

February 2025

Cross Party Group on Renewable Energy and Energy Efficiency



Introductions

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Who are SP Energy Networks?

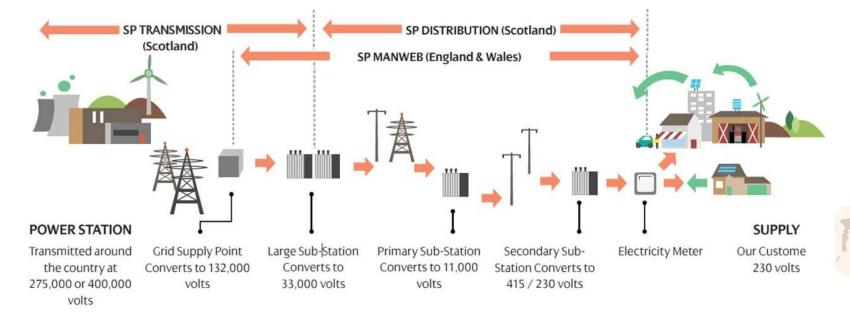


SP Energy Networks is part of the Scottish Power Group.

Our role is to maintain, operate and invest in our network to secure a safe, reliable, and economic service for current and future consumers.

We transport electricity to homes and businesses as a Distribution and Transmission Network Operator.



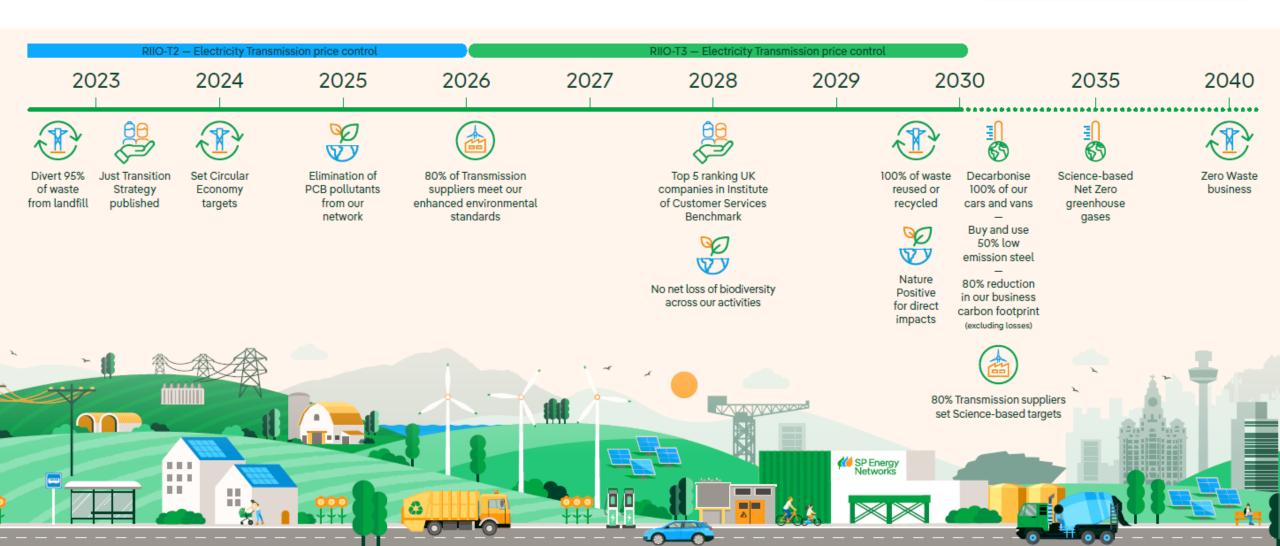


RIIO-T3 – what is it and why it's important?



- RIIO Revenue= Innovation + Incentives + Outputs
- As a regulated business, our business has 5 year business planning cycle

The roadmap below shows our sustainability goals and targets on our journey to 2040.



Transmission - vital infrastructure



- GB electricity grid needs the biggest rewiring ever seen.
- It is estimated that consumption will increase 50% by 2036 and more than double by 2050.
- SP Energy Networks are taking a pragmatic approach:
 - Upgrading lines and substations making them fit for the next
 100 years
 - Getting the most out of existing assets by uprating the voltage of current lines and utilising smart technology.
 - Offshore options are being developed with a number of subsea cables in development to bolster the system.



RIIO-T3 delivering CP30 and economic growth



Our RIIO-T3 business plan sets out our ambition to meet net zero, boost the GB economy, meet CP30 targets and protect GB consumers

- SP Energy Networks has committed £10.6bn plan to deliver the critical electricity infrastructure, connecting 19GW to the grid, leading to a £167 saving per household every year by 2030 (SPT's part of the bill will be £12.07)
- This plan will deliver new and upgraded transmission infrastructure in central and southern Scotland, including:
 - 12 new major transmission substations,
 - 450km of upgraded existing circuits,
 - 87km of upgraded overhead lines
 - 35km of underground cables all to help increase capacity on the GB transmission grid to meet demand.
- Independent economic analysis shows that SP Energy Networks T3 could create sustained economic benefit to the UK of around £2bn per annum.
- SP Energy Networks plans to double its transmission workforce.
- Secure and resilient supply Maintain current reliability at 99.999%







How we will deliver



Our organisation, workforce VALUE INFRASTRUCTURE VALUE New FTE roles. Increase in in-house Value of contractual framework with (majority relating training capacity with and supply chain to project delivery) a new training centre strategic £5.3bn partners Engaging with our stakeholders VALUE SERVICE SERVICE Fund proposed to Globally recognised Three distinct stakeholder engagement support clean energy engagement themes and supporting communities ambitions of local (infrastructure delivery, standards communities and connections) communities **Embedding digitalisation** VALUE INFRASTRUCTURE RESILIENCE Four pillars for Excellence against all Investment in 11 principles of Data our data and and becoming a data-driven improvement to digitalisation meet the intensity Best Practice £94m organisation of RIIO-T3 programme **Nurturing and** VALUE INFRASTRUCTURE RESILIENCE Exploring higher Funding for 3 out of Innovation deployed in BAU every 4 projects to risk innovation deploying innovation explore experimental >£380m >£22m >75% innovation Being a sustainable, VALUE VALUE INFRASTRUCTURE Carbon footprint Supply chain All waste reused reduction relative or recycled with greenhouse responsible business to 2018/19 gas emissions 66% reduction target







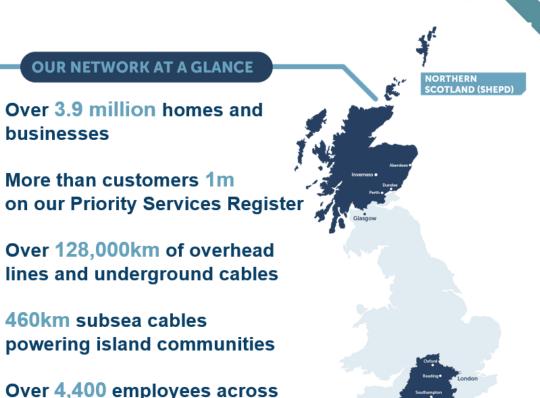


ABOUT SSEN DISTRIBUTION

One of six DNOs in Great Britain, our electricity distribution network delivers power to over 3.9 million homes and businesses across the diverse and unique geographies of the north of Scotland and central southern England.



In line with our purpose and vision, we recognise our critical role in delivering a net zero future at a local and regional level and accelerate progress in the Government missions to **kickstart economic growth** and **make Britian a clean energy superpower**.

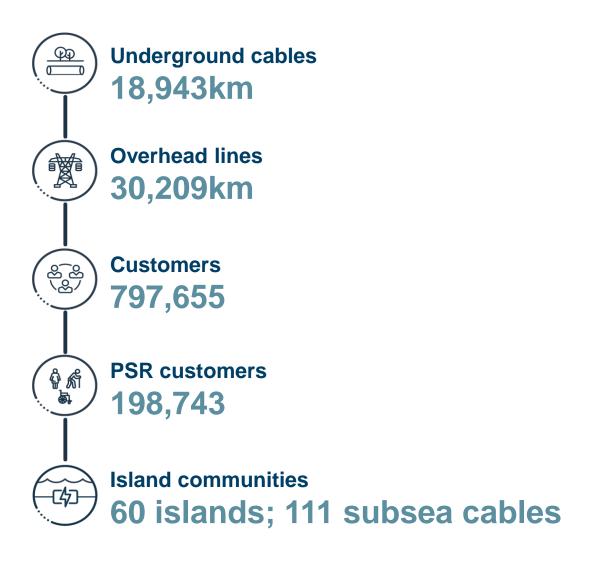


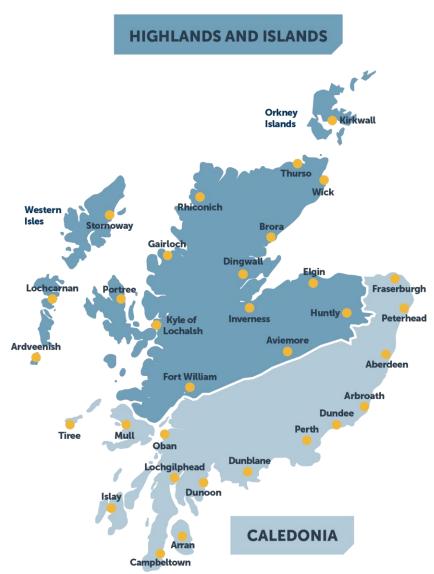
the country





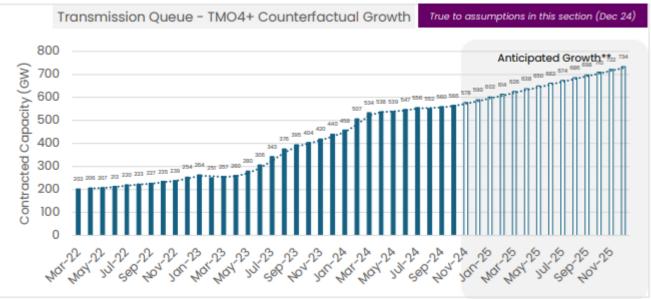
OUR NORTH OF SCOTLAND LICENCE AREA

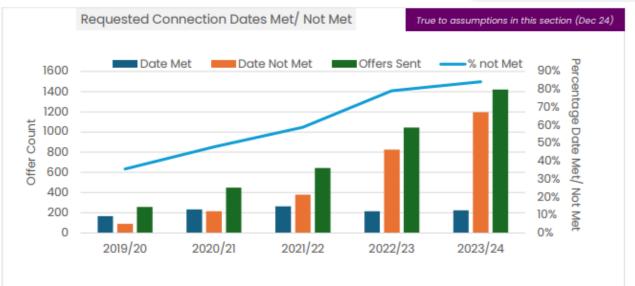






DRIVERS FOR CONNECTIONS REFORM





- We have an oversubscribed Transmission queue in GB. There is vastly more in the queue than needed for 2050 net zero targets.
- Connection dates offered for Transmission capacity now likely to be late 2030s/early 2040s.
- Some projects ahead in the queue are not progressing and holding up other projects behind in the queue which could progress.
- This risks delivery of Government's Clean Power 2030 targets.
- This affects distribution customers if they have or are applying to install generation or storage that is:
 - ≥1MW in England & Wales
 - ≥200kW on Scottish mainland
 - ≥50kW on Scottish Islands



GB ENERGY: LOCAL POWER PLAN



Since the announcement of the Local Power Plan, we've been working closely with stakeholders, including the DESNZ team to understand the potential impact on the distribution system and how we can support effective delivery.

Unlocking the Local Power Plan:

- Huge opportunity to deliver meaningful community energy projects <u>Distribution can be an enabler</u>
- o 8GW+ new capacity requires major network reinforcement coordination is critical
- Local Authorities and DNOs must play a key role in strategic planning <u>aligning with LAEPs</u>

Delivering accelerated and low-cost connections for community energy projects will require:

- 1. <u>Strategic network planning with DNOs</u> to locate community projects where there is existing planned reinforcement / existing capacity.
- 2. <u>Network data analysis</u> to plan and optimise the balance of demand and generation through the proposed technology mix so that projects can be sited in areas of high demand.

•••• LOCAL ENERGY NET ZERO ACCELERATOR (LENZA)

SSEN is playing an industry-leading role in the development of LAEPs through our geospatial planning tool, LENZA

- Innovative free tool offered to all LAs in 2023; first DNO to do so
- Links network and spatial planning, aiming to accelerate LAEPs
- 90% of SSEN LAs are now using system, with SSEN Net Zero team providing dedicated support to each LA
- LENZA has been called a 'gamechanger' by users but LA capacity still mixed

Electricity and Gas network data

Renewable potential data

Building data

Socioeconomic data



Local Area Energy Plans

For local authorities and energy hubs, LENZA helps to:



Lower barriers to entry for creating a Local Area Energy
Plan



Prioritise decarbonisation plans aligned to network capacity and planned investment



Accelerate the production of datadriven, digitalised LAEPs The LENZA tool and LAEP progress helps SSEN to:



Extend our visibility of how load on our network is likely to evolve



Channel local insight into our strategic planning and investments



Advise stakeholders of our plans, and coordinate early and often



RESILIENCE AND STORM EOWYN RESPONSE

- 92k customers restored
- 95% within 48 hours
- 600+ points of damage to network
- 90+mph wind gusts
- 24.5k calls received
- 467k PowerTrack visits
- 170k PSR pre-warn engagements
- 7,000 meals served to customers
- 9 all-MP and MSP updates
- 142 media coverages
- 115k views of Facebook content
- 70% positive or neutral sentiment on social media

CUSTOMER RESTORATION AND NETWORK RECONSTRUCTION

Wind gusts of 91mph recorded in Islay
Ten-fold increase in resource ahead of event
632 operational colleagues deployed
7,000 switching operations completed
580 High Voltage and Low Voltage faults
Over 600 points of damage on our network
62 mobile generators deployed
NEWSAC activated enabling DNOs to share operational resources
Throughout Storm Éowyn, we received 21 contractors from UKPN
and provided 120 to NIE

92,463 customers restored 86.2% within 24hrs 95.3% within 48hrs 90% within ETR policy 6 SGoRR(M) meetings attended 30 Local Resilience Partnership meetings attended

<u>CUSTOMER</u> AND WELFARE

169,644 PSR customers contacted before event 14,969 PSR customers contacted during event Almost 160 home visits to PSR customers 30,000 incoming enquiries Average call waiting time of 1 minute 8 welfare vans deployed 20 local businesses serving on our behalf 7,000 hot meals served during event Almost 500,000 visits to PowerTrack

70% positive sentiment

115,000 customers reached via Facebook

16,746 digital messages received with an average response time of 4 minutes

<u>EXTERNAL</u> <u>ENGAGEMENT</u>

11 press releases issued
4 broadcast interviews conducted
9 updates issued to MPs and MSPs
8 constituency-specific political updates issued
4 individual MP and MSP briefings held
8 updates issued to local authority stakeholders
12 bespoke social media videos produced
Proactive, continuous social media updates issued
Targeted engagement with MPs and MSPs in
the most impacted areas across Scotland