



Plymouth Energy
COMMUNITY™

WHY AM I HERE?

- To connect
- A decade of fuel poverty action
- Share lessons learnt



WHAT IS PLYMOUTH ENERGY COMMUNITY?

A charity and social enterprise,
with a cooperative ethos.

.....to create a fair, affordable,
zero carbon energy system
with local people at its heart....



WHY LOCAL ENERGY?



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WHY LOCAL ENERGY SOLUTIONS?

-Net zero provides an **unprecedented opportunity** to put local communities and stakeholders at the heart of **restructuring our economy**;
- ..making **energy innovations and their associated investments** work actively to **reduce poverty and inequality**,
- **maximizing their social impact**, and building key principles of **justice and equity** into the solutions that we develop.

OUR ENERGY POVERTY CHALLENGE

One bus a week, every week

20 people have a disability

7 are pensioners

6 have children under 5 with them

2 are refugees

Half need grants to afford energy or essentials

1 has no heat or hot water

2 are in problem fuel debt

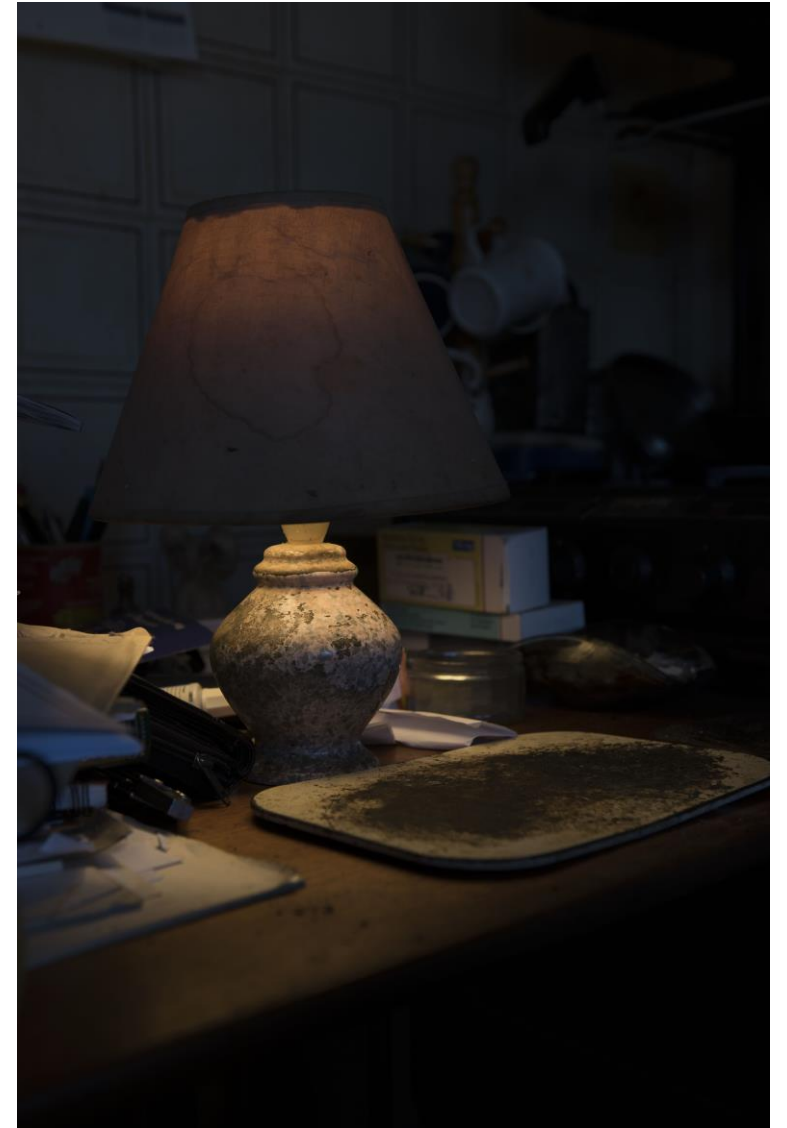
3 can't talk to their supplier

4 ask for advice to meet bills



TACKLING FUEL POVERTY

- **Maximise Income-** Benefits check, applying for grants, budgeting advice
- **Minimise Heat Loss** - Retrofit and draught excluding
- **Reduce Energy Consumption** - Behaviour change and energy saving measures

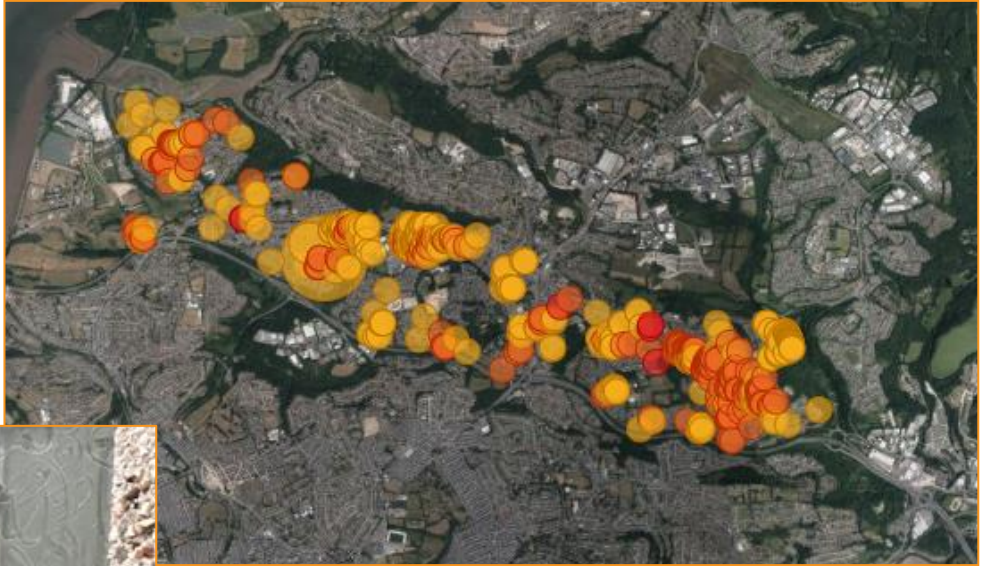


RETROFITTING HOMES



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BUILDING A COMMUNITY



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A DEEP PARTNERSHIP



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COOPERATION & COLLABORATION







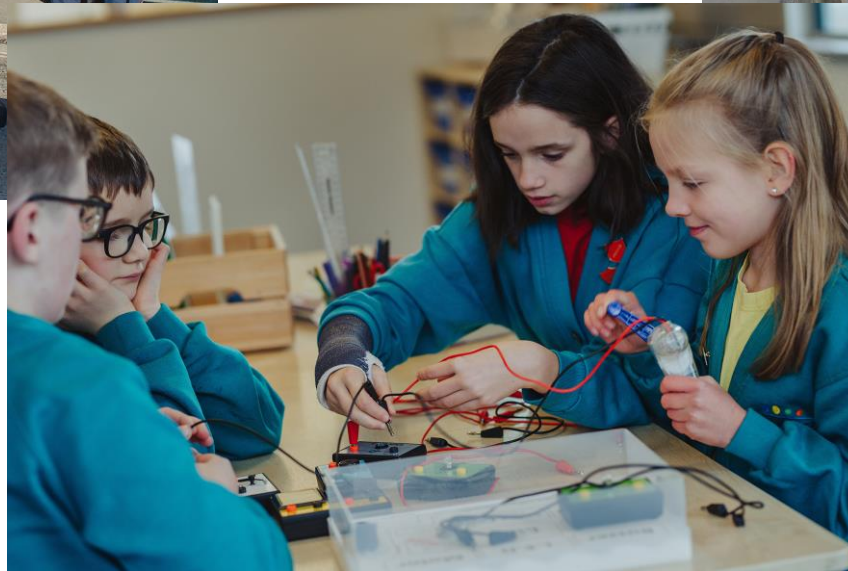
COMMUNITY OWNED SOLAR POWER



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LOCAL SOLAR POWER



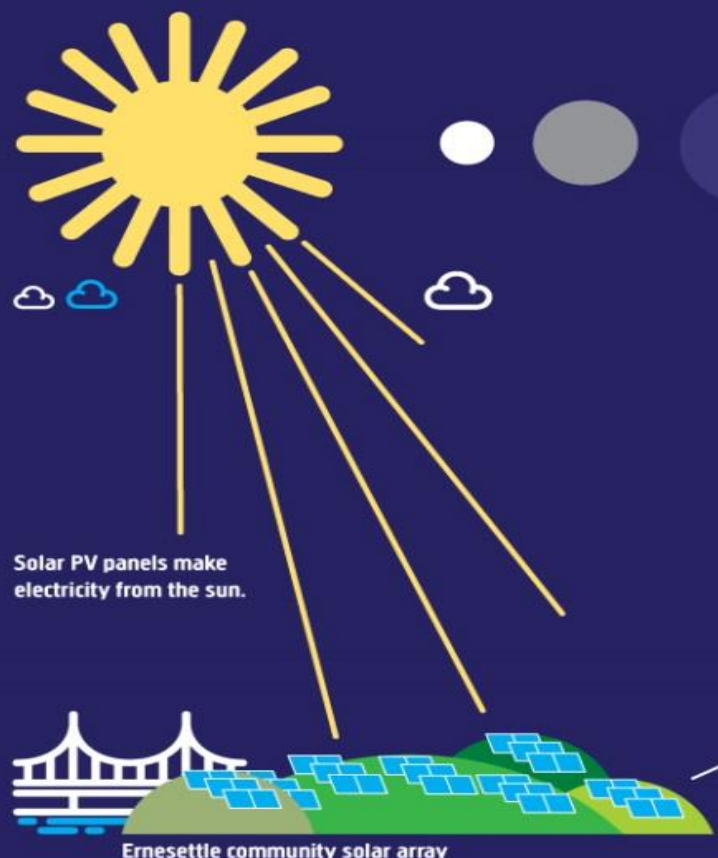


HOW IT ALL WORKS!



Investors purchase shares in PEC Renewables.

Investors become Members of PEC Renewables and earn a target of 6% interest per year.



Solar PV panels make electricity from the sun.

Ernesettle community solar array

Ernesettle Community Solar owns and manages the array.

Ernesettle Community Solar earns an income from subsidies and electricity sales.



PEC Renewables provides a loan to Ernesettle Community Solar.



Surplus funds from Ernesettle Community Solar are used by Plymouth Energy Community to fight fuel poverty and climate change around Plymouth.



Four Greens Community Trust earn a rental income, supporting community activities in the surrounding four neighbourhoods.

Development offset from existing boundaries with wide grassland buffer zones to ensure their protection. The protection and retention of the existing landscape boundary features will provide immediate screening, retain the landscape character and pattern and help reduce the effects of the proposed development

Existing grassland within the site boundaries retained with any disturbed ground following construction re-seeded with a suitable grass seed mix.

Rough grassland corridors are focussed on the boundaries to encourage biodiversity.

Additional footpath links provided to National Trust Perimeter Path and the Wixenford Way in south-east of Chelson Meadow

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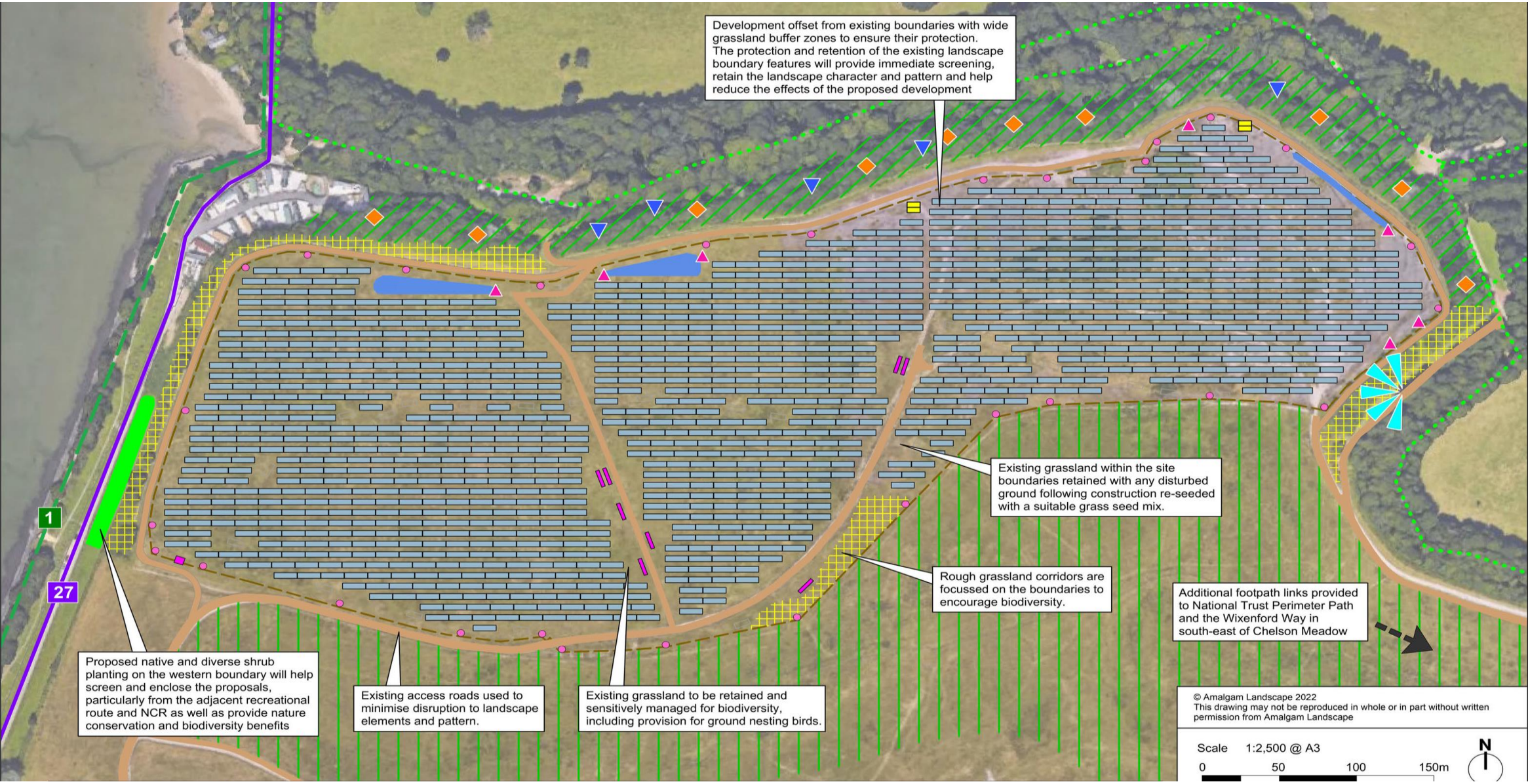
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0 50 100 150m



Proposed native and diverse shrub planting on the western boundary will help screen and enclose the proposals, particularly from the adjacent recreational route and NCR as well as provide nature conservation and biodiversity benefits

Existing access roads used to minimise disruption to landscape elements and pattern.

Existing grassland to be retained and sensitively managed for biodiversity, including provision for ground nesting birds.



1

27

BUILDING NET ZERO AFFORDABLE HOMES





OUR IMPACT IN 2023:

1,632

Households given long term 1-1 support

£815,000

Total value of support to households

86%

Of people felt better able to stay warm after our help

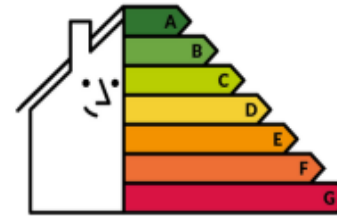


2,425

People supported through community outreach

£1.6million

of improvements delivered



£7,000

Average value of support received

£455

Average annual savings per household

73%

of grant spent within local economy



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LESSONS LEARNT



- Cooperation
- Advice needs to be specific
- The need for Trust
- Local expertise to
 - Convene
 - Catalyse
 - Deliver



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