

Status of EAP commitments

Air Quality – compressor emissions

We will work to reduce our NOx emissions from the business by the end of RIIO-2 and beyond. This includes replacing some of the most-polluting compressors on our network with cleaner technologies, improving local air quality.

Stakeholders value our work on reducing emissions to improve local air quality and believe we should get on with it as soon as possible. Domestic consumers also consider air quality to be important.

EAP commitment	Description and expected benefit	Baseline	Implementation milestones	RAG indicator	Status update
Enable reduction in NOx emissions per hour of gas turbine running from the business by the end of RIIO-2.	Reduction dependent on supply and demand patterns, based on 2015 – 2019 (RIIO-1 period) this would be in the region of 10% during RIIO-2. Delivery of new compressors measured through price control deliverables	Average for RIIO-2 compared to the average for RIIO-1	Maintaining and operating our BAT equipment as the lead units for compression.		Status update provided in the full report.

Status of EAP commitments

Climate change – our climate commitment

Our key commitment in this space is to develop a science based target by 2023. Science based targets are industry best practice and are carbon reduction targets. However, developing the target is no easy task, and is particularly challenging for the gas industry where routes to decarbonisation are unclear. While we are developing the target we are setting out a package of commitments that begin to help us to reduce our carbon footprint.

EAP commitment	Description and expected benefit	Baseline	Implementation milestones	RAG indicator	Status update
Reduce methane emissions (CO ₂ e) from leaks on the network during RIIO-2	Establish a baseline for methane emissions leaks on the network through improved monitoring during RIIO-2 and use that information to understand how to begin to reduce these where possible	Baseline to be established in RIIO-2. Kg of CO ₂ e per mcm transmitted / Tonnes of CO ₂	The MER campaign will focus on three key areas: <ul style="list-style-type: none"> Implementation of enhanced capability mobile natural gas recompression technology Enhanced fugitive natural gas leak detection Quantification, and acceleration of trials of methane emission reduction technology for the compressor machinery train. 		<ul style="list-style-type: none"> Gas Transmission have been working with OFGEM to achieve additional funding for a Methane Emissions Reduction Campaign Formal submission of proposals to OFGEM will take place at the end of September
Replace 100% of our operational vehicle fleet with alternative fuel vehicles (AFVs)	To reduce carbon emissions from operational transport by 22% on RIIO-1 averages to end of RIIO-2. Currently, this results in 30% of our operational fleet that will be delivered through purchasing 80 vehicles and install charging points at 45 sites	Baseline 2019_20 1,608 or 1,748 tCO ₂ e	Refer to main report for full details.		<ul style="list-style-type: none"> Work will be continued to work with our manufacturing suppliers to determine how to proceed with the vehicle replacement programme.
10% carbon emissions reduction in business	Reduce carbon emissions for our business transport by 10%	Baseline 2019_20	Reduce vehicle use by promoting rail and virtual meetings, promote EVs on company		2021_22 494 tCO₂

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transport (tonnes of CO2e)		748.05 tCO2e	car scheme and install Electric car charging points at compressor sites		Increased from 331 in 20_21 due to relax of covid restrictions
20% reduction in office energy	Reduce carbon emissions from our office energy use by 20% from 2019/20 baseline	996 tCO2	Optimisations on existing plant and equipment (adapting heating/cooling setpoints, modifying control strategies, etc) being prioritised whilst OES is finalised.		2021_22 33,612 tCO₂ Increase from 33,323 in 20_21 due to relax of covid restrictions. Planned asset replacements incorporating significant degree of energy efficiency and sustainability focus built into HFMS/SFMS contract retenders.
Purchase 100% of electricity for our offices from renewable sources by 2026	# sites with renewable generation OR kWh generated		TBC		
Continue to participate in the EU-ETS and use as an opportunity to provide focus on our CO2 emissions across the business	Continue to follow in-house processes for 1st, 2nd, 3rd line assurance of direct carbon emissions from permitted sites		Commitment to a behavioural drive		Refer to main report for further detail
Achieve carbon neutral construction for major projects starting in RIIO-2, Further implementing PAS20260 and PAS2080	tonnes of CO2e in construction in 2026		Based on current business assumptions that 26,000tCO2e can be offset with up to £310k. This would include projects such as Wormington compressor and Bacton terminal in RIIO-2. Investigate potential for Bacton Redevelopment as a Carbon Neutral Site Compliance to PAS2060 and PAS2080 Construction tonnes of CO2e in 2026		

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75% of suppliers with carbon reduction targets	75% of GT's top suppliers (by category/spend) will have carbon reduction targets by end of 2026 2021_22 target = 70%		Refer to main report for full details.		74% achieved as part of NG target.
Install renewable generation on our operational sites for our own use	# sites with renewable generation OR kWh generated		Refer to main report for further detail.		£0.4m committed to deployment.
Deliver a science-based target for gas transmission by 2023	Establish a project team to further develop the business carbon footprint, identify costed options and develop roadmap for delivering Net Zero; linked to wider delivery of decarbonising the NTS				Refer to main report for further detail

Responsible asset use

We will address eighty redundant assets, asset groups or sites, supporting a sustainable lower carbon future through responsible demolition including asset repurposing.

EAP commitment	Description and expected benefit	Baseline	Implementation milestones	RAG indicator	Status update
Align NGGT procurement strategy to sustainable sourcing standards ISO20400	We will implement the ISO20400 sustainable sourcing process and conduct Standard Gap Analysis against		GT assurance audit scheduled for year 3		

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	ISO20400 category strategies considering sustainability				
Reduce the waste intensity of our construction projects year on year based on a 2019/20 baseline	We will target the most waste intensive aspects of our project and work with our contractor resource forum to identify opportunities to reduce.	baseline for 2019/20	Baseline to be established in year 2		Process not managed due to resource constraints, will be corrected in 2022_23
On construction projects, we will achieve zero waste to landfill and we will increase the recycling or reuse materials by 2026	We will achieve zero waste to landfill and set a target on recycling rates	Recycling baselines to be established in year 2			Year 1 99% diverted, 97% recycled. The measure has been classified as amber as the data has not been verified
We will work with contractors to measure the proportion of recycled materials used on construction projects and will set a target during the RIIO-2 period to increase from this baseline	This is not currently measured so reporting process will be defined and performance baselined at the start of RIIO-2	measure to be set within the RIIO-2 period			
Pilot and implement circular economy principles	Analyse current reuse projects for their circularity and refine to create circular processes; work with PMC Purchase products that can be recycled / reused	Number of pilots that implement circular economy principles, circularity metric defined.	<ul style="list-style-type: none"> • Circular economy framework to be developed • Gap analysis to industry standard such as BS 8001 and work towards alignment 		
Address 80 redundant assets, asset groups or sites in RIIO-2	Prioritise highest risk assets. Decommission where assets are redundant, repurpose where possible, leave pipelines purged and filled with nitrogen.	Measured through a Price control deliverable on the 80 identified assets, asset groups or sites			<ul style="list-style-type: none"> • Monitoring progress of 80 redundant assets monthly • Decom 22 contract signed and work progressing on site • Sale of assets paper approved and confirmation sent to winning bidders.

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					<ul style="list-style-type: none"> Resanction submitted to GT approval investment committee
Extend the life of equipment where appropriate by refurbishment	Refurbish equipment where possible				<ul style="list-style-type: none"> Programme progressing and milestones will be reported clearly in year 2
We will reduce the waste we create at our offices (waste tonnage) by 20% from a 2019/20 baseline	Continue to roll out existing programmes to all sites	54.6 tonnes	Year 1 28 tonnes		<ul style="list-style-type: none"> Further segregation of waste streams to reduce contamination of DMR (and increase recycling recovery rate) being rolled out following trial at 35 Homer Rd, including improving signage/addressing behavioural issues.
We will recycle 60% of our office waste by 2026	% of waste recycled out of total		Year 1 75.5%		
Reduce water use in our offices by 20% by the end of RIIO-2	Implement a water reduction programme at all sites owned and operated by NGGT % reduction in water used	2019-20 baseline 7,380 m3	Year 1 1,699 m3		<ul style="list-style-type: none"> Water audits being undertaken across Corporate Property sites, with conservation measures being rolled out where applicable

Caring for the natural environment

We'll make sure both new construction and demolition projects include initiatives to protect and promote biodiversity, and we will enhance the value of natural assets on non-operational land.

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EAP commitment	Description and expected benefit	Baseline	Implementation milestones	RAG indicator	Status update
<p>10% increase in environmental value on all non-operational land by the end of the RIIO-2 period.</p> <p>The GT estate is currently 1,093 hectares and environmental value is measured in Biodiversity units and £ natural capital</p>	<p>Natural Capital tool is used to assess how land can be developed and used to enhance the value of ecosystem services.</p> <p>Sustainability action plans on how we manage our land are managed and monitored. Tenancy agreements should include biodiversity clauses.</p>	<ul style="list-style-type: none"> The Total area of operational and non-operational land = 1,174.75 ha. Natural capital baseline £32,920,100 Total habitat area 878.16 Biodiversity units 4,165.61 	<ul style="list-style-type: none"> Year 2 Environmental Gain at Aylesbury Woodham Compressor Station in partnership with TCV to enhance the woodland, grassland and introduce volunteer programme Creekside discovery centre to increase site visitors - baseline and uplift TBC once target site visits known 		<ul style="list-style-type: none"> To commence in year 2
Act as custodians of our redundant sites by ensuring we reinstatement them to a net gain in environmental value	Identify local environmental initiatives e.g. living landscapers to inform our reinstatement plans.	tbc			
Deliver 10% Net Gain in environmental value (including biodiversity) on all planned construction projects (including those delivered by third parties).	Net Gain target is applied on all schemes that lead to permanent or temporary habitat loss, negative impacts on the habitat condition or provision of ecosystem function e.g. screening, flood management, recreation	All schemes included with a 10% net gain			<ul style="list-style-type: none"> 69 sites have BNG assessments 4.2 BNG units required
Educate the public about environmental issues through outreach linked to major compressor emissions projects	Engage with local community through school visits, local talks, including the environmental impact of our major projects	Community engagement will be measured through our proposed new community engagement reputational ODI. Refer to main report for full details.			See narrative in the main report.

Leadership for change

Status of EAP commitments

We will embed sustainability in our decision making, be transparent on our progress, and work with industry to drive forward the sustainability agenda. We are proposing that each commitment set in the plan is measured appropriately. Some of these commitments will be measured through our regulatory reporting pack, and we propose that others are measured as part of a scorecard incentive

EAP commitment	Description and expected benefit	Baseline	Implementation milestones	RAG indicator	Status update
An engaged workforce on environmental issues that lead by example	Implement a comprehensive employee engagement programme on environmental issues including emissions, waste, reduction in plastics and employee travel	10% of employees engaged with environmental activities - employee engagement survey/ attendance of events/learning/training	Year on year engagement of 20%		<ul style="list-style-type: none"> Accountable managers assigned to all EAP targets Updates provided consistently GT environmental sustainability strategy drafted and socialised E&S training and communication plan developed
Sustainability is fully embedded in our decision making	Carbon pricing is influencing decisions and whole life costing is assessed in the decision-making process.	A clear framework for the different decision-making points	Tbc		<ul style="list-style-type: none"> Sustainability is written into the network development process (ENV30)
Produce an annual environmental report (including BCF reporting).	Publish Gas Transmission environmental performance annually and is shared for feedback with stakeholders.	Trust in National Grid GT as an environmentally responsible company is increased. Annual publication of results and feedback where applicable	Year on year		<ul style="list-style-type: none"> RRP tables submitted AER submitted
We will lead in transparency on capital carbon and natural capital using data and tools to collaborate and drive environmental progress.	We will drive forward industry in areas of sustainability where we are leading. We will work collaboratively through industry working groups to deliver this.	We will focus on two areas: natural capital/net gain and capital carbon.	Year on year		<ul style="list-style-type: none"> Our carbon and natural capital tools are shared within the industry via various working groups, forums and knowledge sharing events.

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Assess and report our risk from climate change on our assets on network operation during RIIO-2 and beyond	Actively assess risks from climate change	Reduction in risk	NG Group commitment to align to Taskforce for Climate Related Financial Disclosure (TCFD) recommendations. Refer to main report for full details.		No progress made in year 1, but recovery plan in place
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