Community Energy: National Case Studies

Emma Bridge

Community Energy England

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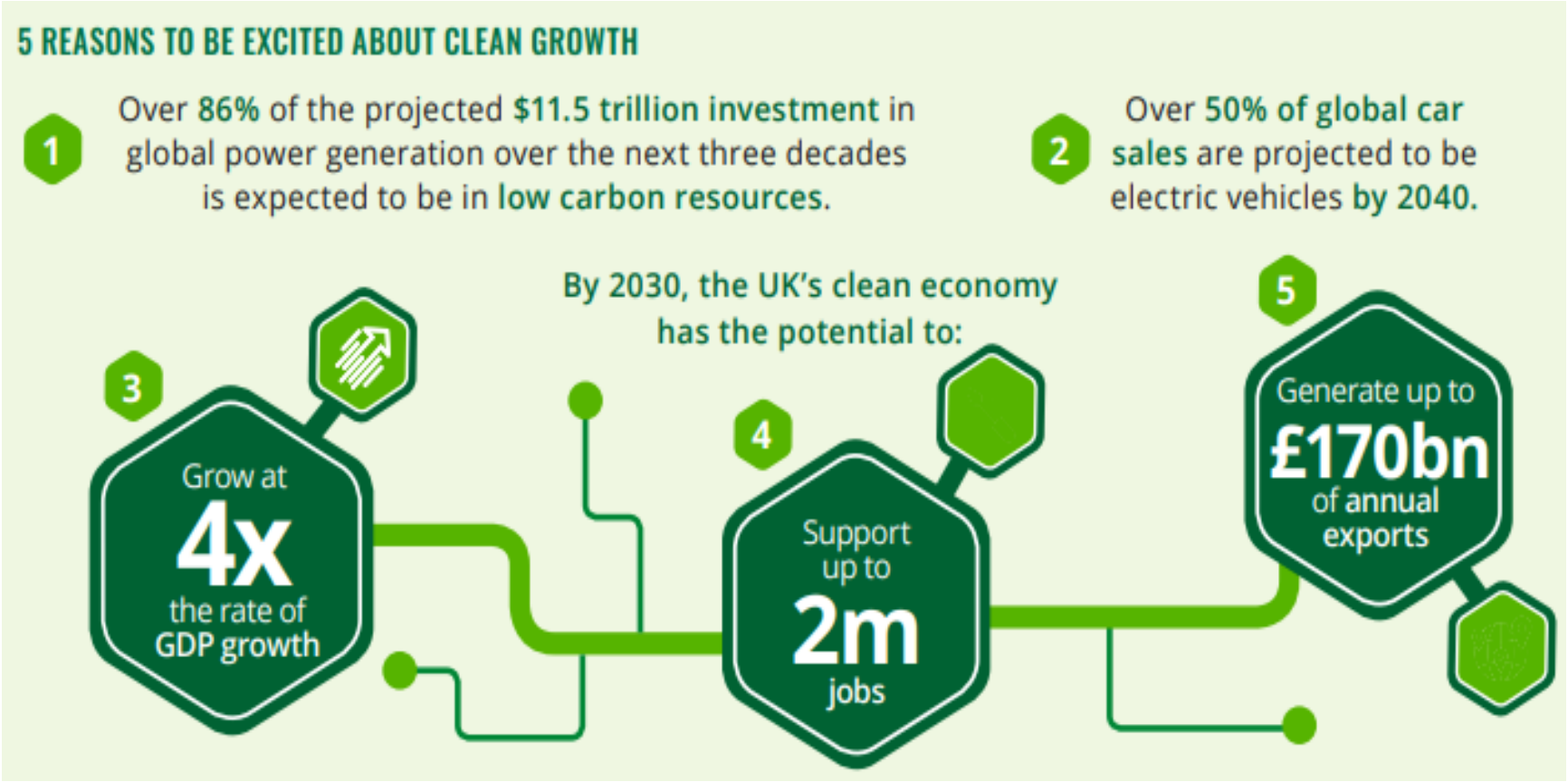
Putting people at the heart of the energy system

- Founded by the sector to:
  - Create a voice for community energy
  - Support sector development
  - Build cross-sector partnerships



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Green Great Britain & NI Week



Green GB & NI 2018 Toolkit greengb.campaign.gov.uk

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But could we do more?

"On a global stage, the UK is driving forward action on climate change (…). At home, we are growing an economy that is fit for the future" Prime Minister Theresa May



Growth in independent renewable energy projects slumps as government support falls

Small-scale renewable projects account for almost 10 per cent of the UK's energy, but government support is coming to an end

Harry Cockburn | Tuesday 1 May 2018 17:23 | 50 comments

The amount spent on independent renewable energy projects in the UK has fallen by 45 per cent since investment reached its peak in 2014 (Joe Raedle/Getty Images)



Environment

Government urged to act fast on climate change after seeking advice on new carbon emissions target

Experts welcome request for advice from Committee on Climate Change, but say 'net zero' target must come soon to avert catastrophe

Josh Gabbatiss Science Correspondent | @josh_gabbatiss | 2 days ago | 21 comments

Experts agree that a massive shift from fossil fuels to renewables will be required to avoid going beyond 1.5C of warming (Getty)

Lord Deben: "Report on climate change is primarily about urgency. Action cannot be delayed. No 'after you Claude' but real leadership from rich nations whose wealth is founded on the pollution that threatens the planet. We know, therefore we cannot evade our responsibility to act effectively"

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Community energy











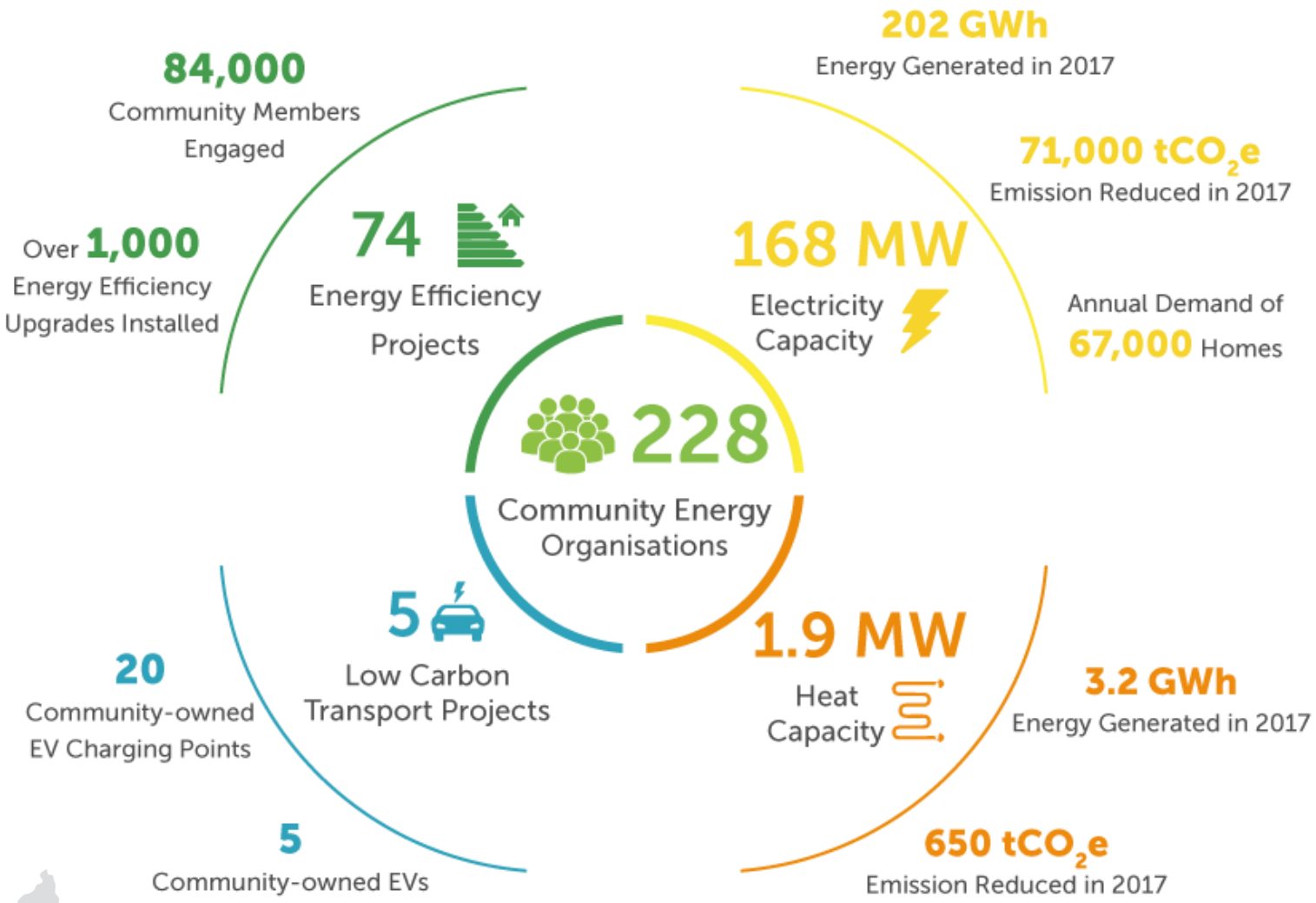




Community Leadership
Ownership - Control - Benefit

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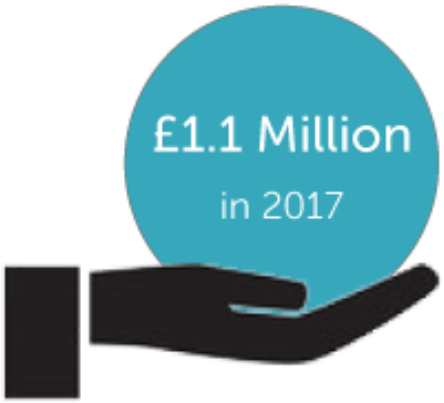
State of the sector



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Community Outcomes

Community Benefit Funding worth



Used for

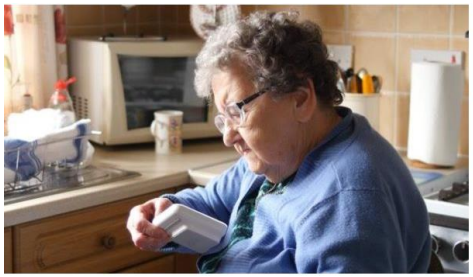


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What else community energy brings

- Trusted local partner
- Local knowledge and networks
- Increases uptake and change
- Energy democracy
- Empowerment
- New investment
- Recycled economic benefits
- Local solution to global problems







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CASE STUDIES

Community Energy England

Bringing private assets into community ownership

- Mean Moor Wind Farm
  - 3 turbine 6.9MW
  - Acquired by 3 co-operatives with support of E4A, Thrive Renewables and Triodos
  - 2,500 members
  - £2.8m and £1.2m offers raised in 2 weeks and oversubscribed
  - Operated with adjacent High Winds – combined capacity of 11.5MW



HIGH WINDS COMMUNITY ENERGY SOCIETY

ENERGYPROSPECTS CO-OPERATIVE LIMITED

BAYWIND ENERGY Co-operative Limited

ENERGY4ALL GREEN CO-OPERATIVE ENERGY

THRIVE RENEWABLES

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Storage

- Energise Barnsley
  - 2 year solar and storage project with Barnsley Council, Northern Powergrid and Moixa
  - Smart batteries, thermal stores and ASHP
  - Demand side response demonstrator
  - Peer to peer trading pilot
  - 7MWh standalone battery on council land
  - Focus fuel poor vulnerable, to maximise the social economic benefits from new innovations
  - Follows on from ‘Barnsley Solar’





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Energise Barnsley

NORTHERN POWERGRID

Gen Community

Energy efficiency

- Plymouth Energy Community
  - Professional holistic help and support service
  - 7 trained advisors
  - Network of referral partners and funding mechanisms
  - Annual savings this year of £63,676
  - Total savings per household £380
  - Total project lifetime savings £1,335,061
  - 5,028,100 kg/carbon lifetime savings





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Plymouth Energy COMMUNITY™

Heat

- Springbok Sustainable Wood Heat Co-op
  - 400kW wood chip district heating system
  - 100% community owned
  - Switched 3 large old oil boilers operating at less than 70% efficiency and 2 smaller oil boilers
  - Produces wood chip from poor quality wood and the tops of trees from the immediate area
  - Main customer is ‘Care Ashore’ supported housing charity
  - Retrofitted energy saving measures
  - Working to maximise the woodland’s potential for butterfly habitat





SPRINGBOK SUSTAINABLE
WOOD HEAT CO-OPERATIVE

Community Energy England

Low Carbon Hub

PEOPLE

TOGETHER WE'RE DEVELOPING ENERGY FOR PEOPLE, NOT PROFIT

As of March 2018

33

HOSTS: Organisations who host our renewable energy projects

808

INVESTORS: Members who have invested in Low Carbon Hub share offers

3180

FOLLOWERS: People who follow and like us on Twitter and Facebook

69

HELPDESK: People and organisations who have received advice and expertise via our helpdesk this financial year

27

COMMUNITY SHAREHOLDERS: 27 energy-focused low carbon community groups based in Oxfordshire are now shareholders in Low Carbon Hub's CIC, with voting rights and eligibility for small grants

PROSPERITY

20-YEAR (LIFETIME) NOMINAL PROJECTED VALUES

As of March 2018.

£4.1 M

TOTAL INVESTMENT: in the Low Carbon Hub IPS Limited.

£2.3 M

COMMUNITY BENEFIT: of which £256,626 has been generated to date.

£3.6 M

INTEREST TO INVESTORS: Lifetime anticipated. Of which £206,427 has already been returned.

£1.6 M

SAVINGS ON ELECTRICITY BILLS BY HOSTS: of which £114,388 has been saved to date.

PERCEPTION

We are committed to developing a sustainable energy system for community benefit

As of March 2018

96%

Believe we are committed to the creation of a low carbon, locally owned renewable energy system

98%

Trust our expertise around local, renewable energy and low carbon

From 124 response to our 'How are we doing?' stakeholder survey March 2018

PLANET

We aim to increase the number of renewable energy installations

As of March 2018

38

INSTALLATIONS: Of solar PV and hydro electric

4.2GWH

CLEAN ELECTRICITY: Generated a year by our installations

1351

TYPICAL HOMES: Could be powered by our installations

1562

TONNES: of CO_2 saved a year

low carbon hub

POWER STATIONS FOR PUBLIC GOOD

Green Great Britain Week …and beyond

- Engage with politicians
  - https://communityenergyengland.org/events/green-great-britain-week
- Invest
  - https://communityenergyengland.org/pages/share-offers
- Support your local group
  - https://goo.gl/aw3XrK
- Develop a community energy project
  - https://hub.communityenergyengland.org/resources/getting-started/

Community Energy England

Putting people at the heart of the energy system



Community Energy England

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