

# Domestic Energy Storage System Trial

A project funded by UK Power Networks (UKPN) and managed by Powervault Ltd in partnership with Sonnen, Greenman Solar and Bikash Pal, Professor of Power Systems at Imperial College London, working through Imperial Consultants.

## Terms and Conditions

### 1. THESE TERMS AND CONDITIONS (“TERMS”) CREATE LEGALLY BINDING OBLIGATIONS FOR:

- 1.1 The installation of Monitoring Equipment to record data about the use of electricity in your home and the contribution of Powervault or other domestic energy storage devices to improving Your energy efficiency and that of the local distribution network; and
- 1.2 Your participation in UK Power Network’s Domestic Energy Storage System trials through the collection of Personal Data including (but not limited to) Your consumption of electricity and the contribution of Powervault, Sonnen or other domestic energy storage devices to improving Your energy efficiency and that of the local distribution network.
- 1.3 We consider these Terms set out the whole agreement between You and Us for participation in the Trial.
- 1.4 Please ensure that you read and understand these Terms before you sign to accept them, because you will be bound by the Terms once the agreement comes into existence between us in accordance with clause 1.5.
- 1.5 These Terms will commence on the date that We receive the signed Terms from You.

### 2. DEFINITIONS

- 2.1 Domestic Energy Storage Device means a device installed to the home, containing a battery which can be charged using grid electricity or self-generated renewable electricity and discharging this energy when there is a demand.
- 2.2 Domestic Energy Storage System trial means the project led by Powervault Ltd and UK Power Networks (Operations) Limited and its partners; Sonnen GmbH, IC Consultants Ltd, Greenman Solar, and other selected installers.
- 2.3 Monitoring Equipment means electrical instruments that record characteristics of electrical power including but without limitation voltage, current, kWh, kVAr, kVA, time of use, harmonic distortion.
- 2.4 Personal Data has the same meaning as the Data Protection Act 1998
- 2.5 Trial Term means the term of the domestic energy storage system trial commencing on the date that the monitoring equipment is installed and expiring 12 months after installation.
- 2.6 Operation Mode refers to the control logic in Your Domestic Energy Storage Device which defines how and when the Domestic Energy Storage Device charges and discharges.
- 2.7 Trial means the Domestic Energy Storage Systems trial to assess the contribution of Powervault or other domestic energy storage devices to improving Your energy efficiency and that of the local distribution network.
- 2.8 We/Us/Our means Powervault, UK Power Networks (Operations) Limited, sonnen GmbH, IC Consultants Ltd, Greenman Solar, and other selected installers.

### 3. OUR RESPONSIBILITIES

- 3.1 If, following a Site Inspection, You confirm to Us by entering into these Terms that you wish to participate in the Trial and if We deem it necessary, We will discuss with You, the installation of a Domestic Energy Storage System and monitoring equipment.
- 3.2 We will install at our cost Monitoring Equipment to collect and transmit electricity consumption data from the charging and discharging of your Domestic Energy Storage System. We may collect and process the electricity consumption data at 1 minute or longer intervals for the duration of the Trial.

#### **4. ACCESS FOR INSTALLATION AND SERVICES**

- 4.1 You agree to provide Us with access at all reasonable times to carry out checks on the Monitoring Equipment and to collect and process the electricity consumption data from the charging and discharging of your Domestic Energy Storage Device.
- 4.2 You may choose the time that suits You to install the Monitoring Equipment and Domestic Energy Storage System and We will install the Monitoring Equipment and the Domestic Energy Storage System at that time. You agree to provide Us with access to carry out any checks and inspections of the Monitoring Equipment and the Domestic Energy Storage System provided that We do so between the hours of 8am to 4pm Monday to Friday (excluding Bank Holidays).
- 4.3 You agree to provide Us with access to remove the Monitoring Equipment within four weeks after the date the agreement is cancelled or within a reasonable time following the completion of the Trial.
- 4.4 You agree to provide Us with access to change the Operation Mode of Your Domestic Energy Storage Device to simulate, test and measure the benefits of Your Domestic Energy Storage Device providing a service to the UKPN local distribution network. These alternative Operation Modes will be tested for a period of up to 3 months during the course of the Trial.

#### **5. YOUR OBLIGATIONS**

- 5.1 You agree that your house meets the criteria set out in Schedule 1 for acceptance onto the trial.
- 5.2 You agree to promptly give Us notice in writing if:
  - You sell Your house; or
  - You no longer wish to participate in the Trial

#### **6. CANCELLATION**

- 6.1 We may cancel Your agreement and these Terms shall cease to apply in the following circumstances:
  - if We give You reasonable notice that the Trial is no longer going ahead or has come to an end
  - if You sell Your house
  - if, upon carrying out Our checks, it is discovered that Your internal electricity wiring is unsuitable for the purposes of the Trial and Your participation in the Trial will be at an end.
- 6.2 If We cancel Your agreement We will, within a reasonable time following cancellation, remove the Monitoring Equipment from Your property
- 6.3 You may withdraw from the Trial at any time by contacting Us by email at [powervaultukpntrial@powervault.co.uk](mailto:powervaultukpntrial@powervault.co.uk) or by writing to Powervault + UKPN Trial, 29 Shand Street, London Bridge, SE1 2ES or alternatively by contacting your installer.
- 6.4 If You withdraw from the Trial We will remove the Monitoring Equipment within four weeks of receiving notice from You.

#### **7. SAFETY**

- 7.1 We may advise You that repairs or improvements are needed to make sure Your wiring works safely. If You do not follow Our advice it may mean We are not able to fulfil Our obligations under Your agreement. In this case We may cancel Your agreement or You may tell us You wish to cancel the agreement.

#### **8. DATA PROTECTION**

- 8.1 You acknowledge that the electricity consumption data collected by the Monitoring Equipment may be Personal Data. You consent to the Trial processing Your Personal Data for research, legal, administrative and management purposes relating to You, including, as appropriate:
  - Information You give us in application forms, letters, via electronic messages or over the telephone
  - Information received from the Monitoring Equipment installed along side the Domestic Energy Storage System this will include electricity consumption data recorded at up to one-minute intervals from Your Domestic Energy Storage System
- 8.2 We may make such information available to any Company within the UK Power Networks group or Powervault, Sonnen or to others who provide products or services to us in relation to the trial, regulatory authorities and if required governmental or quasi- governmental organisations
- 8.3 You consent to the transfer of such information to any Company within the UK Power Networks group, Powervault, Sonnen or others within or providing services to the Trial.
- 8.4 We may keep Your Personal Data during the Trial and for a period of two years following the Trial.

- 8.5 We may store, use and process Your Personal Data in order to:
- Carry out research and statistical analysis on the timing, frequency and duration of charging and discharging of Your Domestic Energy Storage System
  - Provide you with services related to the Trial
  - To invite you to take part in other activity linked to the Trial including focus groups, completion of questionnaires
- 8.6 We will hold Your Personal Data in accordance with the Data Protection Principles contained in the Data Protection Act 1998
- 8.7 Under the Data Protection Act 1998 you are entitled to a copy of the information we hold about you on request, on payment of a fee. If you think any information we hold about you is inaccurate, don't hesitate to let us know so that we can correct it
- 8.8 We will not share, transfer or sell your information with Personal Data to any party not associated with the Trial
- 8.9 You may withdraw Your consent to Us collecting and processing Your Personal Data at any time by giving Us notice in accordance with clause 6.3. In the event that you withdraw Your consent to Your Personal Data being processed the agreement will be cancelled and clause 6.4 shall apply and Your Personal Data will no longer be processed. Unless You instruct Us otherwise We will keep the data We have collected up to the date of Your withdrawal from the Trial and for a period of two years following the Trial in accordance with clause 8.4

## 9. Loss and damage

- 9.1 Prior to the installation of the Monitoring Equipment and the Domestic Energy Storage System We will discuss its positioning with You and we will take all necessary steps to carry out any work safely and with minimum disruption to You. We will make good any damage We cause to Your property as a result of installing the Monitoring Equipment and the Domestic Energy Storage System.

## 10. Ownership

- 10.1 The Monitoring Equipment will be owned by Us. If the Trial or Your agreement is cancelled for any reason before the expiry of the Trial Term we may remove the Monitoring Equipment in accordance with clause 4.3.
- 10.2 On the expiry of the Trial Term We will remove the Monitoring Equipment in accordance with clause 4.3.
- 10.3 The Domestic Energy Storage System will be owned by You. All risk and ownership in the Domestic Energy Storage System is Yours.

## 11. Complaints

- 11.1 Our aim is to do our best when carrying out the Trial but if you have a complaint please email [powervaultukpntrial@powervault.co.uk](mailto:powervaultukpntrial@powervault.co.uk) or write to Powervault + UKPN Trial, 29 Shand Street, London Bridge, SE1 2ES.

## What You should do next:

If You wish to participate in the Trial and accept the Terms You will need to sign both copies of the Terms form (keep one copy for Yourself) and send the other form back to Us at the following address; [powervaultukpntrial@powervault.co.uk](mailto:powervaultukpntrial@powervault.co.uk)

Provided that We have received the signed Terms Our delivery team will contact You to arrange the installation of the Monitoring Equipment and Domestic Energy Storage System.

### Data Protection *(please tick as appropriate)*

You consent to Your Personal Data being processed in accordance with these Terms

**Signature:**

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**Print name:**

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**Date:**

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# Schedule 1: Criteria For Acceptance into the UKPN Trial

## REQUIREMENTS FOR HOUSES:

1. You must be within the UKPN local distribution network. Check if we cover your area here: <http://www.ukpowernetworks.co.uk/internet/en/about-us/areas-we-cover/>
2. You must be an existing Solar PV owner or be having an install before end Jan 2017
3. You must purchase a Powervault or Sonnen before the end Jan 2017 or be an existing Powervault or Sonnen owner or the owner of a DC connected battery system
4. You must agree to our detailed T&C's
5. You must have internet within your home and be willing to keep the energy storage device and monitoring equipment connected to your wifi for the duration of the trial (estimated broadband usage per day through the monitoring equipment is 180MB/month. The device will only connect to the internet once per day during the night)
6. Your electricity meter, solar panel grid connection (Henley Blocks) must be based within (not outside) your house to enable connection of all of the monitoring devices within the house as per the schematics below (these should be checked by your installer before signing you up to the trial).
7. Three small (shoe box size) monitoring devices must be plugged in for the duration of the trial to a standard three pin plug socket – installers may need to visit your home to check the feasibility of the set up of the monitoring devices.
8. You must answer a short 5 minute questionnaire at the time of the install of the monitoring equipment.

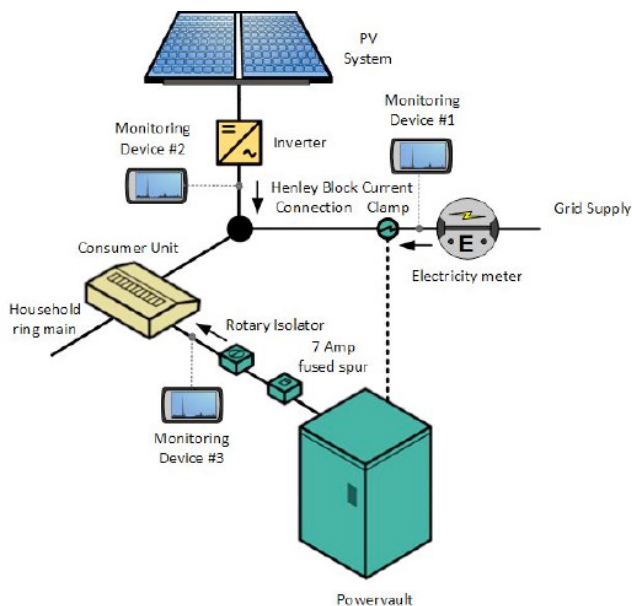
## Schematics

Monitoring devices must be placed in the locations marked on the schematics below:

### Note that:

- These must all be within the house
- The devices must be plugged in and connected to the customer's Wifi and;
- The current clamp must be clamped with the arrow facing in the direction below.

### Powervault:



### DC connected system:

