

# Battery Saver Report

Property Details:

[REMOVED FOR PRIVACY]

This report was created using [eob.co.uk](https://eob.co.uk).

# Battery saver report

The following report was based on half-hourly meter readings from: [REMOVED FOR PRIVACY] between 01-04-2024 and 31-03-2025 using a 10kWh battery capable of charging at 5kWh.

## 46.1%

Decrease in cost

## £1387

Bill Reduction

## Current Data information

Below is your current data usage

Data	Value
Electricity purchased from the grid	13758.39 kWh
Electricity exported from the property	5287.45 kWh
Octopus import tariff	Flexible Octopus
Solar/Wind/Hydro Detected	Yes
Octopus export tariff	Outgoing Octopus

## Proposed Installation

Below is the proposed battery installation

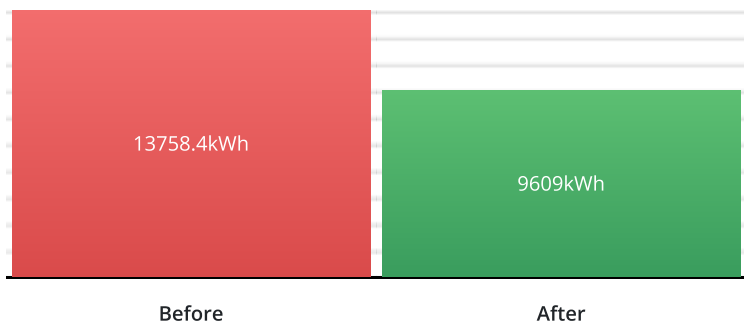
Product	Value
House Battery (usable battery size)	10 kWh
Inverter (Charge Speed)	5 kWh
Inverter (Discharge Speed)	5 kWh
Install Cost	£7400
Allow Grid Charging	No
Octopus import tariff	Intelligent Octopus Go
Octopus export tariff	Outgoing Octopus

# Overall impact of Proposed Changes

The information below shows the impact of installing a battery and inverter in this property. The dates used were from 01-04-2024 to 31-03-2025. Please note, whilst this is using data from the smart meter, we still class this as an estimate as various factors can affect the figures. e.g. the customer may use more electricity next year.

## Grid usage

The below chart shows how much electric was pulled from the grid during the time period specified.



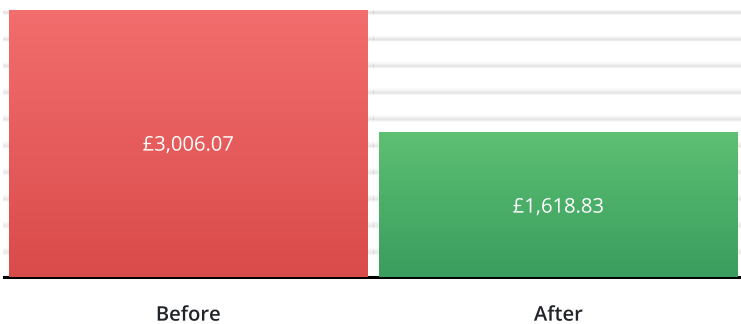
### Grid Reduction

# 4149.35

kWh reduced

## Total Financial impact

The below chart shows how much the electric bill at the property would drop based on the current tariff. This includes daily connection fees. Income from existing renewable sources such as solar has been deducted from the total (excludes FIT payments).



### Cost Saving

# £1,387.24

saved

**To achieve the savings outlined, the following settings will need to be applied:**

- The import tariff will need to be Intelligent Octopus Go
- The export tariff will need to be Outgoing Octopus

# Grid Import Monthly breakdown

This section shows how the changes would have affected your import consumption.

## Monthly import comparison figures

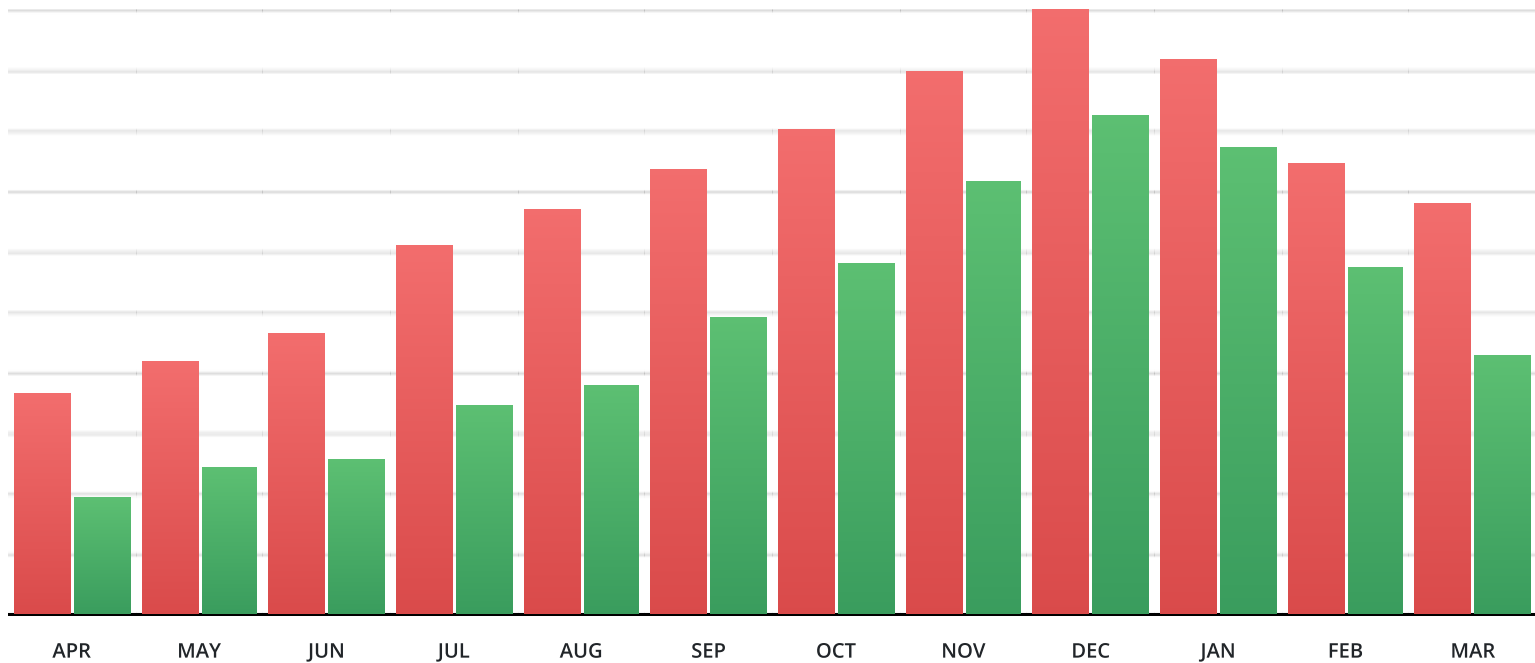
The below figures are a monthly breakdown of the kWh pulled from the grid before and after installation.

Month	Before install	After install
2024-04	602.43 kWh	322.22 kWh
2024-05	690.33 kWh	400.09 kWh
2024-06	770.51 kWh	424.67 kWh
2024-07	1012.87 kWh	571.00 kWh
2024-08	1108.83 kWh	626.90 kWh
2024-09	1219.80 kWh	811.79 kWh

Month	Before install	After install
2024-10	1327.34 kWh	960.86 kWh
2024-11	1487.68 kWh	1184.43 kWh
2024-12	1658.99 kWh	1366.32 kWh
2025-01	1519.09 kWh	1279.23 kWh
2025-02	1234.48 kWh	952.48 kWh
2025-03	1126.05 kWh	709.05 kWh

## Monthly import comparison chart

The below chart shows grid usage before and after the proposed battery install in a visual form.



## Monthly import cost figures

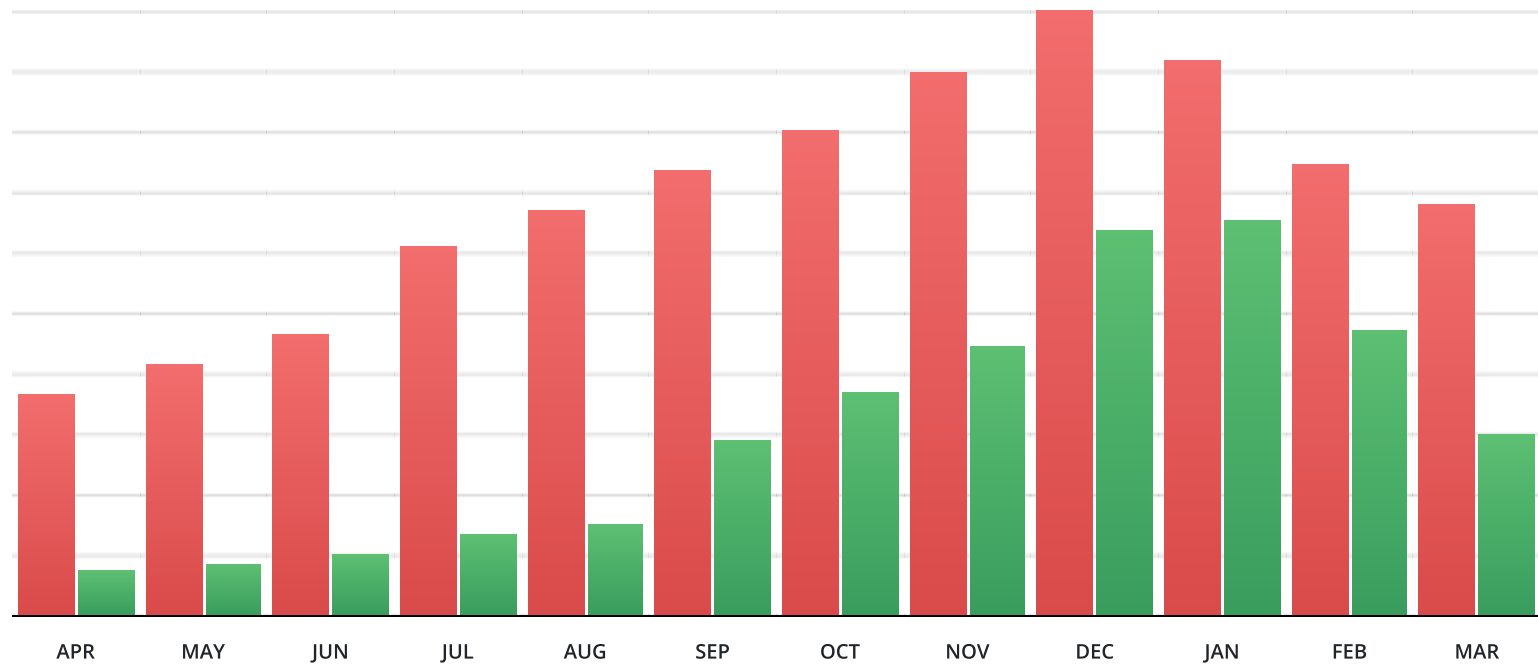
The below figures are a breakdown of the monthly cost before and after installation.

Month	Before install	After install
2024-04	£158.42	£32.45
2024-05	£181.28	£36.31
2024-06	£202.76	£43.69
2024-07	£266.44	£58.51
2024-08	£291.85	£64.69
2024-09	£321.15	£125.38

Month	Before install	After install
2024-10	£349.56	£160.54
2024-11	£392.02	£193.27
2024-12	£437.00	£277.97
2025-01	£399.96	£284.21
2025-02	£325.28	£204.65
2025-03	£296.50	£130.45

## Monthly import cost comparison chart

The below chart shows the monthly cost (£) before and after the proposed install in a visual form.



# Grid Export Monthly breakdown

This section shows how the changes would have affected your export energy.

## Monthly export comparison figures

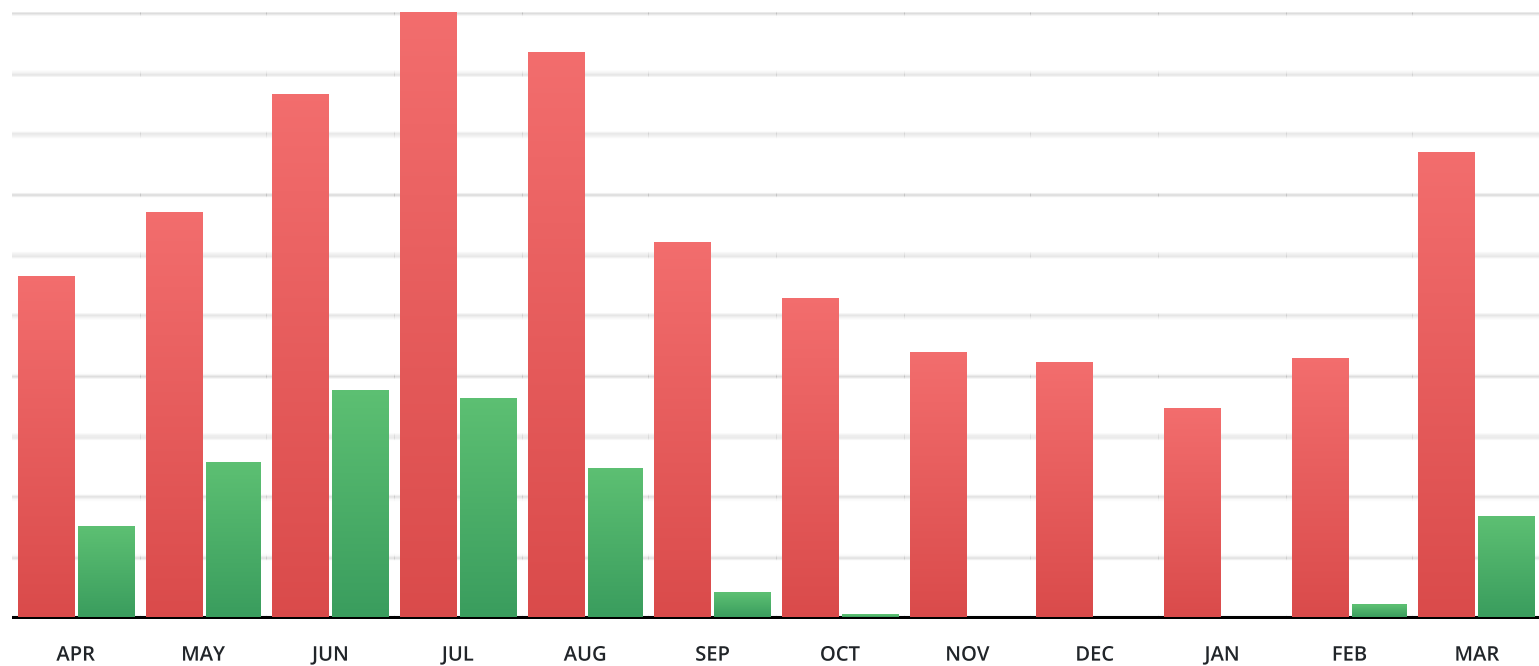
The below figures are a monthly breakdown of the kWh exported to the grid before and after installation.

Month	Before install	After install
2024-04	393.19 kWh	105.18 kWh
2024-05	467.82 kWh	177.86 kWh
2024-06	603.35 kWh	262.28 kWh
2024-07	698.18 kWh	251.18 kWh
2024-08	650.64 kWh	172.05 kWh
2024-09	432.81 kWh	27.22 kWh

Month	Before install	After install
2024-10	367.96 kWh	2.70 kWh
2024-11	304.99 kWh	0.00 kWh
2024-12	294.12 kWh	0.00 kWh
2025-01	240.32 kWh	0.00 kWh
2025-02	297.24 kWh	13.69 kWh
2025-03	536.82 kWh	115.73 kWh

## Monthly export comparison chart

The below chart shows kWh export before and after the proposed battery install in a visual form.



## Monthly export value figures

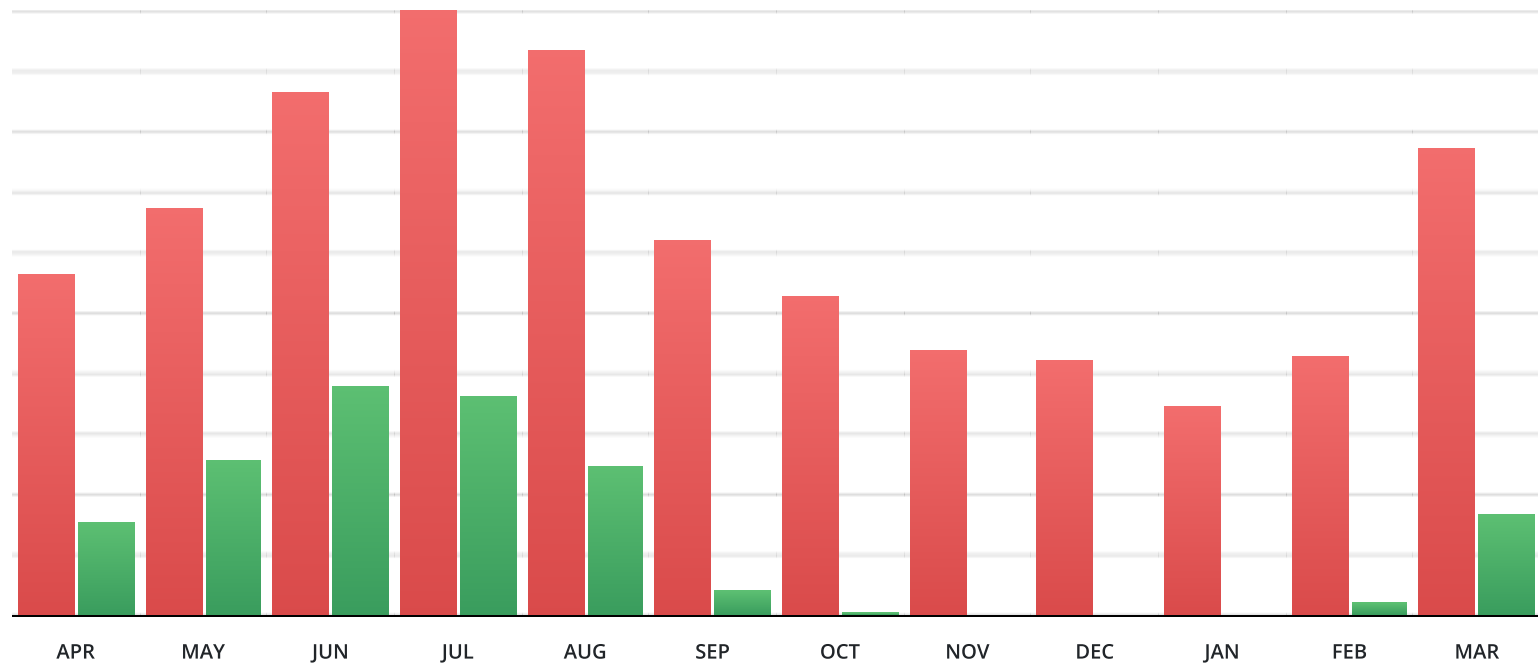
The below figures are a breakdown of the monthly export before and after installation.

Month	Before install	After install
2024-04	£58.98	£15.78
2024-05	£70.17	£26.68
2024-06	£90.50	£39.34
2024-07	£104.73	£37.68
2024-08	£97.60	£25.81
2024-09	£64.92	£4.08

Month	Before install	After install
2024-10	£55.19	£0.41
2024-11	£45.75	£0.00
2024-12	£44.12	£0.00
2025-01	£36.05	£0.00
2025-02	£44.59	£2.05
2025-03	£80.52	£17.36

## Monthly export value comparison chart

The below chart shows the monthly export (£) before and after the proposed install in a visual form.



# Return on Investment

This section shows how long the return on your investment would take to pay off using only the savings made.

## Return on Investment (ROI)

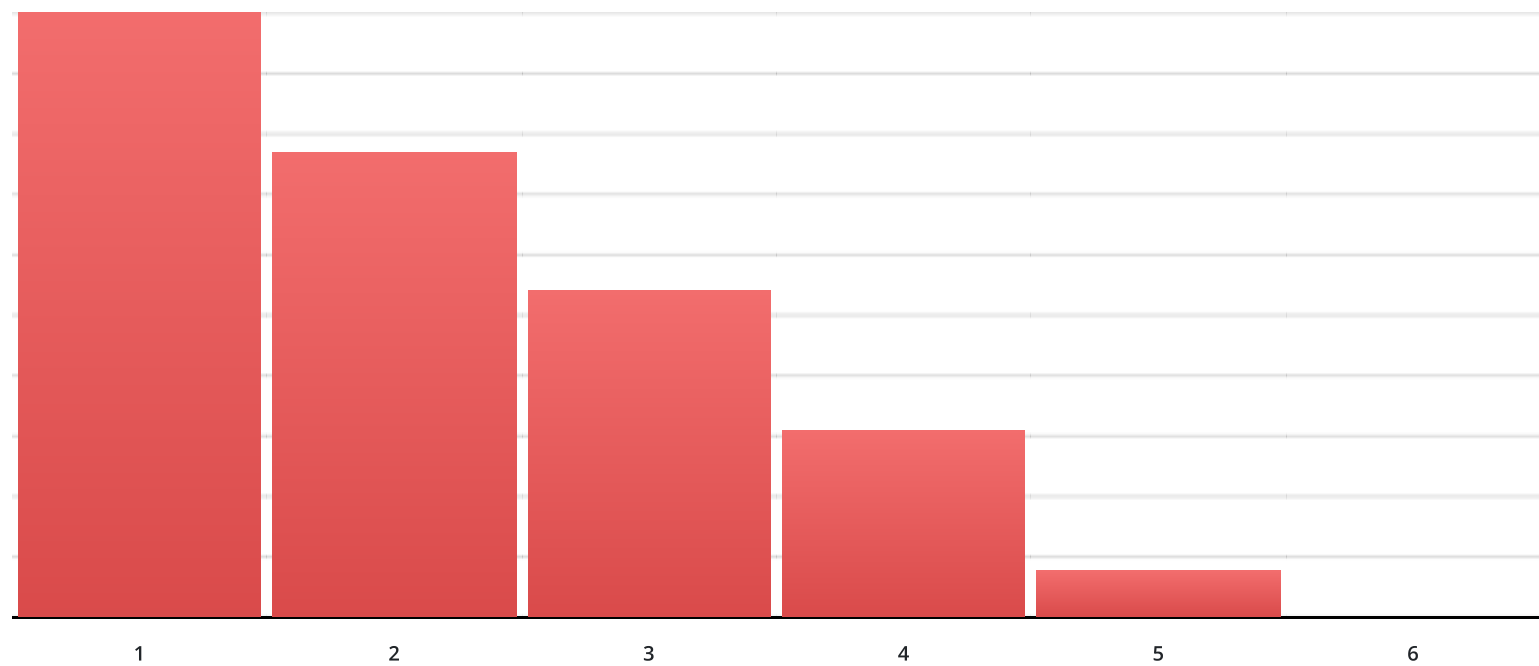
This table shows how many years it takes to pay off the installation cost of £7,400.00 using annual savings of £1,387.24.

Year	Remaining Install Cost
1	£6,012.76
2	£4,625.53
3	£3,238.29

Year	Remaining Install Cost
4	£1,851.05
5	£463.82
6	£0.00

## ROI Bar Chart

This chart visualises the remaining installation cost for each year until the cost is fully paid off.



# Tariff Information

This section explains the tariffs used for the calculations. Please note, prices are based on the current tariff prices. While you may have a fixed cheaper tariff at the moment, when this ends, you would be moved to the new prices automatically. As such, it makes sense to calculate future predictions using the current prices per kWh.

## Old Import Tariff Details

Details	Value
Tariff Name	Flexible Octopus
Tariff Code	VAR-22-11-01
Standing Daily Charge	£0.4572820
From 01:00:00 to 01:00:00	£0.263689 per kWh

## New Import Tariff Details

Details	Value
Tariff Name	Intelligent Octopus Go
Tariff Code	INTELLI-VAR-24-10-29
Standing Daily Charge	£0.4545150
From 01:00:00 to 05:30:00	£0.070004 per kWh
From 05:30:00 to 23:30:00	£0.27773 per kWh
From 23:30:00 to 01:00:00	£0.070004 per kWh

## Old Export Tariff Details

Details	Value
Tariff Name	Outgoing Octopus
Tariff Code	OUTGOING-VAR-24-10-26
Standing Daily Charge	£0.0000000
From 01:00:00 to 01:00:00	£0.15 per kWh

## New Export Tariff Details

Details	Value
Tariff Name	Outgoing Octopus
Tariff Code	OUTGOING-VAR-24-10-26
Standing Daily Charge	£0.0000000
From 01:00:00 to 01:00:00	£0.15 per kWh

---

## Battery Charging Details

The battery is configured to use the renewable energy available on the property. However, we recommend enabling grid charging as well to help boost your annual savings.

## Eco credentials

By storing excess solar generation in your home battery, you reduce the amount of electricity drawn from the grid—which carries an associated carbon cost. Each kilowatt-hour of solar energy stored and used instead of grid power directly lowers your CO<sub>2</sub> emissions, thereby reducing your overall carbon footprint.



Carbon Savings

**518.67**

kg CO<sub>2</sub> saved per year



The same as

**23.82**

fully grown trees



Petrol Cars Removed

**0.3**

cars per year

How the carbon figure is calculated.

We take the change in your annual grid use (in kWh) and multiply it by 0.125 kg CO<sub>2</sub> per kWh (which is the same as 125 g CO<sub>2</sub> per kWh).

$\text{CO}_2 \text{ (kg/year)} = \Delta \text{ kWh} \times 0.125 \text{ kg CO}_2/\text{kWh}$ .

How the tree count is calculated.

We take your annual CO<sub>2</sub> savings (in kg) and divide by the amount one tree absorbs per year (21.77 kg CO<sub>2</sub>).

$\text{Trees needed} = \text{CO}_2 \text{ (kg/year)} \div 21.77 \text{ kg CO}_2/\text{tree}$ .

How the car figure is calculated.

We take your annual CO<sub>2</sub> savings (kg CO<sub>2</sub>/year) and divide it by 1749 kg CO<sub>2</sub> per average UK petrol car:

$\text{Cars removed} = \text{CO}_2 \text{ (kg/year)} \div 1749 \text{ kg CO}_2/\text{car}$ .