





Foreword

North Bristol NHS Trust is one of the largest healthcare providers, employers and consumers in the region. As such, we recognise the environmental impact of the healthcare service we provide to our local community and the potential co-benefits of minimising this impact.

As a healthcare provider, we must adapt and react to climate change and maximise every opportunity to improve economic, social and environmental sustainability where we can.

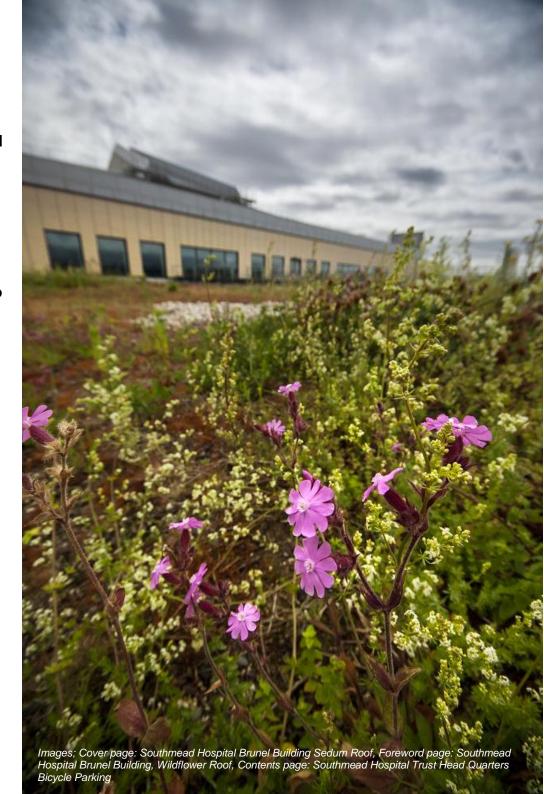
This Sustainable Development Management Plan outlines our contribution towards the NHS Sustainability Strategy and our vision to be a healthy, resilient sustainable healthcare service ready for changing times and climates, both now and for future generations.



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Andrea Young Chief Executive

Peter Rillett Chairman





NHS Sustainability Strategy 2014 - 2020 Sustainable, Resilient, Healthy People and Places

NHS England's Sustainability Strategy, "Sustainable, Resilient, Healthy People and Places" describes the vision for a sustainable healthcare system through reducing carbon emissions, protecting natural resources, preparing communities for extreme weather events and promoting healthy lifestyles and environments.

The strategy supersedes the NHS Carbon Reduction Strategy (2009), and requires the NHS to adopt an integrated, aligned and coordinated approach to deliver sustainability in a changing climate. The strategy goes beyond the NHS to the wider social care and public health system and beyond carbon reduction to include other areas of sustainable development such as climate change adaptation and sustainable models of care, placing much greater emphasis on our relationship not only with staff but with contractors, suppliers, patients, visitors and the surrounding community.

The NHS Sustainability Strategy requires NHS Trusts to prepare a Board approved Sustainable Development Management Plan.



Figure: Sustainable, Resilient, Healthy People and Places, Sustainable Development Unit, 2014

Vision

A sustainable health and care system which works within the available environmental and social resources protecting and improving health now and for future generations. This means working to reduce carbon emissions, minimising waste and pollution, making the best use of scarce resources, building resilience to a changing climate and nurturing community strengths and assets.

Climate Change and Health

Climate change is the change in climatic patterns largely attributed to the increased levels of atmospheric carbon produced by the use of fossil fuels.

Described as the biggest global threat to health facing the twenty first century by the World Health Organisation and more recently in The Lancet, (2015), climate change is predicted to have far-reaching consequences to weather systems, global temperatures, food scarcity, water scarcity and cause changes to communicable disease patterns and biodiversity.

It is predicted climate change will increase the number of heat /cold related illness and deaths, increase the amount of food, water and vector borne diseases, increase skin cancers and sunburn, 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 caused by climate change.

As a Trust we will face pressures to keep our services running during extreme weather events and associated fuel, water and food shortages and face increased demand on our services from the associated health impacts of climate change.

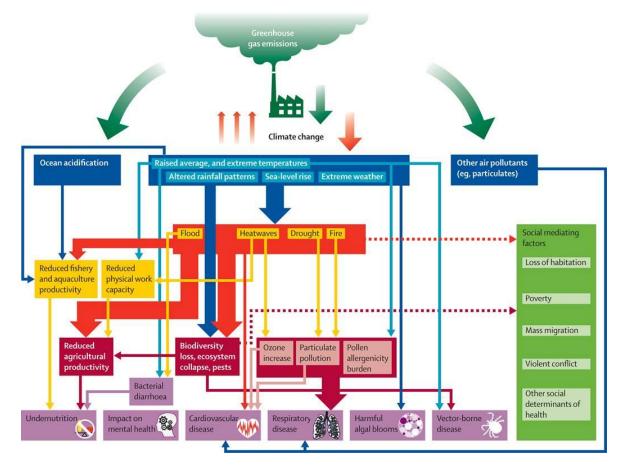


Figure: Health and climate change; policy responses to protect public health. The Lancet, June 2015. An overview of the links between greenhouse gas emissions, climate change, and health.

Climate Adaptation and Mitigation

As a Trust, we must become resilient to the effects of climate change and adopt adaptation and mitigation measures to prepare for and reduce the impacts of a changing climate on our healthcare service.

Climate change adaptation is the understanding and implementation of resilience measures to enable us to prepare for the effects of climate change.

We will achieve this by ensuring our Business Continuity plans consider and plan for the vulnerabilities of our healthcare service, our staff and our patients to climate impact risks. Consideration will also be given to the secondary impacts of climate change, such as the effects of storms 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.

Climate change mitigation measures are actions which limit the effects of climate change by reducing the amount of carbon and greenhouse gases we release into the atmosphere. Our carbon mitigation measures are detailed within this SDMP.

By adopting climate change adaptation and mitigation measures we will become a healthy, resilient, sustainable healthcare service ready for changing times and climates.



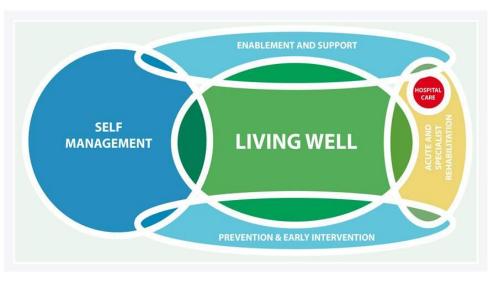
Sustainable Models of Care

One of the key elements of climate change adaptation is to review the way we deliver our healthcare service so we can achieve more sustainable clinical and care models.

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

To be prepared for it is increasingly important to consider the environmental and social impact of how our services are delivered.





Figure; Sustainable Development Unit (2014) Sustainable resilient healthy places and people; Sustainable, Clinical and Care Models

Transforming the way we deliver our healthcare service provides an opportunity to take a whole systems approach. Sustainable models of care can include ensuring our patients live well through self-management, enablement and support and prevention and early intervention. By taking account of the environmental and social impacts of our service models, we can support the development and delivery of more integrated and sustainable models of care in the future. For example, by providing care closer to home, we can reduce patient travel emissions, improve local air quality and reduce congestion and it is often more convenient for the patient.

Sustainable models of care also include preventative strategies to achieve both environmental and health improvement outcomes or "co-benefits".

Prevention and early intervention through living well, education and provision of healthy food choices and the promotion of active travel both improves health and wellbeing of patients, staff and the community, but also reduces the impact on the environment.

Delivering the Vision

This Sustainable Development Management Plan sets out how we will deliver the vision of the National Sustainability Strategy at North Bristol NHS Trust.

Sustainable Development Governance

The Director of Estates, Facilities and Capital Planning, Simon Wood has been appointed as 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 is chaired by the Sustainability Lead, Simon Wood.

The group meets quarterly and includes Executive and Non-Executive Director's (NED's), our Special Advisor on Public Health and Sustainability and the Sustainable Development Unit. The Steering Group drives forward the sustainable development agenda at NBT.



Photo: NBT Environmental Awareness Reps (EARs) at our Environmental Policy launch, May 2015

The Sustainable Development Momentum Group is chaired by the Sustainable Development Manager. This working group meets monthly and is responsible for the delivery of the Sustainable Development Management Plan, Good Corporate Citizen Assessment and monitoring environmental improvement across all work areas.

The Sustainable Development Manager manages a small team of specialist advisors working towards sustainable development, including the implementation of the Environmental Management System ISO14001.

The Trust has approximately 170 Environmental Awareness Representatives (EARs), who act as Sustainability Champions within their specific work areas.

Communication

As part of our Environmental Management System we have developed a communications strategy outlining how we will communicate with our stakeholders on our sustainable development agenda.

The communications strategy outlines our methods of communication, both internally and externally to the Trust. Our strategy also includes our sustainable development brand including our logo and icons which we have developed to help communicate our information in a simple and effective way in order to engage stakeholders such as staff, patients and the local community on sustainability issues.

Reporting

The National Sustainability Strategy requires us to report on our sustainable development progress in a Board approved Sustainable Development Management Plan (SDMP). This SDMP will be updated on an annual basis.

We are also required to report our progress on sustainable development through the Good Corporate Citizen Assessment on a six monthly basis, annual ERIC returns and within the HM Treasury annual Chairman's report, which includes a section on Sustainability.

For the first time in 2015, Bristol Clinical Commissioning Group now requires NBT to report on sustainability as part of our Contract.

Sustainable Healthcare













Sustainability

fruit and veg produce proved to be

healthy eating and low carbon food.

The fair was organised to mark

Other stall holders that joined in the

celebrations to promote sustainable

lifestyle choices, health and wellbeing included Dr Bike, Bristol

incredibly popular and promoted

On 26 March in the atrium of Brunel the Sustainable Development Unit, Travel Smart and our Health & Wellbeing Team joined forces with other local NHS Trusts to showcase what we are doing to reduce our environmental impact and raise awareness about the links between our environment, sustainability, health and wellheing

Fairtrade Neal's Yard Remedies the A non-up stall by local growers Travel West Roadshow the Centre Bristol Community Farm was located for Sustainable Energy, Warm up Bristol, and Pukka Herbs







Corporate Vision and Governance

We are committed to....

 Managing our environmental impacts and delivering continuous environmental improvement and performance across our healthcare service

We have...

- Adopted an Environmental Policy
- Established a Governance Structure for Sustainable Development at North Bristol NHS Trust
- Appointed an Executive Director Lead for Sustainability.
- Appointed a Non-Executive Director Lead for Sustainability
- Appointed an Expert Advisor on Sustainability and Public Health
- Appointed an Environmental Management System Coordinator to implement ISO14001 across the Directorate of Estates, Facilities and Capital Planning
- Actively benchmarked our progress with other NHS Trusts using the Good Corporate Citizen Assessment on a 6 monthly basis

We will...

- Report against our Environmental Policy commitments, objectives and targets on an annual basis
- Implement ISOI14001 within the Directorate of Estates,
 Facilities and Capital Planning
- Identify, utilise and develop avenues to share good practice
- Actively communicate our plans with stakeholders
- Engage with our patients and the public on sustainable healthcare
- Aspire to be a leader in sustainable healthcare

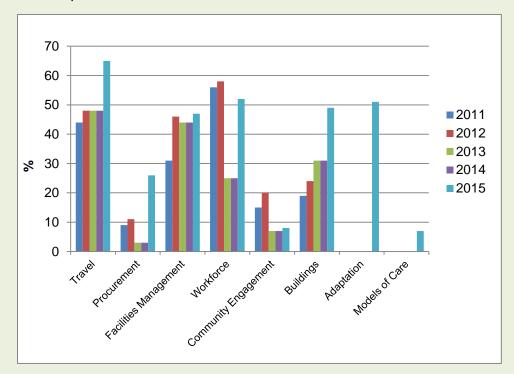
CASE STUDY: Good Corporate Citizen Assessment

The Good Corporate Citizen assessment model was developed for Trusts to benchmark progress on sustainable development, not just by measuring fuel bills or waste but by evaluating sustainability across the board in financial, social and environmental terms.

The assessment allows Trusts to measure how well their activities support sustainability both inside the organisation and outside in the community.

By now the Trust should be achieving a score of 50% in each area and by 2020 a score of at least 75%.

The assessment for 2015 highlights that the Trust has significant work to do to make progress in procurement, community engagement, models of care and adaptation.



Leadership, Engagement and Development

We are committed to...

 Embedding sustainability into everyday practices through committed leadership, culture change and system-wide engagement and development

We have...

- Trust Board support for the sustainable development agenda
- Developed a Sustainable Healthcare brand for NBT
- Demonstrated commitment to sustainability nationally, by participating in NHS Sustainability Day 2015
- Engaged staff, patients and visitors on the links between sustainability, health and wellbeing
- Included sustainability within our staff induction programme
- Recruited a substantial network of Environmental Awareness Representatives (EARs), TravelSmart Reps and Health and Wellbeing Champions across our organisation

We will....

- Expand our Steering Group membership to better represent areas across Trust's activity
- Participate in NHS Sustainability Day 2016
- Develop a multi-level training programme for staff on sustainability
- Develop a Sustainability Engagement Strategy
- Launch Green Impact during Healthy Cities Week in October 2015
- Promote healthy eating through the provision of a weekly fruit and veg stall at Southmead

CASE STUDY: NHS Sustainability Day 2015

In line with our commitment to engage stakeholders and the wider local community on sustainability and the links to health and wellbeing, we held our first Sustainability Fair in the new Brunel Building to mark the annual NHS Sustainability Day on 26th March 2015.

We hosted other Bristol NHS organisations and stallholders promoting the links between sustainability and wellbeing to raise awareness of the work they have been doing to improve their sustainability or giving advice to visitors, patients and staff on how they can reduce their environmental impacts at home. We recruited an additional 25 environmental awareness reps to boost our existing network of staff across the Trust who assist us with implementing change and raising awareness.

Bristol Community Farm provided a fresh fruit and veg stall on the day promoting healthy eating and the importance of using locally grown organic food to reduce the environmental impact of the food system.



Healthy, Sustainable and Resilient Communities

We are committed to ...

 Delivering a healthy, resilient sustainable healthcare service ready for changing times and climates

We have

- Completed Phase 1 of an exceptional new low carbon hospital building for the south west on our Southmead site.
- Co-established the Bristol Health and Sustainability Network to collaborate and explore opportunities for embedding Sustainable Development in a healthcare setting in Bristol with our local NHS neighbours
- Implemented business continuity and resilience plans, including extreme weather and personal resilience plans for staff
- Established an active Health and Wellbeing programme for Trust staff through Zest for Life, delivering health and wellness roadshows promoting activities and providing opportunities supporting staff to create positive changes in their health and wellbeing
- Represented NBT on the Bristol Health Partnership and the Bristol Food Policy Council (Chair)

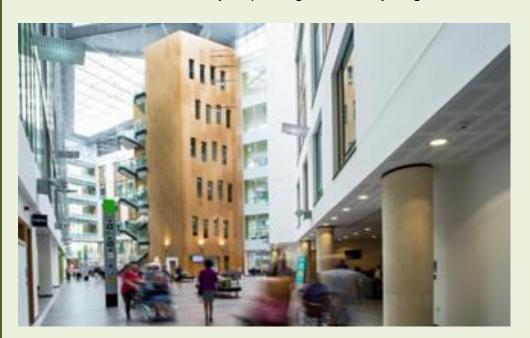
We will....

- Complete Phase 2 of our new hospital development which will include climate change adaptation specifications
- Prepare a Climate Change Adaptation Plan
- Update our Estate Strategy to ensure climate change adaptation specifications are included with all major projects or refurbishments

CASE STUDY: Southmead Hospital Re-Development

The Southmead Hospital re-development programme set out to deliver an exceptional low-carbon hospital building which includes the following sustainable design elements;

- Rated BREEAM 'Excellent' (Healthcare)
- 20% Renewable energy
- Strict energy consumption targets
- Natural ventilation
- Maximising insulation
- Maximising natural daylight
- Maximising orientation, solar shading and glazing technology to control solar gain
- · Water efficient appliances
- · Grey water recycling system
- Green roof and Sustainable Urban Drainage systems (SUDs)
- · Increased public transport and accessibility
- Provision of secure cycle parking and new cycling facilities



Sustainable Clinical and Care Models

We are committed to....

 Adopting sustainable clinical and care models across our healthcare service

We have...

- Adopted "Patient View", a telemedicine system to enable our patients to access their results online instead of travelling to the hospital to receive results face to face
- Established community based renal units across the city at Cossham and South Bristol to improve renal patient comfort, facilitate access and to reduce patient travel
- Established a community based birth centre at Cossham to ensure patient comfort, enable mums-to-be to opt for more natural led births and reduce patient travel
- Ensured our new hospital development has maximised the sustainability co-benefits of the built environment and patient comfort e.g. access to green space, natural daylight, thermal comfort, privacy and noise reduction through sustainable design
- Begun working with stakeholders to prevent the health risks and maximise the health co-benefits of reducing climate change specifically community based projects e.g. reducing illness and death associated with cold homes

We will...

- Identify opportunities to further maximise sustainable clinical and care models within our organisation
- Identify a Clinical Lead for developing Sustainable Models of Care
- Develop Board level training on the concept of Sustainable Healthcare

CASE STUDY: Preventing Illness by Tackling Cold Homes

NBT has been working with local partners to find ways to prevent hospital admissions caused by cold draughty homes.

BRE believe cold, draughty homes cost the NHS £850million+ per year through increased admissions of those who are suffering from fuel poverty.

There is mounting research demonstrating that the effects of fuel poverty (cold, draughty homes) increase the risk of falls, strokes, COPD, asthma, social isolation and thus place additional pressures on the NHS.

On 5th March 2015 NICE issued formal guidance (NG6) on excess winter deaths and morbidity and the health risks associated with cold homes.

Recommendation 7 stated:

 Discharge vulnerable people from health or social care settings to a warm home.

Working with our discharge case managers, outpatient teams, occupational therapy and the Centre for Sustainable Energy (CSE), NBT will be looking at ways of promoting PITCH - Preventing Illness by Tackling Cold Homes which enables healthcare professionals to refer patients to CSE for energy efficiency improvements in their own homes.

By creating warm homes for patients, we hope to make patients more comfortable and conducive to recovery and thus prevent re-admissions. This will free up valuable bed space, CO₂ travel reduction, CO₂ inpatient stay reduction (energy and waste) and provide not only environmental, but financial and social benefits too.



Carbon Hotspots

The NHS Sustainability Strategy reports that the health of the environment and of people is damaged by pollutants released and resources used in delivering care.

The Intergovernmental Panel on Climate Change Assessment Report 5 (IPCC AR5)1 released in September 2013 reinforces the scientific basis for taking action to accelerate progress on reducing man-made carbon emissions to protect health both now and in the future.

To protect the wellbeing of the UK population the NHS 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. Given the progress already made between 1990 and 2013 there is still a 28% reduction required to align with the Climate Change Act target of a 34% reduction by 2020.

NHS England has identified the key areas or "carbon hotspots" across the healthcare service where we should prioritise our carbon reduction activities.

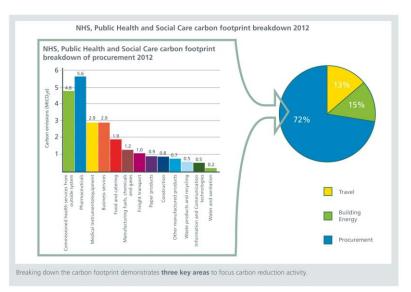


Figure: Carbon Hotspots Module, Sustainable, Resilient, Healthy People and Places Sustainable Development Unit, 2014

We are committed to...

• Monitoring and reducing our carbon emissions

We have...

- Established the Sustainable Development Momentum Group to drive forward our commitment to identify and reduce our carbon emissions from our known carbon hotspots;
 - Commissioning and procurement
 - Travel and Transport
 - Energy and Water
 - Waste and Recycling

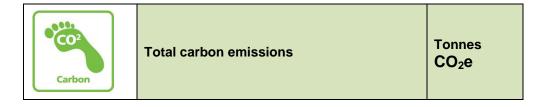
We will...

- Establish the baseline data of our carbon footprint, including energy use, procurement, waste, water, travel and transport
- Set objectives and targets in line with our Environmental Policy

Metrics 2015

Total carbon emissions are commonly used as a performance indicator to measure an organisation's success in reducing its contribution to climate change. Carbon equivalent (**CO**₂**e**) is a way to express all greenhouse gases emissions in a standardised unit.

By using carbon emissions factors (expressed in **kg CO₂e**), we can easily calculate the carbon emissions or 'footprint' associated with our activities, such as energy consumption (kwh) or travel (miles).



Commissioning and Procurement

Working with our partners Bristol and Weston Purchasing Consortium (BWPC), we are committed to...

 Monitoring and reducing the impact of the goods and services we procure and engage with our suppliers and contractors to do the same

We have...

- Identified a Sustainable Procurement Lead at BWPC
- Established a Sustainable Procurement Policy working group with BWPC and local healthcare providers
- Included sustainability requirements within the tendering process where applicable
- Included sustainability specification within our contracts where applicable
- Begun working with suppliers to reduce our carbon footprint

We will...

- Prepare a Sustainable Procurement Policy with BWPC
- Ensure BWPC are represented on our Sustainable Development Steering Group and Sustainable Development Momentum Group
- Support BWPC with the delivery of their Sustainable Procurement Policy where applicable
- Report our sustainable procurement data as contractually required by Bristol's Clinical Commissioning Group and NHS England

Metrics 2015



Procurement carbon emissions (e-class data)

Tonnes CO₂e

CASE STUDY: Supporting Fairtrade

As part of our environmental, ethical and social responsibility, we are keen to ensure the products we buy meet Fairtrade standards where possible. The Fairtrade standard guarantees environmental protection of local ecosystems and rainforests, as well as strict controls on waste, carbon emissions and water use. Fairtrade is an excellent anti-poverty tool as well as supporting sustainable farming methods across the globe.

In February 2015, we received the Silver Fairtrade Business Award for our work promoting Fairtrade products in our staff restaurant at Southmead Hospital.

The award acknowledges our commitment to buy fairly traded products and the good work our Catering Team has done in the restaurant to raise awareness amongst staff and promote Fairtrade products through the sales of Fairtrade chocolate (Divine, Green & Blacks and Cadbury's), bananas, tea, coffee and fruit juice.



Travel and Transport

We are committed to...

 Monitoring and reducing the environmental impact of our travel and transport operations

We have....

- Established a Travel Strategy Group
- Produced an Award Winning Travel Plan
- Established our TravelSmart programme to support staff
- Run regular TravelWest Road Shows
- Undertaken annual travel to work surveys
- Installed vehicle tracking / monitoring on some Trust vehicles
- Installed a rapid electric charging point at Southmead Hospital

We will...

- Establish the baseline data for travel and transport
- Set objectives / targets in line with our Environmental Policy
- Continue to support staff to make sustainable travel choices
- Install electric vehicle charging points during Phase 2

Metrics 2015

	Business Travel	Miles
	Patient Transport	Miles
Transport	Grey Fleet	Miles
	Staff Commute – Single occupancy vehicle	%
0	Staff Commute – Cycling	%
Travel	Staff Commute - Bus	%
	Staff Commute - Walk	%

CASE STUDY: NBT's Award Winning Travel Plan

We have developed a comprehensive travel plan to assist and support staff with the move into the new hospital.

The aims and objectives of our Travel Plan are:

- To reduce the number of single occupancy vehicle journeys made to the hospital by private car
- To improve travel choices and make them safe and accessible to all
- To encourage healthy, environmentally sustainable travel choices

A number of measures have been adopted to encourage staff to find alternative ways of getting to work without their cars.

As result of our travel plan, our annual staff travel survey undertaken in September 2014 reported 20% of staff were travelling to work by bicycle. This is an improvement on the 8% recorded in 2005.



Energy and Water

We are committed to...

Monitoring and reducing energy and water consumption

We have...

- Established an Energy Conservation Group
- Adopted energy conservation measures through sustainable design within the new hospital development
- Sourced 100% of our electricity to Southmead from a mixture of renewable sources including wind and solar power
- 20% of our energy supply to the Brunel Building is renewable supplied by our biomass boiler which burns wood chip supplied by a local supplier
- The new Brunel Building includes water efficient appliances, a grey water recycling system and a green roof which reduces surface water runoff

We will...

- Prepare an Energy Policy
- Establish the baseline data for energy and water consumption
- Set objectives / targets in line with our Environmental Policy
- Undertake energy efficiency improvements
- Undertake a comprehensive lighting review

Metrics 2015

	Electricity	KWh
	Gas	KWh
**	Heating Oil	KWh
Buildings	Renewable	KWh
	Water	M3

CASE STUDY: Renewable energy at Southmead

The new hospital development at Southmead has enabled us to review our energy demand and look to alternative renewable energy generation on site. Our new hospital includes a biomass boiler designed to deliver 20% of our energy demand for the new Brunel Building. We have further invested in additional renewable energy generation across the site.

- Pathology Phase I and Phase II buildings have two photovoltaic systems on the roof (photo below).
- A smaller PV system is also installed on top of Elgar House.

NBT will continue to explore opportunities to expand the use of renewable energy technology across the Trust Estate.



Waste and Recycling

We are committed to....

Monitoring and reducing the amount of waste we produce

We have...

- Implemented a Waste Policy across the Trust
- Implemented a mandatory waste training package
- Embedded sustainability criteria and specifications of our waste management contract
- Implemented comprehensive waste / recycling segregation
- Introduced the offensive waste stream for non-infectious patient waste in some areas including Cossham Hospital
- Installed three food waste digesters in our new hospital

We will...

- Establish baseline data for waste and recycling
- Set objectives / targets in line with our Environmental Policy
- Expand the offensive waste stream Trust-wide including our community sites.
- Run trials for re-usable sharps containers to both reduce waste and the occurrence of needle stick injuries
- Investigate alternative disposal routes for IV drip disposal and pharmaceuticals
- Implement better segregation of gypsum waste
- Introduce a Trust wide re-use project

Metrics 2015

	Incineration	Tonnes
	Autoclaving	Tonnes
	Landfill	Tonnes
Waste	Recycling	%

CASE STUDY: Decommissioning of Frenchay Hospital

Prior to moving into the new hospital development, the Trust wanted to ensure that emptying the decanted buildings at both Frenchay and Southmead was done sustainably with as much re-use and recycling as possible.

We teamed up with auctioneers Hillditch and BCL services to identify items for re-sale or reuse. The remaining unwanted items were broken down into their component parts, maximising the amount of materials that could be sent for recycling. This approach also used significantly fewer skips (270 instead of the anticipated 802 for a job this size) which saved the Trust money and reduced transport emissions.

Of the 2,768 tonnes of potential resources left behind, 86% has been recycled or re-used. In recognition of this achievement, NBT was shortlisted and was Highly Commended at the National Recycling Awards 2015.



Food and Catering

We are committed to....

 Monitoring and reducing the environmental impacts of the food we serve to our patients and staff

We have...

- Achieved the Silver Food for Life Catering Mark for our patient meals
- Achieved a Silver Fairtrade Award in our staff restaurant in the 2015 Fairtrade Business Awards
- Won the national NHS Sustainability Day Award for Sustainable Food in 2015

We will....

- Working with the Soil Association to develop a Food and Drink Strategy
- Establish the baseline data for food consumption
- Set objectives / targets in line with our Environmental Policy
- Aim for bronze Food for Life Award for our staff meals
- Maintain our Silver Food for Life Award for patient meals
- Maintain our Silver Fairtrade Award in our staff restaurant

Metrics 2015

	Locally sourced	%
(2)	Organic	%
	Seasonal	%
Food	Fairtrade	%

CASE STUDY: Food for Life Silver Award

We have achieved The Soil Association's Silver Food for Life Catering Mark through the sourcing and provision of locally grown, organic and seasonal food to our patients;

- Sourced food from within 50 miles of Bristol
- Our milk comes from a herd of 350 Holstein Friesians grazing on 500 acres of pasturelands at the family run Gundenham Dairy Farm in Wellington, Somerset
- Our ice cream comes from Marshfield Farm near Bath.
- All our meat is local and farm assured
- All our beef mince for patients is organic
- All our Wiltshire ham is farm assured
- All our cheese is sourced from a local producer in Somerset.
- All our eggs are free range.
- All our fish and fish dishes are sustainably sourced and MSC



Biodiversity

We are committed to...

Protecting the natural environment, including the prevention of pollution

We have...

- Ensured sustainable urban drainage systems are included within the specification of the hospital redevelopment
- A comprehensive ecological survey of the Southmead site as part of the hospital redevelopment
- Created a large green roof on the new Brunel Building
- Developed a wild flower meadow at Cossham Community Hospital
- Created high value green space onsite to improve staff and patient wellbeing and biodiversity

We will...

- Undertake an ecological survey and develop a biodiversity action plan
- Monitor any pollution incidents across the Trust estate
- Plant 700 additional new trees / shrubs as part of Phase 2
- Create a wetlands area as part of Phase 2
- Develop a pollution prevention and response procedure in line with our Environmental Management System
- Investigate opportunities to establish a staff allotment, herb garden and other potential growing projects on Trust land to improve biodiversity and further enhance staff wellbeing

Metrics 2015



Establish baseline

CASE STUDY: Planning for Biodiversity

We recognise the value of our green space as an important resource and habitat for wildlife contributing to Bristol's wider biodiversity network. There is mounting research and evidence that access to green space provides health, social, environmental and financial benefits.

Our Southmead Hospital redevelopment set out to deliver a diverse green environment as part of our vision to create the most sustainable hospital in the UK, including;

- A substantial green roof on top of our new Brunel Building
- A comprehensive landscaping programme to include multiple gardens for patients and staff, including a green roof terrace
- A new wetlands area at the southern end of the site
- An extensive planting programme of approximately 700 trees and shrubs.



Metrics 2014/2015

INDICATOR		KPI	2014/2015 Data	Target/s
CO2	Trust Carbon Footprint (energy, waste, water, transport and procurement e-class data)	Tonnes CO₂e	Data incomplete*	28% reduction by 2020**
Energy	Electricity Gas Heating Oil	KW/h KW/h KW/h	37,218,967 52,399,499 1,559,671	Establish 2015 Baseline
Renewables	Renewable	KW/h	11,000 (PV cells)	Establish 2015 Baseline
Water	Water	M3	289,418	Establish 2015 Baseline
Transport	Business Travel Patient Transport Grey Fleet	Miles Miles Miles	Data incomplete* Data incomplete* 997,429	Establish 2015 Baseline
Travel	Staff commute – Single occupancy vehicles Staff commute – Cycling Staff commute – Public transport Staff commute – Walking	% % % %	45.5 20 12 10.5	Establish 2015 Baseline
Waste	Incineration Autoclaving Landfill	Tonnes Tonnes Tonnes	220.5 613.1 1209.8	Establish 2015 Baseline
Recycling	Recycling	%	44	Establish 2015 Baseline
Food	Local Organic Seasonal Fairtrade	% % % %	20.6 2.3 7.6 3.5	Establish 2015 Baseline

^{*}Data is currently unavailable ** Climate Change Act target of a 28% reduction by 2020, based on a 2013 baseline.





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