
Liverpool
Community
Renewables

ZERO CARBON

LIVERPOOL CITY REGION

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RV ENERGY
A community energy organisation for Rossendale

Rossendale Valley Energy

Welcome to Rossendale Valley Energy, a community-owned renewable energy group empowering local people to help make fuel more affordable and create warmer homes.

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Zero
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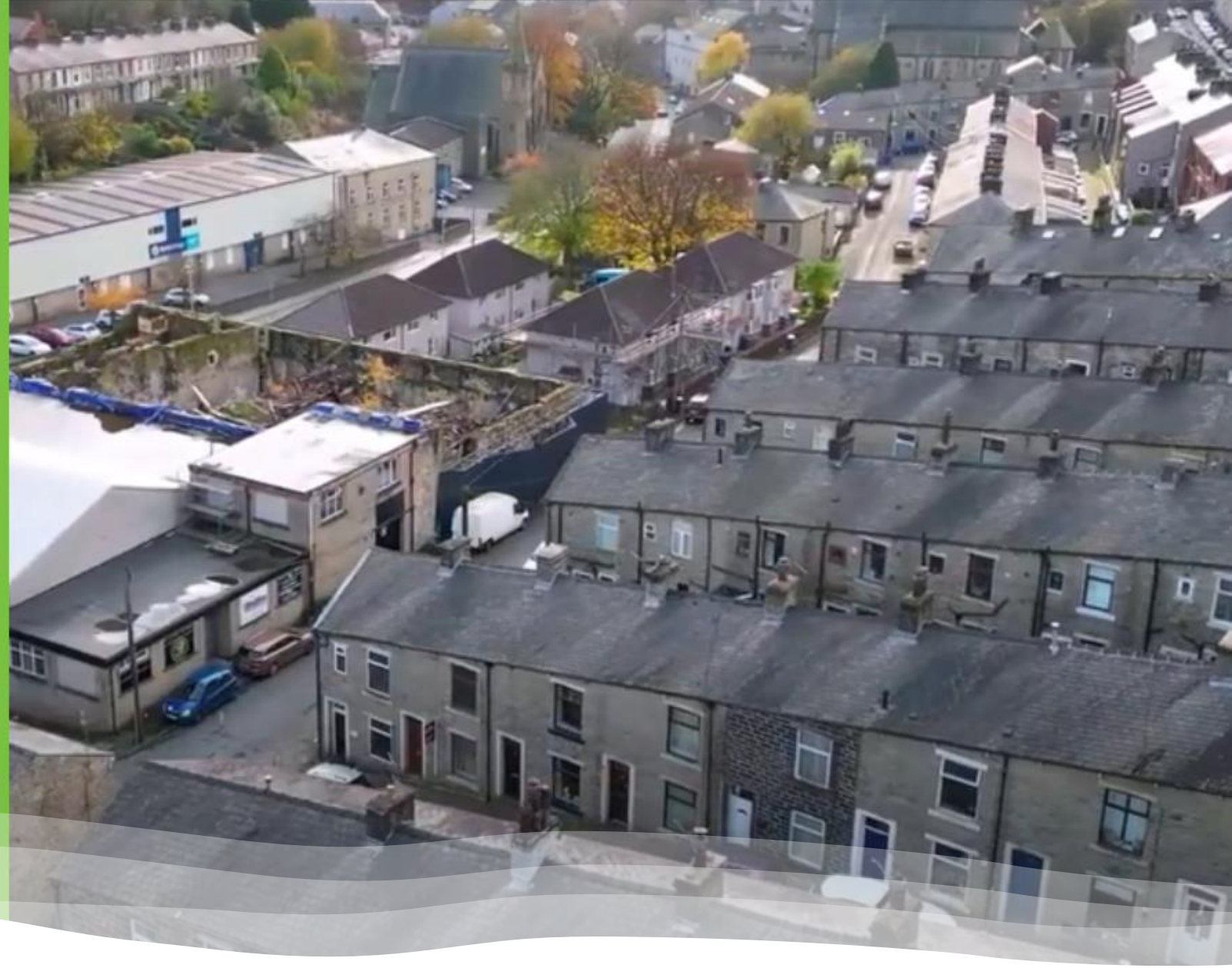
e project will demonstrate how to decarbonise
reet using a Smart Local Energy System that is
network, optimised, affordable to consumers
across GB.




Community Energy Awards 2022, Winner
Community Energy Champion (Individual)
Kate Gilmartin


ASBRIDGE STREET
L8
FUCK THE POLICE

LCVS TOGETHER FOR LIVERPOOL FOR GOOD

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Volunteer Help for Organisations Funding Donor Services Working Together Resources

The Innovation in Communities Project

Event Date: 16 December 2021

LIVERPOOL CITY REGION COMBINED AUTHORITY

METRO MAYOR LIVERPOOL CITY REGION

UK Government

Liverpool Alt Housing Coop

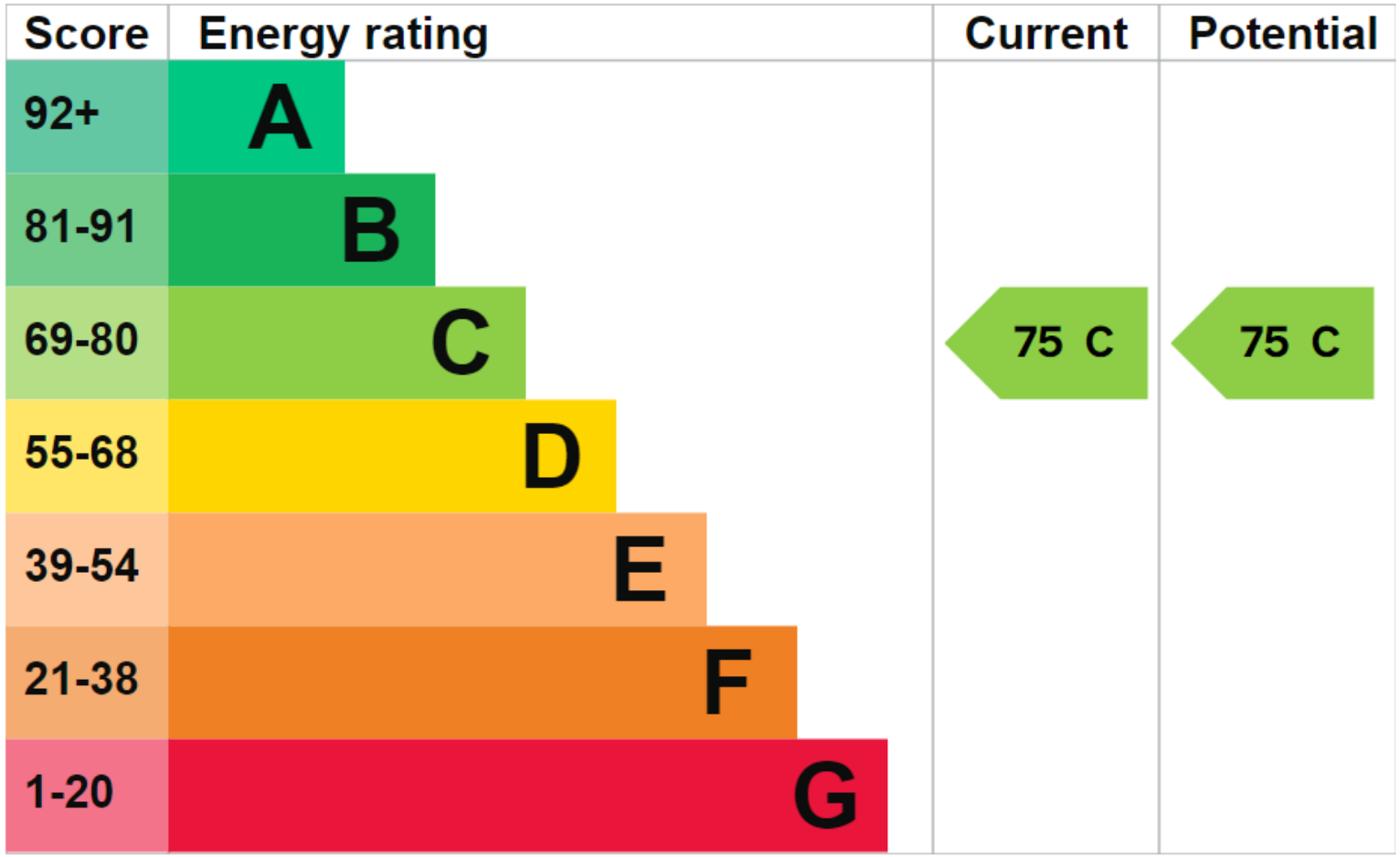
Renewable Energy Options Appraisal
and Business Case

15th June 2022

Energy rating and score

This property's energy rating is C. It has the potential to be C.

See how to improve this property's energy efficiency.



How this affects your energy bills

An average household would need to spend **£430 per year on heating, hot water and lighting** in this property. These costs usually make up the majority of your energy bills.

You could **save £0 per year** if you complete the suggested steps for improving this property's energy rating.

This is **based on average costs in 2009** when this EPC was created. People living at the property may use different amounts of energy for heating, hot water and lighting.

Impact on the environment

This property's environmental impact rating is C. It has the potential to be C.

Properties get a rating from A (best) to G (worst) on how much carbon dioxide (CO2) they produce each year.

Carbon emissions

An average household produces	6 tonnes of CO2
This property produces	2.0 tonnes of CO2
This property's potential production	2.0 tonnes of CO2

Ground heat pumps for Stithians homes in £6.2m project

23 September 2022

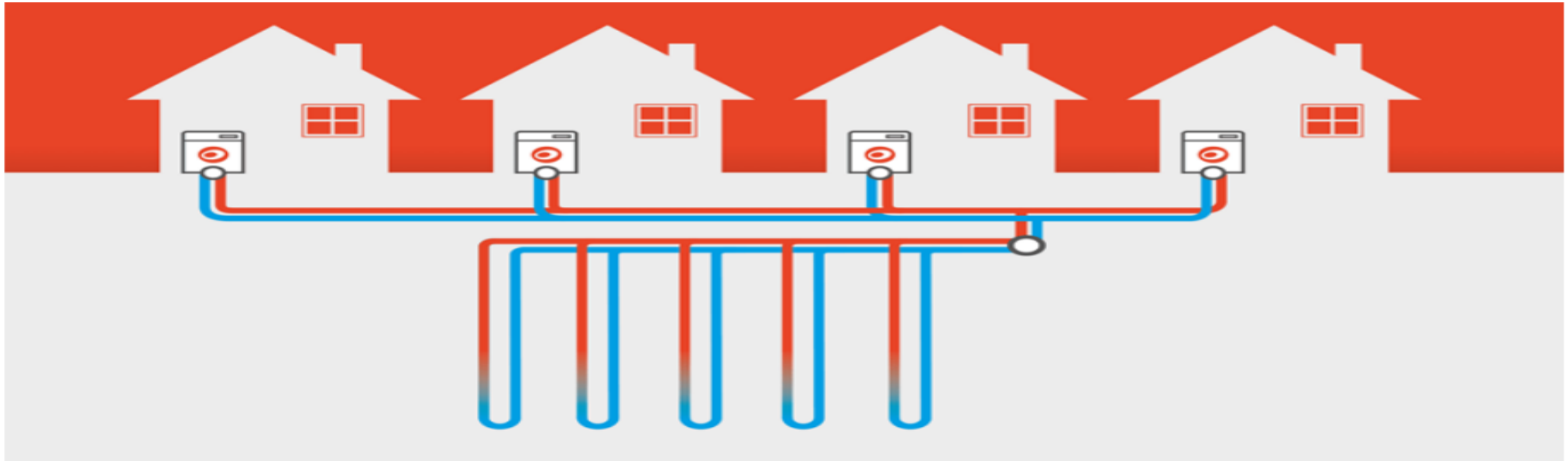


Figure 6 Schematic of a share ground loop ground source array connected up to a number of properties.

- Scalable and flexible solution
- Ambient temperature distribution
- No district heat losses and no overheating
- Potential for free summer cooling
- Individual heat pump in each dwelling
- Powered by occupant's electricity supply
- Opportunity for commercial returns
- Householders able to switch energy suppliers
- Able to benefit from lowest running costs
- Split ownership permitted
- Ground arrays > 100-year lifetime
- Permitted Development
- 5th Generation District Heating

north west
net zero hub

Department for
Energy Security
& Net Zero

Lancashire
County
Council

- The committee of the Alt are aware of the net-zero targets and wants to understand how to hit those targets with its housing stock in way that will improve the lives and well-being of its members.
- The renewable energy installed must be at least 51% owned by the Alt. The business case must include funding options and how any investment is repaid, without increasing energy costs for the member/tenants of the Alt.

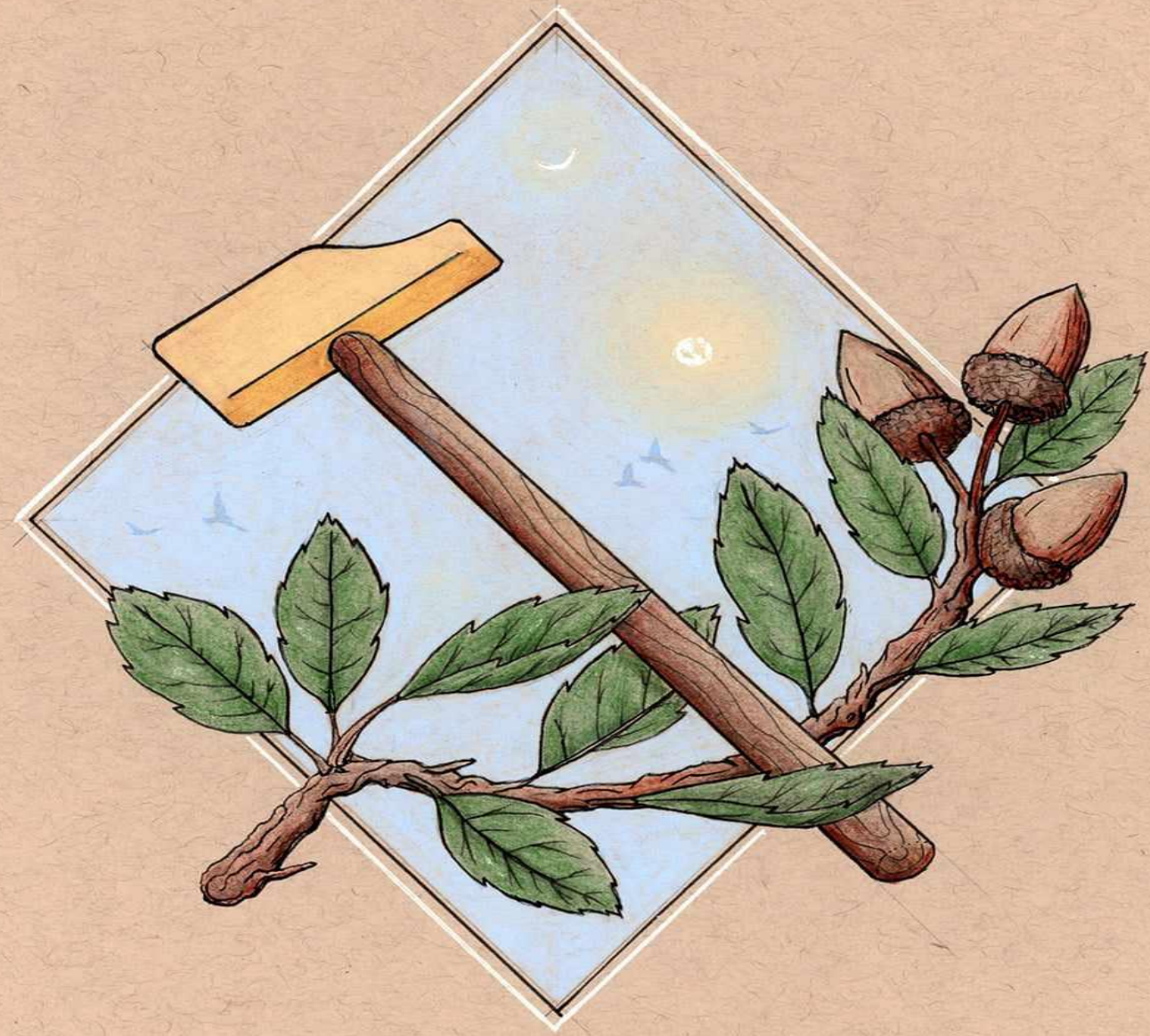
- Heat loss calculations to EN12831
- Calculation of annual space heating demands and annual direct hot water demands
- Schedule of radiator outputs
- Geological Study
- Borehole design and layout and drilling specification
- System Hydraulic Design – from borehole through to GSHP unit
- Funding projection based on latest available scheme information
- Scope of works for the project
- Obtaining relevant statutory utility pack drawings
- GSHP design pack
- Drawings comprising of risers, laterals and apartment internals
- UXO risk assessment
- Full topographical survey of the site also identifying all buried services to enable accurate plotting of boreholes
- On-site Thermal Response Test
- EPCs for the current as installed system and draft post completion EPCs demonstrating the impact of the GSHP system


PEOPLE
POWERED
RETROFIT


SCENE

Loco$_2$gen

abundance.



we will heal the world