

# LHEES Portal User Guide

How SP Energy Networks can support  
local authorities with their Local Heat  
and Energy Efficiency Strategies

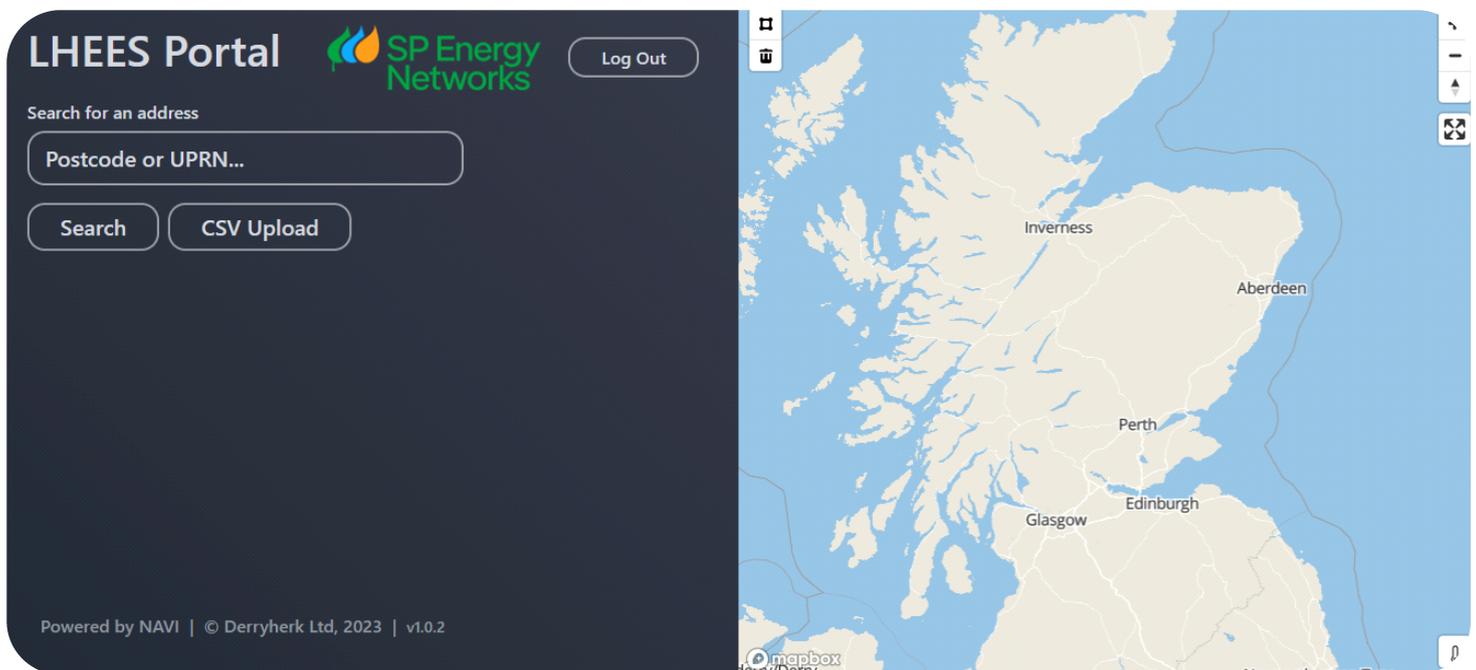


# What is the LHEES Portal?

Powered by NAVI, the SP Energy Networks LHEES Portal has been developed as a useful tool to aid local authorities in the development of their LHEES plans.

Local authorities will be able to simulate the effects of implementing their heat & energy strategies and low carbon technologies upgrades on the SP network, giving a view of current cable and substation capacity, network constraints, required reinforcement works and consequent costs.

The tool assists local authorities in developing their LHEES plans. It also informs SP Energy Networks' decision-making on potential requirements in network reinforcement works and ultimately promotes a shared knowledge and strategy for future network implementation.



## How to access the LHEES Portal

Local authorities will be provided login details for the LHEES Portal following an initial meeting with one of the SP Energy Networks Strategic Optimisers. Upon receiving login credentials, the user can access the tool via the [SP Energy Networks Open Data Portal](#).

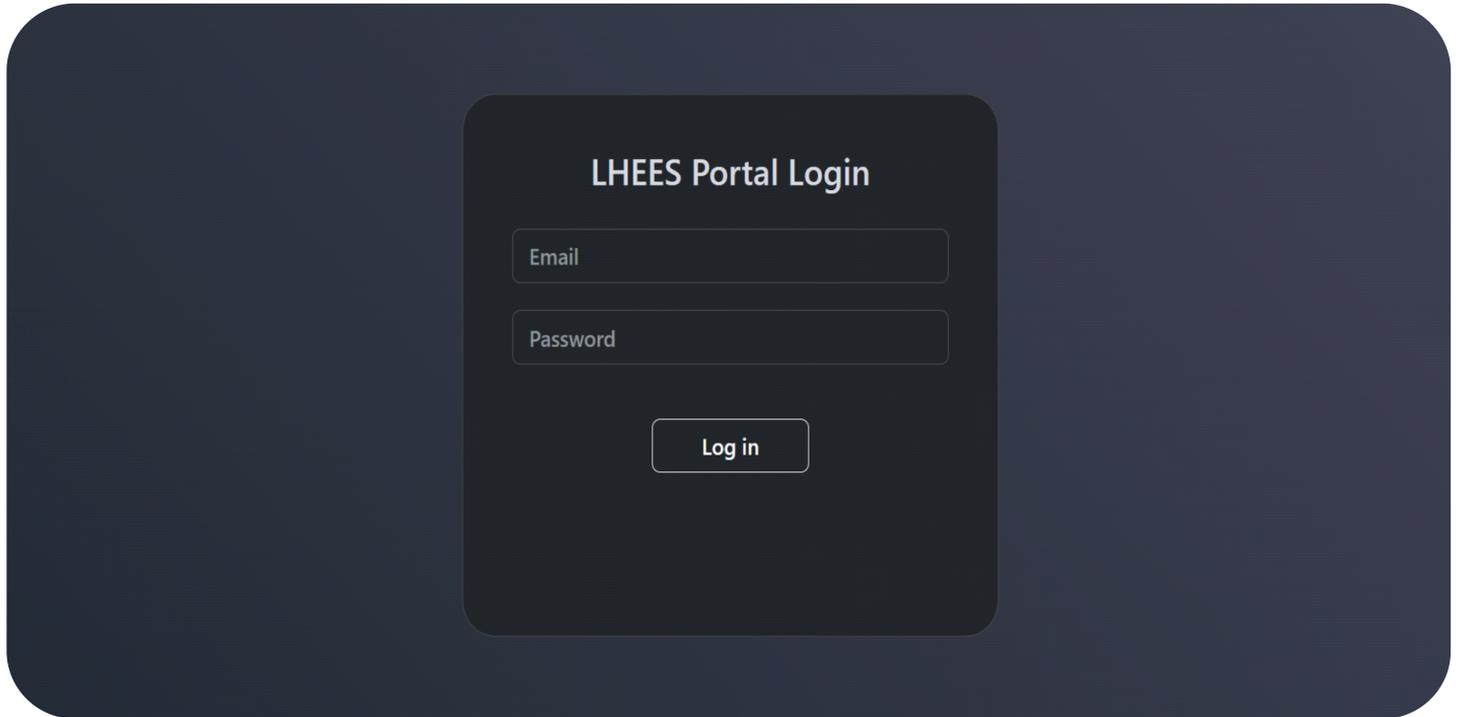
More information on the LHEES support SP Energy Networks can provide can be found [here](#).



# Navigating the LHEES Portal

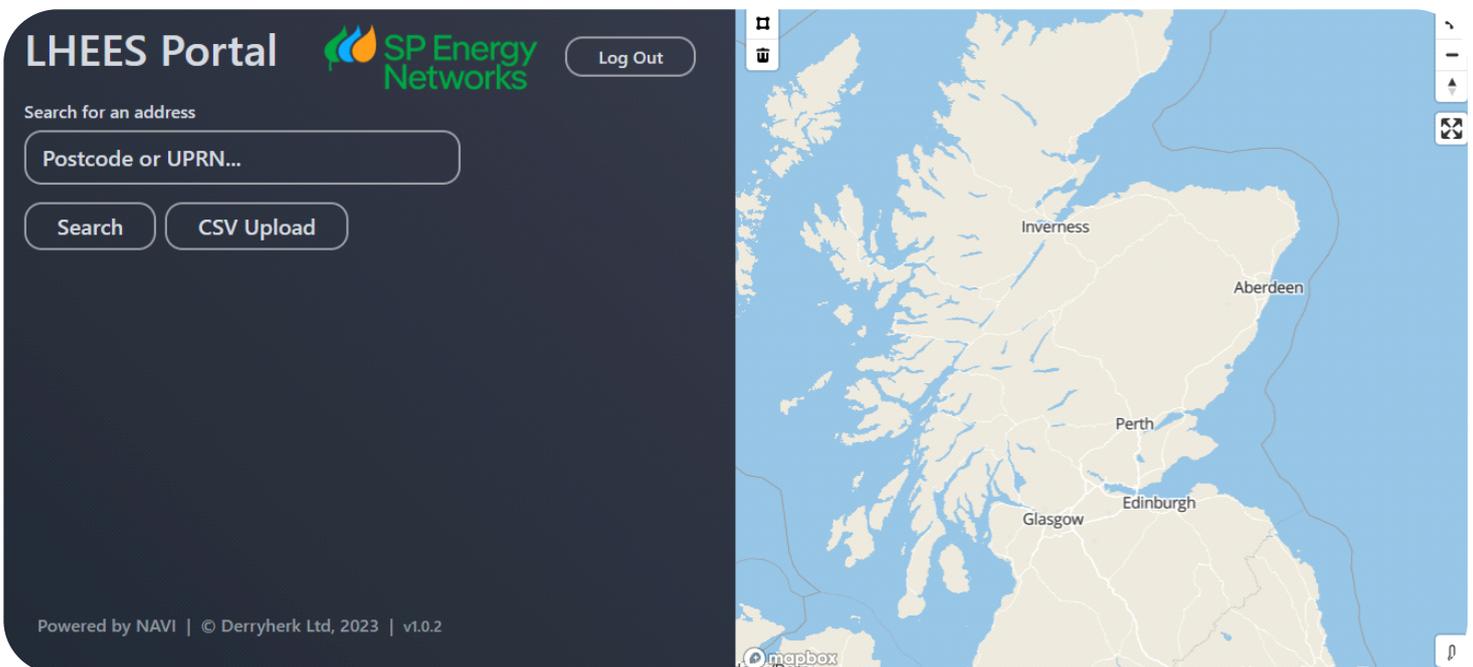
## Step 1 – Log in

Enter your login details provided by your Strategic Optimiser via email and click **'Log in'**.



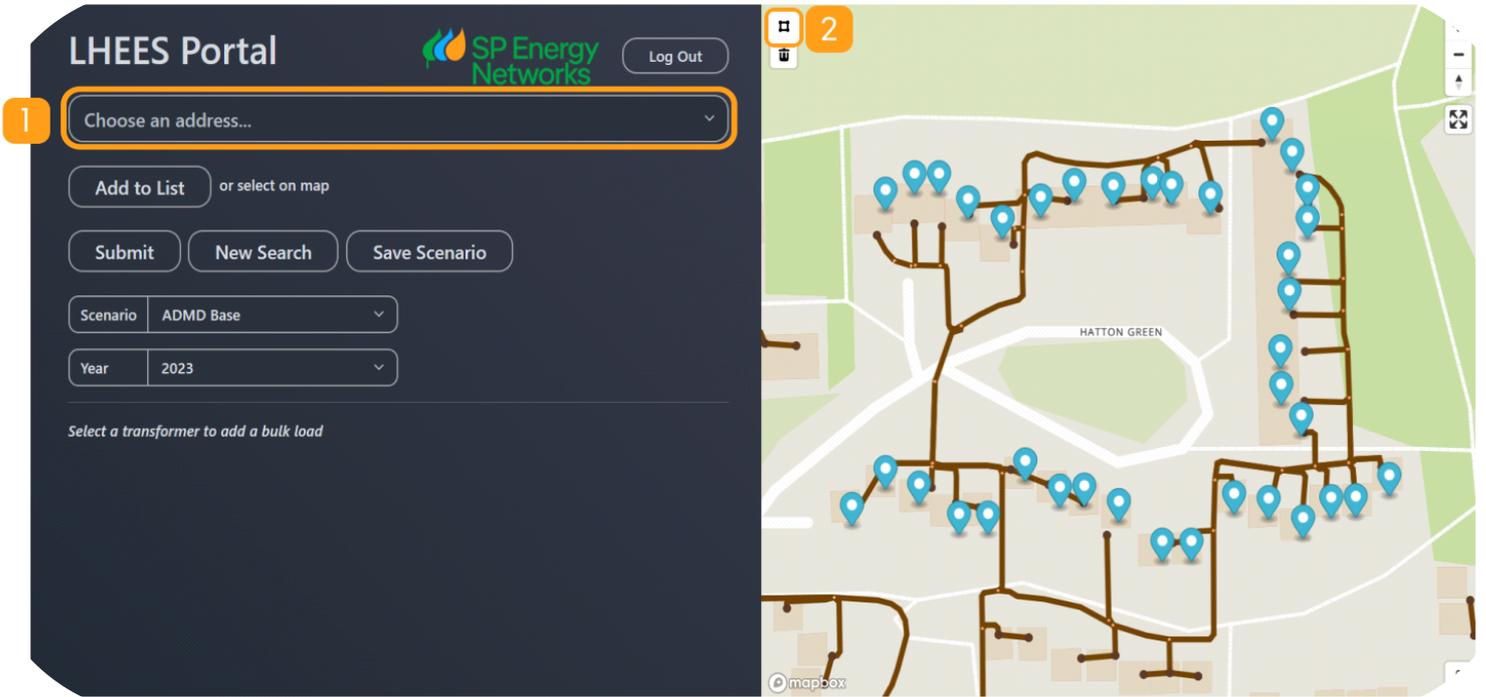
## Step 2 – Locate analysis area

Enter the postcode or UPRN for the for the location you intend to analyse and click **'Search'**.

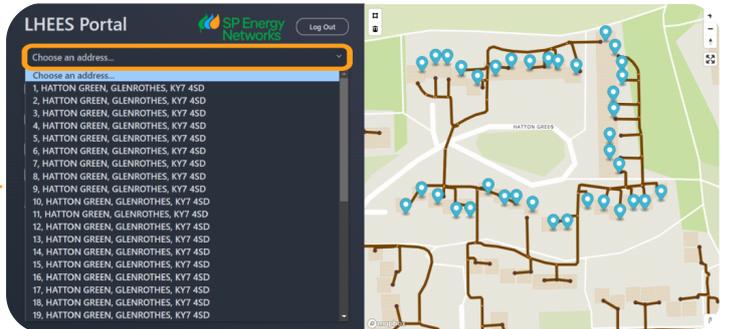


## Step 3 – Choose addresses for analysis

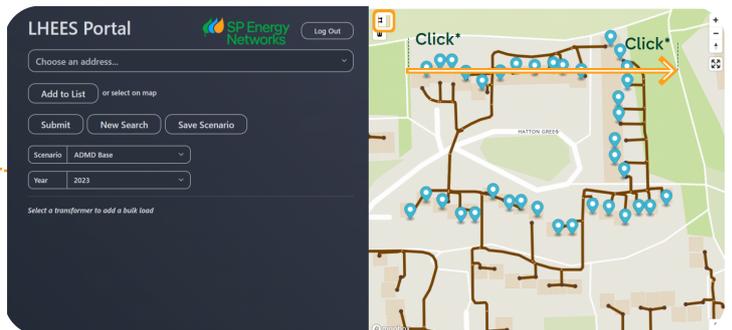
The next step is to select the premises you wish to add to your scenario. **This can be done in two ways:**



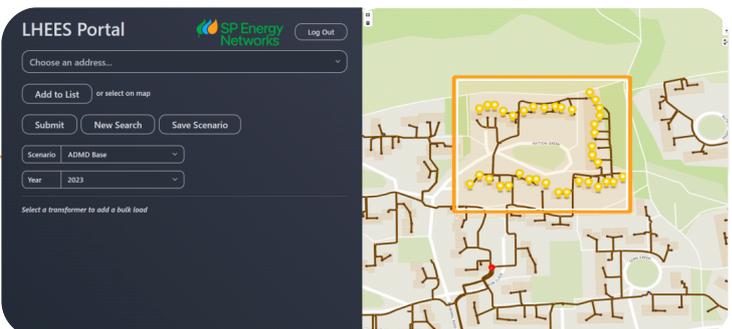
**1** Individual buildings can be selected one by one by clicking on the drop down menu **'Choose an address'**.



**2** Or, a box can be drawn around all the buildings required, adding them all to the scenario at once. To do this, first click on the **'Polygon tool (p)'**. Then, **click\*** on the map to start the box. Move the mouse along to the desired length and click to create the first side of the box.



Repeat for the other three sides of the box. Finish by clicking **'Enter'** on your keyboard or by double clicking.



## Step 4 – Enter the low carbon technologies upgrades

After selecting the required premises, scroll down to find the list of every building added. The next step is to add the desired low carbon technology 'Type', 'Rating kW' and 'Install Year' using the drop down boxes.

Address	UPRN	Type	Rating (kW)	Install Year
Select for All		--	--	--
X 1, HATTON GREEN, GLENROTHES, KY7 4SD	320023465	EV HP		--
X 2, HATTON GREEN, GLENROTHES, KY7 4SD	320023466	--		--
X 3, HATTON GREEN, GLENROTHES, KY7 4SD	320023467	--		--
X 4, HATTON GREEN, GLENROTHES, KY7 4SD	320023468	--		--
X 5, HATTON GREEN, GLENROTHES, KY7 4SD	320023469	--		--
X 6, HATTON GREEN, GLENROTHES, KY7 4SD	320023470	--		--
X 7, HATTON GREEN, GLENROTHES, KY7 4SD	320023471	--		--
X 8, HATTON GREEN, GLENROTHES, KY7 4SD	320023472	--		--
X 9, HATTON GREEN, GLENROTHES, KY7 4SD	320023427	--		--
X 10, HATTON GREEN, GLENROTHES, KY7 4SD	320023428	--		--
X 11, HATTON GREEN, GLENROTHES, KY7 4SD	320023429	--		--

This can be done on an individual basis or the 'Select for All' function can be used to autofill all entries.

Address	UPRN	Type	Rating (kW)	Install Year
Select for All		HP	10	2026
X 1, HATTON GREEN, GLENROTHES, KY7 4SD	320023465	HP	10	2026
X 2, HATTON GREEN, GLENROTHES, KY7 4SD	320023466	HP	10	2026
X 3, HATTON GREEN, GLENROTHES, KY7 4SD	320023467	HP	10	2026
X 4, HATTON GREEN, GLENROTHES, KY7 4SD	320023468	HP	10	2026
X 5, HATTON GREEN, GLENROTHES, KY7 4SD	320023469	HP	10	2026
X 6, HATTON GREEN, GLENROTHES, KY7 4SD	320023470	HP	10	2026
X 7, HATTON GREEN, GLENROTHES, KY7 4SD	320023471	HP	10	2026
X 8, HATTON GREEN, GLENROTHES, KY7 4SD	320023472	HP	10	2026
X 9, HATTON GREEN, GLENROTHES, KY7 4SD	320023427	HP	10	2026
X 10, HATTON GREEN, GLENROTHES, KY7 4SD	320023428	HP	10	2026
X 11, HATTON GREEN, GLENROTHES, KY7 4SD	320023429	HP	10	2026

## Step 5 – Submit and simulate impact

Once satisfied with the scenario, the next step is to submit and analyse the network impact of the proposal. Click **'Submit'** to do so.

**LHEES Portal** [Log Out](#)

Choose an address...

[Add to List](#) or select on map

**Submit** [New Search](#) [Save Scenario](#)

Scenario:

Year:

Address	UPRN	Type	Rating (kW)	Install Year
<i>Select for All</i>				
X 1, HATTON GREEN, GLENROTHES, KY7 4SD	320023465	HP	10	2026
X 2, HATTON GREEN, GLENROTHES, KY7 4SD	320023466	HP	10	2026
X 3, HATTON GREEN, GLENROTHES, KY7 4SD	320023467	HP	10	2026
X 4, HATTON GREEN, GLENROTHES, KY7 4SD	320023468	HP	10	2026

When the results have been simulated, the current network constraints will appear as a visual on the map. To view a more detailed breakdown of the analysis, click **'Show Details ->'**.

**LHEES Portal** [Log Out](#)

Choose an address...

[Add to List](#) or select on map

[Submit](#) [New Search](#) [Save Scenario](#)

Scenario:

Year:

**Show Details ->**

Address	UPRN	Type	Rating (kW)	Install Year
<i>Select for All</i>				
X 1, HATTON GREEN, GLENROTHES, KY7 4SD	320023465	HP	10	2026
X 2, HATTON GREEN, GLENROTHES, KY7 4SD	320023466	HP	10	2026
X 3, HATTON GREEN, GLENROTHES, KY7 4SD	320023467	HP	10	2026

Breakdown of the cost implications, split between customer and SPEN incurred costs, can now be seen. Coupled with detailed network violation information.

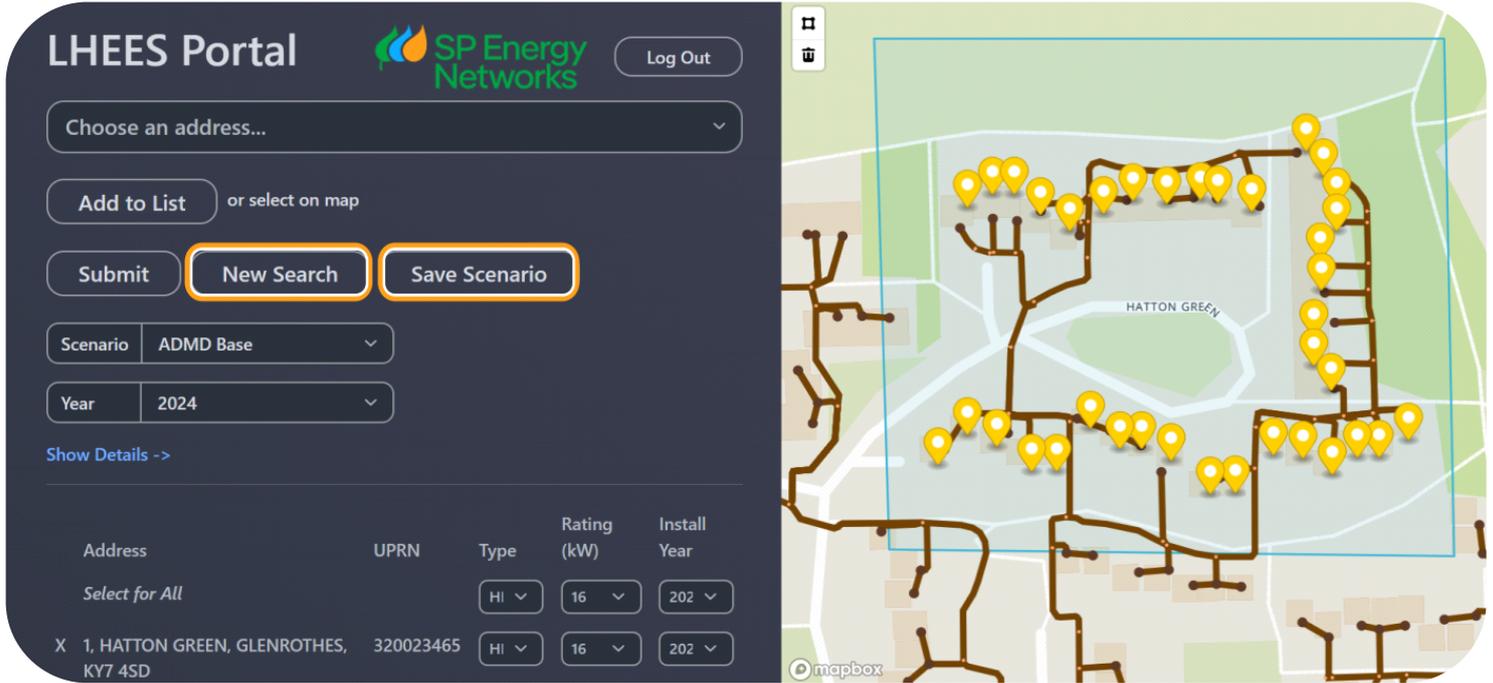
Category	Value
<b>Customer</b>	
Customer Contribution Percentage	90%
SPEN Contribution Percentage	10%
Cable Length	16m
Cable Cost	£2493
Joint Cost	£200
Branch Cost	£320
<b>Apportioned</b>	
Customer Contribution Percentage	20%
SPEN Contribution Percentage	80%
Cable Length	230m
Cable Cost	£4820
Joint Cost	£850
Branch Cost	£0
<b>Reinforcement</b>	
Customer Contribution Percentage	0%
SPEN Contribution Percentage	100%
Cable Length	0m
Cable Cost	£0
Joint Cost	£0
Branch Cost	£0
<b>TOTALS</b>	
Total Costs	£7565
Customer Contribution	£1456
SPEN Contribution	£2200
Customer Contribution Percentage	19.1%
SPEN Contribution Percentage	63.7%

## Step 6 – Save and start new

The scenario can then be saved, by clicking **'Save Scenario'** and will be converted into an Excel file (.csv) and will then appear in the **'Downloads'** section of your browser.

This file can be revisited for further scenario planning by clicking **'CSV Upload'**.

A new scenario can be started by clicking **'New Search'** and repeating the process. Further guidance on the LHEES Tool can be found by contacting one of the SP Energy Networks Strategic Optimisers.



**LHEES Portal**  Log Out

Choose an address... ▼

Add to List or select on map

Submit New Search Save Scenario

Scenario: ADMD Base ▼

Year: 2024 ▼

[Show Details ->](#)

Address	UPRN	Type	Rating (kW)	Install Year
<i>Select for All</i>		<span>HI</span> <span>▼</span>	<span>16</span> <span>▼</span>	<span>202</span> <span>▼</span>
X 1, HATTON GREEN, GLENROTHES, KY7 4SD	320023465	<span>HI</span> <span>▼</span>	<span>16</span> <span>▼</span>	<span>202</span> <span>▼</span>

## Contact us

To contact SP Energy Networks, specifically regarding LHEES, local authorities should use the LHEES mailbox:

[LHEESinfo@spenergynetworks.co.uk](mailto:LHEESinfo@spenergynetworks.co.uk)

