



Community Energy for Somerford Keynes

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Reduce energy costs

Reduce CO₂

Agenda

- ▶ Community Energy in a nutshell
- ▶ Community Energy Infrastructure
- ▶ Community Energy Finances
- ▶ Your Feedback + Q&A
- ▶ Discuss Next Steps



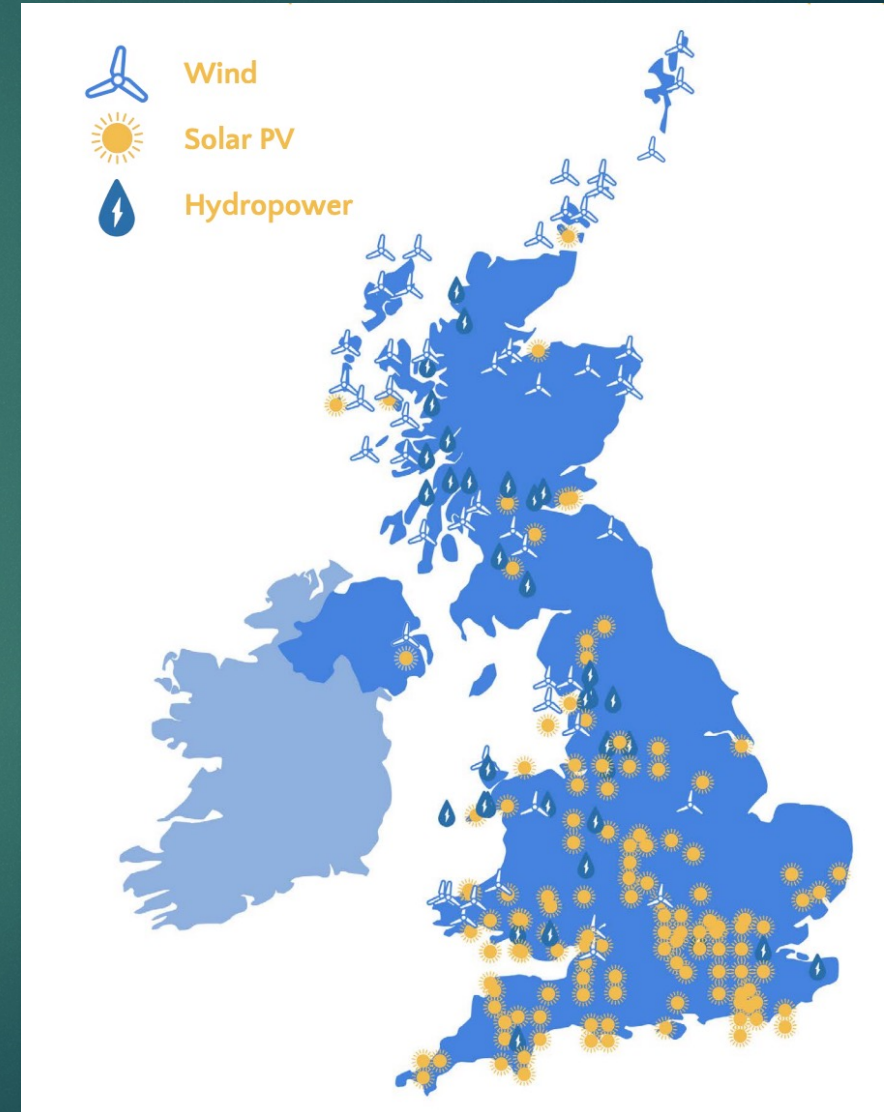
Community Energy

IN A NUTSHELL

Community Energy In a Nutshell

A Proven Model

- ▶ 400+ Community energy organisations
- ▶ Social enterprises
- ▶ Owned by the community, for the community
- ▶ Driven by distributed renewable power



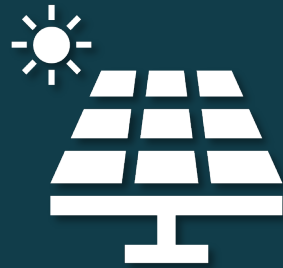
Community Energy In a Nutshell



Community Energy Social Enterprise Coop



National
Grid



Community
Renewable Electricity
Generation



Community Homes
and Businesses



Community Zero
Emissions Heating*



Investors

*optional

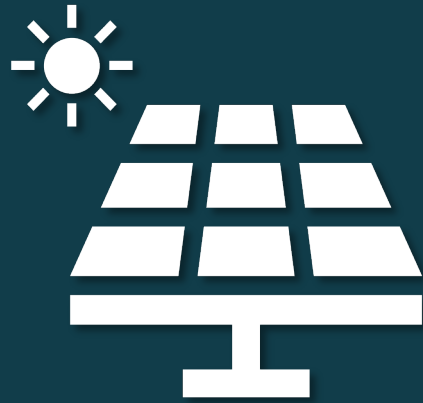


Community Energy

INFRASTRUCTURE

Community Energy Infrastructure

Electricity Generation



Solar Farm
Rooftop Solar



Battery
Storage



Hydro Electricity?



Wind Power?

Community Energy Infrastructure

Heating*



Heat Pumps



5th Generation
Community Heat
Network

Community Energy Infrastructure

Heating*



*optional



Community Energy

FINANCING

Community Energy Financing

Funding the Infrastructure

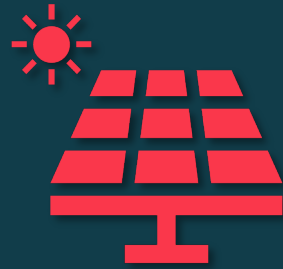
Investors



Environmental,
Social &
Governance
(ESG) Investors

Community
Investors

Government
Grants?



Community
Renewable Electricity
Generation



Community Homes
and Businesses



Community Zero
Emissions Heating*

20-year payback (5% per year)
~4% interest on outstanding investment

*optional

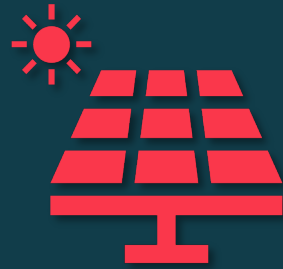
Community Energy Financing

Operation Costs



Land rental

Operations &
Maintenance



Community
Renewable Electricity
Generation



Community Homes
and Businesses



Community Zero
Emissions Heating*

*optional

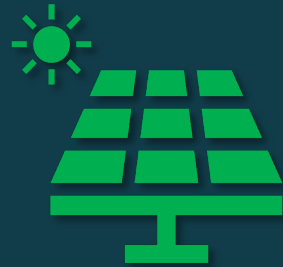
Community Energy Financing

Income



National
Grid

Sell electricity
through
Power
Purchase
Agreement
(PPA)



Community
Renewable Electricity
Generation



Community Homes
and Businesses

Sell low-cost electricity
to the community*



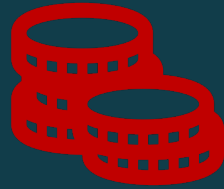
Community Zero
Emissions Heating*

Sell low-cost heating
to the community*

*optional

Community Energy Financing

Profit



Costs

- Repaying investors
- Operational costs



Income

- Selling power
- Selling heating*



Profits

- Returned to community
- Community decides how to use

*optional



Community Energy

Q&A



Community Energy

NEXT STEPS

Next Step

- ▶ Community engagement
- ▶ Community champions
- ▶ Feasibility plan





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