CARBON REDUCTION PLAN

UK Power Networks Services

January 2026

UK
Power
Networks
Services
Delivering a bright energy future

Commitment to achieving Net Zero

UK Power Networks is committed to achieving Net Zero emissions by 2040

Progress so far

In our RIIO-ED1 Business Plan we set ourselves an overall target to reduce our Business Carbon Footprint by 2% for each year of the RIIO-ED1 price control period. This amounted to a 16% total reduction against our baseline year of 2014/15 by 2022/23. We achieved a reduction of 35.9%, significantly ahead of this target.

We have also developed challenging science-based targets initiative (SBTi) and reset our baseline to FY 2019.

Our targets validated by the SBTI are:

Overall Net-Zero Target: UK Power Networks Holdings Ltd commits to reach net-zero Greenhouse Gas (GHG) emissions across the value chain by FY2040.

Near-Term Targets: UK Power Networks Holdings Limited commits to reduce absolute scope 1 and 2 GHG emissions 53.1% by FY2029 from a FY2019 base year. UK Power Networks Holdings Limited also commits to reduce absolute scope 3 GHG emissions 25% within the same timeframe.

Long-Term Targets: UK Power Networks Holdings Ltd commits to reduce absolute scope 1 and 2 GHG emissions 90% by FY2040 from a FY2019 base year. UK Power Networks Holdings Ltd also commits to reduce absolute scope 3 GHG emissions 90% within the same timeframe.

We have ISO 14001 and are working towards PAS 2080 certification. Our Supply Chain is also required to adhere to a Code of Conduct. This Code of Conduct represents an agreement between UK Power Networks Services and our suppliers to live up to the standards of ethical conduct that our clients rightly expect of us – so that clients can have confidence that the Code of Conduct is being applied and monitored effectively, we will report annually on its implementation – and our suppliers will provide evidence to show how they have lived up to the code.

Emissions reduction targets

In 2022 we launched our Environmental Action Plan which explains how we will address the environmental impacts of our network and business operations during the Control Period 2023-2028 and how we will drive improvements in our environmental performance throughout this period.

Commitments:

- For our full carbon footprint, we will deliver our reduction target approved by the Science Based Target Initiative at 1.5℃.

- We will reduce our directly controllable carbon emissions (scope 1 and 2 emissions, excluding losses) by 53.1% by FY2029.

- Working with our suppliers, we will reduce supply chain carbon emissions (scope 3) by 25% by 2028.

This document sets out the Carbon Reduction Plan for UK Power Networks Services in response to Public Procurement Notice (a) 06/21.

This plan covers UK Power Networks Services UK operations and the requirements of PPN 06/21.

Baseline Emissions Footprint

Baseline Year: 2018/2019

Additional details relating to the baseline emissions calculations as per PPN 06/01 requirements.

We have identified calendar year 2018/2019 as the baseline year for measuring carbon reductions against. We have used GHG protocol operational control methodology to determine our baseline for our Scope 1, 2 and 3 emissions.

For Scope 2 emissions, the GHG protocol's location-based methodology has been used. The selected Scope 3 category data is comprised from GHG calculations from actual and estimated data.

For both Upstream and Downstream transportation, we have used an estimation methodology to arrive at the baseline total. The baseline has been established to measure compliance with PPN 06/21.

We comply with the UK Government's Streamlined Energy and Carbon Reporting (SECR) requirements. We are taking steps to reduce our Scope 1, 2 and 3 greenhouse gas emissions and reliance on fossil fuels through the use of energy efficient technology, renewables, processes and algorithms that have been developed in-house to assist decision making and to drive sustainability performance improvement.

Our carbon reduction strategies for Scope 1 and 2 and all Scope 3 categories are detailed within our Environmental Action Plan. The table below excludes network losses.

Year 18/19 – Baseline Year Emissions		Year 24/25 – Current Year Emissions		Reductions	
Emissions	Total (tCO2e)	Emissions	Total (tCO2e)	tCO2e Reduction	% Decrease
Scope 1	33,019	Scope 1	30,613	-2,406	-7.2%
Scope 2	15,974	Scope 2	11,339	-4,635	-29%
Scope 3	268,606	Scope 3	255,686	-10,629	-4%
Total Emissions	317,599	Total Emissions	297,638	-19,961	-6%

Our Carbon Reduction Projects

Northumberland County Council

Northumberland CC required a solution to help them install Electric Vehicle chargers without losing space for other vehicles.

We delivered a carport solar solution. Key Highlights include:

- 800 kW Solar Array Carport
- 400 kW battery energy storage
- 100 Fast Chargers & 20 rapid chargers Including some within accessible spaces.

This Solar panels and battery storage will be used to power the main building, and the EV charger points for the staff and fleet vehicles. This solution has:

- Optimised energy use and reduced costs
- Reduced carbon emissions
- Delivered without compromising existing space.

Port of Felixstowe

Ports have traditionally relied on red diesel to power heavy machinery. To cut emissions and improve efficiency.

We delivered a three-year project to upgrade the port's 11,000-volt network. Key highlights include:

- 17 new electric gantry cranes powered by eight new substations.
- 48 electric tugs supported by a dedicated EV charging facility and two substations.
- A 1.4 km HV cable route laid beneath the port's busiest access roads using innovative horizontal directional drilling (HDD) to avoid disruption.

Environmental protection was a top priority:

- Nesting birds were protected through pre-season habitat clearance.
- Contaminated soil was safely removed and disposed of.
- UXO (unexploded ordnance) risks were carefully assessed before drilling near historical military areas.

Our Long-Term Environmental Objectives

We have long-term decarbonisation objectives that extend out to beyond 2050

- For our full carbon footprint, including scope 3 emissions, we will exceed our reduction target validated by the Science Based Target Initiative at 1.5°C and seek to achieve Net Zero for our full carbon footprint by 2040.

- We signed the Business Ambition for 1.5°C Campaign and have now re-validated our Science Based Target at 1.5°C (ahead of the current re-verification cycle) and to move to the new Net Zero Standard. This has been achieved.

- For our directly controllable carbon emissions (scope 1 and 2 emissions excluding network losses), we will exceed our reduction target, consistent with a science-based target pathway of 1.5°C. This is consistent with the science-based decarbonisation targets that we have set for period 2023-2028, but is not validated by the SBTI as it excludes network losses.

	2020'S	2030'S	2040'S	2050'S
CIRCULAR ECONOMY	✔ Zero recoverable waste to landfill by 2025. ✔ 80% office, depot & network waste recycled by 2028 ✔ 99.5% street works waste recovered by 2028 ✔ Circular Economy Tool	✔ Circular economy model incorporated with material suppliers ✔ Upstream waste streams reduced ✔ Downstream wastes minimised	✔ Downstream wastes eliminated ✔ Upstream waste minimised	✔ Zero waste company
OPERATIONAL CARBON	✔ SBTI target verified for all scopes (including supply chain & losses) ✔ 28% reduction in tCO2e all scopes ✔ 61.8% stretching reduction target for key operational emissions (Fleet, Temporary Generators, Buildings) ✔ Net Zero for operational emissions 2028 ✔ Verification of Net Zero plan for all emissions ✔ 60% of fleet Electric Vehicles ✔ Embodied carbon tool created	✔ Re-validation of SBTI ✔ Fleet zero emission ✔ High quality offsets ✔ Embodied carbon targets ✔ SF6 alternatives	✔ Net Zero for all emissions scope 1 & 2 including losses by 2040 ✔ supply chain by 2040 with carbon offsets	✔ SF6 replacement ✔ Working toward carbon negative
NATURAL CAPITAL	✔ Biodiversity Net Gain tool in place ✔ 100 existing sites net gain improved by 30% ✔ New primary grid sites net gain increase 10-20% ✔ Urban tree planting ✔ Partnerships with Wildlife Trusts ✔ Natural capital tool & opportunities identified	✔ Natural capital improvements embedded in network ✔ Biodiversity net gain embedded	✔ Natural capital improvements embedded in supply chain	✔ Net positive impact on biodiversity
POLLUTION	✔ A 33% decrease in NOx emissions ✔ FFC oil leaks reduced by 15%	✔ NOx emissions from fleet zero ✔ NOx from generators & non mobile plant significant decrease ✔ FFC replacements continue to reduce bank & improve leak rate	✔ NOx emissions eliminated in operations ✔ FFC replacement cable accelerated	✔ NOx emissions eliminated in supply chain ✔ Oil leaks minimised

Deliver a Sustainable Network

Supply Chain Code of Conduct

Enabling the net zero transition for all through our supply chain.

We have the following mandatory requirements for our supply chain:

1. Report carbon and meet targets for carbon reduction.

2. Recognise formally the value of sustainability.

3. Support/facilitate the low carbon transition in a cost-efficient and just manner for the betterment of society.

4. Minimise waste, targeting zero recoverable waste to landfill.

5. Reduce virgin material usage, single-use plastics and incorporate waste back into the value chain.

We have the following focus areas for our supply chain:

1. Have a clearly-defined path to reduce your GHG emissions that's timebound – where possible this should be Science Based Targets accredited and reported upon.

2. Move to 100% renewable electricity as soon as practicable, supplies will be Renewable Energy Guarantee of Origin certificated.

3. Reduce large carbon emission factors as far as possible (e.g. reducing fuel usage by adopting electric vehicles).

4. Explore your supply chain carbon impacts and apply supply chain circular economy principles where possible.

5. Contribute and proactively propose initiatives and good practices for social value when delivering large projects.

6. Explore biodiversity net gain and undertake initiatives, proposals and improvements.

Declaration and sign-off

The Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard 1 and uses the appropriate Government emission conversion factors for GHG company reporting.

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard.

This Carbon Reduction Plan has been reviewed and signed off by the UK Power Networks Services executive team.

Signed on behalf of UK Power Networks Services:

David Mitchell
Director of UK Power Networks Services

We are committed to taking practical action, measuring our progress transparently and working collaboratively to support the transition to a low-carbon future.