



# Net Zero: What It Means for Businesses and How We Can Help

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# 1) Context – Global Commitments



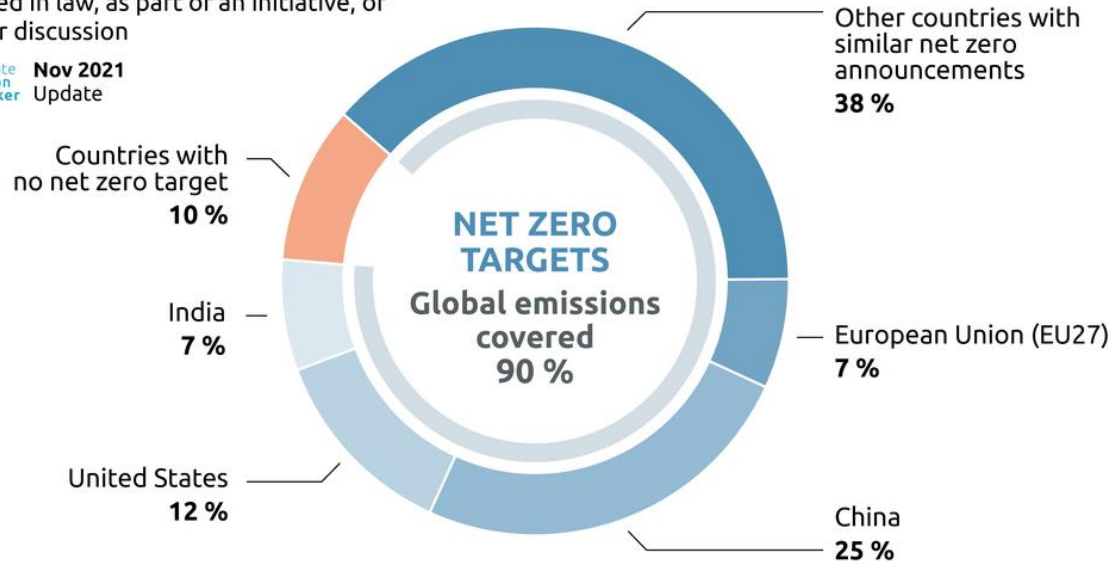
9 Nov 2021

## Net zero emissions target announcements

Agreed in law, as part of an initiative, or under discussion



Nov 2021 Update

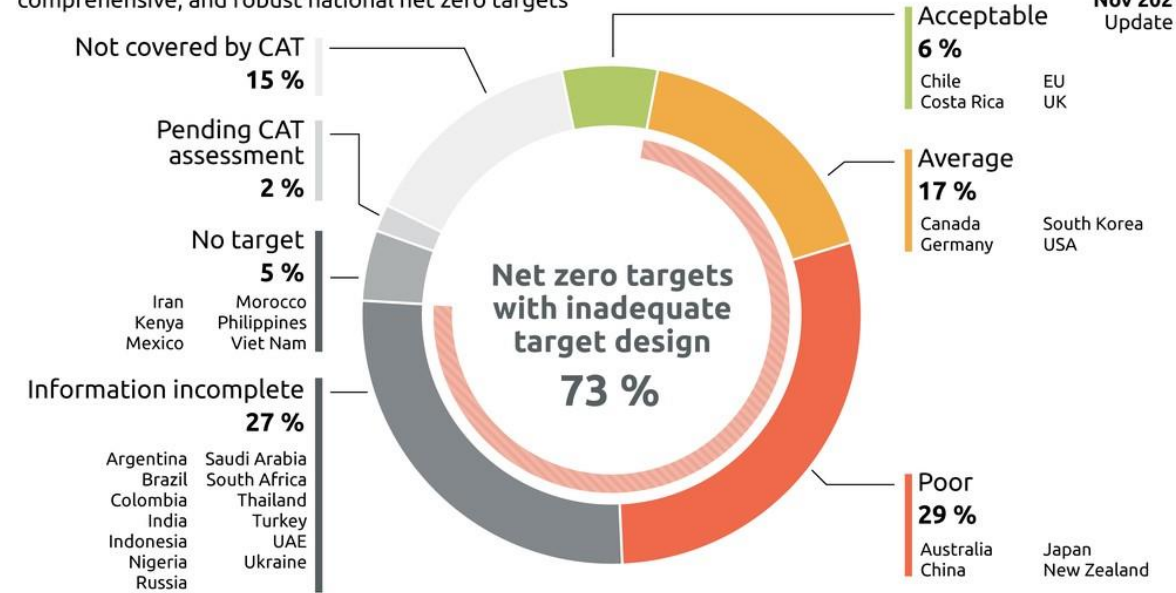


## Net zero target design - mostly inadequate to date

Evaluation of the quality of net zero targets using the CAT's design blueprint for transparent, comprehensive, and robust national net zero targets



Nov 2021 Update



<https://climateactiontracker.org/global/cat-net-zero-target-evaluations/>



1.5oC goal - on track for 2.4oC

Annual meetings to submit updated national plans

# 1) Context – UK Net Zero 2050



## Headlines



- 1990 baseline
- 44% CO<sub>2</sub> reduction achieved by 2019
- 68% CO<sub>2</sub> reduction by 2030
- 78% CO<sub>2</sub> reduction by 2035
- Net zero by 2050.

## Transport



- No new petrol or diesel cars or light vans sales from 2030
- No hybrid sales from 2035
- All new HGVs <26 tonnes sold zero emission by 2035
- All new HGVs sold zero emission by 2040.

## Energy



- Decarbonised power sector by 2035
- Currently 43% of electricity from renewables (2020)
- 7% in 2010.

## Buildings and heating



- Heating from:
  - Heat pumps
  - Heat networks
  - Hydrogen (2026)
- EPC B for landlord properties by 2030
- EPC C all homes by 2035 'where practical, cost-effective and affordable'.

UK Net Zero Strategy: <https://www.gov.uk/government/publications/net-zero-strategy>

Transitioning to Zero Emissions Cars and Vans: <https://www.gov.uk/government/publications/transitioning-to-zero-emission-cars-and-vans-2035-delivery-plan>

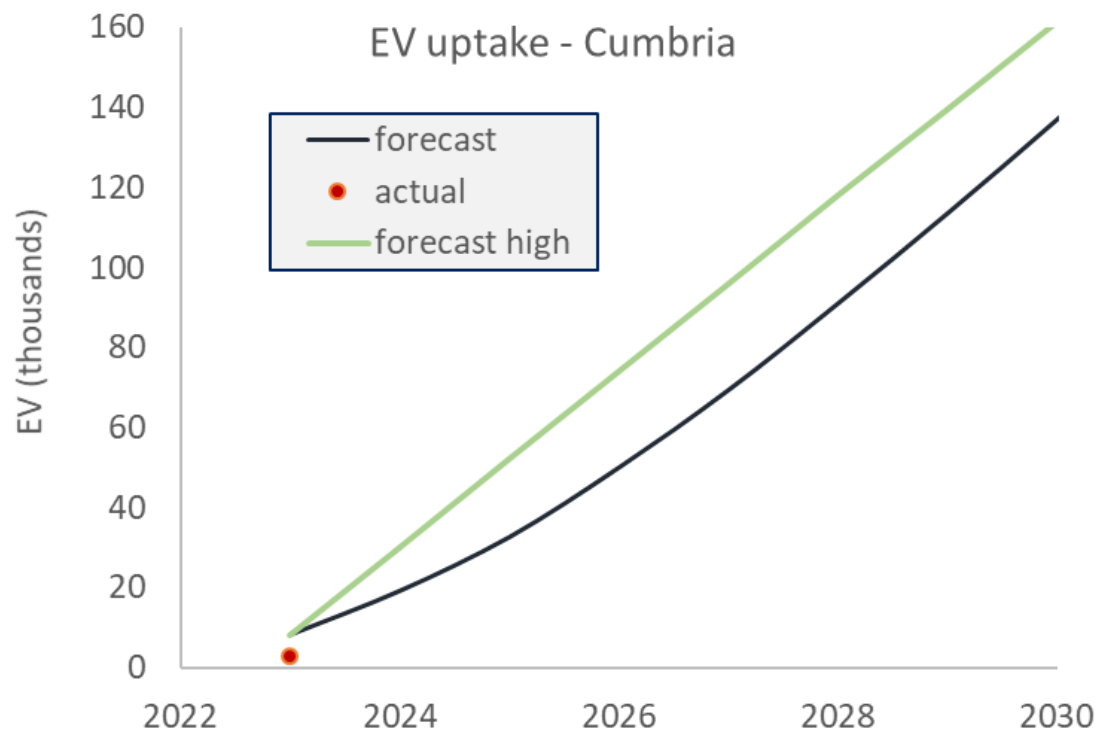
HGV announcement: <https://www.gov.uk/government/news/uk-confirms-pledge-for-zero-emission-hgvs-by-2040-and-unveils-new-chargepoint-design>

Heat and Buildings Strategy: <https://www.gov.uk/government/publications/heat-and-buildings-strategy>

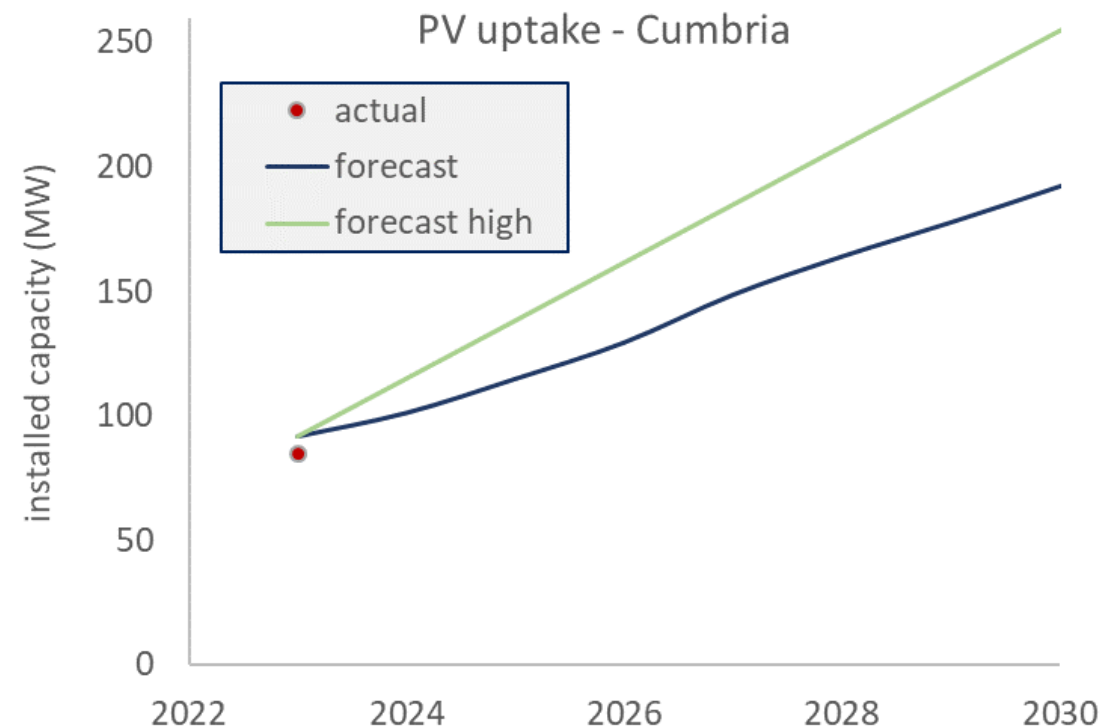
# 1) Context – North West forecasts to net zero 2050



## EV uptake – Cumbria



## PV uptake – Cumbria



# 1) Context – North West ambitions



## Greater Manchester



**Target**  
Net zero 2038

**Support**  
Bee Net Zero

**Requirements**  
Clean air zone 2022  
Procurement requirements in  
some local authorities

## Lancashire



**Target**  
Net zero 2030

**Support**  
Chamber Low Carbon  
MaCaW  
AMRC  
Eco-i

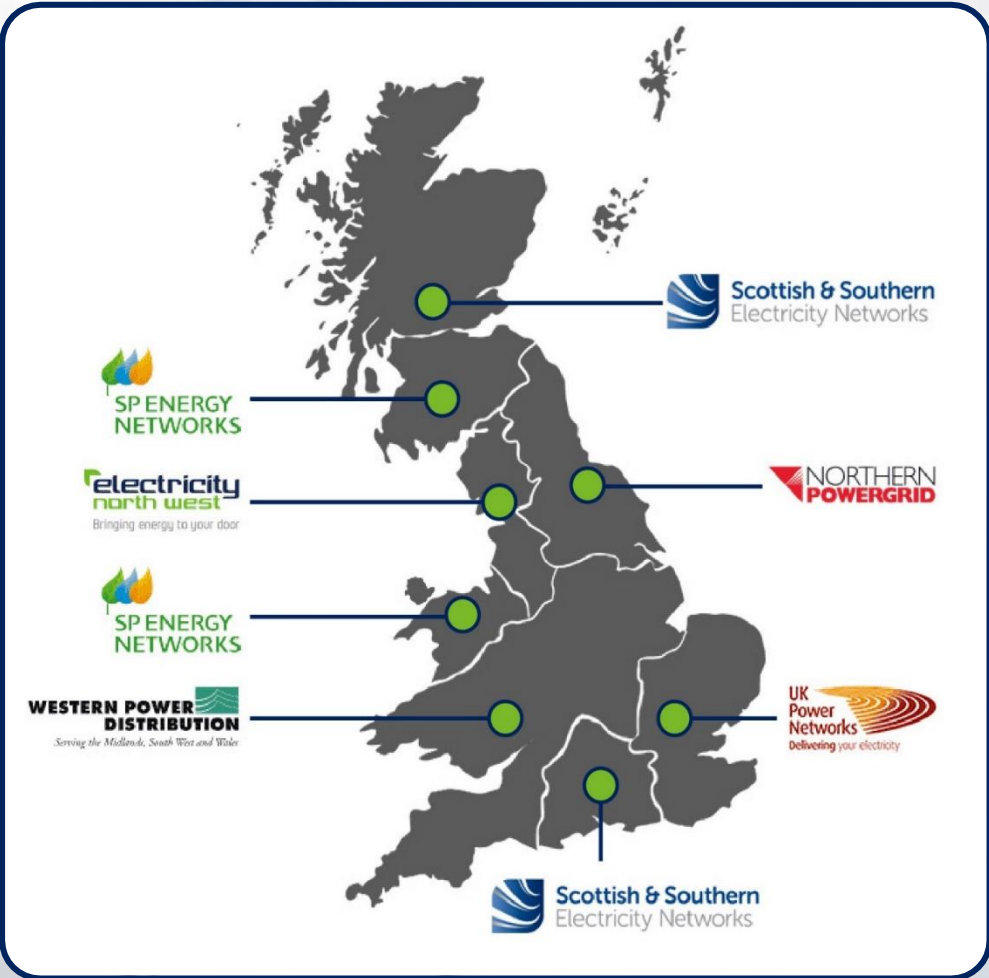
## Cumbria



**Target**  
Net zero 2037

**Support**  
Journey to Net Zero pilot  
Decarbonisation by Design pilot  
Eco-i

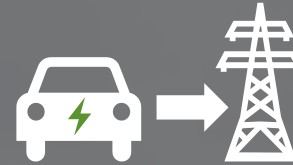
## 2) Our role – Leading the North West to Net Zero



### Our Business Plan 2023-28 – Leading the North West to Net Zero



1)  
Investing to  
double  
network  
capacity



2)  
Network  
reliability for  
increased  
electricity  
dependency



3)  
Leading by  
example



4)  
Helping our  
customers take  
action on net  
zero

### 3) Drivers for businesses to act now



Energy costs and financial savings	Your customers	Your competitors	Investors and stakeholders	Improved reputation	Increased innovation	Financial incentives and grants	Policy and legislative requirements
<p>3-25% of total business purchases (2018)</p> <p>Energy costs rising</p>	<p>Willing to pay up to 10% more</p> <p>67-81% expect more focus over next five years</p> <p>Formal requirements e.g. MCC 10% tender scoring</p>	<p>Avg. 38% of UK businesses taking action 2021</p> <p>Range 30% to 58% across sectors</p>	<p>Growing investor expectations</p> <p>\$4 trillion now in sustainable investments</p>	<p>EV and PV improve reputation</p> <p>More attractive to existing and new staff</p>	<p>63% increasing innovation since target-setting</p> <p>50% expect products to be low carbon by 2030</p>	<p>130% super-deduction until 31 March 2023</p> <p>Benefit in kind company car tax 2% EV to 2025/26</p> <p>EV charger grants £350/socket up to 40/business</p> <p>EVs vs fuel and maintenance costs</p>	<p>Landlord: EPC B by 2030 (up from A-E currently)</p> <p>Owner &gt;1,000m<sup>2</sup> : performance-based E rating</p> <p>Owner &lt;1,000m<sup>2</sup> : consultation planned</p>

[www.ons.gov.uk/economy/environmentalaccounts/articles/ukbusinessactiononnetzeroandhistoricalenergyuse/2021-11-08](https://www.ons.gov.uk/economy/environmentalaccounts/articles/ukbusinessactiononnetzeroandhistoricalenergyuse/2021-11-08) (2021)

[www.enwl.co.uk/globalassets/go-net-zero/net-zero/reducing-carbon-reports/sustainability-perceptions.pdf](https://www.enwl.co.uk/globalassets/go-net-zero/net-zero/reducing-carbon-reports/sustainability-perceptions.pdf) (2020)

[www.enwl.co.uk/globalassets/go-net-zero/net-zero/reducing-carbon-reports/barriers-to-adoption-of-solar-pv-and-ev--charging.pdf](https://www.enwl.co.uk/globalassets/go-net-zero/net-zero/reducing-carbon-reports/barriers-to-adoption-of-solar-pv-and-ev--charging.pdf) (2020)

[www.sciencebasedtargets.org/blog/six-business-benefits-of-setting-science-based-targets](https://www.sciencebasedtargets.org/blog/six-business-benefits-of-setting-science-based-targets) (2018)

## 4) Recommended actions for North West businesses



### Summary of Electricity North West's journey to date and recommended priority actions

#### Getting started

1. Calculate baseline
2. Set targets
3. Action plan
4. Carbon literacy

#### Taking action

- 5. Energy efficiency**
- 6. Solar PV** and battery
- 7. Electric vehicles**
8. Heat pumps
- 9. Flexible services**

#### Supporting and influencing others

9. Colleagues
10. Supply chains
11. Customers

#### Sharing progress

12. Public reports
13. Your networks
14. Press and social
15. Awards





- All offices and depots
- Underway



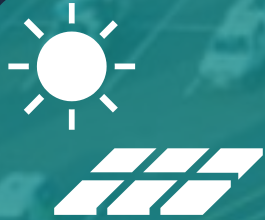
- Cost – £360k cost
- Payback – five years



- Ahead of government policy – ‘performance-based energy rating’
- Future-proofed against rising energy prices



- Mature technology
- Shorter paybacks often reported



- Roof-mounted solar PV arrays and solar car port to generate approximately 137,000 kWh per annum
- Complete on 3 of 4 roof spaces; car port to be completed



- Cost – £0.2m cost
- Payback – ten years



- Ahead of government policy – ‘performance-based energy rating’
- Future-proofed against rising energy prices



- Range of solutions for different pitches and orientations
- Structural survey
- Business rates – exemption being introduced 2023-35\*

# EVs – our strategy to lead by example



**Low carbon  
transport  
policy**



**On-site  
charging**



**Electrifying  
our fleet**



**Funding &  
incentives**



**Colleague  
engagement**



## Demand

Turning off or shifting intensive processes

Controlling heating systems like heat pumps

EV chargers

## Generation

Renewable generators

Batteries

Standby generation

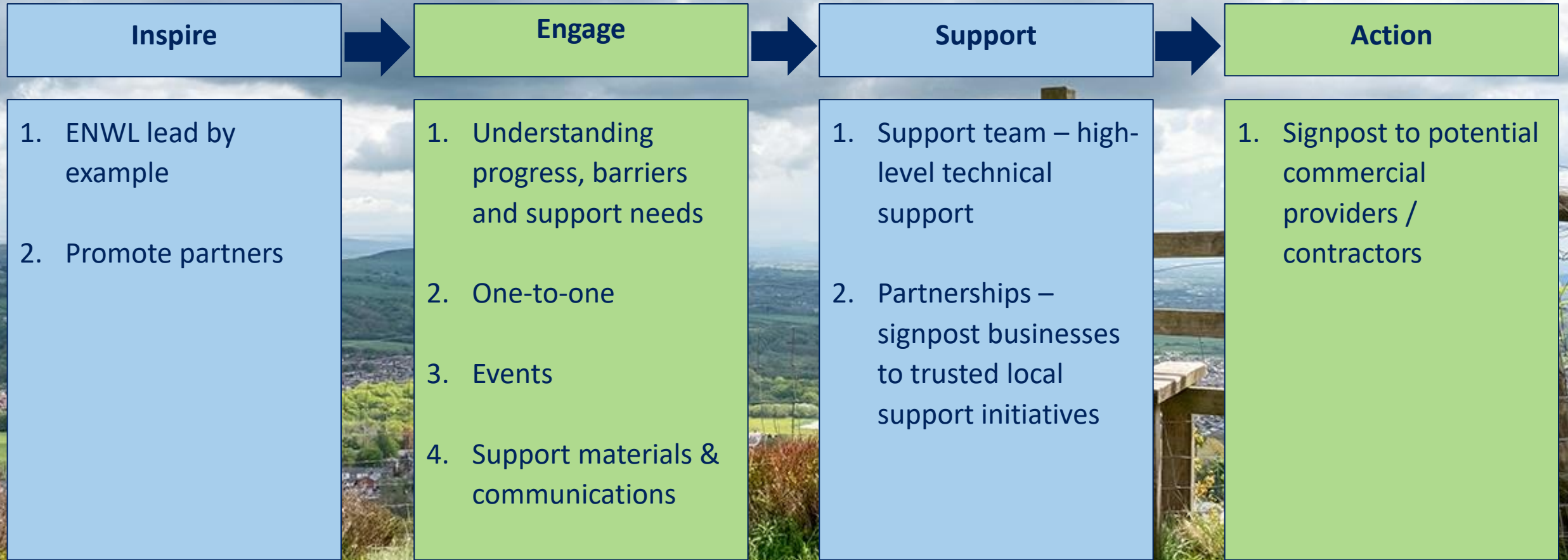
## Energy Efficiency

LED lighting

Solar panels

Insulation

# 5) ENWL Business Engagement and Support Programme



## 7) Further Information



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[Lancashire Chamber Low Carbon](#)



07825 856 377



[Cumbria Local Enterprise Partnership](#)



[Electricity North West go net zero hub](#)



[UK Zero Carbon Business Portal](#)



[Greater Manchester Bee Net Zero](#)



[Business Priority Services Register](#)