OVERVIEW
Community Energy

STATE OF THE SECTOR 2018

- **84,000** Community Members Engaged
- **1,000** Energy Efficiency Upgrades Installed
- **76** Energy Efficiency Projects
- **228** Community Energy Organisations
- **168 MW** Electricity Capacity
- **202 GWh** Energy Generated in 2017
- **71,000 tCO₂e** Emission Reduced in 2017
- **76** Energy Efficiency Projects
- **1.9 MW** Heat Capacity
- **650 tCO₂e** Emission Reduced in 2017
- **3.2 GWh** Energy Generated in 2017
- **20** Community-owned EV Charging Points
- **5** Community-owned EVs
- **5** Low Carbon Transport Projects
- **Annual Demand of 67,000 Homes**
ORGANISATIONS
Community Energy

STATE OF THE SECTOR 2018

Organisation Structure

228 Organisations

Founded in

Pre-2008: 31
2008: 6
2010: 17
2012: 23
2014: 33
2016: 13

Date founded unknown for 10 responding organisations

Charity
Co-operative
Community Benefit Society (BenCom)
Community Interest Company (CIC)
Unregistered / Unincorporated
Other
Organisation Numbers

Organisations
228

Members
48,000

Full Time Staff
166

Volunteers
1,800
COMMUNITY ENERGY ACTIVITIES
Community Energy
STATE OF THE SECTOR 2018

Electricity Generation

168 MW
Total Operational Capacity

Generating
202 GWh in 2017

33.5 MW
New Capacity in 2017

Capable of powering
67,000 UK Homes

Reducing
71,000 Tonnes CO₂e

Generating Capable of powering Reducing
Solar PV Wind Hydro

STATE OF THE SECTOR 2018
Community Energy

STATE OF THE SECTOR 2018

Electricity Generation 2008 - Present

Cumulative Generation Capacity (MW)

- Solar PV
- Wind
- Hydro

15 new projects installed in 2017

Year
Community Energy

STATE OF THE SECTOR 2018

Heat Generation

1.9 MW
Total Operational Capacity

265 kW
New Capacity in 2017

3.2 GWh in 2017
Generating

Including
2 District Heat Networks

Reducing
650 Tonnes of CO$_2$e

- Biomass
- Ground Source Heat Pump
- Air Source Heat Pump
Percentage of total respondents (76) who selected the above in a multiple choice survey question.
FUNDING & INVESTMENT
Community Energy

STATE OF THE SECTOR 2018

Project Funding

£299,000
Early Stage Funding in 2017

£40,000
Rural Community Energy Fund (RCEF)

£81,000
Ynni Lleol (Wales)

£178,000
Other Funders

£299,000
Early Stage Funding in 2017

£40,000
Rural Community Energy Fund (RCEF)

£81,000
Ynni Lleol (Wales)

£178,000
Other Funders

Government Funding
Other Development Funding
Community Energy
STATE OF THE SECTOR 2018

Project Finance

£14.3M
Investment in 2017

£6,885,000
Loans

£3,467,000
Bonds / Debentures

£2,926,000
Community Shares

£977,000
Other (incl. Self Funding & Grants)
COMMUNITY BENEFITS
Community Benefit Funding worth £1.1 Million in 2017

Used for:
- Education Initiatives
- Improving the local environment
- Donations
- Community Assets
- Reduced Electricity Price
- Support Local Services
- Reducing Carbon Emissions
- Job Creation
- Reducing Fuel Poverty

Community Energy
STATE OF THE SECTOR 2018
Community Outcomes
POLICY, BARRIERS & OUTLOOK
Community Energy

STATE OF THE SECTOR 2018

Stalled Projects

66
Stalled Community Energy Projects

Due to

Change in Feed-in Tariff

Access to Capital Finance

Engineering Issues

Lack of Volunteers

Planning Complexity

National Opposition

Local Opposition

Access to Expertise

Pre-feasibility
Feasibility
Grid Connection
Planning
Legal
Financing
Pre-construction
Operation
In future, community energy organisations would like to see...

<table>
<thead>
<tr>
<th>Support Feature</th>
<th>Expected Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed-in Tariff Review</td>
<td>37 %</td>
</tr>
<tr>
<td>Clearer Government Strategy</td>
<td>25 %</td>
</tr>
<tr>
<td>Increased Grant Funding</td>
<td>21 %</td>
</tr>
<tr>
<td>Investment Support</td>
<td>19 %</td>
</tr>
<tr>
<td>Expertise Support</td>
<td>17 %</td>
</tr>
<tr>
<td>Support for Local Supply</td>
<td>15 %</td>
</tr>
<tr>
<td>Local Authority Support</td>
<td>13 %</td>
</tr>
<tr>
<td>Improved Loan Rates</td>
<td>8 %</td>
</tr>
<tr>
<td>Reduced Planning Complexity</td>
<td>8 %</td>
</tr>
<tr>
<td>Lower Grid Costs</td>
<td>7 %</td>
</tr>
<tr>
<td>Renewable Heat Incentive Review</td>
<td>4 %</td>
</tr>
<tr>
<td>Innovation Support</td>
<td>3 %</td>
</tr>
<tr>
<td>Publicity Support</td>
<td>3 %</td>
</tr>
<tr>
<td>Reinstall Tariff Pre-registration</td>
<td>2 %</td>
</tr>
<tr>
<td>Support for Storage Technologies</td>
<td>2 %</td>
</tr>
</tbody>
</table>
GEOGRAPHY OF COMMUNITY ENERGY
Community Energy

STATE OF THE SECTOR 2018

- 14 communities with over 1 MW rooftop solar PV
- 14 communities with over 1 MW of wind energy across 6 sites
- 1.5 MW of wind energy
- 50 MW of community owned generation capacity
- 4.7 MW of wind capacity installed in 2017
- 11.4 MW of wind energy
- 14.7 MW community solar farm installed in 2017
- 800 kW Small scale wind, hydro and solar PV
- Few Projects
- Many Projects

Over 10 organisations actively involved in energy efficiency
Geography of Community Energy Organisations

Number of Community Energy Organisations

Low
High

Map showing the number of community energy organisations in different regions of the UK.
Community Energy

STATE OF THE SECTOR 2018

Primary Activity by UK Region

- Electricity Generation
- Heat Generation
- Energy Efficiency / Demand Management
- Low Carbon Transport

No. of Distinct Activities

South West England
South East England
London
East of England
East Midlands
West Midlands
Yorkshire & the Humber
North East England
North West England
Wales
Northern Ireland
Community Energy
STATE OF THE SECTOR 2018
Regional Capacity by Technology

**Hydro**

- 0.29
- 0.1
- 0.06
- 0.4
- 0.31

**Wind**

- 1.5
- 11.5
- 6.8
- 0.23
- 6.5

**Solar PV**

- 48.6
- 29.5
- 15.7
- 1.5
- 0.7

0.5 Generation Capacity (MW)
Regional Support and Networks

Community Energy Network

Umbrella / Supporting Organisation

Number of affiliated community organisations

More

Fewer
Community Energy England (CEE) and Community Energy Wales (CEW) are membership organisations established to provide a voice for the community energy sector in England and Wales respectively. CEE and CEW work closely together, as well as with other partners, to help to create the conditions within which community energy can flourish.

You can help CEE and CEW to succeed in their shared mission to support and accelerate the transition to a fair, low carbon and community-led energy system by joining them. Membership of CEE and / or CEW is inclusive and is open to any organisation that is committed to the development of the community energy sector in England, Wales and beyond.

www.communityenergyengland.org

Comm1nrg

+44 (0)114 312 2248

info@communityenergyengland.org