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to
care



Best for
Planet



OUR GREEN PLAN 2022-2027

A Sustainability Strategy and Action Plan for
Barnsley Hospital NHS Foundation Trust

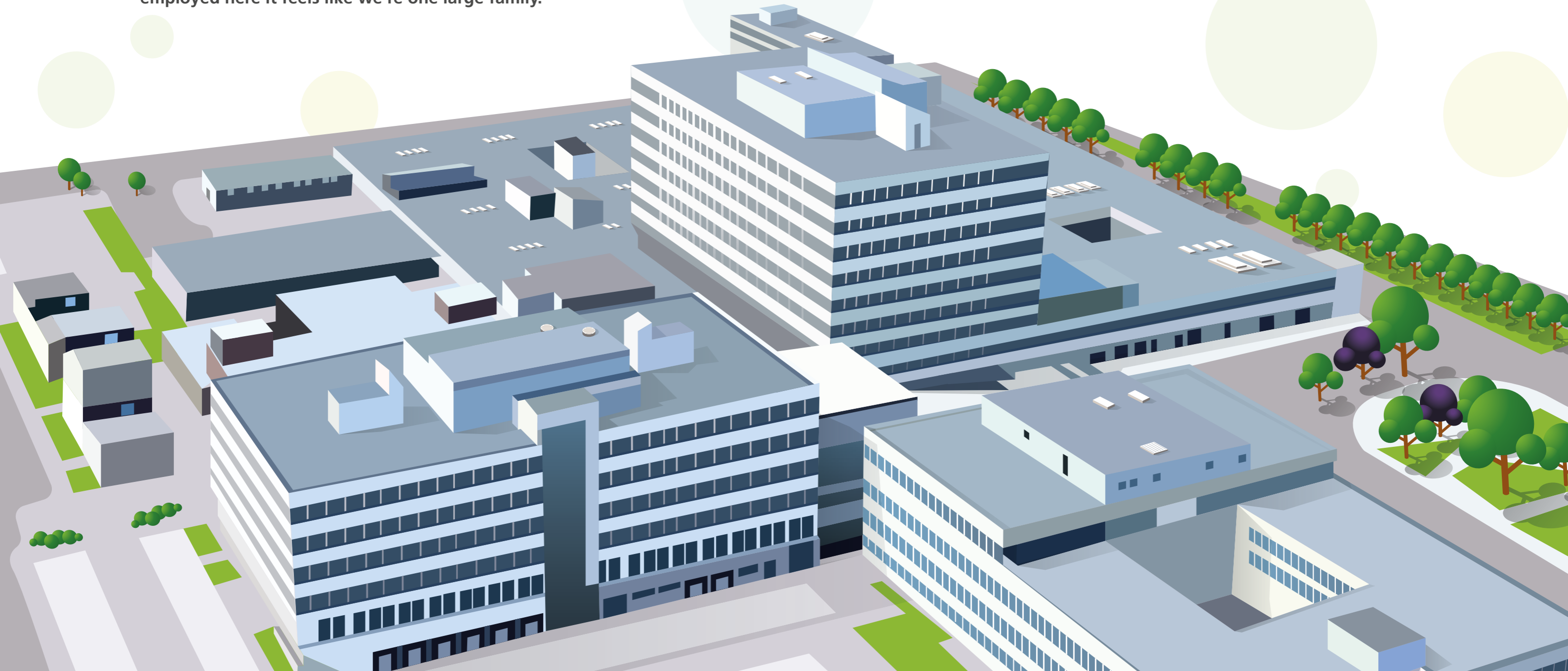
About the Trust

Since the 1970s Barnsley Hospital has provided acute health care for the people of Barnsley and surrounding areas. We are a medium-sized district general hospital serving around a quarter of a million people. We pride ourselves on our community as so many of our patients have relatives employed here it feels like we're one large family.

Our specialised services include cancer and surgical services in partnership with other local healthcare providers such as neighbouring hospitals in Rotherham and Sheffield. We also have an Assistive Technology team which serves a large part of the North of England.

We are passionate about our place in the local community and we take great care to minimise our impact on the environment.

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Foreword

Since the development of our first Sustainable Development Management Plan (SDMP) in 2015 Barnsley Hospital has been committed to improving our sustainability position. Significant progress has been made in reducing our environmental impact of carbon emissions and air pollution and managing our waste.

In 2020 the World Health Organisation declared climate change and global health emergency, with it widely accepted as one of the greatest threats to public health of the 21st Century. As the need to take action to address the climate crisis has become more urgent, the NHS has set the ambitious target to become a carbon net-zero organisation by 2040, ten years ahead of the nationally mandated target. In line with these ambitions, we are pleased to present the Trust's first Green Plan. This Green Plan will highlight our progress to date but will focus on our strategy to progress our organisation towards net-zero carbon emissions over the next five years.

Barnsley Hospital is one of the largest employers in the region, we have a significant opportunity as a Trust to lead the way in promoting the sustainability agenda and we will use our influence to embed sustainability throughout our organisation and the wider region. We will work with our local partners across Barnsley and South Yorkshire to create sustainable change and help meet internal, local and national objectives. To meet our targets and become a truly sustainable organisation, we will also require the continued dedication of all our staff in delivering this Green Plan.



Bob Kirton
Chief Delivery Officer & Deputy CEO
Trust Net Zero Lead



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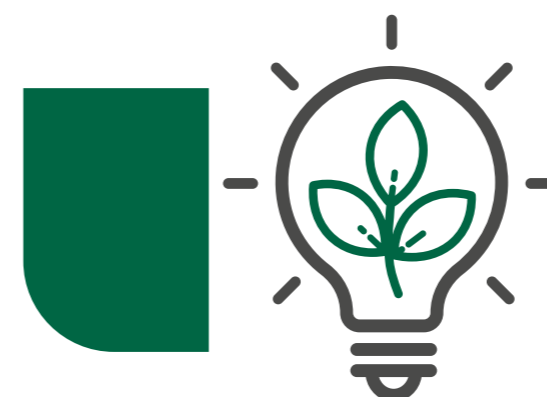
About this document

This Green Plan sets out our organisational strategy for sustainability at Barnsley Hospital NHS Foundation Trust for the next 5 years. This will act as our central sustainability strategy and will help us to embed sustainability throughout our organisation.

The Trust has reviewed local and national drivers, legislative and contractual requirements, and the risks that not acting on sustainability presents in the development of this Green Plan. To inform the plan and shape our sustainability strategy, we sought the input of senior leaders and colleagues from throughout the organisation.

This strategy is composed of two sections. The Green Plan document establishes our strategic objectives and organisational targets that we shall work towards to improve the Sustainability performance for the Trust. Secondly, the Sustainable Action Plan, a separate document which supports this strategy, will act as a framework to support the implementation of specific interventions and help monitor the Trust's progress in sustainability. A separate annual carbon emission monitoring tool accompanies these sections of the report.

This Green Plan has been approved by the Trust Board.



Think before you print!

In the interest of protecting the environment and being sustainable we kindly request this document is read online and circulated via email only.

1

Sustainability:

An urgent context and obligation for Healthcare Organisations



To become truly sustainable, we must consider the environmental impact of how we operate our hospital through reducing waste, using less energy, reducing travel, buying greener and less harmful products along with considering the way we work and deliver patient care.



Robert McCubbin
Operations Director at
 **Barnsley
Facilities
Services**



Sustainability:

An urgent context and obligation for Healthcare Organisations

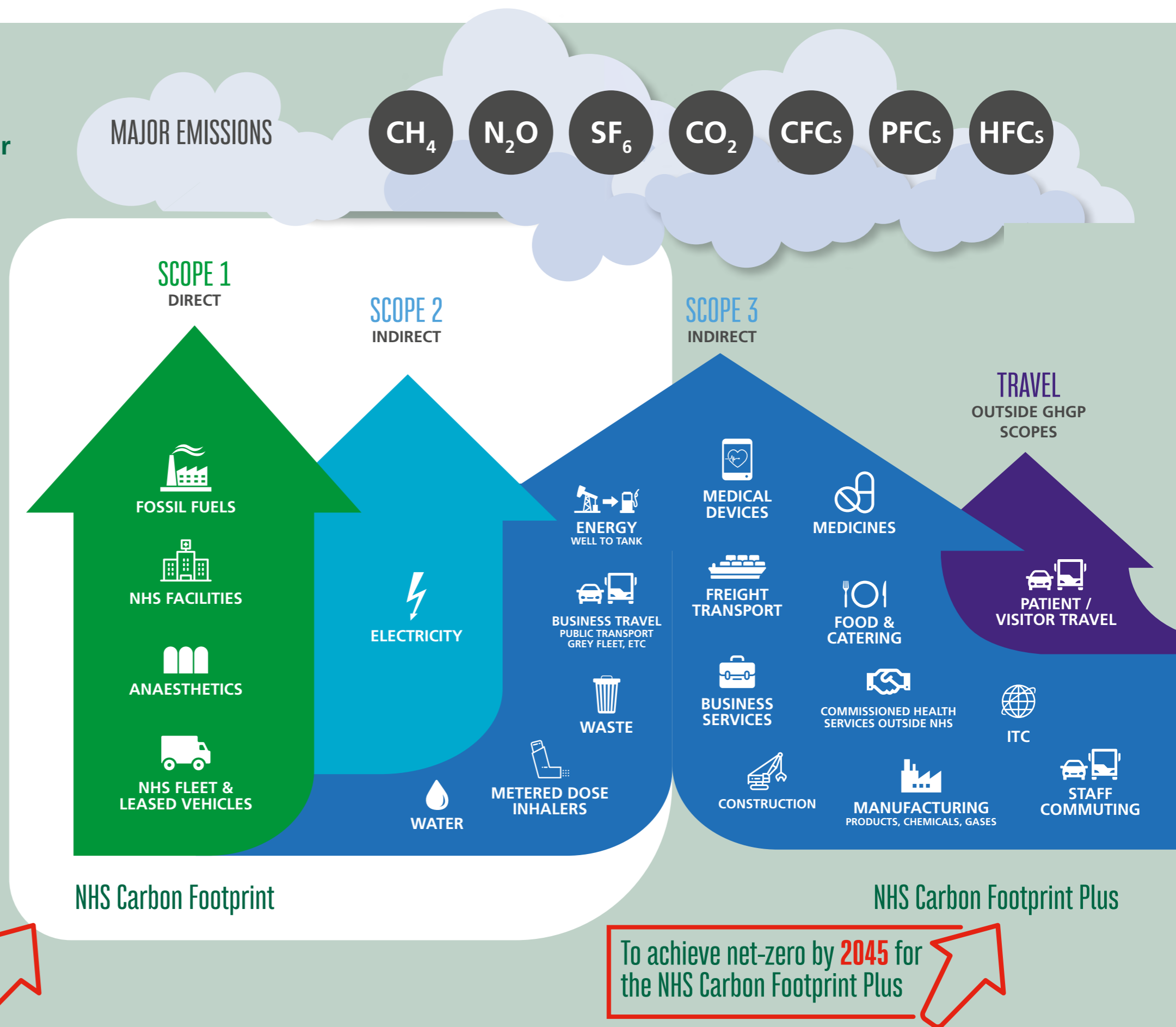
CONTEXT & TARGETS

In recent years climate change has been recognised as not only a significant threat to the environment but also a huge risk to human health. Climate change is now considered the greatest environmental threat to global health of the 21st century by many organisations including, the World Health Organisation, British Medical Association, the Royal College of Physicians and the Royal College of Nursing.

TRANSITION TO NET-ZERO CARBON EMISSIONS

In accordance with the Climate Change Act 2008, the UK Government has set a mandatory target to reduce carbon emissions to net-zero by 2050. The NHS, as the largest public sector employer in the UK, makes up approximately 4-5% of the UK's carbon footprint and therefore it is essential that the NHS work to support this national target.

In recognition of their role in the UK's ambition to achieve net-zero carbon emissions, in 2020 NHS England published the *Delivering a Net Zero National Healthcare Service* plan. The NHS recognises the importance of reducing emissions to net-zero and has therefore set two net-zero targets, to achieve net-zero by 2040 for the NHS Carbon Footprint and by 2045 for the NHS Carbon Footprint Plus. The scope of these two carbon footprints, as defined in the plan, are here.



ACTIONS TO DRIVE SUSTAINABILITY IN THE HEALTHCARE SECTOR

In 2020 the NHS launched the 'For a Greener NHS Campaign' with the aim of providing top-level support to enable NHS Trusts to reduce their impact on the environment and improve health. To become a net-zero health service, reduce air pollution and reduce waste the NHS requires the dedication of all Trusts, staff, and partner organisations. The For a Greener NHS campaign builds upon the work already being done in the NHS to improve sustainability and will ensure that high-level support is provided to support NHS Trusts in their work to become net-zero.

The NHS has established an expert panel to plot the best trajectory for the NHS to become carbon net-zero, the Trust shall continually review the findings of the panel and use the findings to update this plan as necessary. More specific drivers for sustainable development in the NHS are set out in a suite of NHS-specific documents which include:

- ✓ NHS Long Term Plan
- ✓ NHS Standard Service Contract 2021/22
- ✓ NHS Operational Planning and Contracting Guidance
- ✓ Delivering a Net Zero National Health Service
- ✓ How to produce a Green Plan: A three year strategy towards net-zero

The *Delivering a Net Zero National Healthcare Service* report outlines the immediate actions that will be taken by the NHS to meet the 2040 carbon net-zero target. The report explains the modelling and analytics that have been used to determine the NHS carbon footprint and future projections. As the NHS progresses towards the net-zero target the report will be continuously reviewed to ensure the NHS is on track to meet its long-term commitments and is suitably ambitious.

To aid the NHS in achieving the national carbon reduction targets and develop the resilience of the organisation, the NHS Operational Planning and Contracting Guidance provides guidance on the actions required. The NHS Long Term Plan outlines how the NHS will develop and improve until 2030, including new models of care and a consideration of sustainability. The NHS Standard Service Contract sets several targets and objectives relating to sustainability within the NHS. The NHS Operational Planning and Contracting Guidance provides guidance on the actions required to support the NHS in achieving the national carbon reduction targets, and ensure the organisation is resilient.



INCREASING REQUIREMENTS RECOGNISING INCREASING URGENCY

The NHS has made significant progress towards this target, achieving a 62% reduction in carbon emissions between 1990 and 2020. This has been achieved by implementing a number of strategies nationally.

However, as we reach a critical point for tackling climate change the number and scope of drivers will increase. As the NHS progresses towards the net-zero target the *Delivering a Net Zero NHS* report will be continuously reviewed to ensure the NHS is on track to meet its long-term commitments and is suitably ambitious. New standards including the new Net Zero Carbon Hospital Standard, which will establish best practice requirements for capital projects and energy efficiency to help meet the net-zero targets. The Trust will continue to engage with the NHS's sustainability agenda and will monitor legislation and guidance changes as we progress towards net-zero.



2

Carbon Baseline and Pathway Analysis



Hospitals have a massive impact on the environment. As well as saving lives we must also save the planet



Michael Bailey
Head of Estates at



Carbon Baseline and Pathway Analysis

PERFORMANCE AND BASELINE

The Trust's Carbon Baseline has been developed in line with the NHS Carbon Footprint, this focuses on the emissions the Trust has direct control over and can therefore work to reduce. The interventions set out within this plan primarily focus on minimising our direct emissions. However, as we decarbonise our organisation, we will also seek to address our indirect emissions where possible and will identify an accurate and robust methodology for monitoring our indirect emissions. Where possible, we will collate data from our indirect emissions, including our supply chain so that we can expand our Carbon Baseline to include the NHS Footprint Plus and monitor our progress against the NHS Carbon Footprint Plus 2045 net-zero targets.

Trust Carbon Emissions Against Baseline (tCO ₂ e)								
YEAR	FOSSIL FUELS	ANAESTHETIC GASSES	ELECTRICITY	BUSINESS TRAVEL	WASTE	WATER	INHALER	TOTAL
Baseline 1990-91	8,172	871	5,386	98	244	70	55	14,895
Current 2020-21	7,451	514	501	107	46	67	47	8,734
Change	-720	-357	-4,885	+9	-198	-3	-8	-6,161

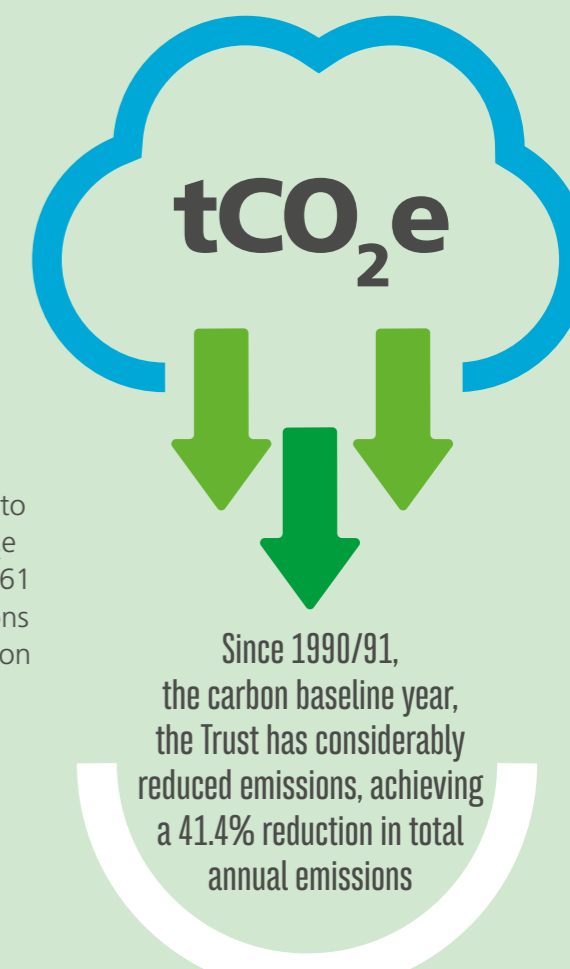
OUR CARBON BASELINE

Our Carbon Baseline year, 1990 in line with the Climate Change Act 2008, is the year against which all subsequent annual carbon dioxide equivalent (CO₂e) emissions will be compared. Our emissions have been calculated by multiplying our consumption data (e.g., kWh for electricity) with the national carbon conversion factors provided by the Department for Business, Energy, and Industrial Strategy (BEIS) for greenhouse gas reporting. This provides the annual CO₂e emissions for each aspect we have monitored.

Our carbon emission baseline, which was developed using the NHS Carbon Baseline methodology, is set out opposite. This considers the Scope 1 (direct emissions) and the Scope 2 (grid electricity) and Scope 3 (indirect emissions) which must be reduced to net zero by 2040. Where data was unavailable suitable data from other years has been extrapolated, and this includes back casting of data where some historical aspects have not been available.

Since 1990/91, the carbon baseline year, the Trust has considerably reduced emissions, achieving a 41.4% reduction in total annual emissions. This reduction has largely been achieved by a move away from coal combustion and decarbonisation of purchased electricity.

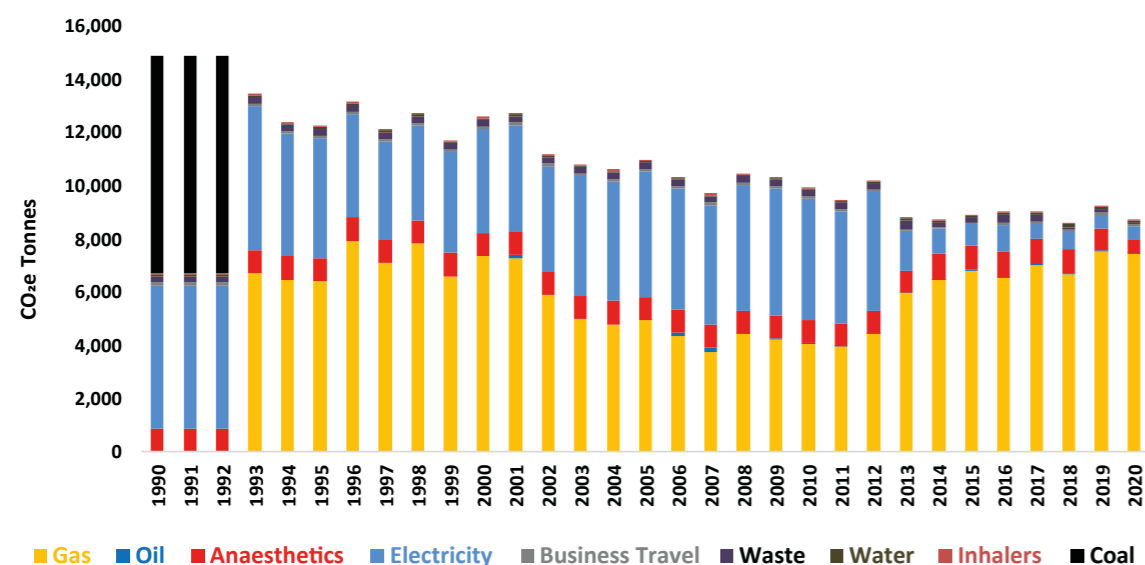
The Trust has an interim target of an 80% reduction in carbon emission by 2032, and this will require emissions to be no more than 2,979 tCO₂e (80% of our 14,895 tCO₂e baseline). The Trust has already reduced emissions by 6,161 tCO₂e and is therefore required to further reduce emissions by 5,755 tCO₂e, which is equivalent to an annual reduction of 481 tCO₂e per year until 2032.





OUR PROGRESS AGAINST THE BASELINE

Since the baseline year, 1990/91, the Trust has reduced total annual emissions by 41.4%, a reduction of 6,161 tCO₂e. As shown in the chart below, the most significant reduction has been made from moving away from coal, and in 2014 from the installation of the CHP which uses natural gas to generate electricity and also provides heat. However, incremental gains in efficiency have also been made throughout the Trust.



Sustainability is not a new concept to the Trust, we have undertaken a series of projects to date which have delivered carbon savings, reduced waste, and improved our overall sustainability performance. We operate an Environmental Management System (EMS) to manage our environmental performance and we have a dedicated Energy and Sustainability Manager, who is responsible for overseeing sustainability initiatives across the organisation.

REDUCING OUR CARBON EMISSIONS

As a Trust we have always worked to replace outdated equipment with the most energy efficient equipment available. This has included measures such as replacing 4,800 fluorescent lights with energy efficient LEDs throughout the estate. We have also taken measures to improve the fabric of our buildings by adding improved insulation to roofs, installing double glazed windows, upgrading speed pumps and motors. These infrastructure upgrades have supported our transition to net-zero emissions by reducing our energy consumption.

In 2013 we installed a combined heat and power (CHP) unit which uses natural gas to generate heat and electricity for the site, this improved our energy efficiency and created an initial 1,254 tCO₂e by the year 2013-14. Our CHP typically generates enough electricity to power 2,436 homes in Barnsley



Model: Jenbacher JMS 416
Completed: May 2013
Power output: 1,130 kW_e
Thermal output: 1,164 kW

Typical Annual CHP Performance	
Generated electricity (kWh)	7,795,700
Grid power (kWh)	7,451
Equivalent to power (Homes in Barnsley)	2,436
CHP generated : Grid %	77 : 23

From April 2021 we have now also started to purchase all our grid electricity supply from 100% renewable sources as part of our commitment to achieving net zero.



TRAVEL AND AIR POLLUTION

In response to the Covid-19 pandemic staff at Barnsley Hospital worked from home where possible. We are now continuing to offer alternative working arrangements to minimise our environmental impact and reduce pressure on car parks and on our estate. Virtual meeting software has been utilised effectively during the pandemic which has reduced our requirement for travel, eliminating travel time and reducing our environmental impact.

We have also successfully run virtual appointments through our virtual clinics such as the virtual fracture clinics, with many clinics operating a hybrid system with in person and virtual appointments. We are investing in the appropriate technology to enable us to continue to provide virtual appointments where preferable in the future to reduce our impact and improve patient experience.

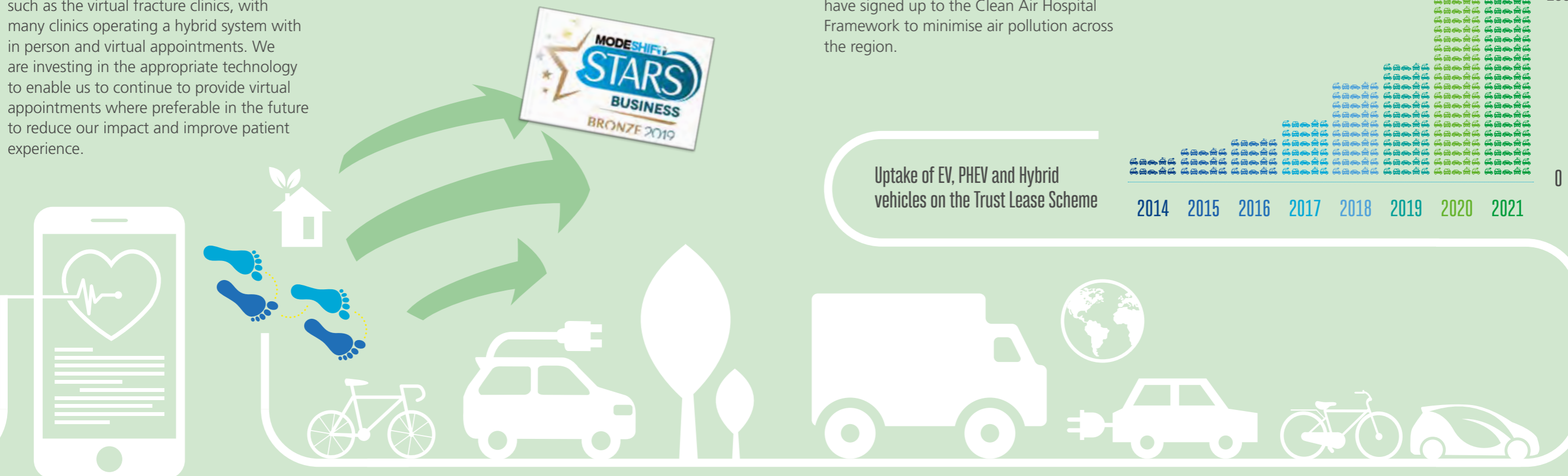
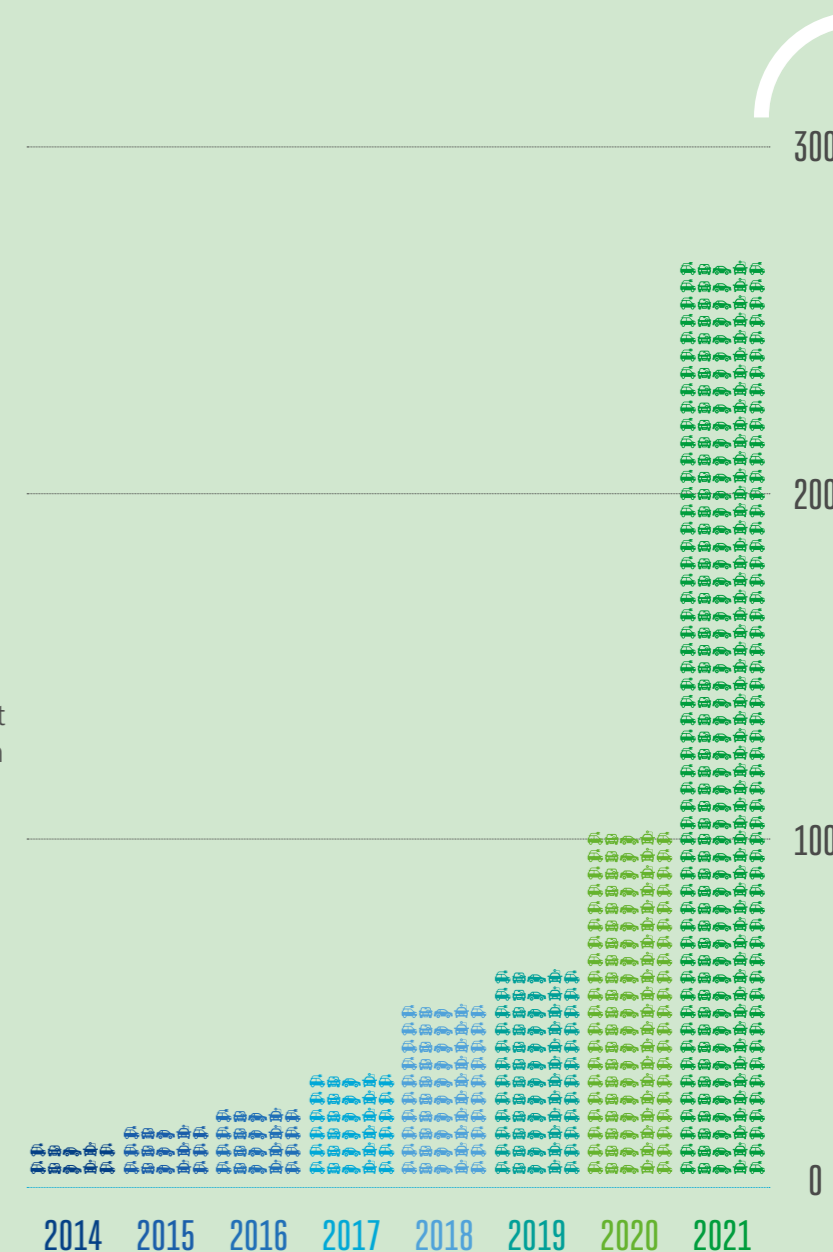
As many of our staff live locally, we encourage staff to walk or cycle to work and discourage the use of cars where possible. We have recently installed a secure staff cycle storage facility which is accessible 24/7.

In 2019/20 we achieved the MODESHIFT STARS Bronze Travel Award for our work in supporting sustainable travel. Key aspects in achieving the award included carrying out a staff travel survey, development of a travel plan, investment in infrastructure included to facilitate active travel, running events and awareness days to encourage a modal shift.

Where cars are necessary we promote the use of low-emissions vehicles. To support the transition to net-zero carbon travel we have installed 10 fast charging EV points. We have also banned diesel cars from our leasing scheme and as a result of this change we have experienced an 175% increase in EV, PHEV and Hybrid take-up in 2021 against the previous year.

As a health care provider we recognise that minimising our contribution to air pollution is essential for keeping our community healthy and preventing illness. As such, we have signed up to the Clean Air Hospital Framework to minimise air pollution across the region.

Uptake of EV, PHEV and Hybrid vehicles on the Trust Lease Scheme



REDUCING WASTE

We have focused on the management of our waste in accordance with the waste hierarchy, this means reducing our production of waste in the first instance, then reusing, recycling or recovering energy from waste where possible.

The Trust is taking measures to reduce our consumption of paper and minimise waste. Using the Paperlite system we are undertaking a significant digitalisation project to move all physical documents onto an easily accessible online system. We are digitalising medical records, using electronic patient notes and electronic prescribing, this not only reduces paper consumption but also improves the efficiency of our services. Diagnostics notes are now scanned and sent remotely rather than transported in a van. We are also utilising our digital portal to scan and send patient letters which could reduce over 400,000 paper letters being sent annually, the equivalent to 60 tonnes of paper.

We have removed single use plastic cutlery, cups and plates from our staff restaurant and replaced them with recyclable paper and wooden alternatives sourced from local suppliers. We aim to maximise dry mixed recycling and segregate as many types of wastes streams as possible including alcohols, aerosols, batteries, plastics, metal and cardboard which is bailed on site.



Our restaurant achieved the Soil Association's 'Food for Life' bronze catering mark. This is an independent endorsement, backed by annual inspections confirming that the restaurant serves fresh food, serves fish from sustainable sources as well as fair trade goods.

Even in the best-run kitchens there will be some food waste. The priority is to reduce how much food is wasted, whilst considering how best to dispose of unavoidable waste. The restaurant sends food waste to an anaerobic digestion plant to create energy and fertiliser for farming and agriculture use.

We have also developed a Sustainable Waste Management Plan to ensure sustainability is at the forefront in delivering our catering service. In addition we have removed all plastic cutlery, tubs and containers and switched to sustainable alternatives including wooden cutlery, biodegradable materials and mixed waste and coffee cup recycling.



To reduce the impact of our clinical areas following the pandemic, we are trialling reusable PPE to eliminate single use disposable gowns, masks and theatre caps. We have also introduced reusable items in clinical areas such as reusable surgical instruments. We are working to replace single use items with reusable items where possible and will continue to encourage our colleagues to be mindful of minimising waste.

Formula milk has a large impact on the environment, from the cows used to produce the milk emitting methane gas, the manufacturing, production and transportation, the waste produced from the tins, plastic bottles, teats, sterilisers and the energy used to make up the feeds. There are numerous values of breastfeeding, these are not only for the mother and baby but also for the environment. According to Dr Natalie Shenker, UKRI Future Leaders Fellow at Imperial College London, and colleagues highlight research showing breastfeeding for six months saves an estimated 95-153 kg CO2e per baby compared with formula feeding.



Human milk is the most environmentally friendly way to feed your baby



Sarah Beardsall

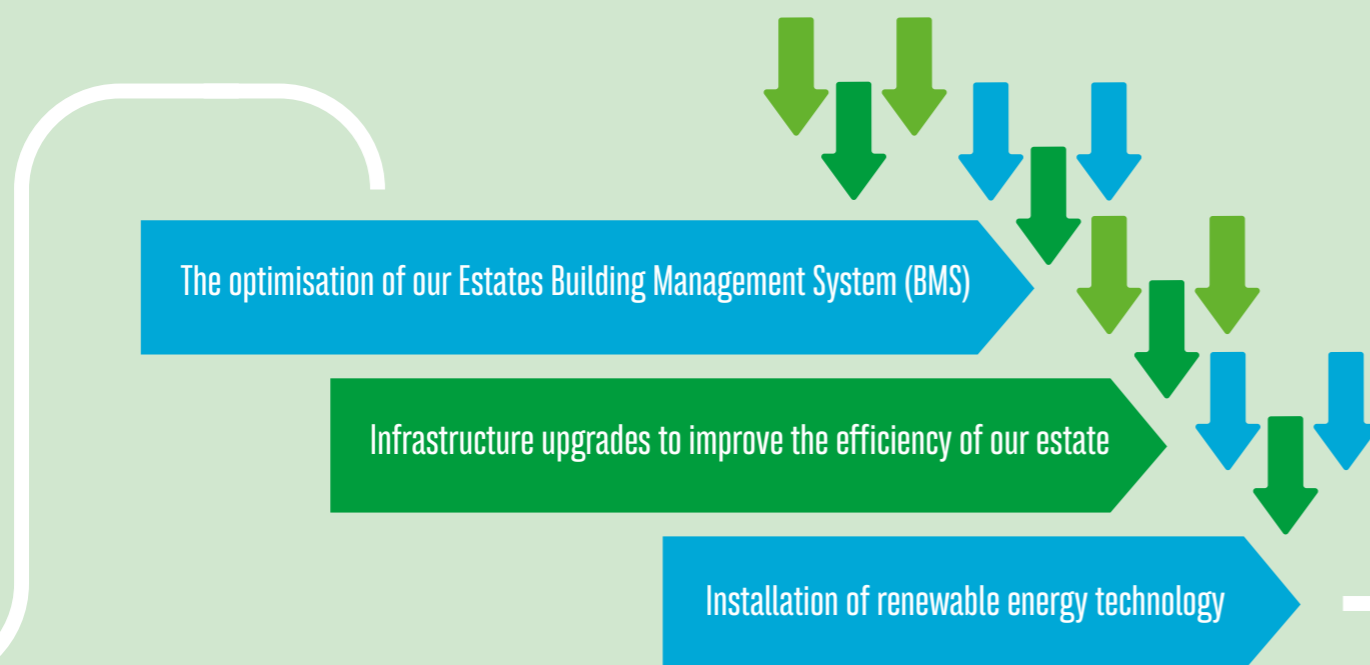
Infant Feeding Coordinator
bdg-tr.InfantFeedingTeam@nhs.net

OUR PATHWAY TO NET-ZERO

To meet the next interim target of an 80% reduction by 2032 we will need to reduce our direct carbon emissions by a further 5,755 tCO₂e over the next 10 years. The targets for our direct emissions are outlined in the table below:

Trust Carbon Emissions Against Baseline (tCO ₂ e)			
YEAR	BASELINE	2032	2040
Target Emission Reduction (%)	N/A	80	100
Target Emission (tCO ₂ e)	14,895	2,979	0

The implementation of our Sustainable Action Plan will enable us to make incremental reductions in our carbon emissions. We will create incremental changes through a focus on creating behavioural change to improve our efficiency. We will work with our local and regional partners to address emissions from clinical areas such as anaesthetic gas and inhaler emissions. We will also undertake more significant interventions over the next five years to deliver more substantial reductions in our carbon footprint, including:



TAKING ACTION ON OUR INDIRECT EMISSIONS

Our primary focus will be on reducing our direct emissions through the implementation of our Sustainable Action Plan. However, we will also dedicate attention to addressing our longer-term target to reduce our indirect emissions to net-zero carbon by 2045.

The emissions, include the carbon emitted within our supply chain, staff commuting and patient and visitor travel. As these emissions are outside the direct control of our organisation the reduction of our extended carbon footprint will be more challenging.

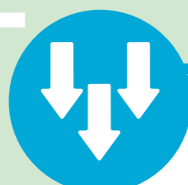
In addition to the obvious challenges surrounding the third-party control over these emissions, there are all challenges in quantifying these emissions accurately. The NHS and NHS Supply Chain are currently developing accurate and robust carbon conversion factors that can be applied to activities within organisations to help quantify indirect emissions. They will also introduce carbon footprinting requirements for suppliers from 2023.

At present, we do not have access to data that is reliable enough to accurately project our indirect emissions trajectory. Therefore, over the next five years we will work to collate the data currently available so that when reliable methodologies for calculating our indirect emissions become available we can improve our Carbon Baseline in our 2027-2029 Green Plan. To prepare for this we will continue to monitor the development of indirect carbon emission reporting guidance within the NHS.



ESTABLISHING A PATHWAY FOR OUR DIRECT CARBON EMISSIONS

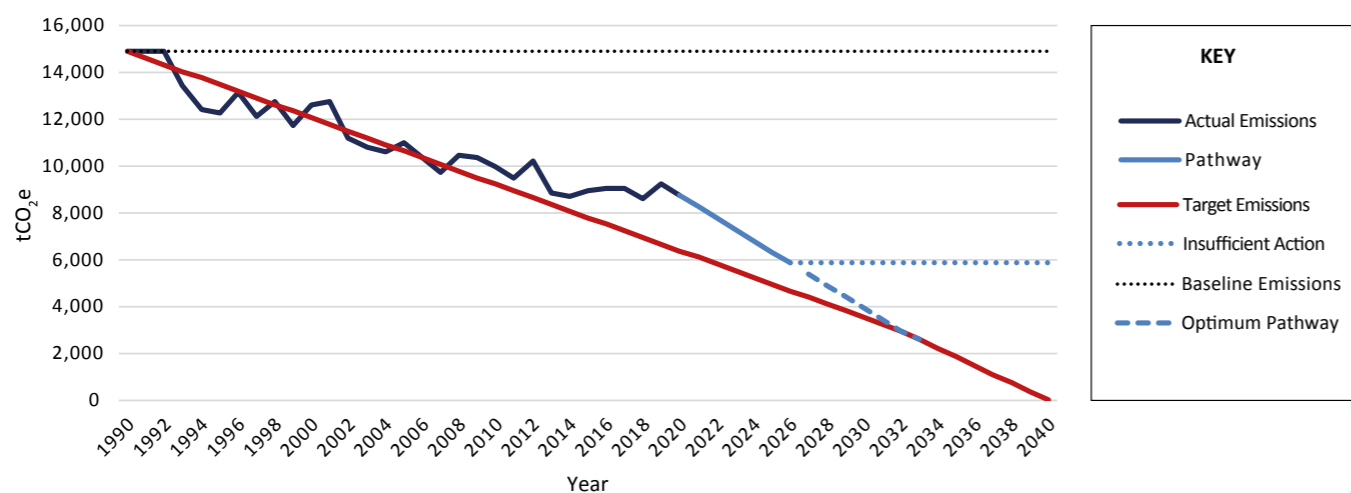
Currently the Trust closely monitors our direct emissions and is undertaking work to collate data that will enable us to quantify and monitor our indirect emissions in the future. This monitoring allows us to review our progress to date and project the necessary pathways which we aim to follow to achieve our net-zero targets. These pathways include:



The incremental reductions and more significant savings we aim to make in the short term

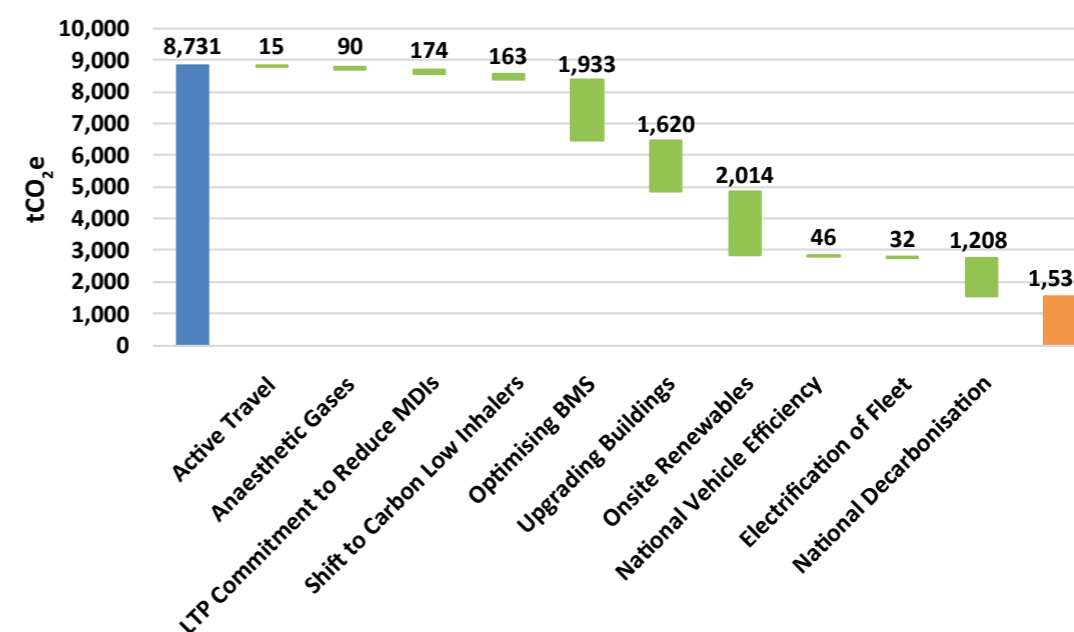


The long-term emissions pathways that will be necessary to meet the net-zero carbon reduction targets.



The incremental emissions reductions possible through the implementation of the Sustainable Action Plan will provide a short-term emissions trajectory, against which we can monitor our progress towards net-zero. The incremental pathway is based on an average yearly reduction in emissions of 481 tCO₂e. Following on from the incremental improvements, the work will be undertaken to identify the necessary interventions required to deliver our net-zero target. Our analysis indicates that more significant action will be required between 2028 and 2032 to meet the 80% reduction by 2032 interim target. The figure above also indicates the risk of taking insufficient action to reduce our emissions, this illustrates that with the incremental action will only reduce our emissions to 49% of what is required and without further targeted action our emission will plateau.

The *Delivering A Net Zero National Healthcare Service* report provides an indication as to where further actions can be implemented to significantly reduce emissions. Several of the actions displayed in the graph below are actions presented in our Sustainable Action Plan, including the optimisation of BMS, anaesthetic gas emissions reduction, and upgrades to our buildings.



The assessment of possible reductions that could be delivered by longer-term reduction schemes indicates that interventions can be made to reduce our direct carbon emissions to approximately 15% of the baseline.

To reduce the residual 1,536 tCO₂e of emissions per year to net-zero we will rely on further market innovation and the commercialisation of disruptive technologies (e.g. conversion of the methane gas grid to hydrogen). We will therefore continue to monitor innovation and the development of new technologies in order to capitalise on further reductions in emissions that may be possible and reduce our reliance on offsetting to meet the net-zero target.



3

Our Commitment to Sustainability



Research shows if the current trends continue, our oceans will have more plastic than fish by 2050



Paul Haytree
Head of Facilities at



**Barnsley
Facilities
Services**



Our Commitment to Sustainability

SUSTAINABILITY IN OUR ORGANISATION

Barnsley Hospital has a strong commitment to sustainability and providing healthcare that does not harm our environment, is cost effective and adds social value. We have worked to embed sustainability throughout our organisation to ensure that we are continually improving our environment, financial position and our quality of care.

This Green Plan builds upon our most recent Sustainable Development Management Plan published in 2015, and sets out how we will achieve new more ambitious targets. Our Sustainability Manager and Sustainability Sub Group aim to ensure that sustainability is represented throughout the organisation.

Our dedication to sustainability is reflected in our organisational strategy with Best for Planet added as a key commitment in addition to our Patients, Partners, People and Performance.



AN INCREASING URGENCY TO ACT

As an acute Trust we recognise our role in minimising our contribution to climate change and air pollution to improve the health of our local community. The health of the people in Barnsley is affected by local deprivation factors, ranked in 2019 as the 38th most deprived local authority of the 317 in England. Communities in areas of higher levels of deprivation have been shown to be more vulnerable to the health issues created by air pollution and are at greater risk of experiencing the impacts of climate change. It is for this reason that we acknowledge the increasing urgency to act on these issues to protect the health of our local population.



OUR STRATEGIC OBJECTIVES

The Trust will adopt the national net-zero carbon emission targets of 2040 for our direct carbon footprint and 2045 for our carbon footprint plus. To enable us to achieve these targets we will adopt strategic objectives to support our transition to net-zero, improve the sustainability of our resource use and ensure a high quality of care for our community.

- ✔ To support local and national efforts to become net carbon zero
- ✔ To transform travel and transport to improve local air quality
- ✔ To promote resource efficiency and support the circular economy
- ✔ To use sustainable initiatives to promote public health and wellbeing
- ✔ To build resilience into our services to protect the health of our local community





SOUTH YORKSHIRE INTEGRATED CARE SYSTEM

Barnsley Hospital will work together with other regional healthcare providers, local authorities, community and voluntary organisations from the South Yorkshire Integrated Care System. The main aims of the Integrated Care System are:

- Improving population health
- Improving the quality of patient care
- Delivering financially sustainable services
- Addressing health inequalities



As well tackling health inequalities, the environmental sustainability agenda will be at the forefront of the South Yorkshire ICS by engaging with service providers to improve transport links and walking and cycling routes and further develop active transport plans for hospitals. Barnsley Hospital's Energy and Sustainability Manager will work together with sustainability leads from other regional health and social care providers to deliver our shared sustainability goals.



BARNSELY PLACE 2030

The Barnsley 2030 Board is a group of key stakeholders, from different businesses and organisations across all sectors, that provide oversight for the delivery of the Barnsley 2030 Strategy and make sure that we all play a part in achieving our borough's vision and ambitions. The ambition of Barnsley 2030 are as follows:



- People live in sustainable communities with reduced carbon emissions and increased access to affordable and sustainable energy sources
- People can get around in Barnsley easier than ever, with an increase in cycle routes and better connections across the borough
- Barnsley has increased the amount of renewable energy that is generated within the borough
- People are proud of and look after their local environment

Barnsley Hospital is represented by our Chief Delivery Officer and Deputy CEO, and Net Zero Lead Bob Kirton who is passionate about sustainability and provides a wealth of experience to on health and the link between sustainability to the Board. For further information about Barnsley 2030 please visit

www.barnsley.gov.uk/services/our-council/barnsley-2030/

Sustainable Barnsley

We all have a part to play in protecting our borough for future generations.



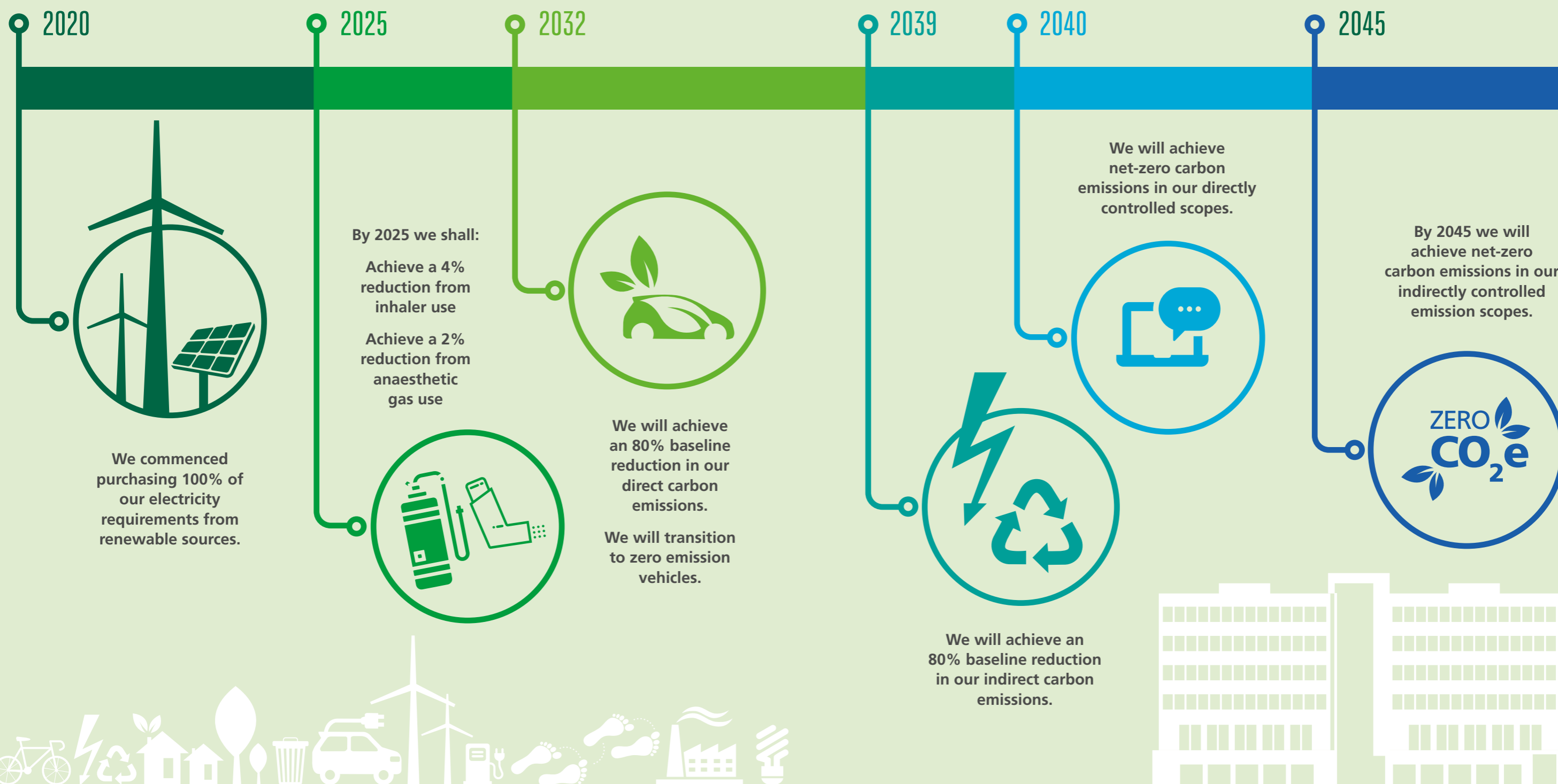
HOW WE WILL ACHIEVE OUR STRATEGIC OBJECTIVES

Our strategic objectives have been developed through colleague engagement and will enable us to meet our targets and ambitions. We will take a number of actions, detailed further in our sustainable action plan, to achieve these objectives. This will require the support of colleagues throughout the organisation.



EMBEDDING NATIONAL TARGETS WITHIN OUR ORGANISATION

Barnsley Hospital is bound to several legal and contractual obligations relating to sustainability as detailed in Section 1. We will adopt the national targets which will guide our progress in reducing carbon emissions and improving our overall sustainability performance.



AN INTERNAL SUSTAINABILITY TEAM LEADING THE WAY

Our Sustainability Manager will lead in the implementation of our Sustainable Action Plan and continue to review our Green Plan strategy over next five years. This will include making regular progress reports to the Trust Board and ensuring that all colleagues at the Trust are kept informed on our performance. The Sustainability Team will continue to support in areas such as but not limited to:

CLIMATE CHANGE

Ensuring that all colleagues are supporting our transition to become a net-zero organisation and monitoring our progress against our pathway.



WASTE, RECYCLING AND THE CIRCULAR ECONOMY

Ensuring that our resources are managed at the highest possible level of the waste hierarchy, and managing our consumption of resources. Ensuring correct segregation of our clinical waste streams will lead to cost savings as well reduced environmental impact.

HEALTH AND WELLBEING

Promote the health and wellbeing of our staff, patients and local community through the provision of green spaces, healthy food and active travel initiatives.

ADAPTATION

Supporting the development of climate change adaptation strategies and building resilience across the organisation and region.

ENERGY MANAGEMENT

With a focus on identifying and addressing energy hotspots, evaluating low carbon energy supply options (e.g. renewable's), improving our BMS and improving energy efficiency.

TRAVEL AND TRANSPORT

Supporting a reduction in unnecessary journeys, discouraging the use of petrol and diesel vehicles, and promoting and enabling active transport.

FOOD AND PROCUREMENT

Supporting procurement staff in continuing responsible, sustainable and ethical procurement and working with our suppliers to reduce their impact.



APPROVAL AND IMPLEMENTATION GOVERNANCE

This Green Plan has been formally approved and adopted as Barnsley Hospital's sustainability strategy at the January 2022 Trust Board meeting.

The delivery and implementation of our Green Plan sustainability objectives will be led at a Board level by the Chief Delivery Officer and Deputy Chief Executive who will work with the Energy and Sustainability Manager and wider Sustainability Group to ensure that adequate resources and support are made available to help our transition to net-zero.

MONITORING, EVALUATION AND CONTINUOUS IMPROVEMENT

In recognising the focus on protecting our Planet as a key element of our operation, we will monitor our performance against the emissions pathway that we have outlined in this Green Plan.

We will seek to develop key sustainability metrics to ensure that senior leaders are continually informed on our performance level against our target. These metrics will align to our organisational strategic ambitions and could include:

- The quantity of CO₂ emitted per £ of our total expenditure;
- The absolute carbon emissions of the Trust; and/or;
- The proportion of sustainable action plan items which have been completed, are in progress, or are outstanding.

The information provided by these metrics will provide the basis for quarterly progress reviews to the board and to the Greener NHS and annual reporting in the progress against our strategic objectives and targets.

4

Introducing our Sustainable Action Plan



It is imperative that we act now before it is too late. We must all play our part to help protect the environment for future generations.



Mo Sajard
Energy & Sustainability Manager,



Introducing our Sustainable Action Plan

The specific actions set out in this Sustainable Action Plan will support the delivery of the strategic objectives and targets set out in this Green Plan. We commit to implementing targeted actions across the Trust.

The actions have been developed through extensive colleague engagement and through a review of best practice demonstrated at other Trusts. The actions are grouped into ten key themes and the actions within each theme collectively support the delivery of our strategic objectives and targets. The Sustainable Action Plan aims to be ambitious and actionable to drive the integration of sustainability throughout Barnsley Hospital.

OUR SUSTAINABLE ACTION PLAN MODULES



MONITORING THE IMPLEMENTATION OF OUR SUSTAINABLE ACTION PLAN


Each intervention established in our Sustainable Action Plan is accompanied with an implementation lead, key supporting staff and an estimated timescale in which the action will be implemented.

The Trust will use the Sustainable Action Plan, which accompanies this strategy, as a framework to guide and monitor the implementation of targeted actions to improve our sustainability performance over the next five years. Our Energy and Sustainability Manager will oversee the maintenance of this action plan, with a designated lead taking accountability for the implementation for each focus area. This will ensure that sustainability is integrated across our organisation, with the best placed leader to create change responsible for driving the implementation in their area.

Each of the ten modules will directly support our strategic objectives. We will use the detailed Sustainable Action Plan to guide the delivery of specific interventions to help our organisation achieve these objectives. A summary of each strategic action plan is provided overleaf.

A summary of the actions we will take following the publication of this strategy

This strategy provides the framework for action and our sustainable action plan provides the detail of each and every action that the Trust shall take to deliver our sustainable vision and organisational targets.




CORPORATE APPROACH

The achievement of sustainability and the reduction of carbon emissions throughout the Trust will require top-down commitment and support from the Board. Our corporate approach will involve embedding sustainability into strategic organisational processes, such as the inclusion of relevant criteria into the tendering, contracting, and procurement processes of respective departments.




ASSET MANAGEMENT & UTILITIES

As an acute care provider, energy consumption contributes the most carbon emissions to our Trust's carbon footprint. We plan to improve the energy efficiency of our Trust by optimising the BMS, monitoring our energy use more carefully, and working with our contractors to reduce emissions associated with heating and powering our estate.



TRAVEL & LOGISTICS

The agile working arrangements pursued by the Trust during the pandemic cast light on an opportunity to reduce staff travel whilst maintaining quality care. We will focus on continuing to support work-from-home arrangements where possible; launch site-level travel plans to encourage the uptake of more sustainable transport; and monitor and try to reduce the environmental impacts of our suppliers' logistics.




ADAPTATION

Climate change is widely regarded as the greatest environmental threat to human health of this century. As a healthcare provider, we acknowledge that there are some impacts of climate change that are inevitable. To this end, we will ensure that our actions are resilient and that the care we provide is able to adapt in the case of extreme climatic events such as flooding.



CAPITAL PROJECTS

As much of our estate is old and in need of infrastructural upgrades, it is essential that our Trust looks to integrate sustainability into all capital projects. We plan to conduct assessments to identify potential improvements, introduce and explore funding opportunities for sustainable changes, and incorporate long-term life costing into the design and construction of buildings and refurbishments.




GREENSPACE

Despite limited access to greenspace, we recognise the importance of maintaining our outdoor space and biodiversity to help offset carbon emissions, protect our environment and improve mental wellbeing. We plan to ensure our existing greenspace is maintained and monitored whilst working to incorporate more biodiversity even where land is constrained through, for example, the use of potted and window plants.




SUSTAINABLE USE OF RESOURCES

As an acute care provider, our Trust uses lots of resources and produces a significant amount of waste. To tackle these issues, we will employ a more sustainable approach to resource management by tracking our energy usage more carefully, investigating sustainable solutions to carbon-intensive products, and increasing recycling facilities.




SUSTAINABLE CARE MODELS

To continue to provide high-quality care for our patients, we must consider the sustainability of our care models. We will commit to using more sustainable operating practices such as the increased use of Total Intravenous Anaesthesia (TIVA) as a substitute for carbon-intensive anaesthetic gas, but also focus on prevention to ensure the long-term health of our patients and communities.



OUR PEOPLE

The achievement of our net-zero targets and actions will require that our Green Plan is supported by staff across all departments and levels of the Trust. We will seek to actively involve colleagues through collaborative platforms, educative approaches, and events aimed at increasing awareness, knowledge, and engagement.



CARBON AND GREENHOUSE GASES

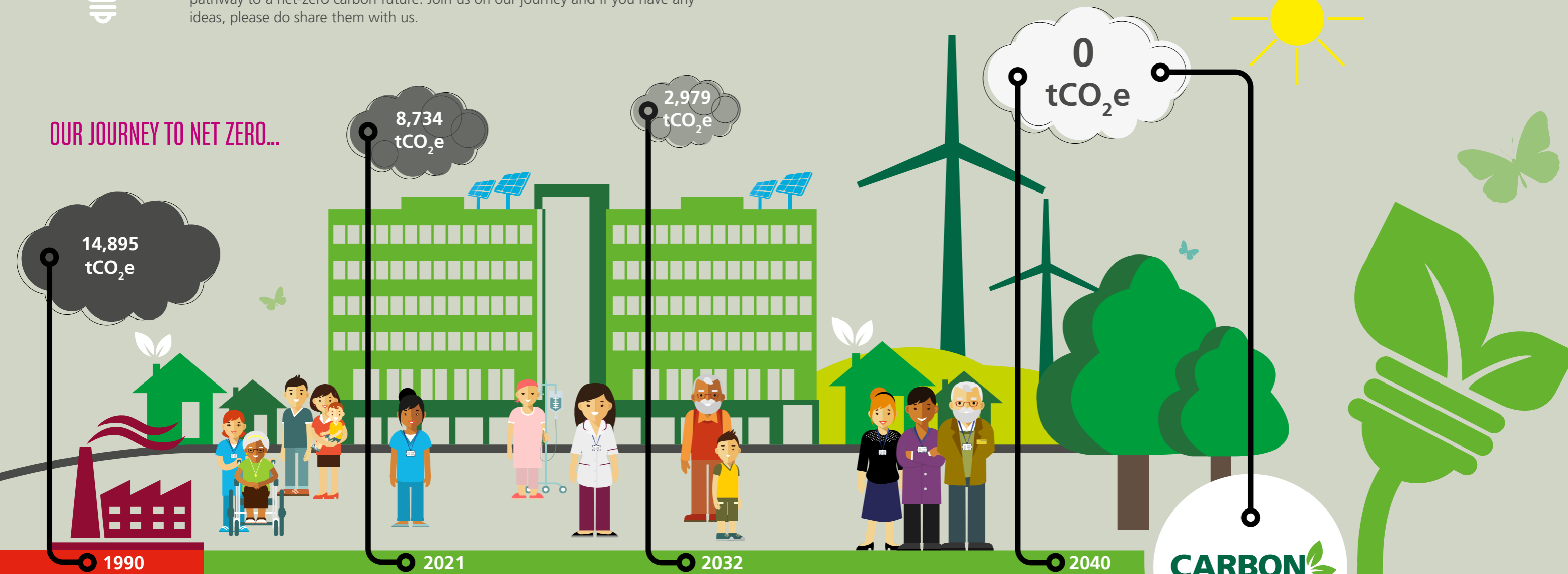
To achieve net-zero, a Trust-wide effort will be required to reduce carbon emissions from all areas of the organisation. We will optimise the deliveries of medicines to our pharmacies, work on prevention to reduce patient numbers and same-day care and encourage innovation to support new technologies which help to improve our sustainability performance.



MOVING FORWARD TO 2040.... AND BEYOND

With the strategy set, and the delivery actions detailed in our Sustainable Action Plan, Barnsley Hospital NHS Foundation Trust is well placed to embark on our pathway to a net-zero carbon future. Join us on our journey and if you have any ideas, please do share them with us.

OUR JOURNEY TO NET ZERO...



In 2020 the World Health Organisation declared climate change and global health emergency, with it widely accepted as one of the greatest threats to public health of the 21st Century. As the need to take action to address the climate crisis has become more urgent, the NHS has set the ambitious target to become a carbon net-zero organisation by 2040, ten years ahead of the nationally mandated target.

In line with these ambitions, we are pleased to present the Trust's first Green Plan. This Green Plan will highlight our progress to date but will focus on our strategy to progress our organisation towards net-zero carbon emissions over the next five years.

**CARBON
NET
ZERO**



Glossary

Air Pollution - the presence and introduction into the air of a substance which is harmful to human health.

Carbon Intensity - a means of calculating the amount of carbon generated for a specific energy source (e.g. electricity).

Carbon Net-Zero - a state in which an organisation emits no carbon emissions from its activities. Or a state in which all carbon emissions are offset.

CO₂e (Carbon Dioxide Equivalent) - a unit used to express total greenhouse gas emissions. There are multiple GHGs, each with a different impact on climate change. CO₂e equates all GHGs to the impact of carbon dioxide. CO₂e is used to report all GHG emissions.

Direct Emissions - CO₂e emissions from sources which are owned or controlled by the Trust.

Greenhouse Gas (GHG) - a gas that contributes to the greenhouse effect, leading to climate change (e.g. CO₂).

Global Warming Potential - a measurement that enables the comparison of global warming impacts of different greenhouse gases.

Indirect Emissions - CO₂e emissions from sources which are not owned or controlled by the Trust, but are generated due to the Trust's activities (e.g. purchase of electricity, procurement, waste disposal).

kWh (kilowatt hours) - a unit of measurement for energy usage (e.g. gas and electricity).

Net Zero Emissions - refers to achieving a balance between the amount of greenhouse gas emissions produced and the amount removed from the atmosphere.

Scope 1 Emissions - direct emissions from owned or controlled sources (e.g. on-site fuel combustion, company vehicles, anaesthetic gases)

Scope 2 Emissions - indirect emissions from the generation of purchased electricity, steam, heating, and cooling.

Scope 3 Emissions - all other indirect emissions that occur in an organisation's supply chain (e.g. purchased goods, employee commuting, waste disposal).



For further information please visit our website
www.barnsleyhospital.nhs.uk/about/sustainability

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Scan the QR Code
for more details on
Our Green Plan
2022-2027



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