



# LMEHA NetZero Plan Update – Community Energy

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# Sub committee

- ▶ Andy Mortimer
- ▶ David Willis
- ▶ Hilary Collins
- ▶ Julie Arnold
- ▶ Jo Felstead
- ▶ Jo Winson
- ▶ Matthew Weiniger
- ▶ Mike McKeown
- ▶ Pam Armstrong
- ▶ Paul Hawkins
- ▶ Ranjit Prasad
- ▶ Tim Hopes

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## Recruiting

- ▶ General interest
- ▶ Specialist sustainability knowledge and experience
- ▶ Finance experience
- ▶ Flexible time commitment

Reduce energy costs

Reduce CO<sub>2</sub>

# Agenda

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

\*New



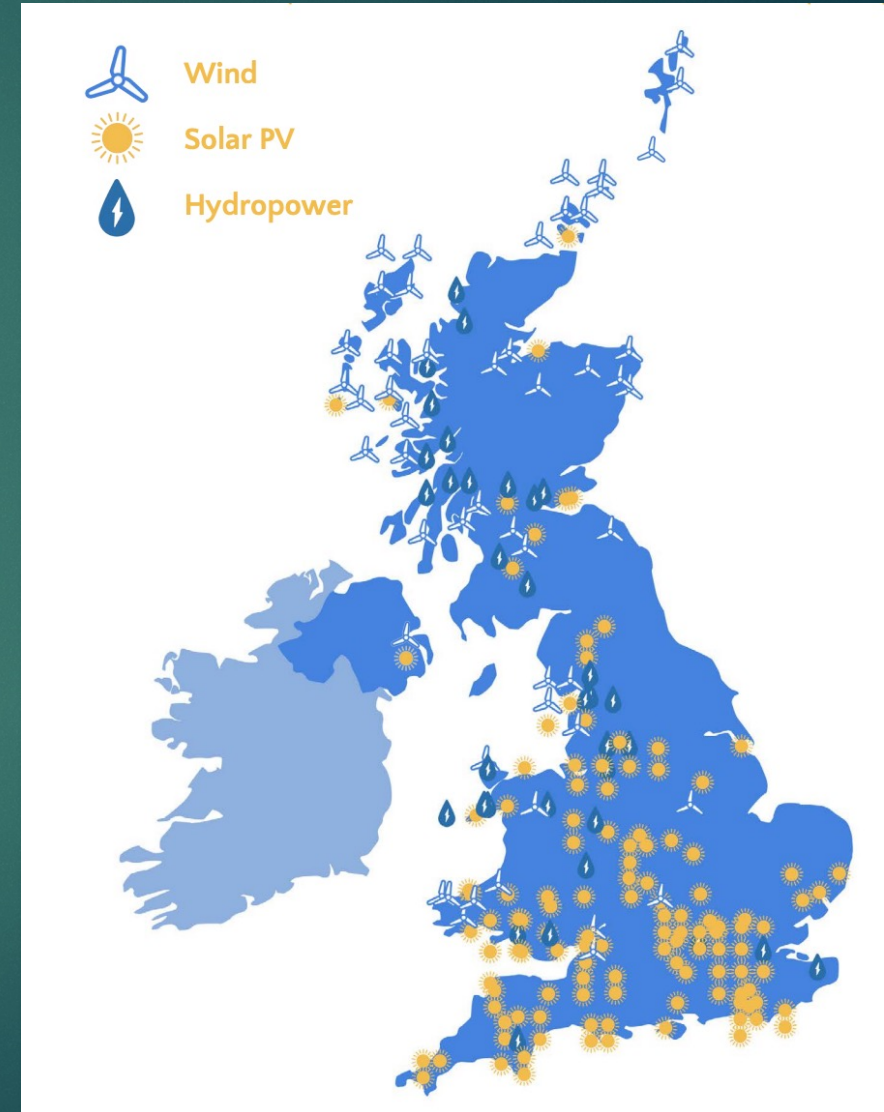
# Community Energy

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

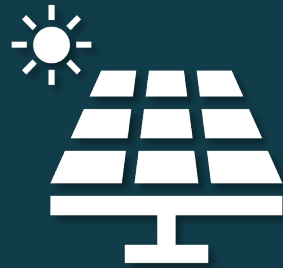


National  
Grid



Investors

## Community Energy Social Enterprise Coop



Community  
Renewable Electricity  
Generation



Community Homes  
and Businesses



Community Zero  
Emissions Heating\*

\*optional



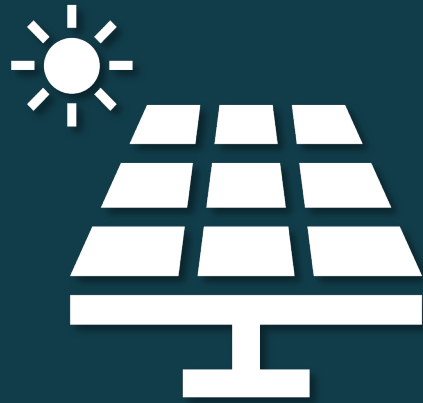
# Community Energy

INFRASTRUCTURE



# Community Energy Infrastructure

## Electricity Generation



Solar Farm  
Rooftop Solar



Battery  
Storage



Hydro Electricity?



Wind Power?

# Community Energy Infrastructure Heating\*



Heat Pumps



5<sup>th</sup> Generation  
Community Heat  
Network

# Community Energy Infrastructure

Heating\*



\*optional



# Community Energy

FINANCING

# Community Energy Financing

## Funding the Infrastructure

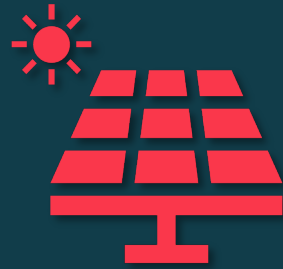
Investors



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

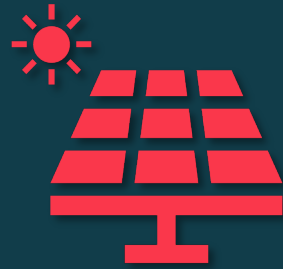
# Community Energy Financing

## Operation Costs



Land rental

Operations &  
Maintenance



Community  
Renewable Electricity  
Generation



Community Homes  
and Businesses



Community Zero  
Emissions Heating\*

\*optional

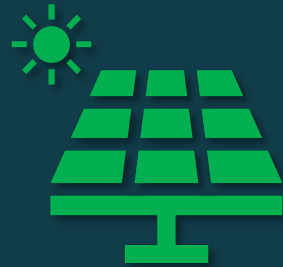
# Community Energy Financing

## 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\*



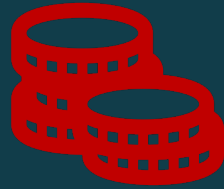
Community Zero  
Emissions Heating\*

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





# Additional NetZero Plans

# Additional NetZero Plans

- ▶ Estate buildings and services
- ▶ EV Charging
- ▶ Waste and Sewage
- ▶ Advise

# NetZero

Q&A

# NetZero

NEXT STEPS

# Next Step

- ▶ LME/HFG and HML engagement
- ▶ Wider community engagement
- ▶ Expand sub-committee
- ▶ Feasibility plan





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