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Community Energy: State of the Sector 2024

Introduction

This 2024 State of the Sector research has provided insight into the UK community energy sector's current state, the challenges and opportunities it faces, what community energy is, what the sector does and the impacts and benefits it delivers. Alongside this report, we have also published a progress, activity and strategic, and delivery areas of supporting the sector to develop and grow.

State of the Sector is a collaboration between Community Energy England, Community Energy Scotland and Community Energy Wales, and is sponsored by SP Energy Networks. It is based on community energy organisations who provided data for the 2024 research.

Contents

- What is community energy?
- What does community energy do?
- What are the impacts and benefits of community energy?
- What is holding community energy back?
- What is the trajectory and potential of community energy?
- How can you help community energy to grow?

What is community energy?

A ENERGY INDEPENDENCE
Generating independence from energy companies, reducing reliance on imports from outside the UK by producing and managing energy within local communities.

B DEMOCRATIC DECISION MAKING
Community energy organisations take concrete action to implement decisions based on democratic decisions, participatory governance and co-operative principles.

C PRIORITISING COMMUNITY BENEFIT OVER PROFIT
Community energy organisations are motivated by more than profit. They use surplus income, rather than profits to commercialise and ensure local people benefit from the energy transition.

D COMMUNITY ORIGIN
Community energy organisations use asset locks and democratic or co-operative governance structures to ensure communities have control and benefit from energy infrastructure and services in their local area.

E COMMUNITY RESILIENCE
Increasing community asset ownership, offering greater control over new services, and engaging more people in the energy system increases community resilience and supports power distribution of cultural identity, heritage, e.g. Welsh language.

F FOR ORDINARY PEOPLE
Local people working locally or even and decentralised energy systems, using local expertise and creating a people-centred energy system.

128 community benefit fund

13 community energy organisations have community ownership of assets

68% organisations with governance structures that include democratic principles

£4.6 million

795 volunteers full time equivalent

3,719 volunteers

What does community energy do?

A RENEWABLE ELECTRICITY GENERATION
Including wind, solar, hydropower, ground source and rooftop solar PV, wind, hydro, and anaerobic digestion generation across the UK.

B ENERGY ADVICE SERVICES
Providing advice, information and guidance about the energy transition, decarbonisation, heating people and supporting communities through the cost of living crisis and directly combatting fuel poverty.

C LOW CARBON HEAT
Including ground source heat networks and stand alone renewable heat systems such as air source and ground source heat pumps, and heat networks, heat as a service models.

D COMMUNITY-LED ENERGY EFFICIENCY AND RETROFIT SERVICES
Delivery of retrofit services such as home improvements, installing energy efficiency measures, education and providing direct funding for energy efficiency actions.

E SMART LOCAL ENERGY SYSTEMS
Providing "flexibility" services to the grid, including demand response, managing demand when required, and working on smart grid technology and engagement to improve the efficiency of the energy system and put people's needs at the centre.

F COLLABORATIVE WORKING
Working with other organisations and sectors to produce and a range of local and national project and service partners, including local authorities, housing associations, commercial energy companies.

G RETAINING PROFIT
Retaining profit locally and employing local people and supporting local businesses into the local economy.

H LOW-CARBON TRANSPORT AND ACTIVE TRAVEL
Responding to community needs by providing community services, including cycle hire, facilitating a bike and other forms of active travel, providing car sharing, EV education and infrastructure improvements.

123 organisations

319 organisations

251 MW

133 MW

13 MW

0.25 MW

4.8 MW

8 organisations

402 partnerships

81 organisations matching or other contribution

111

387

124

298

£12.9 million

What are the impacts and benefits of community energy?

A COMMUNITY ENGAGEMENT INVOLVING SYSTEMS
The transition from the energy system, people's feeling of ownership and a tangible stake in the energy system and the path to net zero.

B BUILDING COMMUNITY TRUST
Trusted intermediaries become community anchor organisations that increase community engagement and helping to concrete behaviour change.

C LOCAL ECONOMIC IMPACT
Motivated by "more than profit", creating local jobs and contributing to the local economy, including supporting the local community to focus on their own priorities and needs.

D EMPOWERING RETROFIT INITIATIVES
Enabling and empowering local people, businesses and communities to take control of their own retrofit measures and reduce energy demand.

E POVERTY REDUCTION
Reducing fuel poverty through energy efficiency measures and distributing benefits to those in fuel poverty, vulnerable households, or people the energy system.

F ATTRACTING INVESTMENT
Bringing investment from communities and other investors into the local area, for the benefit of the local area, and making a significant contribution to national targets.

2023 £4 new jobs created

35 organisations

2023 109 new jobs created

£11.7 million

£1.5 million

65,065

7,180

£4.4 million

SHARES RAISED

£8.4 million

75%

80%

What is holding community energy back?

A KEY FACTORS IN STALLED PROJECTS
Barriers to finance are most difficult for community energy organisations to overcome, and deliver projects and services to respond to local needs and contribute to national targets.

KEY FACTORS:
- Lack of government and feasibility funding
- Lack of commercial skills
- Lack of grid connection costs
- Lack of access to suitable sites
- Planning permission delays

B ENERGY ADVICE OBSTACLES
Lack of government support for advice, information and guidance to community energy organisations' local impact but a range of factors are holding them back from creating or expanding these services.

C FUNDING INSECURITY ISSUES
Lack of government support for community energy organisations to obtain sustainable funding and development funding to enable them to grow and deliver new services, and to generate revenue can also hold back community energy organisations from scaling up the range of impacts and services.

D KEY BARRIERS TO THE GROWTH OF ORGANISATIONS
Community energy organisations are motivated by more than profit but face a range of challenges growing in size and activity, and supporting local people to generate a remote strategy.

E COMMUNITY ENERGY SUPPLY RESTRICTIONS
Rigidities and barriers to generation sites directly to local communities (community energy supply) is a fundamental enabler of a democratic energy system, but government regulations regarding energy trading lack flexibility and do not allow local energy supply and the ways it could alleviate distribution network constraints and facilitate balancing.

STALLED PROJECTS

79 organisations

270 MW

35 organisations

16 organisations

£1

£1 billion

What is the trajectory and potential of community energy?

A SECTOR ACTIVITY AND ENGAGEMENT CONTINUES TO GROW
The sector continues to grow in activity, and the number of people across the country and the number of people and communities involved in the pathways to net zero.

B STRONG PIPELINE OF ELECTRICITY GENERATION PROJECTS
Operational energy organisations are actively developing a strong pipeline of electricity generation projects across the country, including a wide range of technologies suitable to local circumstances.

C LABOUR LITS WIND BAN
The effective ban on onshore wind in England has been removed by the Labour Government, opening the door for a generation of community owned onshore wind projects, which will be a significant boost to the force of renewable energy.

D ORGANISATIONS BROADENING PARTNERSHIPS
Community energy organisations are increasing their scale, impact and contribution to local economies by actively working with and supporting a wide range of organisations.

E COMMUNITY ENERGY DIVERSIFICATION
Increasing number of community energy organisations are getting involved in a wider range of activities and services.

17 organisations

PLANNED SITE/PROJECT PIPELINE FOR ONSHORE PROJECTS

SOLAR
3 MW

WIND
3.4 MW

HYDROPOWER
5.7 MW

ANAEROBIC DIGESTION
12 MW

ROOFTOP SOLAR
13 MW

GROUND SOLAR PV
78 MW

OTHER
92 MW

COMMUNITY ENERGY PARTNERSHIPS

29% 5.5%

36% 47%

13% 29%

23% 50%

16% 19%

COMMUNITY ENERGY ORGANISATIONS BROADENING PARTNERSHIPS

21%

24%

23

14

15

How can you help community energy to grow?

A SHARED OWNERSHIP OPPORTUNITIES
Includes such arrangements and benefitting from commercial opportunities, for example, by offering a local community fund, or community benefit opportunity to decrease part/some of a new connection.

B LONG-TERM INVESTMENT IN COMMUNITY SHARES
Help enable the activities and services of community energy organisations, e.g. community shares or bond offers. As well as usually earning interest you can participate in the governance of the organisation.

C SHORT-TERM LOAN FINANCING
Provision of loan finance and feasibility funding to enable community energy organisations to develop and deliver new projects.

D COMMUNITY INVOLVEMENT IN ENERGY PLANNING
Provide your community energy organisations in the development of Local Energy Plans (in Wales, England or Local Heat and Energy Efficiency Strategy on Scotland).

E POWER PURCHASE AGREEMENTS
Buy electricity from your local community energy organisations via a power purchase agreement (PPA).

F RENEWABLE ENERGY GENERATION SITES
Offer sites for leasable energy generation to your local community energy organisations.

G VOLUNTEERING OPPORTUNITIES
Volunteer with your local community energy organisation.

COMMUNITY ENERGY ORGANISATIONS INTERESTED IN SHARED OWNERSHIP

29%

COMMUNITY ENERGY INVESTMENT PIPELINE

£157.2 million

£59 million

£71.2 million

£9 million

£1.2 million

£6.8 million

75% of community energy organisations are electricity net zero by 2030