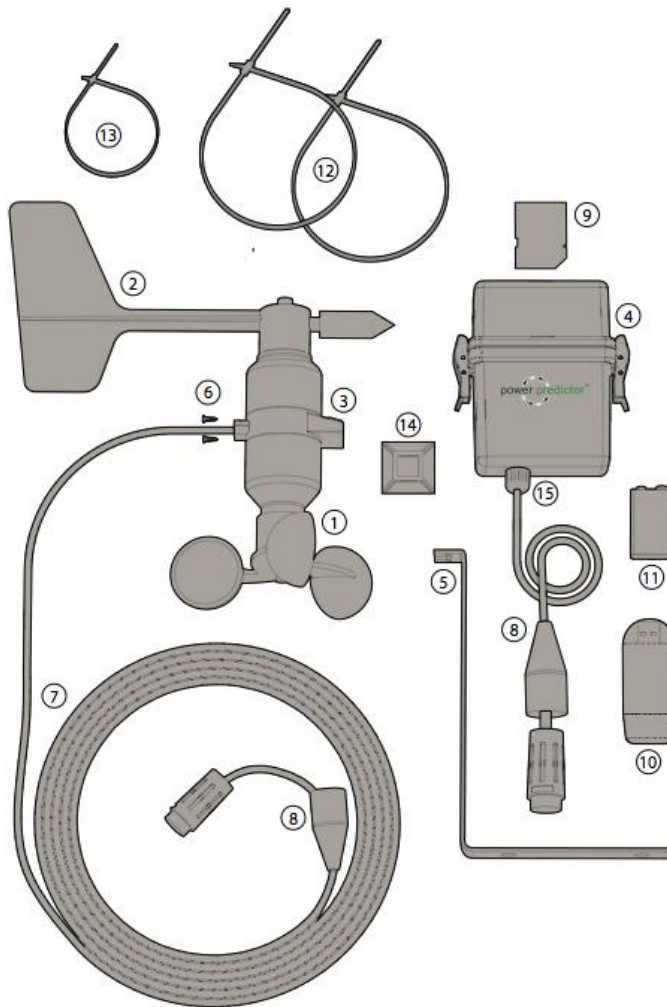
# New Hardware Features 1

- Polycrystalline PV cell improves quality of solar data;
- New logger and cable design improves waterproofing;
- Updated online software now includes Feed in Tariffs (FiTs) and provides greater depth for financial analysis;
- Activation code now located in several places to facilitate account set-up;
- Updated and simplified user manual;
- Logger enclosure opaque to reduce condensation;
- Improvements in manufacturing QA;

# New Hardware Features 2

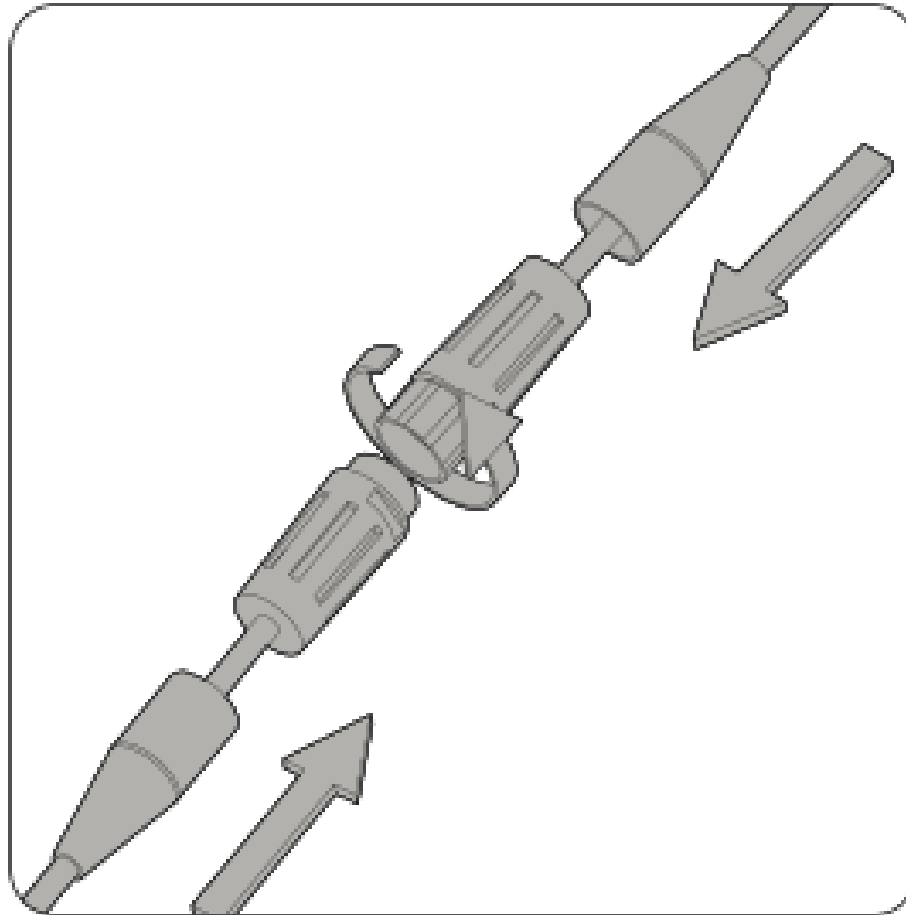
- High quality Duracell battery extends operating time;
- Improved packaging with cleaner, attractive design;
- New mounting mechanism improves logger fixing;
- Improved logger enclosure design simplifies access to battery;
- Smaller overall package eases transportation and reduces delivery charges;
- New logger mounting results in better fastening in all weather conditions;
- Firmware improvements;
- Shorter logger cable gives easier access to unit.

# What's in the box

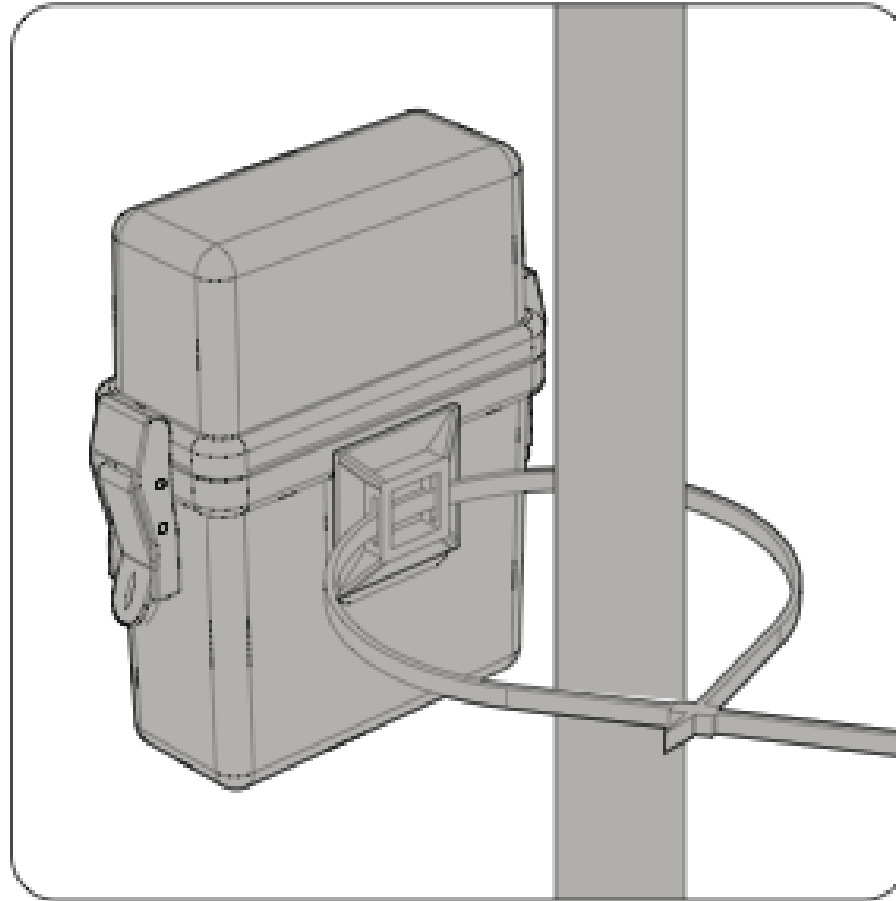


- ① Wind speed cups
- ② Wind direction vane
- ③ Solar PV panel
- ④ Data logger and waterproof box
- ⑤ Metal bracket
- ⑥ 2 x Philips screws
- ⑦ 5m cable
- ⑧ 2 x rubber cable shrouds
- ⑨ Memory card
- ⑩ USB memory card reader
- ⑪ 9V square battery
- ⑫ 2 x large cable ties
- ⑬ Small cable tie
- ⑭ Self adhesive cable clip
- ⑮ Cable gland

# Shrouds



# Rear mounting



# New Software Features 1

- Updated Power Report allows the user to compare different wind and solar products in terms of potential energy output, upfront costs, and CO2 savings;
- Confidence bar indicates the validity of data and helps the user decide how long to record for;
- New design and layout means the user is now guided through the steps to analyse and review their data;
- Data analysis options now include the ability to adjust wind speed by mast height and compare real with modelled averages (data supplied by our partners 3Tier);

# New Software Features 2

- Dynamic data visualisation charts allow users to interactively drill-down and pin-point different periods of their wind and solar data;
- All existing users will be automatically upgraded to the new version 2 software – compatibility with both PP1.0 and PP2.0 hardware;
- New exciting additions, such as the “pro-upgrade” option, new translation platform and further options to analyse solar data coming soon...

**i** We've changed! If you're a returning user, you'll notice we've a brand new design including some extra features. We'd love your **feedback!**

BEFORE buying a wind turbine or solar panel,

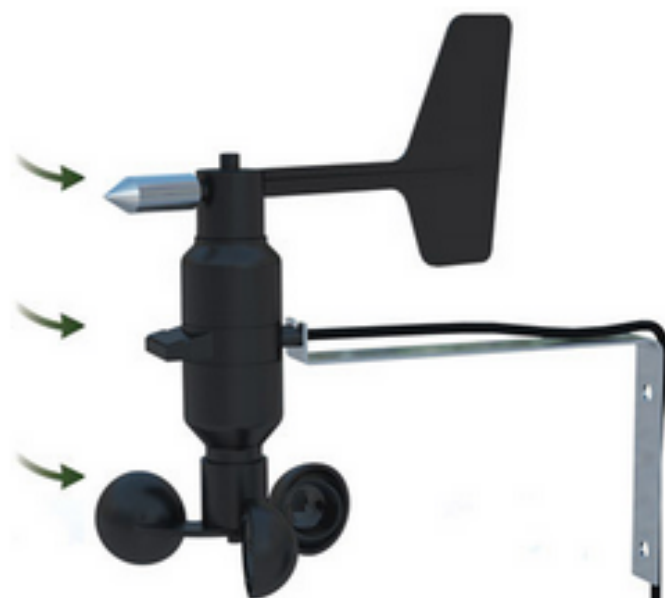
## Find out how much power you'd generate

[Learn more](#)

Check your  
wind direction

Measure your  
potential for  
solar energy

Record your  
wind speed to  
calculate your  
power



Data stored to a  
memory card.



Do you want to generate  
cleaner, cheaper energy?

**Step 1.** Install the Power Predictor where you are thinking of locating your wind turbine or solar panels.

**Step 2.** Leave the Power Predictor to collect your wind and solar data.

**Step 3.** Upload the data to your own account on [www.powerpredictor.com](http://www.powerpredictor.com) and generate unique reports of your purchase options.

[Find your local supplier](#)

New users

Getting started with your Power Predictor is easy. Activate it here to begin analysing your wind and solar data.

Existing  
users

Username

Password

# Add new site

Create a profile for your power predictor

Site name

Street

Town

State/Province

Country

Post/zip code

update map

Mast height (m)

Site altitude (m)

(if you don't know this, leave this blank and we'll try and find your altitude automatically)



Drag the marker to accurately point to the installation site

Latitude: 51.5001524, Longitude: -0.1262362

Roof angle

restore default

# Add new data

Get data from your power predictor

Data confidence 60% [?](#)



You've measured 6 months

Remove your data key from your Power Predictor and plug your USB key into your computer. [?](#)

Browse your computer for your USB key and select the data file. [?](#)

Browse...

Add new data

## How long?

We can analyse your wind and solar rates after one month has past. The more time you measure, the more accurate the predictions will be.

## Don't forget!

Make sure you put your data key back in your Power Predictor to continue recording new data.

## Change locations

Even a different side of your house can have dramatically different readings. Make sure you **add a new location**, so we don't mix the results.

## Upload history

03Jan10 Uploaded 395 hours

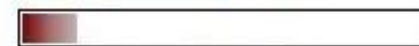
22Nov09 Uploaded 520 hours Note: Data corruption [?](#)

12Sept09 Uploaded 187 hours

# Wind data

Take a look at your wind speed

Data confidence 13% ?



You've measured 2 months

## Average speed (m/s)

**Good wind** ?

**5.9**  
Measured

Modelled 6.3

## See on graph

- Measured data ?
- Average data ?
- Modelled speed ?
- Height adjusted ?

Wrench icon

Height (m) ?



20m



Zoom: 1d 7d 1m MAX

# Solar data

See how the solar irradiation varies

Data confidence 13%



You've measured 2 months

## Average solar (W/m<sup>2</sup>)

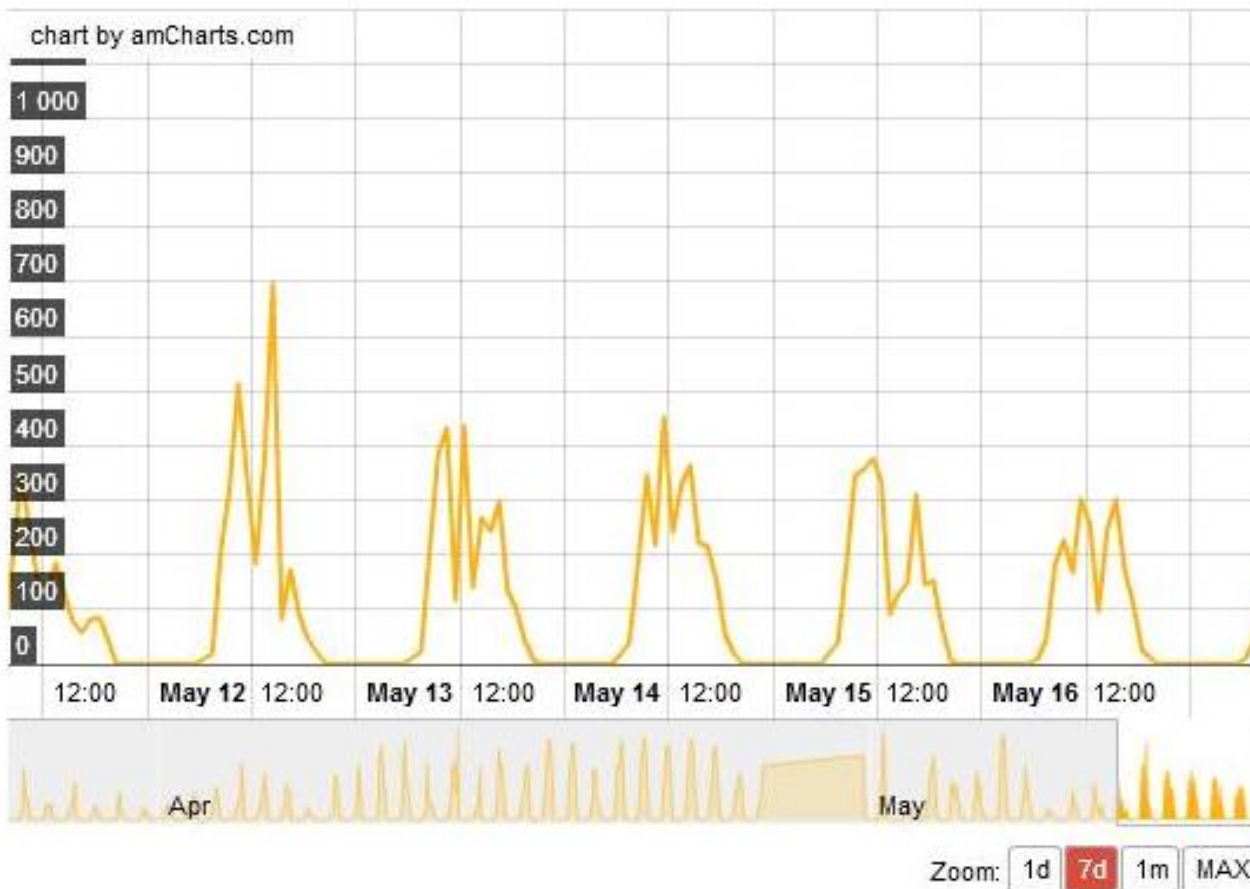
Weak solar ?

**104.0**  
Measured

Modelled 104.92

## See on graph

- Measured data ?
- Average ?
- Modelled solar ?



# Wind direction

What is the prevailing wind? How often does it change?

Data confidence 13% ?



You've measured 2 months

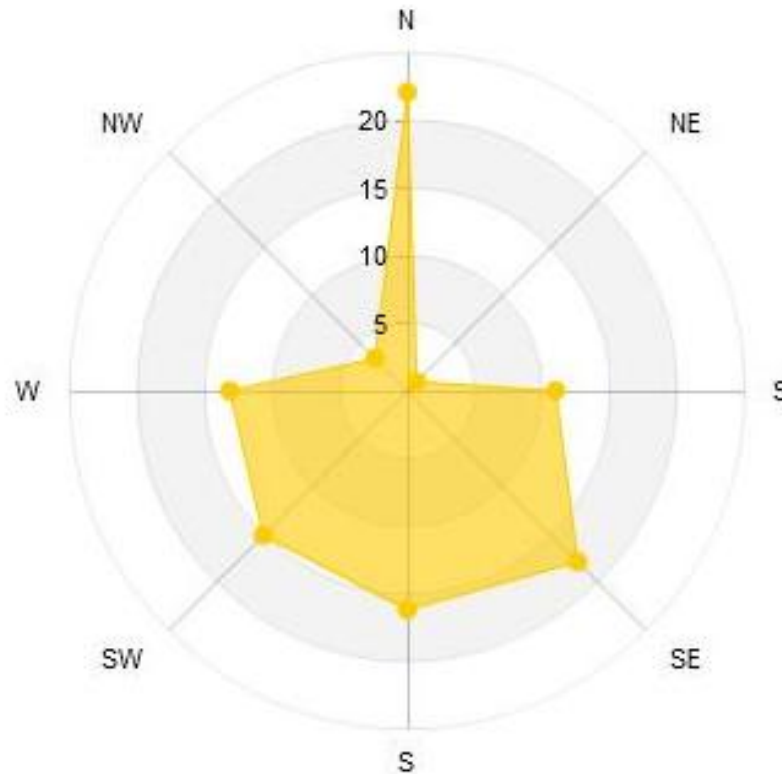
chart by amCharts.com

## Prevailing direction




## Directions

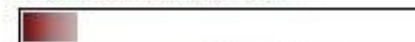
N	22.1%
NE	1.0%
E	11.0%
SE	17.9%
S	16.2%
SW	15.1%
W	13.2%
NW	3.4%



# Power report

Compare your wind and solar options

Data confidence 13% 



You've measured 2 months



## Endurance E-3120 50kW

Best option for kWh

[Financial report >](#)

	Sort by	kWh	Capital cost <sup>?</sup>	kWh <sup>?</sup>	Basic value <sup>?</sup>	Capacity factor <sup>?</sup>	kgCO <sub>2</sub> saved <sup>?</sup>	Carbon footprint <sup>?</sup>
1	 Endurance E-3120 50kW	<a href="#">Financial report &gt;</a>	£215,250	19083.0kWh	£2,290	29.9%	10304.8kg	2978.5%
2	 Gaia Wind 11kW	<a href="#">Financial report &gt;</a>	£50,600	4912.4kWh	£589	38.5%	2652.7kg	766.7%
3	 Proven 35	<a href="#">Financial report &gt;</a>	£58,000	4291.6kWh	£515	24.6%	2317.4kg	669.8%
4	 Westwind 20kW	<a href="#">Financial report &gt;</a>	£69,000	4059.2kWh	£487	17.5%	2191.9kg	633.6%
5	 Evance Iskra R9000	<a href="#">Financial report &gt;</a>	£24,150	1962.9kWh	£236	31.9%	1060.0kg	306.4%
6	 Westwind 10kW	<a href="#">Financial report &gt;</a>	£40,300	1714.6kWh	£206	14.8%	925.9kg	267.6%
7	 Eoltec Scirocco 6kW	<a href="#">Financial report &gt;</a>	£23,000	1594.9kWh	£191	22.9%	861.2kg	248.9%
8	 Ampair 6kW	<a href="#">Financial report &gt;</a>	£15,000	1368.2kWh	£164	19.6%	738.8kg	213.5%
9	 Proven 11	<a href="#">Financial report &gt;</a>	£25,000	1278.2kWh	£153	18.4%	690.2kg	199.5%
10	 Westwind 5.5kW	<a href="#">Financial report &gt;</a>	£24,200	1122.2kWh	£135	17.6%	606.0kg	175.2%
11	 Skystream 3.7	<a href="#">Financial report &gt;</a>	£9,800	677.3kWh	£81	24.3%	365.8kg	105.7%
12	 QR5	<a href="#">Financial report &gt;</a>	£38,000	660.2kWh	£79	9.5%	356.5kg	103.0%
13	 Proven 7	<a href="#">Financial report &gt;</a>	£16,000	645.1kWh	£77	19.8%	349.3kg	100.7%

# Financial report

How the numbers stack up for this option

Data confidence 13% <sup>Ⓢ</sup>



You've measured 2 months



FuturEnergy 1kW [Get more info](#)

FuturEnergy 1kW

Manufacturer: FuturEnergy Ltd  
 Capacity factor: 21.1%  
 Carbon footprint: 38.2%  
 Installed cost: £5,000  
 Blade diameter: 1.80m  
 Rated output: 1000W

**Important:** The financial projections on this page are based on an annualised version of your wind and solar data. This assumes your data sample is seasonally representative. We will shortly be launching a **pro upgrade** option which will enable you to refine these forecasts further.



## Annual energy profile

Household energy consumption	<input type="text" value="4800"/> kWh	↗
Forecasted energy generation	1846 kWh	↗
Does generation meet demand?	38.5%	↗
Of this, used on site?	<input type="text" value="50"/> %	↗
Of this, exported to grid	<input type="text" value="50"/> %	↗
Make up the difference by buying in	80.8%	↗

## Financial projection

Installed cost	£5000	↗
Grants available?	£ <input type="text" value="0"/>	↗
<b>Net cost</b>	<b>£5000</b>	

Net cost	£5000
Annual income	£776
Annual maintenance	£0
<b>Payback</b>	<b>6.44 years</b>

Net cost	£5000
Annual income	£776
Annual maintenance	£0



## Sell to the grid: your annual income

Paid for generation	1846 kWh	x £0.345 / kWh	=	£637	↗
Paid for exporting	923 kWh	x £0.03 / kWh	=	£27.69	↗
<b>Total</b>				<b>£665</b>	

Calculations are based on incentives available in your country or state

## Before you buy a wind turbine or solar panels, find out how much power you could generate.

There's no need for a costly specialist to tell you how much free energy you can harness. We take the guesswork out of choosing a power generating device.

**Step 1.** Make the decision to generate cleaner, cheaper energy.

**Step 2.** Install the Power Predictor on your property where you are thinking of placing your wind turbine or solar panels.

**Step 3.** Let the Power Predictor collect your data.

**Step 4.** Upload your data to [www.powerpredictor.com](http://www.powerpredictor.com) where you will get your own unique Power Report and a comprehensive financial analysis of your purchase options.

Check your wind direction

Measure your potential for solar energy

Record your wind speed to calculate your power



# Better Generation Group

- Global company with offices in London, Hong Kong, China and the USA;
- Backed by a UK regulated investment fund;
- Power Predictor is flagship product, supported by a worldwide network of distributors, resellers and agents;
- Contact us at [sales@bettergeneration.com](mailto:sales@bettergeneration.com) or on +44 (0) 207 231 0173.