

Investing in Cumbria

Contents

Introduction from our CEO	З
Who we are and what we do	4
Investing in our region 2023 – 2028 (RIIO-ED2)	5
Cumbria's electricity network	6
Investment in your area	7
Digital and innovative investment	9
Reliability	10
Keeping bills low for customers	12
Customer Service	13
Environmental Action Plan and Biodiversity	14
Our role is changing in Cumbria	15
Enabling the region to reach net zero	16
Community and local energy	18
Contacts and more information	19



2



A note from Ian Smyth, Chief Executive **Officer at Electricity North West**



This is a really exciting time for us and for the region. It's the people who live, learn and work in the North West who we are here to serve. As well as a huge network investment over the next five years, we're also committed to delivering some of the top rated customer service scores in the country.

We'll also deliver all this investment while keeping our part of bills low, which we know is absolutely essential given the current cost of living crisis.

When you pay your electricity bill to your chosen supplier, around £123 a year comes to Electricity North West to enable this investment. We spoke to more than 18,000 customers and stakeholders to develop this plan and we know that it will deliver fantastic value for the region.

We'll continue to develop and deliver our cutting-edge engineering innovations, that will keep the network reliable, efficient and safe.

As the network operator, it's our job to make sure everyone living and working in the North West can continue to depend on the network, just as they do now. After more than three years of planning and preparing, we're excited to get the shovels in the ground and put the plans into action.

We are a safe and trusted partner



Our Licence-to-Operate is foundational - we have a strong social conscience with trust, legitimacy and reputation crucial to our operations and the communities we serve



Safety is our first and foremost priority - for our colleagues, our customers and our communities

We have a unique relationship with our customers as a single licensee - based on strong trust and legitimacy through extensive ongoing engagement.

Who we are and what we do

Electricity North West Limited is the North West's power network. We are one of Great Britain's 14 electricity Distribution Network Operators (DNOs). We are responsible for maintaining and upgrading over 57,000km of electricity network and thousands of substations across the region. We supply electricity to the diverse communities in our region which extends from Macclesfield all the way up to Carlisle. Our overhead lines, underground cables and substations bring power to 5 million people in 2.4 million homes and businesses. We invest millions of pounds in the region focusing on key areas of safety, reliability, customer service and enabling net zero.

This document highlights our work in Cumbria and aims to explain the local network and our performance in your area. All information is correct as of July 2023.

Felectricity



Our operational area

Investing in our region 2023 – 2028 (RIIO-ED2)

We are regulated by the Office of Gas and Electricity Markets (Ofgem) who provide DNOs with the licence to operate and who decide what's fair for us to charge our customers. Ofgem's current price control (known as RIIO-ED2) covers the fiveyear period from 1 April 2023 to 31 March 2028.

Over the next five years we're investing \pounds 2bn in the region's infrastructure to keep electricity flowing and meet the increasing needs of the region. That's more than \pounds 1m a day - the largest ever investment in the network!

This includes new investment in the operation, maintenance and upgrading of the region's electricity network to support our customers in their transition to adopt low carbon technologies such as electric vehicles, heat pumps and solar panels. We will also reduce our customers' time without power during a power cut by 20%. We will also be investing a significant amount in enhancing our customer services and supporting those in vulnerable circumstances. Support will include helping customers in power cuts, helping those in fuel poverty and ensuring that no one is left behind in the green transition. We'll invest in world-leading innovation and technology and continue to be the most digital network operator in Europe. The investment will also enable the continued development of our awardwinning apprentice scheme and create hundreds of jobs directly and as part of our supply chain.

Electricity North West's business plan 2023-2028 can be found here:



We are a safe and trusted partner

We are an employer of choice in the North West - with a strong focus on attracting, developing and retaining a diverse and inclusive talent pool.

Our RIIO-ED2 investment in numbers



Cumbria's electricity network

We own and operate the network of towers, transformers, cables that carry electricity from the national grid and distribute it throughout the North West. We take the high voltage electricity and lower the voltage in order to make it safer to use in homes and business. Our network in Cumbria consists of overhead lines and underground cables that keeps your life running every day.



The map below shows our Cumbria network. Due to the layout of the electricity network in the North West our Cumbria boundary includes parts of North Yorkshire and Lancaster.





Investment in your area

Cumbria Ring project



Relectricity

Other investment projects

Egremont substation

Egremont substation is equipped with 2 x 90MVA 132/33kV transformers and supports supplies to over 28,000 customers.

Following condition assessment of the transformers, it was confirmed that they were in a poor condition and approaching end of life. We have decided to replace these two transformers before any in-service failure.

Borrowdale transformers

We will replace over 200 small rural substations with standard modern protection. This will reduce faults and improve electricity distribution reliability in the area. Many of the substations are now reaching the end of their design life and their condition is starting to deteriorate. We will progressively replace all of these substations with safer equipment, with 50% replaced by 2028 and the remainder by 2033. The prioritisation of the replacement will be based on the condition of the equipment. **E8.9m** Cost Customers Expected

supported

28,000

Customers

supported

£4.964m

Cost

March

2028

Expected

completion

completion

Longtown Brampton Silloth Wigton Aspatria Manyport Workington Cockermouth Keswick Whitehaven Egremont Egremont Cockermouth Reswick Manbleside Bowness on Windermerel Kinkby Stephen Millom Dafton-in-Furness Barrow-in-Furness Barrow-in-Furness Barrow-in-Furness Barrow-in-Furness Barrow-in-Furness Barrow-in-Furness



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Digital and innovative investment

We are the most digitally advanced network in Europe - through our Network Management System (NMS) and our network connectivity model



We are innovative - delivering the most innovation of any company in our sector

 Digitalisation and innovation are key enablers - unlocking net zero delivery at pace.

Smart Street

Using innovative voltage control technology, Smart Street will enable our networks and customers' appliances to perform more efficiently and make it easier for low carbon technologies to connect to the electricity network improving energy efficiency and reducing bills for 250,000 customers.



LineSIGHT

Faults on rural networks can sometimes cause overhead power lines to hang low whilst remaining live, which also creates a public safety hazard. New technology developed by Electricity North West will enable the detection of damaged equipment earlier and help us to pinpoint the location of faults, enabling more efficient despatch of repair crews.



CLASS

Our award-winning CLASS project uses innovative voltage control to reduce demand for electricity without customers noticing a difference to their service. CLASS (Customer Load Active System Services) is a low-cost solution which uses voltage control to manage electricity consumption at peak times. By installing cutting edge 'voltage controllers' in our substations we could save customers in the North West around £100 million over the next 25 years.



A bespoke incentive mechanism that aims to drive a transformational change to reduce the disruption of our emergency street works on customers. This is a proposal formed and led by our customer and stakeholder feedback. Reducing disruption by accelerating emergency street works to below five days on average.



Reliability

We measure the reliability of our network by looking at how frequently and for how long faults occur on our network

We recognise our responsibility to provide a reliable and safe network for our customers. When our customers do experience a loss of power due to planned investment, maintenance or faults we try to restore power as quickly and safely as possible.

When your power goes out, it is our top priority to get you back on as quickly as possible. The time this takes is influenced by factors such as:

- Type of the fault underground cable or overhead line
- Location
- Adverse weather it may not be safe for our engineers to work
- Cause of fault.

On average you may experience power cuts more frequently in certain areas. The information collected from power cuts is used to help inform our investment to carry out reinforcement and replacement work on the network to reduce the frequency of power cuts. In the 2022/23 regulatory year, Ofgem record that our performance for reliability across the whole of the North West was the best of any DNO, also exceeding their targets by more than any other DNO.

Average duration of power cuts in Cumbria and North Yorkshire



Average time between power cuts in Cumbria and North Yorkshire





We deliver for consumers



We are customer focussed - understanding the communities we serve, meeting and anticipating our region's needs, driving both social and economic value



We are high performing - delivering for our customers consistently as assessed by Ofgem.

Keeping customers' bills low



Providing excellent value for money - with high performance and our part of the electricity bills remaining low

'Value for money' is key

Electricity North West provides high value for consumers through efficient cost benchmarking



Celectricity

Customer service



We know every household's needs are different - that's why our Extra Care support is led by you.

Our flexible approach means we can act to support a variety of challenges your household faces, with a personal and supportive service. Extra Care register is the new name for our priority services register.



Scan the QR code to sign up to our Extra Care Register

We are committed to providing the highest quality of customer service for our region.

If you're in a power cut, our Extra Care Register helps us to keep you safe and informed until the power is back on.

Notice of planned power cuts	Regular updates while your household is without power.
Weather updates	Earlier weather warnings to help you plan and prepare.
Nominated contact	Nominate a friend or family member for us to keep updated in the event of a power cut.
Password sign up	Register a unique password so if we ever need to visit you at home you feel safe knowing we are who we say we are.
Additional support	We can provide accommodation, hot meals or additional services to help support your individual needs.

For extra care, extra support, extra help when you need us most... Find more information and sign up here www.enwl.co.uk/extracare **Prefer to chat?** Call us for free on 0800 195 41 41

Take Charge

We've teamed up with Citizens Advice and Energy Saving Trust to bring you Take Charge, a free impartial advice service that's available to all households in the region. From local charities to strategic partners, we're proud to work with, support and invest in organisations which make a huge difference to thousands of lives throughout the North West.



Scan the QR code to Take Charge

Environmental Action Plan and Biodiversity



Improving sustainability by looking after the environment across our region

Our biodiversity action plan, part of our Environmental Strategy, increases the biodiversity of the land we manage. We have identified more than 100 sites where we can make significant biodiversity improvements. The sites are largely grassland and woodland and we've carried out surveys to assess their current state so we can track the level of uplift we provide. We will cut the sites bi-annually and leave the cuttings on site in a dedicated area to promote wildlife habitats.

We will also take care to look for nesting birds and protected species and the cuts will be completed at specific times of the year to help the native wildflowers and grasses flourish. The programme has been designed in line with the government's 25-year plan which requires a biodiversity net gain of 10%.



Scan the QR code to view our Environment report



Improving our management of trees near overhead lines

Our teams of trained arborists and surveyors will increase inspections of vegetation near overhead lines in ED2, and work collaboratively with landowners to prune, fell and dismantle more trees at risk of damaging our network.

In ED2, we plan to address the impacts of diseased trees, particularly Ash Dieback – a highly destructive disease caused by a fungus – which causes ash trees to weaken. This poses a greater risk of falling onto overhead lines with consequent impacts on power cuts and safety.

We have also reviewed the number of trees that we cut down during our proactive vegetation management activities. While most trees are pruned or coppiced by our skilled arborists, some trees do need to be fully cut down. Due to the need to fell diseased trees affected by Ash Dieback, during ED2 we may have to cut down up to 10,000 trees per year. We plan to work with partners to plant 10,000 trees in our region per year over the 2023 to 2028 period.



Our role is changing in Cumbria...

DSO, Flexible Services, Connections

The electricity distribution landscape is changing rapidly as we move towards a net zero carbon future. The traditional one-way flow of electricity from large generation sites to homes and businesses is being replaced by a more complex, multi-directional network that includes distributed generation such as wind turbines and solar power. as well as electricity storage and electric vehicles.

To meet the challenges of this changing landscape, we are evolving and enhancing our Distribution System Operation (DSO) processes. This includes planning and forecasting, which predicts the impact of customer choices and societal changes to inform where network development is required and where there are opportunities for flexible services.

Flexible services can help to balance the network and reduce the need for costly and time-consuming reinforcement. We do this by compensating consumers and generators for utilising their electricity differently in a way that benefits the network. For example, consumers may be incentivised to adjust their electricity usage during peak periods, or energy storage systems may be asked to store excess renewable energy for later use. In our most recent tender for flexibility, we had 127 requirements in Cumbria across 18 locations where we were seeking capacity of 493 MW and offering flexibility providers over £5m.

Our whole-system approach to electricity distribution involves collaborating with local authorities to develop Local Area Energy Plans (LAEPs). Their primary goal is to outline the most efficient and economical route for decarbonisation, providing a clear action plan for the local area. We're supporting local authorities by providing technical support, and transparent data.

By actively engaging with stakeholders, we're ensuring that decisions are made in collaboration and are aligned with the priorities of the region. This includes regular consultations, workshops, and feedback mechanisms that enable us to gather valuable insights and incorporate them into our planning processes.





HABC UK

Enabling the region to reach net zero

As the region's network operator, it's our responsibility to enable the transition to net zero and provide a smart and flexible network which meets the changing needs of our customers and supports a low carbon economy across the North West and Cumbria.

Our target is to reach net zero as an organisation by 2038. We are committed to enabling and facilitating our regional stakeholders to reach their own regional targets.

Preparing our network

To make sure our network can meet the extra demand and to adapt to the unparalleled changes we expect to see, we are implementing plans now to ensure customers can continue to enjoy one of the most reliable electricity networks in the UK, at the lowest possible cost.

Our 2023-2028 business plan will ensure that the network is ready for the 630,000 electric vehicles expected to be on the North West's roads as well as the significant increase in the installation of electric heat pumps.

We are doing this by increasing capacity and flexibility, investing in digital technology and developing innovative solutions to deliver more efficient ways of working.

Windermere electrification project

This £1m power network upgrade project, planned in partnership with Westmorland and Furness Council and Cumbria Tourism, will create crucial new capacity in the local electricity grid to enable the installation of Windermere's first electric ferry as well as new electric vehicle charging points in town. The work we are carrying out is a major investment for the town and hundreds of thousands of visitors, residents and businesses will benefit in the future from both the ferry and car charging points.





Inspiring and enabling our customers to take action on net zero

We provide information, advice and guidance to customers and businesses to help them take action to reduce their energy bills and carbon emissions.

We do this via help and guidance on our Future Energy Hub, net zero events, for example the 'leading

Overall, knowledge about net zero appears to be highest amongst those working in the construction sector.

the charge event' that we delivered in collaboration with Cumbria Tourism in March 2023, and by undertaking research and insight into the challenges, barriers and progress that customers are making so we can fully understand how we can best facilitate and support the transition.



Scan the OR code to sign up to our Extra Care Register





Construction: 60% Manufacturing: 55% Information & Communication: 55% Office administration: 46% Professional 40% Wholesale & retail: 36%

Micro: 43% Small: 53% Medium:

65%

Size

Awareness levels are almost identical to a recent survey published by BEIS The results indicate that 46% know a lot or fair amount about net zero.





Correct as of July 2023.

We deliver for consumers



We support net zero delivery at pace - we are enabling this, leading by example in the decarbonisation of our own activities.

Leading by example

We are committed to reaching net zero as an organisation by 2038 by transforming our estate to be as energy efficient as possible and by using onsite and off-site generation to meet our energy demand. Our fleet is adopting electric vehicles and making it easier for colleagues to do the same with our sustainable transport policy.

We became the world's first 'carbon literate' power network operator after receiving bronze accreditation from the Carbon Literacy Project in 2019 and silver accreditation in 2022. We are now working towards gold accreditation.

Community and local energy

Community energy refers to local and community led projects or initiatives to reduce, manage, generate or purchase energy. This covers so much, from providing energy saving advice to installing solar panels, heat pumps and electric vehicle charging points.

As the name suggests, community energy projects are often run by local community groups. There are lots of different groups and organisations involved in community energy projects including local authorities, housing associations, intermediary or advisory organisations and local businesses. Some local energy projects may have a commercial aspect, but are also likely to benefit their local area and community. We have awarded almost £500K since the inception of the Powering our Communities Fund.

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Scan the QR code to view the Powering our Communities Fund

Case study: Solar Made Easy

This project is aimed at supporting owners of small properties to progress solar PV installations. It will include commissioning a solar PV map of rooftop potential of each community.

The idea for this project was initiated in Ambleside and is already being introduced to Kendal, Arnside, Levens, Duddon and Keswick.

This project will expand to at least two new communities to tackle some of the current barriers to solar panel installation in Cumbria which are: inertia from households who don't know where to find good quality installers; a busy installer base who don't always have time to quote for smaller projects. This project addresses both barriers by vetting and partnering with high quality installers and aggregating demand from communities through the solar mapping process and making the introduction.

Electricity North West has supported this project with a £15,000 Powering Our Communities grant. This project is hoping to instigate significant numbers of solar panel installations both in domestic properties and community buildings.



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Contacts and more information

For more information visit **www.enwl.co.uk/stakeholderengagement** Stay connected...www.enwl.co.uk / 0800 195 41 41





Scan the QR code to sign up to our stakeholder newsletter

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