

Image: Solar Panels, Learning & Research Building, Southmead Hospital



SUSTAINABLE DEVELOPMENT MANAGEMENT PLAN

2017/2018

Foreword

North Bristol NHS Trust is one of the largest healthcare providers, employers and consumers in the region. As such, we recognise both the positive and negative environmental and health impacts that our services can have on our community and our local environment.

As a healthcare provider, we must ensure we do everything we can to reduce the harmful impacts and maximize opportunities to promote the health and wellbeing of our staff and our patients by embracing the co-benefits of health and sustainability.

We must adapt and react to climate change to ensure we are resilient and embed financial, social and environmental sustainability across the Trust.

This Sustainable Development Management Plan outlines our contribution to improving health and sustainability for everyone to ensure we succeed in our vision to be a healthy, resilient and sustainable healthcare service ready for changing times and climates, both now and for future generations.



Andrea Young
Chief Executive

Peter Rillett
Chairman

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Image: Southmead Hospital Travel West Road Show 2017

Introduction to Climate Change and Health

Climate change is described by the World Health Organisation as “*the biggest global threat to health facing the twenty first century*”.

Climate change is the change in climatic patterns largely attributed to the increased levels of atmospheric carbon emissions produced by the use of fossil fuels. It is predicted to increase the number of heat and cold related illness and deaths, increase the amount of food, water and vector-borne diseases (e.g. malaria), increase skin cancers and sun burn, increase the health impacts of respiratory disease from poor air quality and aeroallergens and likely bring about an increase in mental health issues as a result of local social impacts such as displacement by flooding.

NHS England’s **Sustainability Strategy 2014-2020**, “*Sustainable, Resilient, Healthy People and Places*” lays out the vision for a sustainable healthcare system which reduces these atmospheric carbon emissions, minimizes waste and pollution, makes the best use of scarce resources, builds resilience to a changing climate and nurtures community strengths and assets.

The Strategy requires the NHS to adopt an integrated, aligned and coordinated approach to deliver social, economic and environmental sustainability in a changing climate.

The Strategy places greater emphasis on the prevention of avoidable illnesses by reducing our own impact on the environment and by strengthening our relationships with our staff, contractors, suppliers, patients, visitors and our local community to realise the true potential of the health co-benefits of sustainability.

The Sustainability Strategy dovetails with the **NHS Five Year Forward View** and the **Sustainability and Transformation Plans (STP)**, both of which require the efficient use and delivery of our services and the prevention of avoidable illness to secure sustainability within the NHS for the future.

North Bristol NHS Trust has a significant part to play to contribute towards these goals to deliver long term sustainability. By managing our own environmental impacts, we can contribute to the national target to reduce carbon by 80% by 2050 and achieve a sustainable healthcare service.



Corporate Vision and Governance

We value the importance of protecting our natural environment for the benefit of the physical and mental health and wellbeing of our community, including our patients and staff, now and in the future.

The Trust Board recognises North Bristol NHS Trust is one of the largest healthcare providers, employers and consumers in the region, and as such aims to deliver a successful, sustainable and resilient organisation, playing a full part in an effective health and care system.

The Trust aspires to be a leader in the field of sustainable healthcare through committed leadership, innovation, culture change and system wide engagement and development.

The organisation must adapt to the impacts of climate change to ensure a healthy, resilient and sustainable healthcare system ready for changing times and climates.

We must strive to improve staff and patient experience by moving towards more sustainable models of care and workplace practices. As a Trust we recognise the environmental impact we have on the

natural environment and the potential co-benefits of minimising this impact.

These values are reflected within our recently updated Sustainable Development Policy which was approved by Trust Board in March 2017.

The Sustainable Development Policy replaces the Environmental Policy previously in place and commits to the following;

- To implement an Environmental Management System
- To protect and enhance the environment, including the prevention of pollution
- To comply with all relevant obligations in relation to the environment
- To reduce our environmental impact
- To engage with our staff, patients, visitors, stakeholders and the wider local community
- To prepare our community for climate change through adaptation, resilience and response.
- To train our staff on sustainable development
- To work with our suppliers and contractors to reduce the environmental impact of the goods and services we buy

- To source local, organic, seasonal and fairly traded food where possible
- To publicly report on our progress towards sustainable development.

This Sustainable Development Management Plan reports our progress on delivering the commitments set out within the Sustainable Development Policy here at North Bristol NHS Trust.



Sustainable Development Governance

The Director of Estates, Facilities and Capital Planning, Simon Wood, is the Executive Lead for Sustainability, supported by Liz Redfern, Non-Executive Director.



Simon Wood, Director of Estates, Facilities and Capital Planning
Liz Redfern, Non-Executive Director

The Sustainable Development Steering Group meets quarterly and is chaired by the Executive Lead. The Steering Group consists of Executive and Non-Executive Directors, specialist Public Health Advisors, Senior Management, our PFI partner and

representatives from the Patient Panel and Trade Unions. The group drives forward the sustainable development agenda at NBT.

The Trust's Sustainable Development Unit (SDU) is a small group of specialist advisors providing advice and support across the Trust to assist in the delivery of sustainable development at NBT. The SDU sits within the strategic Sustainable Health and Capital Planning (SHCP) Department within the Facilities Division. SHCP aspires to deliver a healthy, resilient, energy efficient and sustainable healthcare service ready for changing times and climates, both now and for future generations.

To further support the delivery of the policy commitments, the Trust has an active network of Environmental Awareness Reps (EARs), Energy Champions, Travel Smart Reps and Green Impact Teams spread throughout

Image: Promoting health and wellbeing through outside learning, Southmead Hospital

the organisation to raise awareness, engage and enthuse the wider workforce.

We have....

- A Trust Board approved Sustainable Development Management Plan
- A Trust Board approved Sustainable Development Policy
- Established the Sustainable Health and Capital Planning Department

We will....

- Promote health and wellbeing within the sustainability agenda and through the Pathway to Wellbeing action plan;
 - Promote physical activity and exercise
 - Promote relaxation and creativity
 - Promote social activities for staff
- Implement the Management System ISO14001:2015



Leadership, Engagement and Development

We aspire to be a leader in the field of sustainable healthcare through committed leadership, innovation, culture change and system wide engagement and development.

The Trust recognises the value in engaging staff by providing opportunities to staff to learn about how they can make simple choices to embed a system wide culture change at NBT.

To support staff development and understanding, the Trust has created an on-line Sustainable Healthcare Training Package to provide a good introduction to sustainable development in a healthcare setting and inform staff about what they can do to further embed sustainable practices in the workplace.

Over the past year, the Trust has spearheaded the second year of the Green Impact scheme and as a result, provided a wide array of opportunities for staff to get involved in simple activities to create a happier, healthier workplace.

Green Impact saw an increase in staff engagement during 2016/2017 with a total of thirty teams (197 staff) across clinical and administrative services achieving 913 actions ranging from energy, waste and water efficiency campaigns through to health and wellbeing by encouraging healthy lifestyle choices such as active travel, healthy eating and lunchtime walks.

Green Impact Teams were recognised for all their hard work at a joint award ceremony with the University of Bristol and the University Hospital Bristol NHS Foundation Trust in June 2017.

Green Impact 2016/2017 saved an estimated £51,500 and achieved carbon savings of 289,849kgCO_{2e}.

We have...

- Completed two years of our Green Impact engagement scheme
- Engaged staff, patients and visitors on the links between sustainability and health and wellbeing through innovative events including NHS Sustainability Day, Green Impact and Travel Smart roadshows
- Developed a sustainable healthcare training package for staff on the Managed Learning Environment (MLE)
- Adopted an environmental management procedure for estates staff and contractors and delivered accompanying training
- Embedded sustainability within our HR paperwork

We will...

- Develop sustainable Procurement training for Bristol and Weston Purchasing Consortium and wider NBT staff

Image: National Clean Air Day 2017



Healthy, Sustainable and Resilient Communities

We must adapt to the impacts of climate change to ensure a healthy, resilient and sustainable healthcare system ready for changing times and climates.

Climate change adaptation is the understanding and implementation of resilience measures to enable our Trust to be ready for the future. The promotion of personal resilience and the encouragement of self-management of the health and wellbeing of our staff, patients and the local community can reduce the demand on our services and promote sustainable models of care.

During 2016/2017, the Trust established a Pathway to Wellbeing working group and delivery plan to promote the health and

wellbeing of our staff, patients and the local community through the improvement and provision of access to high quality green space, the arts, the environment, healthy food choices, and exercise.

Likewise, by ensuring the resilience of our organisation through emergency preparedness and response and business continuity planning, we are ready for unexpected situations.

Consideration must also be given to the secondary impacts of climate change, such as the effects of severe weather on our infrastructure and access to our supply chain and vital resources such as medical equipment, water, energy, fuel and food to ensure continuity of service in times of scarcity.

We have...

- Worked with local NHS providers to assess the risk of climate change
- Undertaken a climate change risk assessment
- Established a Ways to Wellbeing working group and delivery plan
- Supported Bristol Healthy City Week (October 2016)
- Established a Sustainability Impact Assessment (SIA) for all capital planning business decisions
- Launched weekly staff lunchtime healthy walks
- Promoted personal resilience through the staff vaccination programme

We will...

- Prepare an NBT climate change adaptation plan
- Undertake a climate change adaptation risk assessment

Image: Southmead Hospital staff lunchtime health walk 2017



Sustainable Clinical and Care Models

We strive to improve staff and patient experience by moving towards more sustainable models of care and workplace practices.

One of the key elements of climate change adaptation is to move towards more sustainable clinical care models. It is increasingly important to consider the environmental and social impact of how our services are delivered to ensure long term financial, social and environmental sustainability is achieved as part of the Five Year Forward View and local STP.

We aim to deliver exceptional care within the resources available. This has always been a challenge and will become increasingly so as costs escalate and scarce resources diminish.

Transforming the way we deliver our healthcare service provides an opportunity to take a whole systems approach to sustainability and the long term health co-benefits which sustainable models of care can deliver.

By enabling our patients to live well through self-management, and by providing the right support, prevention, early intervention and acute and specialist rehabilitation, we can further promote patient health and reduce the pressures on our services and their associated environmental impacts in the longer term.

Taking account of the environmental and social impacts of our services supports the development and delivery of more integrated and sustainable models of care in line with the STP to deliver long term financial sustainability for the Trust.

We have....

- Secured greater HR representation on the Sustainable Development Steering Group to identify and drive forward sustainable workplace practices.
- Begun educating and raising awareness amongst clinical staff about how they can contribute to sustainable health care delivery including tackling carbon hotspots

We will...

- Further engage clinicians to identify and pursue the delivery of sustainable models of care across the Trust.

Image: Year 2 Doctors Sustainable Development Training with David Pencheon, National Sustainable Development Unit



Innovation

We strive to adopt innovative ways to achieve multiple benefits which reduce our environmental impact, lower our costs, improve quality of care and health outcomes, and enhance social value as part of our services.

One recent innovation is the establishment of the Sustainable Healthcare charitable funding pot. The Southmead Hospital Charity, together with the Trust's Sustainable Development Unit have set up a funding pot to deliver a range of health and wellbeing projects for the benefit of our patients and their families as well as our own staff and the local community.



The Sustainable Healthcare fund aims to:

- Promote social cohesion and raise awareness of personal resilience and the prevention of avoidable illness through innovative engagement on sustainable lifestyle choices
- Promote improved mental and physical health and wellbeing by recognising the therapeutic benefits of better access to and creative use of green space.
- Support the delivery of excellence in patient experience by nurturing a happier, healthier and more sustainable workplace.

Southmead Hospital Allotment

The Trust is currently fundraising to create an allotment onsite at Southmead Hospital for use by patients and staff. The allotment will promote staff health and wellbeing, whilst also providing an outdoor activity for patients going through rehabilitation.

Fundraising so far has included;

Southmead Lavender Project

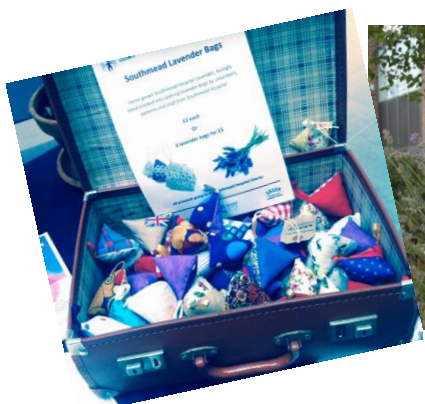
The Southmead Hospital Move Makers and members of staff have been harvesting Southmead lavender and to make soothing lavender bags for sale.

Fairtrade Fortnight Cake Sale

Environmental Awareness Reps (EARs) and Green Impact Team members from across the Trust raised money during Fairtrade Fortnight selling homemade Fairtrade goodies for staff and patients to enjoy.

If you would like to donate or find out more about the Sustainable Healthcare Charity Fund (ref 2243), please contact The Southmead Hospital Charity www.southmeadhospitalcharity.org.uk

Images: Fundraising Activities 2017



Southmead Herb Garden

For 2016/2017 The Southmead Hospital Charity, in conjunction with Carillion and The Hospital Company sponsored the transformation of the staff roof terrace in the new Brunel Building into a culinary, medicinal and therapeutic herb garden to support the wellbeing of our patients and staff.

It is widely acknowledged that access to high quality green space and the opportunity to see and interact with nature provides enrichment for people and improves health and wellbeing.

The hospital setting can be a stressful and emotionally challenging environment for clinical staff who provide high quality care for patients in critical situations. Access to quality outside space has been proven to reduce these negatives and offer health benefits to all.

Jekka McVicar, a locally based and internationally acclaimed herb expert and RHS Ambassador for Horticulture and Health and Wellbeing designed and planted the herb garden for the hospital as she wanted to give something back to the staff.

The garden is designed to provide organic, home-grown fresh herbs for use by the Catering Department for both staff and patient meals, adding colour and flavour replacing fat, sugar and salt as well as providing powerful antioxidants and health giving properties.

In addition to providing a valuable sensory haven for staff, the herb garden also benefits the hospital in the following ways;

- The garden can be used by clinicians to assist in active therapy to promote recovery

- The garden encourages biodiversity through the provision of pollen rich plants to support bees and other smaller insects to flourish

We have...

- Established a "Sustainable Healthcare" Charitable Funding pot for the delivery of projects which will contribute to the health and wellbeing of our patients and staff.
- Planted a medicinal and culinary herb garden for the health and wellbeing for our staff.

We will...

- Identify further innovative projects to deliver sustainable development improvements

*Images:
The Vu Roof Terrace Herb Garden,
Jekka McVicar and Andrea Young CEO,
Bumblebee on Hissop*



Social Value

We recognise the importance of adding social value to our local community and across our healthcare service.

Our Learning and Development Division delivers traineeships and apprenticeships in clinical and non-clinical roles as part of our approved Trust Traineeship and Apprenticeship Scheme.

The Trust is one of the founding members in the South West Association of Training Providers Ltd (SWATPro) which has gone on to deliver pioneering apprenticeships in the health sector.

The Learning and Development strategy identified the need to develop our talent and succession planning through learning pathways which meet employer and learner need.

It has also supported the work we do to deliver work experience opportunities and progression into work within our local community.

We have been able to showcase what is good about working in the health sector and our learners have become ambassadors for the organisation and their professions.

Apprenticeships offer the ideal combination of knowledge and practical skills development to support learners in gaining competence in the role.

Learners also value the ability to earn a wage whilst they're learning and this has helped to develop loyalty to the organisation and the services they deliver. Every year we recognise our apprentices and trainees as part of the national apprenticeship week and through our own award ceremony.

We have...

- Achieved GOOD from OFSTED for our Apprenticeship delivery partnership – South West Training Providers Association (SWATPro)
- Developed an online e-portfolio
- Celebrated our apprentices and trainees at our annual award ceremony during National Apprenticeship Week.

We will...

- Explore the opportunity to recruit an apprentice within the Sustainable Development Unit
- Further embrace technology to support the apprenticeship / traineeship scheme.
- Work with Bristol and Weston Purchasing Consortium (BWPC) to ensure social value is included within our procurement processes.

Image: NBT Healthcare Apprenticeship Award Ceremony 2017



Carbon Abatement

NHS England has set an ambitious goal to reduce carbon dioxide equivalent emissions across building energy use, travel and procurement of goods and services by 34% by 2020.

The Trust has identified its carbon hotspots where we need to prioritise our carbon reduction activities (see Figure 2) These carbon hotspots are predominantly procurement, energy and travel (please see figure 2), however our activities across waste and recycling and also the provision of food are also highlighted as potential carbon hotspots which require mitigation.

Our Carbon Footprint

The Trust has calculated the carbon footprint using the NHS Sustainable Development Unit's model which considers total operating costs against the total number of patient contacts over the year

(total patient contacts are calculated from emergency department, inpatients, and outpatients and follow up appointments).

This enables the Trust to compare the annual trend of carbon emissions against a backdrop of an increasing demand for the provision of healthcare in the local area, which also continues to rise.

Over the last year, the Trust has seen an increase in the proportion of carbon emissions from both our procurement activity (60% to 66%) and from our patient travel (8% to 10%). Both of these figures are representative given the increase in patient contacts over the last year. Proportionally, our emissions from direct energy consumption have reduced (30%-24%).

The following sections outline the actions the Trust has taken to reduce our carbon emissions over the last year and our plans for the coming year.

Figure 1 NHS Carbon Footprint against CO₂e baseline to 2020 with Climate Change targets

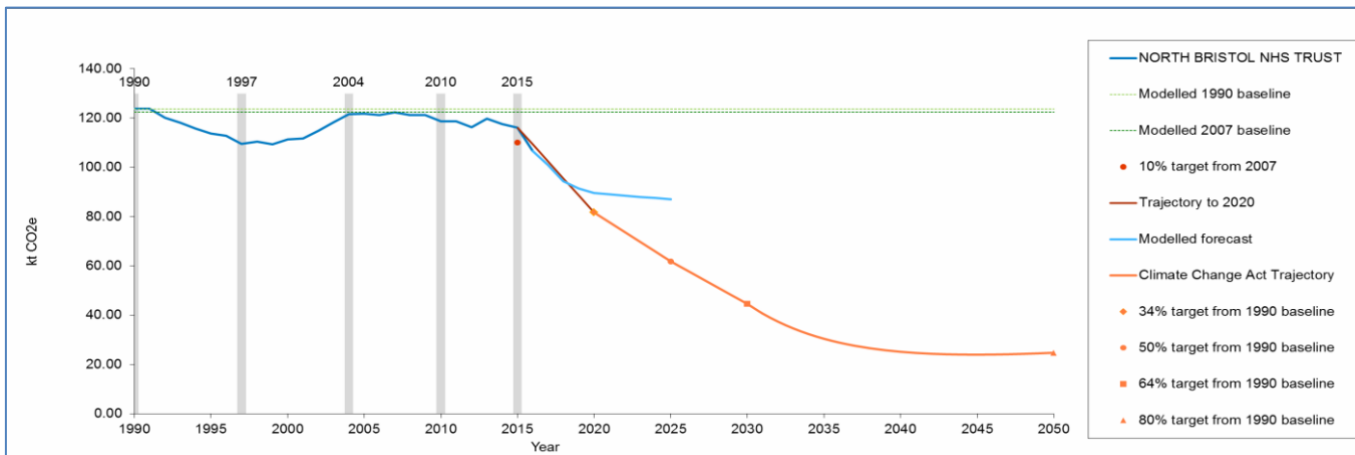


Figure 2 NBT's Carbon Footprint Proportions 2016/2017

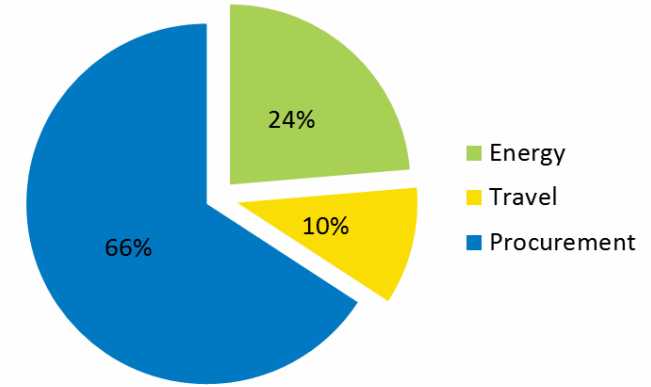


Figure 3 NBT's Carbon Emissions by Scope 2014 -2017

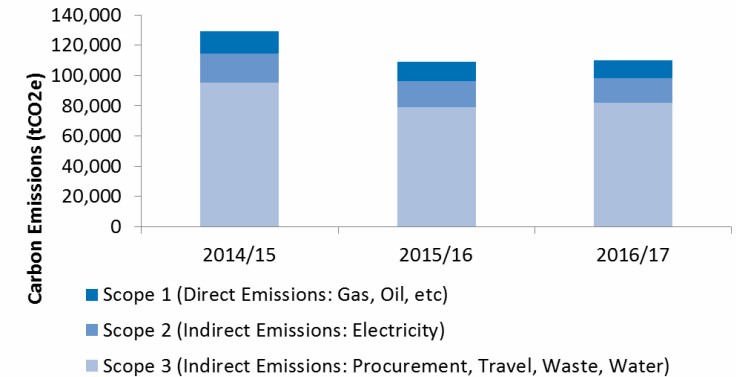
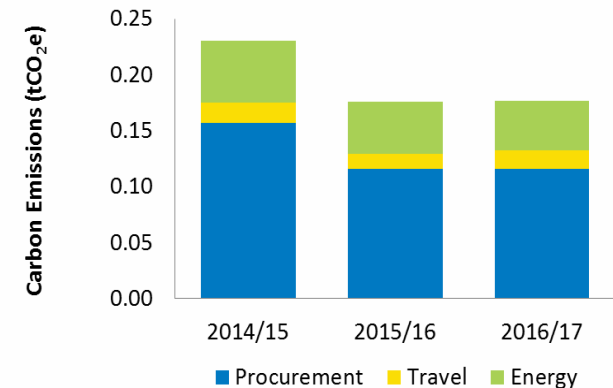


Figure 4 NBT's Carbon Footprint by Patient Contact



- Procurement

We are committed to ...

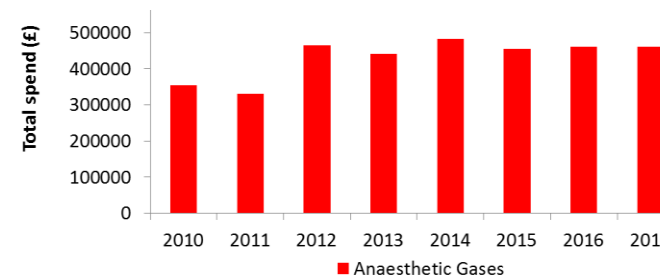
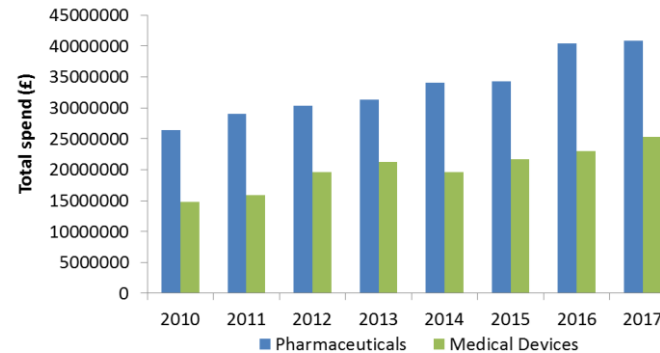
working with our key suppliers and contractors to reduce the environmental impact of the goods and services we buy.

The national healthcare system spends in excess of £40 billion each year on the procurement of goods and services which presents a significant opportunity to not only influence the suppliers of these goods and services but to develop more environmentally, financially and socially responsible practices. Procurement for NBT represents 66% of the Trust's total carbon emissions. Our procurement demand is not something the Trust can control directly given it directly correlates with patient contact, however using our influence and through our procurement processes, we aim to encourage suppliers to reduce the environmental impact from the goods and services they provide.

Anesthetic Gases, Medical Devices and Pharmaceuticals

Anesthetic gases, medical devices and pharmaceuticals represent a significant spend, correlating directly to patient demand.

Figures 5 & 6 Pharmaceuticals, Medicals Devices & Anesthetic Gases



We have...

- Drafted a Sustainable Procurement Policy
- Identified how sustainability can be embedded within our sourcing processes.
- Established a sustainable procurement working group

We will...

- Adopt the Sustainable Procurement Policy
- Embed sustainability into our procurement processes
- Develop sustainable procurement training for all staff to be made available on the Managed Learning Environment (MLE).
- Establish what North Bristol NHS Trust can do to further promote Social Value through our commissioning and procurement processes.

Image: Materials Management Supplies, Theatres, Southmead Hospital



- Energy and Water

We are committed to...

- Reducing the environmental impacts of energy and water

Energy

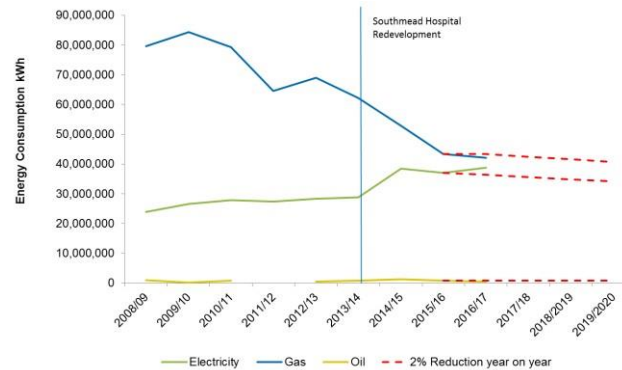
The carbon emissions associated with energy consumption have reduced over the last year as part of the Trust's total carbon footprint (see page 12).

Energy use, particularly from natural gas (direct scope 1 emissions) has continued to decline since the closure of Frenchay Hospital. The use of oil (direct scope 1 emissions) remains low, due to the minimal use of backup generators onsite.

However, electricity consumption (indirect scope 3 emissions) has seen a slight increase commensurate with the provision of a twenty-first century healthcare building using increased amounts of technology and treating more patients.

Figure 7: NBT Energy Consumption 2008-2017

* This data reflects the ERIC report (see page 20) and does not reflect the annual report (16/17) which included energy consumption used by other organisations on our site



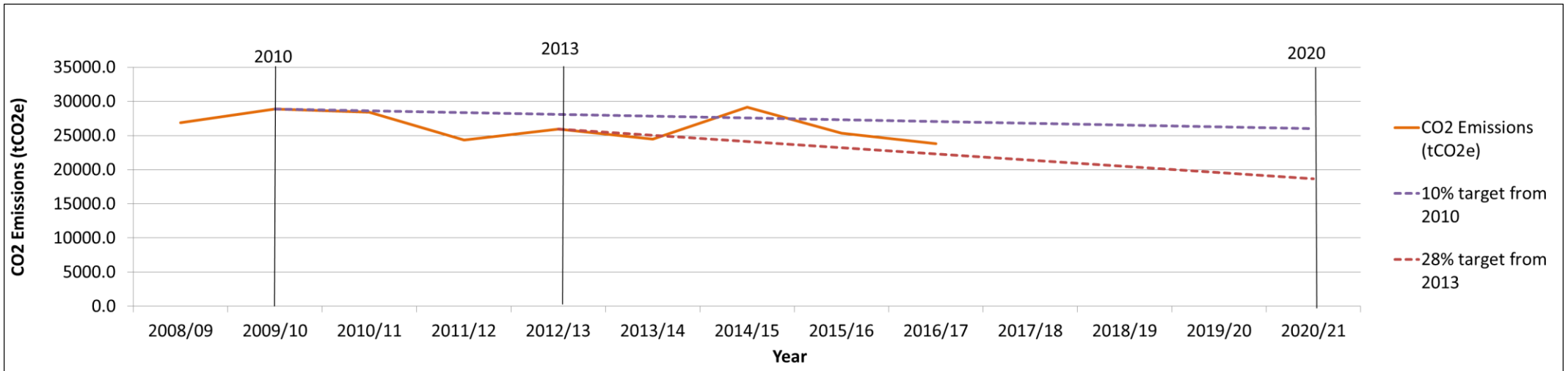
This increase in electricity consumption can also be attributed to the movement of Public Health England into the new Pathology Building in the Science Quarter.

In order to achieve the carbon reduction required to meet the 2020 target (28% from 2013 baseline), the Trust is working to deliver a Carbon Abatement Plan (CAP).

The CAP sets out the Trust's ambition to achieve 5% carbon savings year on year, putting the Trust on track to achieve its overall carbon target of 28% by 2020.

The Trust aims to meet this target through the actions and energy efficiency improvements set out in the Carbon Abatement Plan to achieve both cost and carbon savings over the next three years.

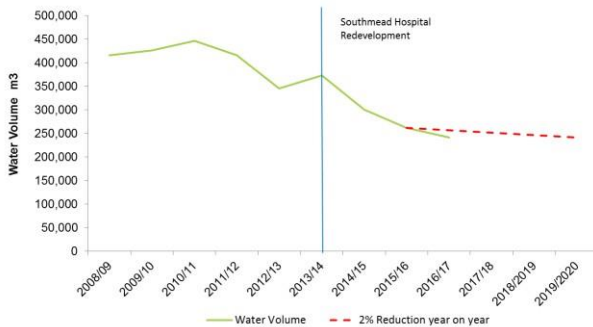
Figure 8: NBT Energy Carbon Emissions 2009 -2020



Water

Water consumption continues to fall since the closure of Frenchay Hospital, even with the opening of the new Sterile Services Department onsite at Southmead as part of the phase 2 completion works.

Figure 9: NBT Water Consumption 2008-2017



Staff engagement on energy and water conservation continues through Green Impact, NBT's staff engagement scheme.

We have...

- Drafted an Energy and Water Policy
- Established an Energy Conservation working group with our PFI Partner
- Developed a Carbon Abatement Plan
- Completed phase 2 of the hospital redevelopment which includes extensive sustainable urban drainage systems.
- Promoted Energy Awareness through the following Green Impact initiatives targeting energy and water conservation measures;
 - TLC (Turn off, Lights out, Close doors)
 - Get Fit Take the Stairs campaign
 - Less waste, more care: Turn off taps

We will...

- Adopt and implement the Energy and Water Policy
- Prioritise and deliver the Carbon Abatement Plan to include;
 - Energy efficient reviews and upgrades
 - Review additional renewable energy options for site
 - Staff engagement and behavior change
 - Optimise building management systems (BMS)
 - Improve heating controls
 - Improve the efficiency of chillers
 - Investigate further water efficiency saving opportunities

Image: Attenuation Pond, Sustainable Urban Drainage, Southmead Hospital



- Travel and Transport

We are committed to...

- Reducing the environmental impacts of our travel and transport

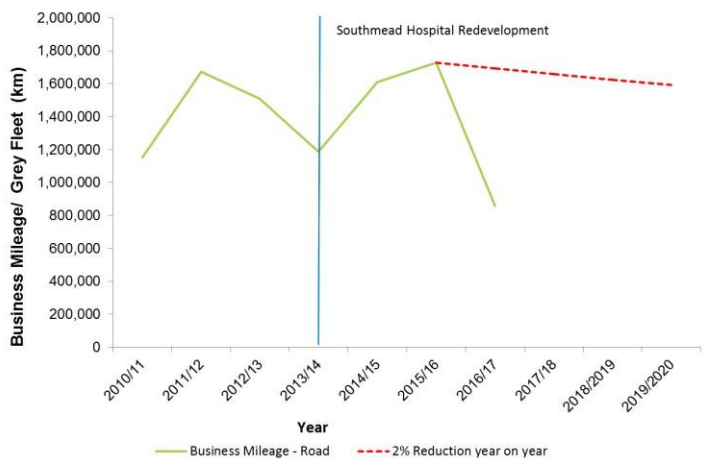
Active travel plays a significant part in both reducing traffic on the roads whilst also promoting health and wellbeing. The Trust runs the Travel Smart scheme aimed at encouraging staff, patients and visitors to travel sustainably where they can. This is reflected in the Trust’s Travel Plan.

Travel Smart promotes cycling, walking, public transport and lift-sharing as alternative ways to travel to work. During 2017, the Trust launched a new lift share scheme to further reduce the number of cars on the road in line with the new lift share policy.

Grey Fleet

Grey Fleet (business mileage) is monitored through the staff expenses system. Data from 2016/2017 shows a significant reduction in mileage by staff using their own vehicles, which is as a result of the loss of the Children’s Community Health Partnership (CCHP) from North Bristol NHS Trust at the end of March 2016.

Figure 10: NBT Grey Fleet Mileage 2010-2017



We have...

- Won Most Improved Workplace Award and “Organisation of the Year Award (Travel West Awards 2016)
- Installed 460 new cycling spaces (Brunel Cycle Hub and Pathology)
- Adopted and launched a Lift Share Policy (50 lift share spaces)
- A staff bike scheme in place
- Measured our staff travel through the “Big Commuter Count” and our own NBT Staff Travel Survey
- Undertaken a patient and visitor travel survey
- Launched a “switch off when you drop off” campaign to improve local air quality

We will...

- Retain our Silver Star Accreditation Travel Plan
- Promote the Southmead Quiet Way to further encourage more walking and cycling to site
- Increase lift share spaces onsite

Image: Designated staff lift share spaces at Southmead Hospital



- Waste and Recycling

We are committed to....

- **Reducing the environmental impacts of waste**

North Bristol NHS Trust generates a significant volume of waste on a daily basis, which increases incrementally with the demand for healthcare and increased patient contact.

Waste production and recycling have both increased during 2016/2017 in line with increased levels of activity at the Trust.

Recycling rates have significantly improved this year following operational improvements and better segregation of bagged waste, although there is more to be done in this area around engagement and awareness, particularly for recycling.

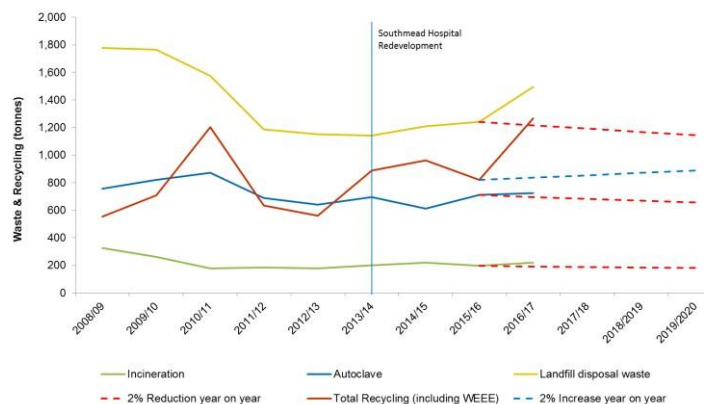
The roll-out of offensive hygiene waste (non-infectious clinical waste) to all wards has seen an increase to 17% in the weight of waste being sent to deep landfill instead of autoclaving.

Further roll-out of offensive hygiene waste into all applicable outpatient areas will be complete soon and theatres will follow.

Food waste from the onsite retail outlets is now being segregated for disposal via energy generation and coffee grounds from the staff restaurant are given away to staff as a soil improver.

The Trust introduced the online re-use platform Warp-It in September 2016 and since then has avoided nearly 5 tonnes of reusable furniture and equipment from going to landfill, saved 16 tonnes of carbon dioxide and achieved financial savings of over £37,000.

Figure 11: NBT Waste and Recycling 2008-2017



We have...

- Developed a Trust Waste Compliance Group
- Launched Warp-it, an NBT wide re-use scheme to reduce waste going to landfill.
- Promoted waste and recycling within Green Impact, our staff engagement scheme
- Established food waste, coffee grounds and coffee cup recycling schemes from our concession based onsite.
- Promoted re-use through the use of travel mugs and lunchboxes for staff
- Rolled out offensive waste within most of the Brunel Building and Cossham and Thornbury Hospitals
- Introduced a dedicated Waste Portering Team

We will...

- Roll out offensive waste within theatres
- Undertake a trial for the use of alternative containers for IV drip and pharmaceutical waste disposal

Image: NBT Warp-It Campaign 2016/2017

Don't waste it,
WARP-IT.



- Food and Catering

We are committed to....

- **Sourcing local, organic, seasonal and fairly traded ingredients for the food we serve**

North Bristol NHS Trust prepares and serves approximately 3000 meals a day to our patients and staff. As a healthcare provider, we have a unique opportunity to raise awareness, lead by example and create a health-promoting environment serving appetising, nutritious and sustainable meals to all.

The Trust is part of the Soil Association's Hospital Leaders Programme, which recognises the importance of good nutrition for health, recovery and rehabilitation. The scheme also acknowledges the importance of sustainable food provision, by choosing locally sourced, organic and seasonal produce where we can.

Our progress on this is reflected within our Food for Life Bronze and Silver Catering Mark achieved for staff and patient meals.

To further deliver our commitment to sustainable food sourcing, the hospital is preparing a Food and Drink Strategy.

The Strategy recognises the important link between health and wellbeing and delivery of sustainable healthcare. By ensuring our food choices are healthy and sustainable, maximising local and seasonal sourcing where we can and minimising food and drink waste, the Trust is also demonstrating its commitment to being a Good Corporate Citizen, which will be reflected within the Good Corporate Citizen Assessment benchmark.

Our progress towards Fairtrade has shifted over the last year following a commercial decision to switch the coffee offering in the Vu café to Rainforest Alliance. This explains the reduction in Fairtrade food provision within the sustainable development indicators; however the café continues to support Fairtrade through the sale of Fairtrade chocolate in the café.

We have...

- Established a Food and Drink Strategy working group and drafted a Food and Drink Strategy
- Retained The Soil Association Bronze and Silver Food for Life Catering Mark for our staff and patient meals
- Promoted local, seasonal and organic produce through the weekly fruit and veg stall provided by The Community Farm.
- Promoted Fairtrade Fortnight
- Promoted "Sugar Smart" and the "The Cardiologists Kitchen" to encourage healthy eating
- Planted a culinary herb garden

We will...

- Finalise our Food and Drink Strategy
- Maintain the Soil Association Food for Life Catering Marks for Staff and Patient meals.

Image: The Community Farm weekly organic fruit and veg stall, Southmead Hospital



Biodiversity

We are committed to...

- **Protecting and enhancing the environment, including the prevention of pollution**

The Trust is responsible for the upkeep and maintenance of green spaces across all our sites in Bristol.

We recognise our green spaces provide an important habitat for wildlife which contributes to Bristol's wider green biodiversity network.

There is mounting research evidence that access to green space and biodiversity can provide health, social, environmental and financial benefits. By managing our green spaces effectively can lead to improved biodiversity, improved air quality, noise reduction, can provide local cooling and

shading and reduce local surface water flooding.

However one of the most important elements for the Trust is the inclusion of green infrastructure across our hospital sites for the benefit of staff and patient health and wellbeing.

The Pathway to Wellbeing project emphasises the importance of spending time outside and enjoying our green space and using and sharing it as a resource.

We have...

- Established a biodiversity working group
- Installed a sustainable urban drainage scheme at Southmead hospital to reduce surface water runoff.
- Undertaken a biodiversity survey and developed an action plan with Avon Wildlife Trust

- Built and installed insect hotels at Southmead Hospital
- Planted a pollen rich culinary and sensory herb garden to promote biodiversity onsite

We will...

- Promote biodiversity through our Ways to Wellbeing delivery plan;
 - Develop a staff and patient allotment
 - Explore My Wild Hospital funding opportunities
 - Install bat boxes and insect hotels onsite
 - Increase wild flowers and pollen rich plants
 - Explore opportunities to establish bee hives onsite

Image: Buff Tailed Bumblebee, Beaufort House, Southmead Hospital



Metrics

There is a requirement on North Bristol NHS Trust to report progress on sustainable development in line with national guidance. These reporting requirements are laid out below.

NHS Standard Contract

The NHS Standard Contract requires the Trust to take all reasonable steps to minimise adverse impacts on the environment. The contract specifies that North Bristol NHS Trust must demonstrate progress on climate change adaptation, mitigation and sustainable development and must provide a summary of that progress in the annual report. In addition to the Standard Contract requirements, NHS Trusts have an obligation to complete the sustainability reporting template to the national

Sustainable Development Unit. Equally this is required of NBT through our contract with our local Clinical Commissioning Group.

Estates Return Information Collection (ERIC)

The Department of Health requires Trusts to report ERIC (Estates Return Information Collection) data. ERIC data comprises essential statistics on waste, energy and water (amongst other data sets) from Estates and Facilities.

Sustainable Development Management Plan (SDMP)

The NHS Sustainability Strategy requires Trusts to report progress in a Trust Board approved Sustainable Development Management Plan (SDMP). A detailed SDMP action plan drives forward the SDMP objectives and sets out specific actions in line with the national strategy.

Performance against the SDMP action plan is reported to the Sustainable Development Steering Group on a quarterly basis.

Sustainable Development Management Plan Objective #3								
3. HEALTHY, SUSTAINABLE & RESILIENT COMMUNITIES								
3a) We must adapt to the impacts of climate change to ensure a healthy, resilient sustainable healthcare system ready for changing times and climates.								
No.	Theme	Objective	Plan	Timeframe	Owner	Metrics	Status	Ref.
1.3	Adaptation	Ensure NBT is resilient to extreme weather events	Ensure NBT business continuity plans include extreme weather events and staff are encouraged to prepare personal resilience plans	Mar-15	Emergency Planning	Plans updated & personal resilience plans communicated to staff	Ongoing	GCC Section 8.1, Env Policy
1.4	Adaptation	Ensure Southmead Hospital redevelopment programme includes climate change adaptation & mitigation measures	Complete phase 1 of the Southmead hospital redevelopment	May-15	Capital Projects	Phase 1 handover complete	Complete	GCC Section 7.3, Env Policy
1.6	Adaptation	Ensure Southmead Hospital redevelopment programme to include climate change adaptation & mitigation measures	Complete Phase 2 of Southmead Hospital redevelopment	May-16	Capital Projects	Phase 2 handover complete	Complete	Env Policy, GCC Section 7.1
1.7	Adaptation	Ensure Bristol's healthcare service is resilient to the effects of climate change	Investigate the feasibility of citywide NHS Climate Change Adaptation Plan	Oct-16	ISU / local NHS Trusts	Adaptation plan in place	no appetite for city-wide plan - on progress	Env Policy, GCC Section 7.1
1.8	Adaptation	Ensure Bristol's healthcare service is resilient to the effects of climate change	Prepare a summary of adaptation planning requirements specifically for NBT	Dec-16	ISU	Summary prepared	in progress	
1.9	Adaptation	All capital & refurbishment projects must include climate change adaptation & mitigation measures.	Sustainability Impact Assessments (SIA) to be incorporated within Capital Planning Process	Apr-17	Capital Projects	SIA incorporated (ISU consulted as required)	complete	Env Policy, GCC section 7.1

The annual Trust Board approved SDMP is published in September and is available on the North Bristol NHS Trust [website](#).

Image: First Bus, Brunel Building, Southmead Hospital



Good Corporate Citizen Assessment

The Good Corporate Citizen Assessment model was developed for Trusts to benchmark progress on sustainable development. The assessment allows Trusts to measure how well their activities support sustainability both inside the organisation and outside in the community.

By 2018 the Trust should be achieving 25% across all sections, plus four sections with at least a score of 50%. The assessment for 2017 highlights that the Trust priorities should focus on procurement, community engagement, adaptation and sustainable models of care.

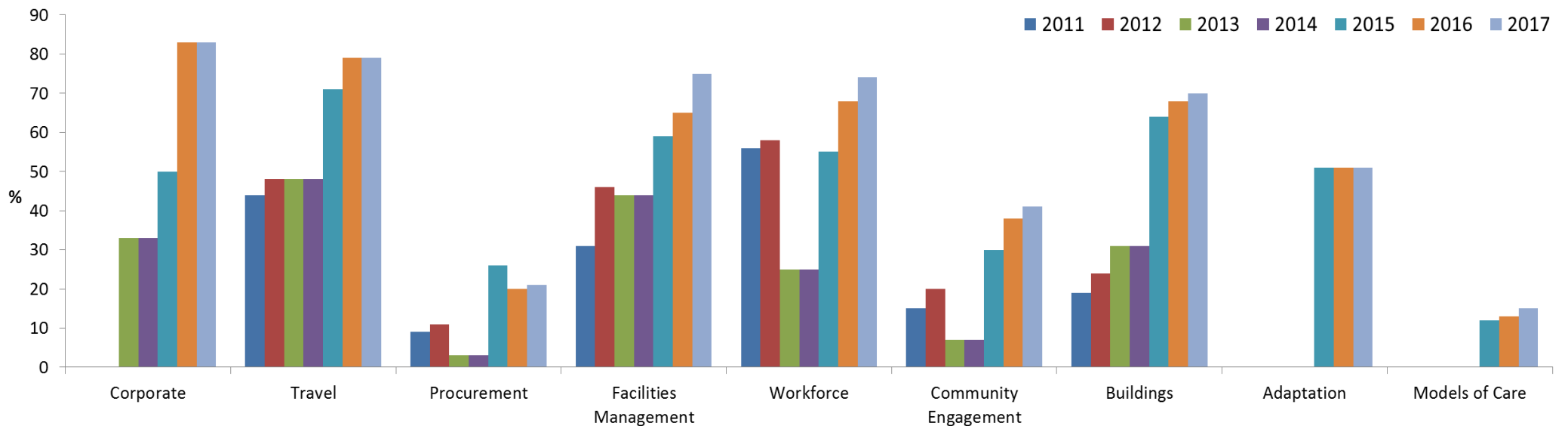
We have...

- Been awarded “Excellence in Sustainability Reporting” from HFMA, NHS Improvement and the national Sustainable Development Unit (March 2017)
- Reported against the NHS Standard Contract requirements.
- Reported against the actions outlined within the Sustainable Development Management Plan to the Steering Group on a quarterly basis.
- Reported against the Estates Return Information Collection data (ERIC)
- Assessed ourselves against the Good Corporate Citizen criteria in 2016/17 and published the results.

We will...

- Continue to report against the GCCA requirements

Figure 12: NBT Good Corporate Citizen Assessment 2017



Sustainable Development Indicators

INDICATOR		KPI	2014/2015	2015/2016	2016/2017	Trend
CARBON	Carbon Footprint (energy, waste, water, travel and procurement)	Tonnes CO ₂ e		108,153	106,057	✓
ENERGY	Electricity	KW/h	38,499,476	37,058,071	38,828,428	✗
	Gas	KW/h	52,861,111	43,376,291	42,115,642	✓
	Heating Oil	KW/h	1,259,671	865,098	543,381	✓
RENEWABLE ENERGY	Renewable (Solar PV and biomass)	KW/h	2,197,794	1,572,423	2,762,216	✓
WATER	Water	M3	300,858	261,961	241,944	✓
TRANSPORT	Business Travel	Miles	/	/	/	/
	Grey Fleet	Km	1,609,097	1,725,973	857,369	✓
TRAVEL	Staff commute – Single occupancy vehicles	%	45.5	-	43	✓
	Staff commute – Cycling	%	20	-	21	✓
	Staff commute – Public transport	%	12	-	9	✗
	Staff commute – Walking	%	10.5	-	13	✗
	Staff commute – Lift share	%	8	-	7	✓
RECYCLING	Recycling	Tonnes	961	820	1266.03	✓
WASTE	Incineration	Tonnes	220.5	196.1	220.45	✗
	Autoclave	Tonnes	613.1	709.8	724.88	✗
	Landfill	Tonnes	1209.8	1241.8	1495.62	✗
FOOD	Local (50 miles)	%	20.6	23.7	35%	✓
	Organic	%	2.3	3.7	2.5%	✗
	Fairtrade	%	3.5	4.8	1.5%	✗

We would welcome your views

We are continually striving to improve sustainable development here at North Bristol NHS Trust and would welcome your views on how we can do this.

Please send any comments, ideas, suggestions or feedback you may have to;

**Sustainable Development Unit
Sustainable Health & Capital Planning**

North Bristol NHS Trust

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