



North West Regional Conference

SP Energy Networks

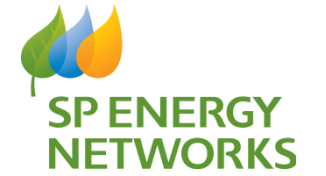
Breakout Session: **How to get connected**

- 1. Community Energy Strategy** - Introductions to the new Community Energy Team and the ongoing work to help guide our Community Groups through their projects.
- Louise Taylor/Liam Cantwell
- 2. The Connections Process** – Explore how the connection process works, who the main points of contact are, what types of quotations there are, an overview of the journey of the process.
- Diane Griffiths
- 3. Strategic Optimisers** – Navigate through the purpose of strategic optimisers and understand what role they have with local authorities/regional areas.
- Becci Kannreuther



Community Energy

Community Energy- Introductions



Liam Cantwell

Community Energy Engagement Manager- SPD

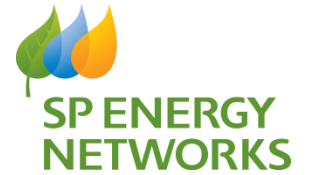


Louise Taylor

Community Energy Engagement Manager- SPM



Our Support Network



Communityenergy
@spenergynetworks.co.uk

Gettingconnected
@scottishpower.com

strategicoptimisation
@spenergynetworks.co.uk

Flexibility
@spenergynetworks.co.uk

Community Energy

Connection Applications & Enquiries

Strategic Optimisation

Flexibility Services

Proactively working with Community Energy groups to raise awareness and support project development.

- Awareness
- Support
- Signposting

Delivering a quality and standardised customer experience for all connections customers.

- Connection Options
- Connection Support
- Connection Solutions

Providing tools and services to Local Authorities, Local and Central Government to help them develop their local and regional energy strategies.

- Decarbonisation plans
- Regional Energy Strategies
- Local Area Energy Plans
 - LHEES*

**Local Heat and Energy Strategy*

Use Flexibility Service Providers to develop distribution markets which support our network.

- procurement and delivery of our flexibility market solutions
- support organisations with both registration and contracting with SPEN.

Community Energy Landscape



Community Energy Groups:

10,284 members of community groups across our licence areas.



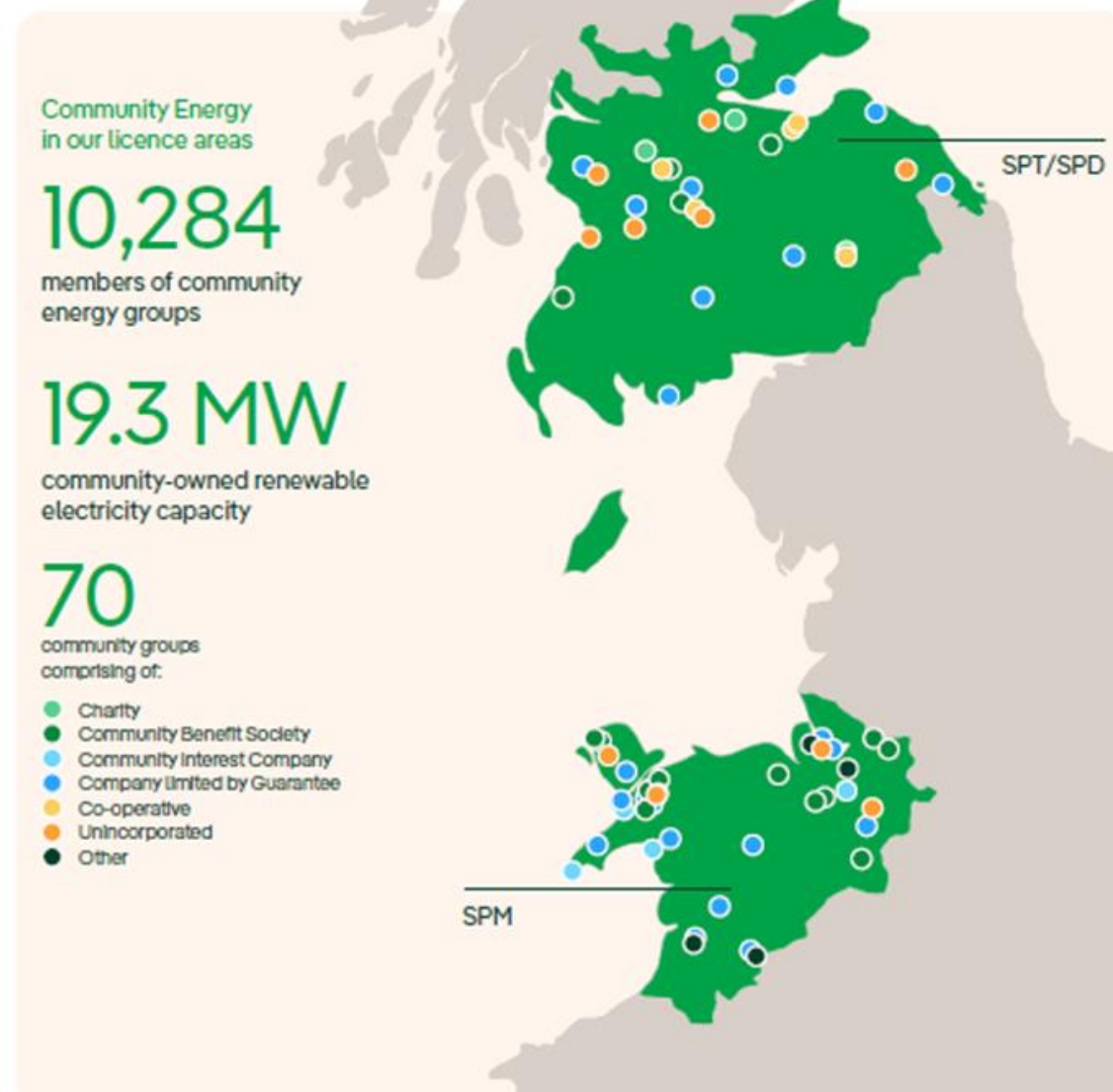
Community Energy Capacity:

19.3MW of potential electricity capacity.



Different Groups – Different Needs:

70 Community Groups involved in Community Energy projects at differing levels

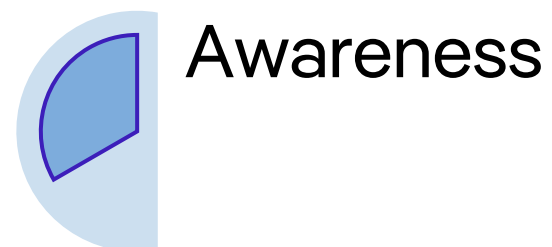


Our Community Energy Strategy

As part of our ED2 Plans, we aim to set out commitments that provide support to stakeholders engaging with community energy, our implementation of these commitments is focused around three areas:



Technical Advice



**Education Outreach
Activities**



**Promoted internally
and externally**

Supporting our Communities

We recognise the critical role Community Energy plays in our collective journey towards a sustainable future.



Raising Community Energy Awareness



Collaboration

Partnering with key organisations to reach Community Energy Groups.

Multi-Channel Engagement

Utilising diverse communication tools to connect effectively.

Targeted Workshops

Delivering educational programs tailored to local needs.

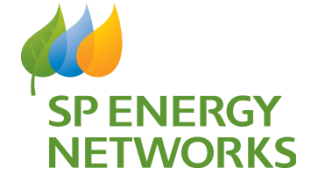
Staying Informed

Keeping stakeholders updated on resources and industry developments.

Active Participation

Building relationships through industry conferences.

Building a Supportive Future: Our Community Energy Strategy Focus



Monitoring progress and adapting our strategy for maximum impact.

Continuous Improvement

Data Driven Approach

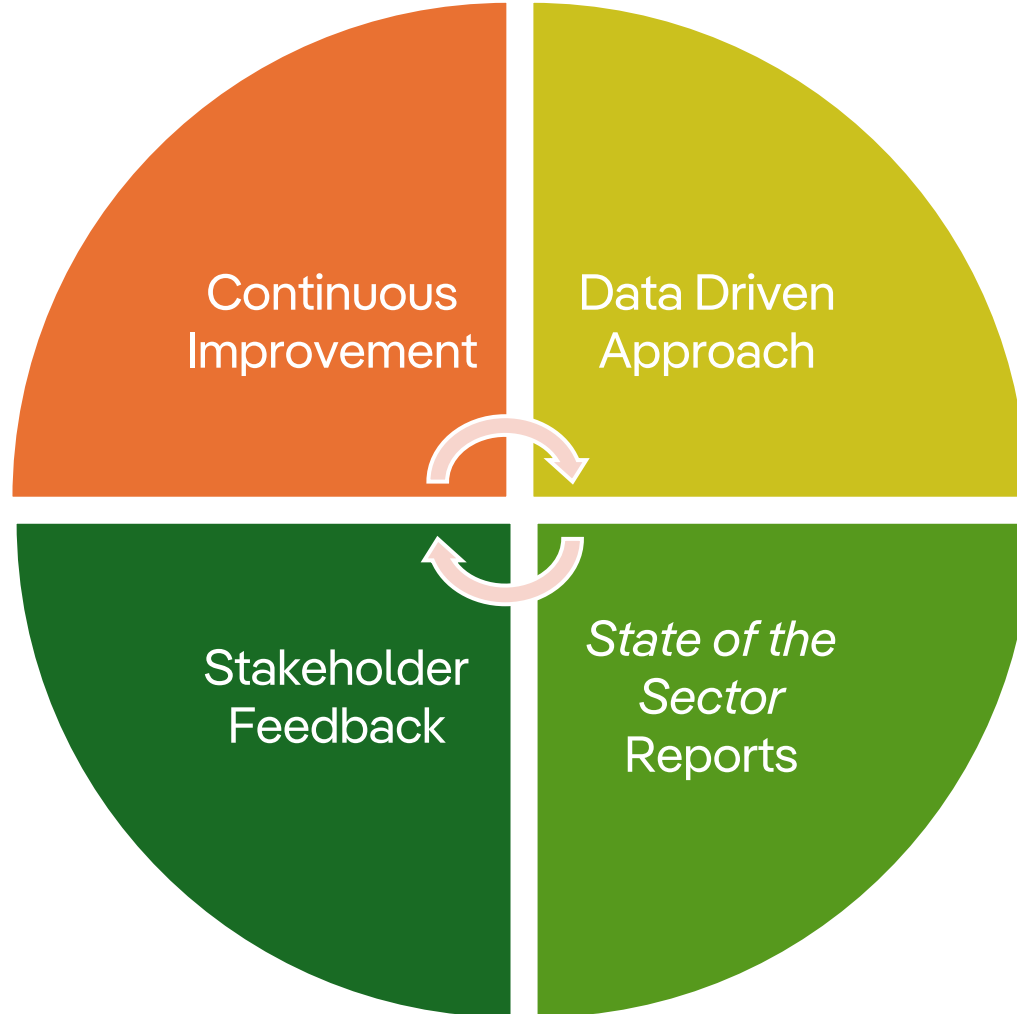
Utilising industry insights and stakeholder feedback to refine our strategy.

Conducting annual surveys to understand evolving needs.

Stakeholder Feedback

State of the Sector Reports

Gaining regional and national perspectives to inform our approach.



Powering a Sustainable Future with Community Energy



SP Energy Networks is committed to supporting Community Energy initiatives across our distribution areas.



Utilisation of Community Energy:

We emphasise the crucial role Community Energy plays in achieving net zero targets, lightening the load on traditional networks.



Proactive Strategy:

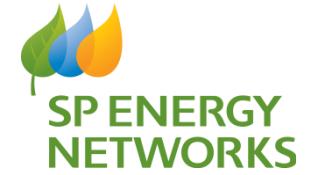
A multi-faceted strategy that supports communities based on their needs.



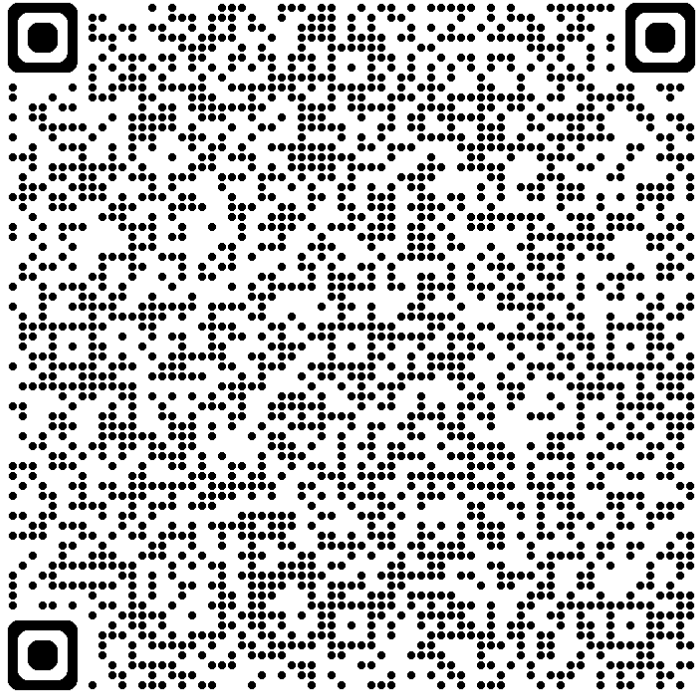
Shared Journey:

We highlight the collective efforts made towards creating a sustainable energy future.

Key Contact Information:



Register as a stakeholder:
www.spenergynetworks.co.uk



Community Energy	communityenergy@spenergynetworks.co.uk
Connection Application & Enquiries	gettingconnected@scottishpower.com
Strategic Optimisation	strategicoptimisation@spenergynetworks.co.uk
Flexibility Services	flexibility@spenergynetworks.co.uk

Connections



Budget Estimate

- I. Free of charge and with 20-day lead time.
- II. POC will be assumed as being nearest to the site entrance.
- III. The quote will be generated without a network study.
- IV. Suitable if your project is not fully scoped, or shovel ready.
- V. Costs may vary significantly from a Formal Quotation.
- VI. Capacity can't be reserved at this stage.



Feasibility Study

- I. In depth study will consider requested loads & identify connection locations & voltages.
- II. Will look at likely capacity needs to understand tipping point for connection voltage.
- III. Most suitable for advanced scoping of location & multiple load options.
- IV. Charges applicable, vary according to load requirements (£500 - £7,000+).



Formal Quotation

- I. A least cost 'offer' as obligated by Ofgem and is valid for 3 months.
- II. Can be extended for further 90 days subject to certain criteria.
- III. Must be a single load application, with complete & relevant documentation/info.
- IV. Most quotations will take 15 – 35 working days depending on voltage.
- V. Costs apply (COE) over >250kVA, irrespective of quote acceptance.

Minimum Information Required for Application



Site location plan & full address



How much load or generation required



Letter of authority



If it's a generation project – ENA & SLD form

Online
Application

http://www.spenergynetworks.co.uk/pages/which_type_of_connection.aspx

Postal
Application

SP Energy Networks
Network Connections
320 St Vincent St
Glasgow
G2 5AD

Telephone
Application

0800 389 1783

Strategic Optimisers

Our Strategic Optimisation team

Our Strategic Optimisation team supports Local Authorities and Regional Government bodies develop their energy plans and decarbonisation programmes

We can help Local Authorities by:

- Providing guidance, support, and optioneering to develop co-ordinated energy plans.
- Supporting the development of strategies, scenarios, and decarbonisation programmes.
- Analysing network project viability by determining future decarbonisation scenarios.
- Identifying commercial and strategic partnerships.
- Recognising whole system opportunities and feeding into appropriate plans and registers.
- Undertaking financial modelling and cost benefit analysis for decarbonisation initiatives.



Contact us: StrategicOptimisation@spenergynetworks.co.uk

Facilitating
Net Zero

GB

SPEN



Electric Vehicles
~39m ~5m

Heat Pumps
~25m ~3m

Generation
~4x ~5x

Our Strategic Optimisation team

Our Strategic Optimisers work with 40 Local Authorities and 11 Regional Government bodies



Scotland (22 Local Authorities)

Local Heat and Energy Efficiency Strategies (LHEES)

- Developed during 2023 and published in 2024.
- Detailed Delivery Plans developed by March 2025.
- 6 Regional Energy Plans aligned with Growth Deals.
- Our LHEES tool supported Local Authorities complete the required analysis for their plans.



Wales (8 Local Authorities)

Local Area Energy Planning (LAEP)

- Developed during 2023 and being published in April/May 2024.
- LAEP outputs input will be into North & Mid Wales Regional Energy Plans.
- National Energy Plan for Wales later in 2024.
- Aligns with the Welsh Government Energy Networks in Wales Group and The Future Energy Grids for Wales Report, published July 2023.



England (10 Local Authorities)

Local Area Energy Planning (LAEP)

North West Net Zero Hub:

- Consolidating LAEPs for 9 Local Authorities in Liverpool City Region Combined Authority and Enterprise Cheshire & Warrington.

Marches Forward Partnership:

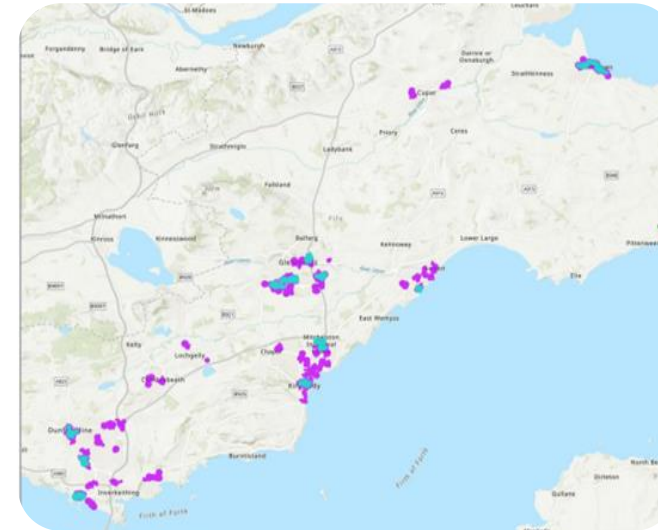
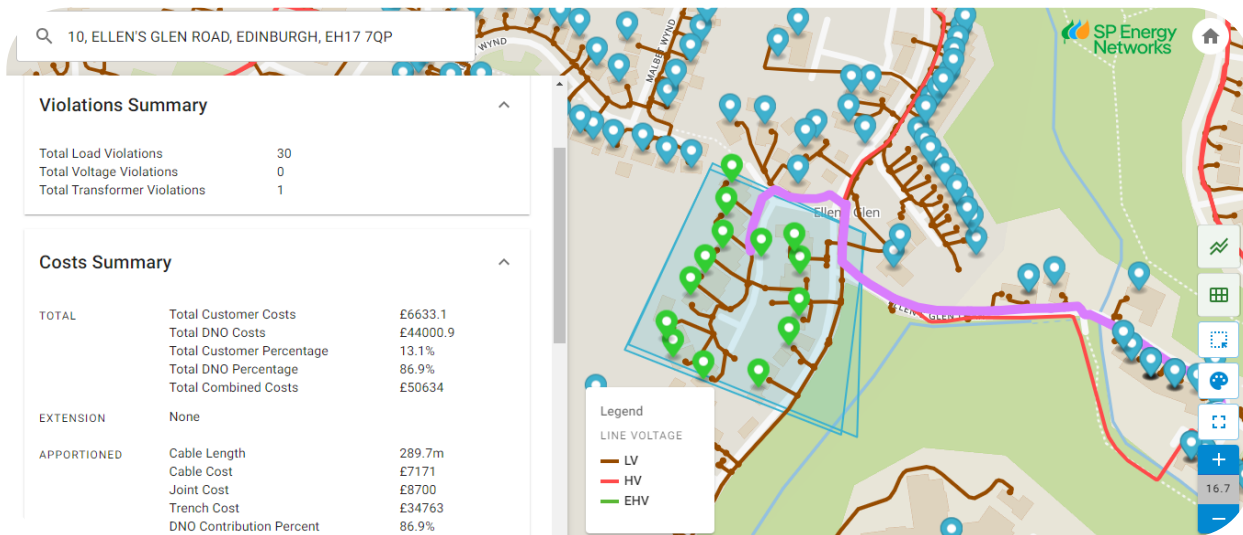
- LAEPs for Shropshire Council and Powys County Council.
- Cross Boundary Regional Energy Plan.

Facilitating Net Zero

GB	SPEN
	
Electric Vehicles ~39m	~5m
Heat Pumps ~25m	~3m
Generation ~4x	~5x

Low carbon technology optioneering

Supporting Local Authorities and Regional Government to understand LCT opportunities



EV Charge Point optioneering

Feasibility studies for the rollout of public EV chargers – **1,400 locations** completed so far.

Heat Pump optioneering

Analysis and cost / timescale estimates for heat pump rollout in off gas grid areas and social housing – **800 locations** completed so far.

Renewable Generation optioneering

Support and analysis for local energy projects and opportunities – **120 locations** completed so far.



Supporting LAs – LANIT tool

We initially developed our LANIT tool to support our Scottish Local Authorities develop their LHEES plans

Enables Local Authorities to simulate the impacts of different heat & energy strategies on our network.

This tool

- Supports Local Authorities in developing their LHEES / LAEP / REP
- Provides a view of current cable and substation capacity, constraints and required reinforcement work
- Informs our decision making on potential future network requirements.
- Promotes a shared knowledge around future network requirements.

For a demo, you can contact strategicoptimisation@spenergynetworks.co.uk.

The screenshot shows the LANIT tool interface. On the left, there's a control panel with fields for 'Choose an address...', 'Add to List', 'Submit', 'New Search', 'Save Scenario', 'Scenario: ADMO Base', and 'Year: 2023'. The main area displays a map of a residential area with a network overlay. A data table is visible on the left side of the map, showing a 'Violations Summary' and 'Costs Summary'.

Violations Summary	
Total Load Violations	20
Total Voltage Violations	0
Total Transformer Violations	1

Costs Summary		
METRICS	Total Load Added Kwh	99
	High Cost Cap Per Kwh	£1720
	Calculated Cost Per Kwh	£586
FINAL COSTS	Total Customer Costs	£3
	Total ONO Costs	£57989
	Total Committed Costs	£57992

Legend:

- LINE VOLTAGE
- CP
- HP
- EHV
- Unsimulated Result
- Main Upgrade
- Service Upgrade
- Service Not Logged
- Cannot Replace
- Voltage Violation

The new version of the tool will be shared with Local Authorities in summer 2024

We are now developing improvements to the tool for our England and Wales Local Authorities.

Facilitating Net Zero

GB SPEN

Electric Vehicles ~39m ~5m

Heat Pumps ~25m ~3m

Generation ~4x ~5x