

# Security of Supply for Vulnerable Customers (SSVC): User Guide

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#### 1 Overview

This guide shall provide a walkthrough of the set up and features of the Security of Supply for Vulnerable Customers (SSVC) software, such that a user may manage assets in preparation for real scenarios and simulate theoretical scenarios.

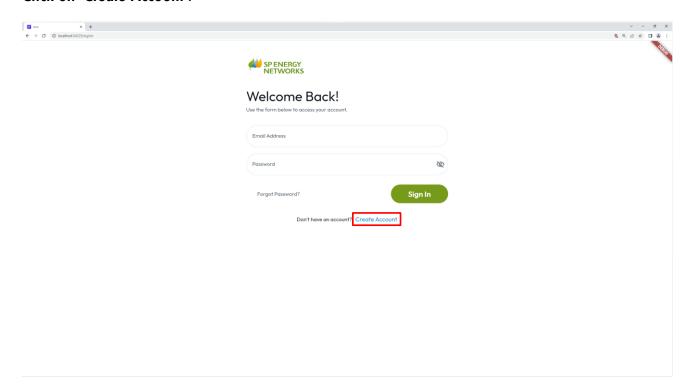
The SSVC software includes the following pages:

- Home where a dashboard overview of SSVC is presented
- Scenarios where different scenarios can be simulated, to evaluate SSVC preparedness
- Stock information where response items can be managed
- PSR categories where Priority Service Register (PSR) categories can be managed in their relation to SSVC
- Depots where response item depots can be managed
- Admin where datasets can be imported into the SSVC software

Through this guide, screen elements which can be interacted with are outlined in red.

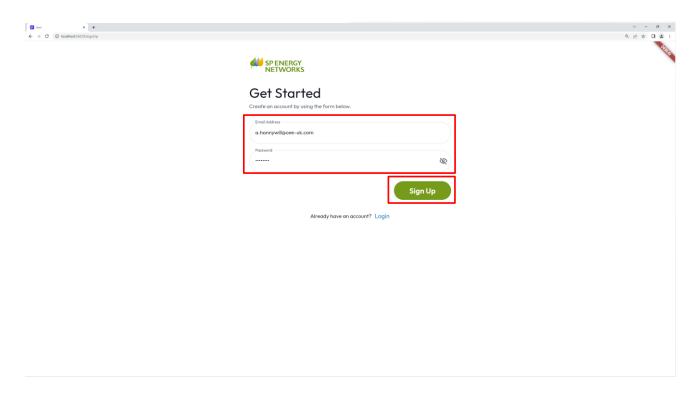
#### 2 Set Up and Log In

When using SSVC software for the first time, a log in page will be presented. To register an account, Click on 'Create Account'.

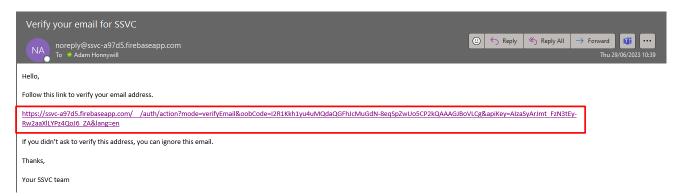


Next, register for an account with your email and a password.





This will send an email to your inbox, where you should click on a link for verification.

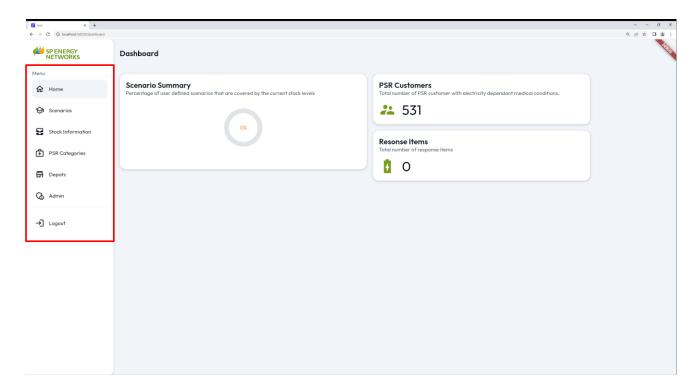


Now you may return to SSVC and enter your login details to the sign in page.

## 3 General Navigation

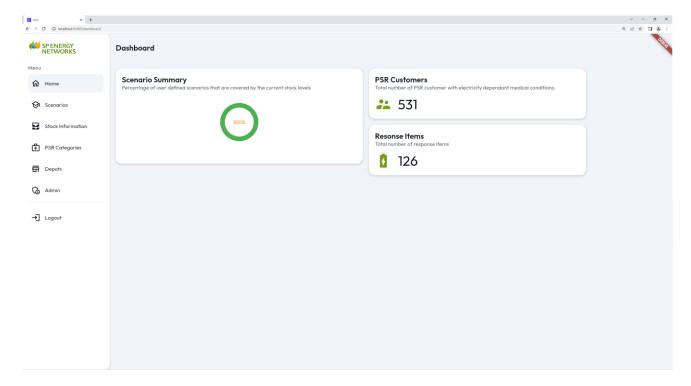
Once logged in, all SSVC sections are always accessible from each other via a **click on the sidebar on the left.** 





### 4 Home

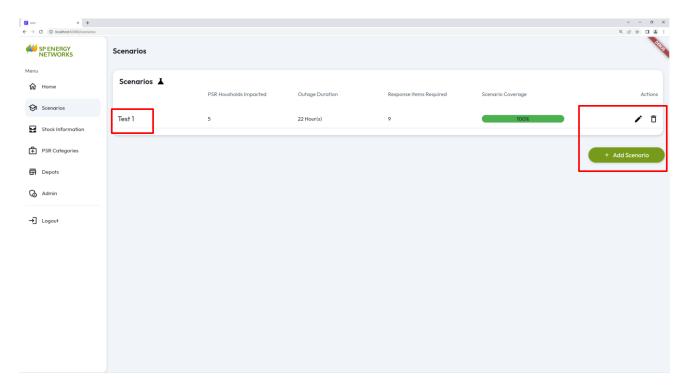
The home dashboard is an overview of the current status of SSVC: it includes the number of PSR customers who are medically dependent on electricity and therefor eligible for SSVC; the number of response items for SSVC; and a Scenario Summary, with the percentage of user defined scenarios that are covered by the stock levels.



#### **5** Scenarios

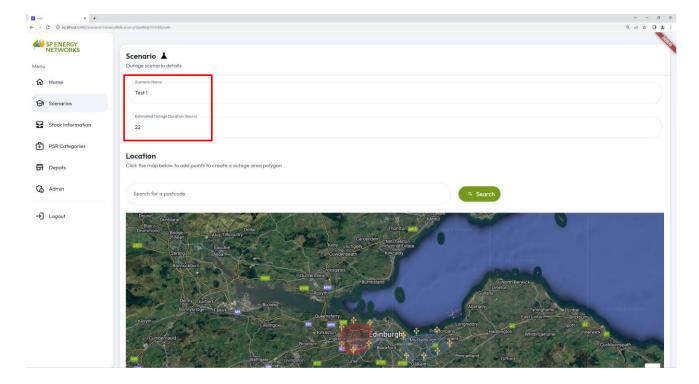


The scenarios page contains scenarios that can be used to simulate outages to predict the effectiveness of SSVC. The page shows the PSR households impacted, the outage duration, the response time To create a scenario, click on '+ Add Scenario'. To edit a scenario, click on the name or pencil icon in the row of the relevant scenario. To delete a scenario, click on the bin icon.



Inside a scenario, different aspects can be modified.

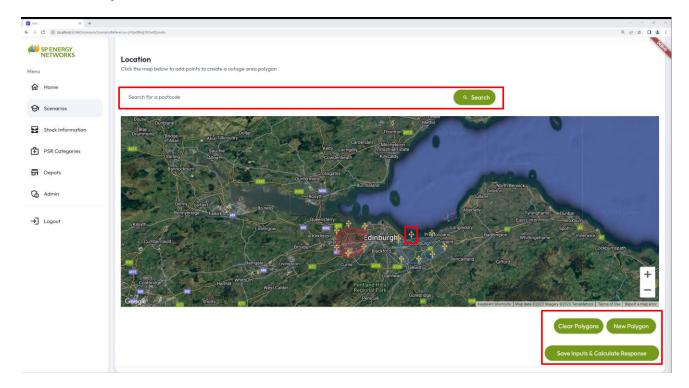
• The name and estimated outage duration are boxes which you can click and type in to edit.





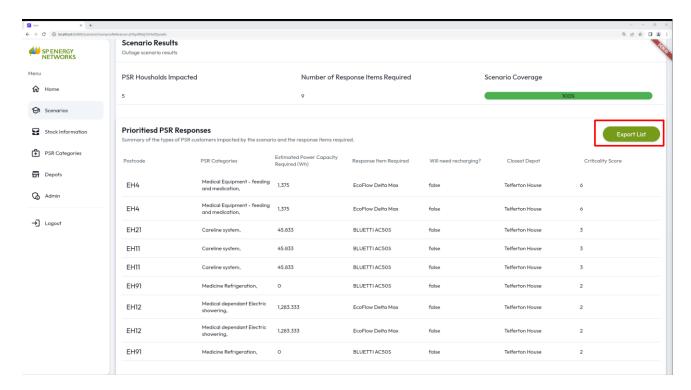
- The outage location(s) can be created through an interactive map. To draw an outage area, click on the 'New Polygon' button and then click on the map to add vertices to an outage area polygon.
- To modify an area, click and drag orange vertex markers.
- To remove a marker, click on the marker you want to remove.
- To clear all polygons, click 'Clear Polygons'. To move the centre of the map, click and drag anywhere but a marker or enter a postcode and click 'Search'.

Click 'Save Inputs & Calculate Results' to see the scenario results below.

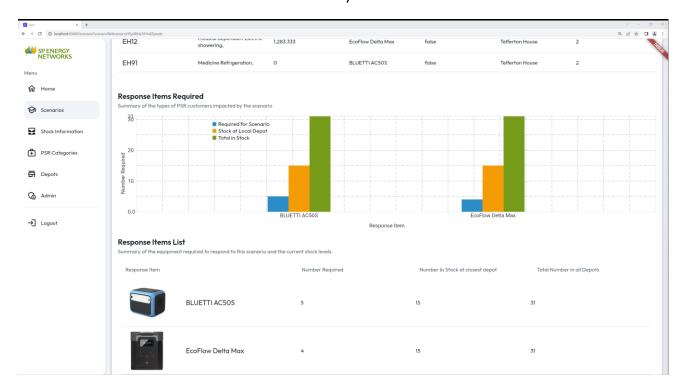


The scenario results include the number of PSR households impacted, the response items therefore required and the coverage percentage given nearby depot stock levels. A list of electrically dependent PSR registrants is ranked by their criticality score, along with the response item that they require for their power capacity required. To download the list, click the 'Export List' button. The scenario coverage percentage is based on all batteries in stock rather than those at the closest depot (as it is assumed some sharing between depots can occur).





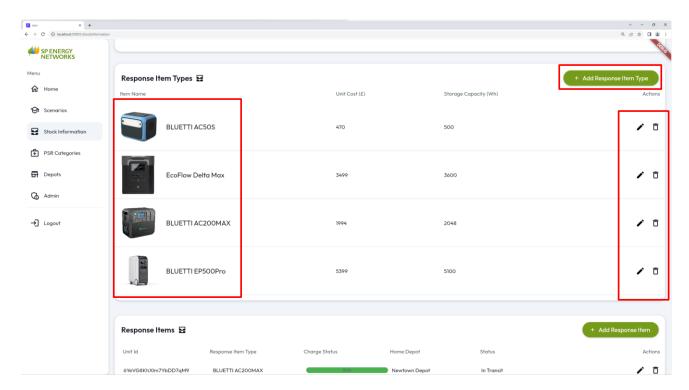
Further below the results include information on the response items required, aggregated from the PSR list. A bar chart and table shows the availability of total and local stock of the items.



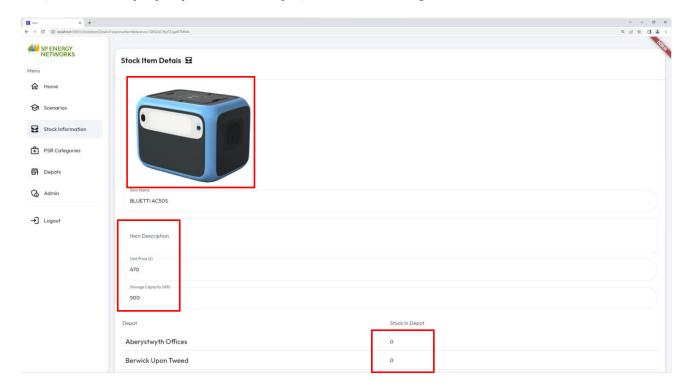
#### **6 Stock Information**

The stock information page contains the response item types and individual units. To add an item type, click on '+ Add Response Item'. To delete a an item type, click on the bin icon. To edit a model (e.g., a battery), click on their picture or the pencil icon.



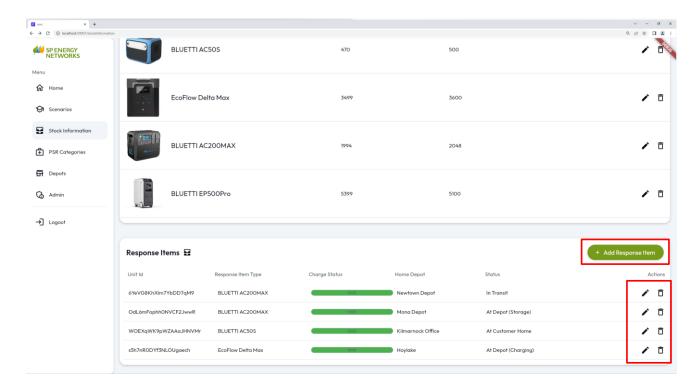


From this screen, their name, capacity and price can be edited as well as their stock in each depot. To edit, click on the property. To save changes, click 'Save Changes' at the bottom of the screen.

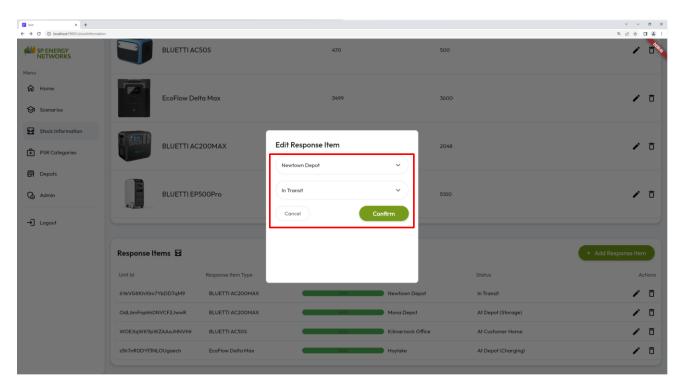


Back on the stock information page, below the item types are individual items. The items include an ID number, a type (e.g., a model of battery), a status (e.g., charge level), their home depot and current location. To add an item, click 'Add Response Item'. To delete an item, click the bin icon. To edit the properties of an item, click on the pencil icon.





When editing an item, a pop up will appear. Click on a property to change it and then 'confirm' or cancel.

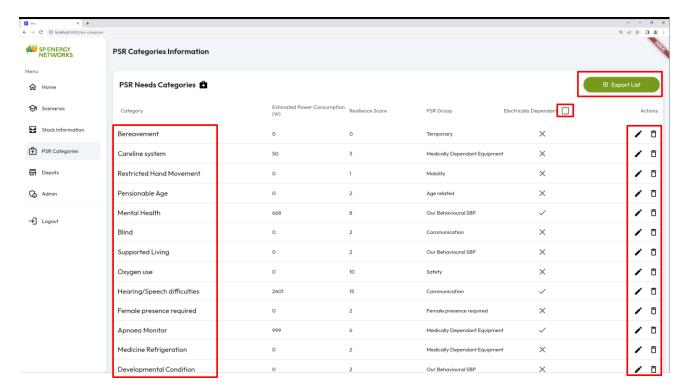


#### 7 PSR Categories

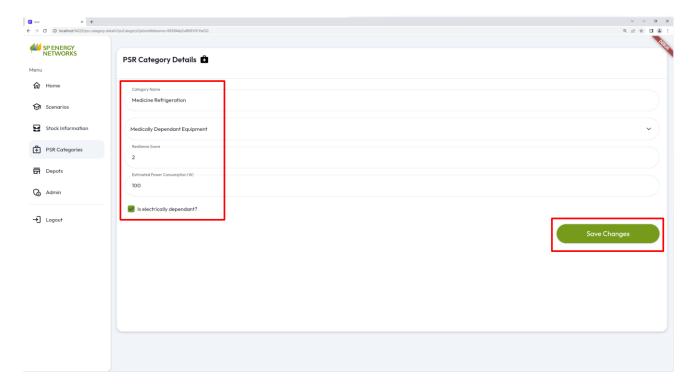
The PSR Categories page contains the database of categories that PSR customers may be registered as. This is where the power requirements of the different devices can be entered, as well as the resilience score and flag for if the category is electrically dependent. To filter the list for electrically



dependent reasons, click the electrically dependent tick box. To export the data, click 'Export List'. To modify data, click the category name or the pencil icon. To delete a category, click on the bin icon.



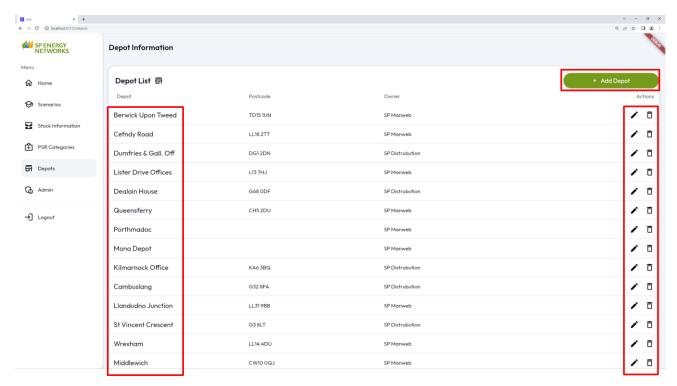
When editing a category, you can click on the name, associated medical equipment, reliance score and estimated power consumption and electrical dependency to update them. To save the changes, click 'Save Changes'.



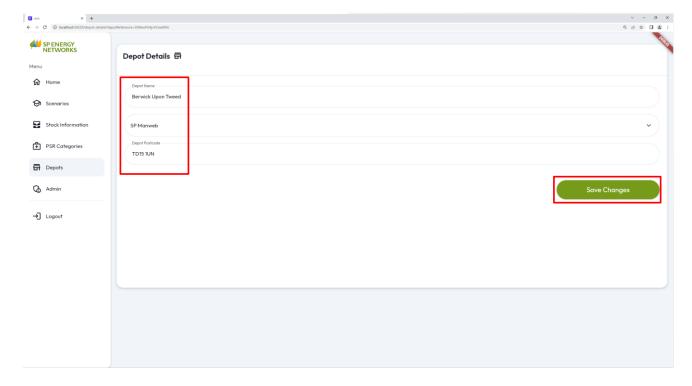
#### 8 Depots



The depot page lists the names, postcodes and owners of the depots. To add a To edit a depot, click on the name or pencil icon. To delete a depot, click on the bin icon.



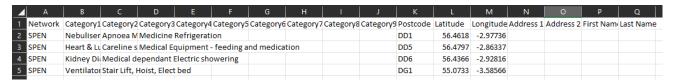
When adding or editing a depot you can **click on the name, owner** and **postcode** to update them. To save the changes, **click 'Save Changes'**.

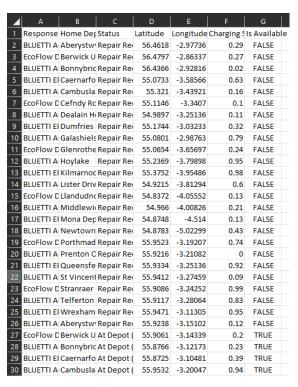


#### 9 Admin



The admin page is where datasets can be imported into the SSVC software so that thy can be used in scenario planning. To upload a PSR dataset or stock information as a .csv format, first **copy the data into the template** (Note: examples are fake data).





To download the templates, **click on the download icons**. To then import the completed template .csv, **click the 'Import' buttons**. A file explorer pop up window will then allow you to select the file. To delete the data from SSVC, **click on the 'Clear' buttons**.



