

Annual Sustainability Report 2016/17

Based on National Return data to the NHS Sustainability Unit

1. Introduction

As an NHS organisation, and as a spender of public funds, we have an obligation to work in a way that has a positive effect on the communities we serve. Sustainability means spending public money well, the smart and efficient use of natural resources, and building healthy, resilient communities. By making the most of social, environmental and economic assets we can improve health both in the immediate and long term even in the context of the rising cost of natural resources. We also demonstrate that we consider social and environmental impacts of our decisions to ensure that the legal requirements in the Public Services (Social Value) Act (2012) are met.

As a part of the NHS, public health and social care system, it is our duty to contribute towards the level of ambition set in 2014 of reducing the carbon footprint of the NHS, public health and social care system by 34% (from a 1990 baseline) equivalent to a 28% reduction from a 2013 baseline by 2020. It is our aim to supersede this target by reducing our carbon emissions 34% by 2020 using 2007/08 as the baseline year.

2. Policies

In order to embed sustainability within our business it is important to explain where in our processes and procedures sustainability features.

Area	Is sustainability considered?
Travel	Yes
Procurement (environmental)	Yes
Procurement (social impact)	Yes
Suppliers' impact	Yes

One of the ways in which an organisation can embed sustainability is through the use of an SDMP. The board approved our SDMP in the last 12 months so our plans for a sustainable future are well known within the organisation and clearly laid out.

One of the ways in which we measure our impact as an organisation on corporate social responsibility is through the use of the Good Corporate Citizenship (GCC) tool. The last time we used the GCC self-assessment was in April 2016, scoring 70%. As an organisation that acknowledges its responsibility towards creating a sustainable future, we help achieve that goal by running awareness campaigns that promote the benefits of sustainability to our staff.

Climate change brings new challenges to our business both in direct effects to the healthcare estates, but also to patient health. Examples of recent years include the effects of heat waves, extreme temperatures and prolonged periods of cold, floods, droughts etc. Our board approved plans address the potential need to adapt the organisation's activities and infrastructure to climate change and adverse weather events.

3. Partnerships

The NHS policy framework already sets the scene for commissioners and providers to operate in a sustainable manner. Crucially for us as a provider, evidence of this commitment will need to be provided in part through contracting mechanisms. We have not currently established any strategic partnerships.

For commissioned services here is the sustainability comparator for our CCGs:

Organisation Name	SDMP	GCC	SD Reporting score
NHS East and North Hertfordshire CCG	No	No	Excellent
NHS Bedfordshire CCG	No	Yes	Minimum
NHS Herts Valleys CCG	Yes	Yes	Good
NHS Cambridgeshire and Peterborough CCG	Yes	No	Good

More information on these measures is available here: <http://www.sduhealth.org.uk/policy-strategy/reporting/sdmp-annual-reporting.aspx>

4. Performance

Organisation

Since the 2007 baseline year, the NHS has undergone a significant restructuring process and one which is still on-going. Therefore in order to provide some organisational context, the following table may help explain how both the organisation and its performance on sustainability has changed over time.

Context info	2007/08	2013/14	2014/15	2015/16	2016/17
Floor Space (m ²)	107025	128,240	130,035	110,697	118,342
Number of Staff	4256	4,802	4,583	4,749	4,829

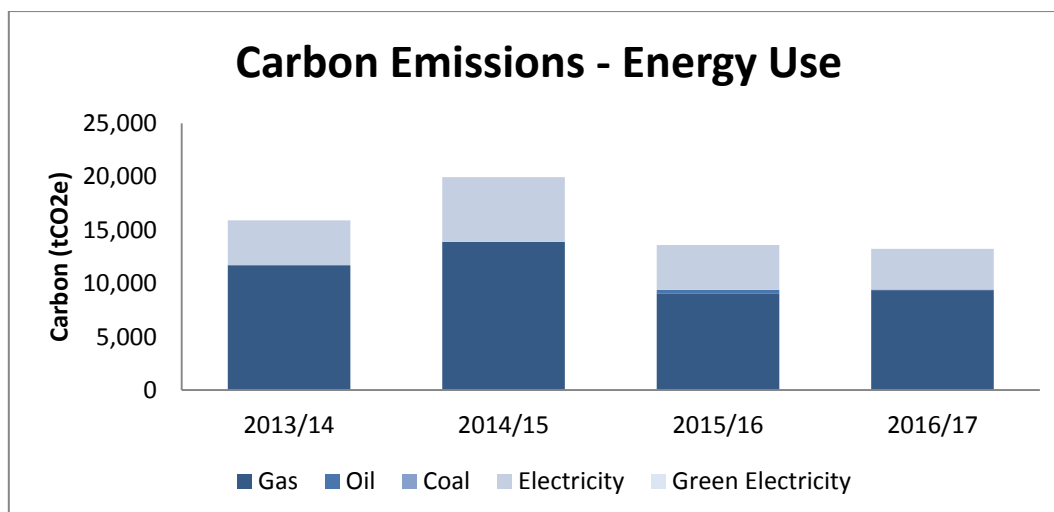
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Energy

East and North Hertfordshire NHS Trust have spent £1,922,971 on energy in 2016/17, which is a 5.3% decrease on energy spending from last year.

Resource		2013/14	2014/15	2015/16	2016/17
Gas	Use (kWh)	55,229,788	66,175,796	43,370,118	4,4843,942
	tCO ₂ e	11,716	13,884	9,099	9,372
Oil	Use (kWh)	0	0	961,130	123,324
	tCO ₂ e	0	0	308	39
Coal	Use (kWh)	0	0	0	0
	tCO ₂ e	0	0	0	0
Electricity	Use (kWh)	6,759,390	9,478,403	7,169,625	7,154,495
	tCO ₂ e	3,785	5,870	4,122	3,831
Green Electricity	Use (kWh)	0	0	0	0
	tCO ₂ e	0	0	0	0
Total Energy CO ₂ e		15,501	19,754	13,529	13,242
Total Energy Spend		£ 2,776,613	£ 2,809,525	£ 2,030,530	1,922,971

This is illustrated in the chart below:



The total energy used in 2016/17 has decreased due to the disposal of the old QEII site and the associated utilities, along with the vacation of a storage facility previously used by the Trust as part of the Our Changing Hospitals project.

The installation of new steam traps across the Lister site in late 2016 has also contributed to the reduction of energy used, with further reductions anticipated within the forthcoming year.

Travel

We can improve local air quality and improve the health of our community by promoting active travel – to our staff and to the patients and public that use our services. Every action counts and we looking at ways to realise efficiencies across the board for cost and carbon (CO₂e) reductions. We support a culture for active travel to improve staff wellbeing and reduce sickness.

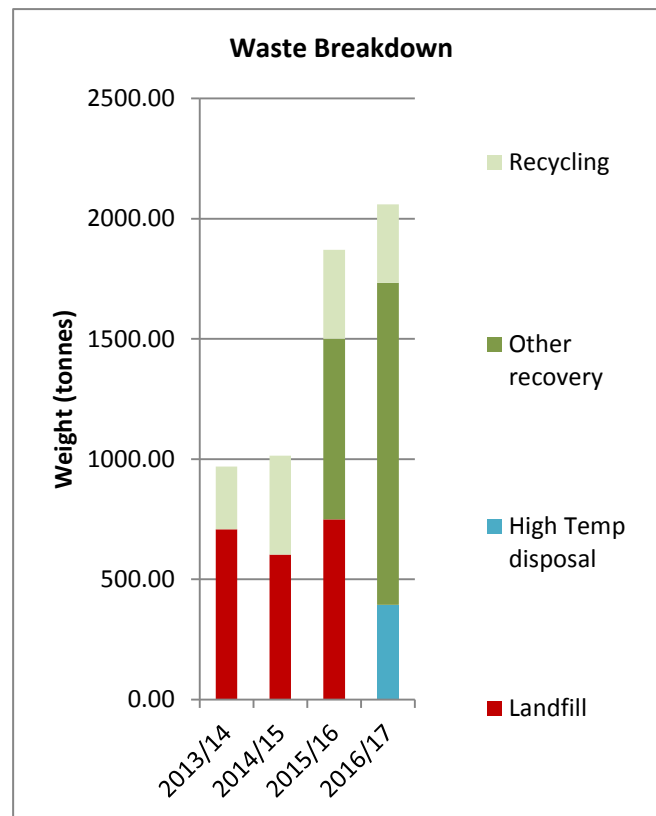
Category	Mode	2013/14	2014/15	2015/16	2016/17
Patient and visitor Travel	km	39,129,776	52,663,895	46,366,254	76,493,709
	tCO ₂ e	9,412	12,468	10,915	17,178
Business Travel and fleet	km	3,458,586	3,036,868	3,200,772	2,308,774
	tCO ₂ e	507	430	394	518
Staff commute	km	8,196,152	8,176,604	8,434,780	7,465,461
	tCO ₂ e	1,882	1,867	1,895	1,676

Business travel and fleet reflects the consolidation of services on to the Lister Hospital site, and the reduction in cross-site working. The Trust's inter-site bus service now includes a "dial a ride" type service to improve accessibility and convenience of inter-site travel.

Waste

Waste		2013/14	2014/15	2015/16	2016/17
Recycling	(tonnes)	261.00	411.00	370.00	327.00
	tCO ₂ e	5.48	8.63	7.40	6.87
Other recovery	(tonnes)	0.00	0.00	752.00	1340.00
	tCO ₂ e	0.00	0.00	15.04	28.14
High Temp disposal	(tonnes)	0.00	0.00	0.00	393.00
	tCO ₂ e	0.00	0.00	0.00	86.46
Landfill	(tonnes)	708.00	603.00	749.00	0.00
	tCO ₂ e	173.05	147.38	183.07	0.00
Total Waste (tonnes)		969.00	1014.00	1871.00	2060.00
% Recycled or Re-used		27%	41%	20%	16%
Total Waste tCO ₂ e		178.53	156.01	205.51	121.47

The breakdown of waste is illustrated in the chart below:



Overall waste production has increased as a direct result of the increase in patient numbers across the organisation. However, within the total waste produced we have as a Trust recycled less and this is an area targeted for improvement in 2017/18.

Finite resource use - Water

Water		2013/14	2014/15	2015/16	2016/17
Mains	m ³	196,511	207,927	198,129	193,356
	tCO ₂ e	179	189	180	185
Water & Sewage Spend		£ 356,547	£ 391,070	£ 425,680	£ 362,394

Spend on water and sewerage has reduced as a direct result of disposal of the old QEII site, coupled with a reduction in requirements to flush water systems due to lack of empty buildings or areas.

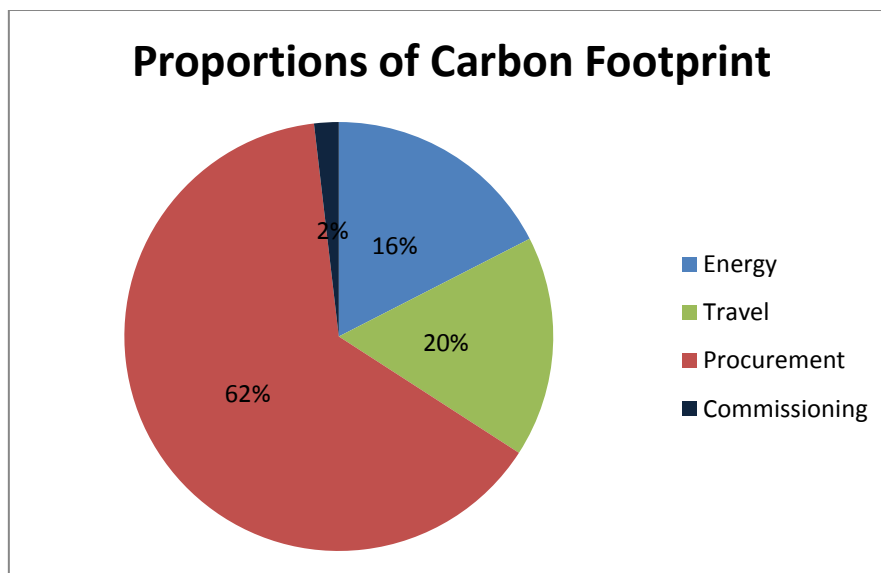
5. Modelled Carbon Footprint

The information provided in the previous sections of this sustainability report uses the ERIC returns as its data source. However, we are aware that this does not reflect our entire carbon footprint. Therefore, the following information uses a scaled model based on work performed by the Sustainable Development Unit (SDU) in 2009/10. More information available here: <http://www.sduhealth.org.uk/policy-strategy/reporting/nhs-carbon-footprint.aspx>

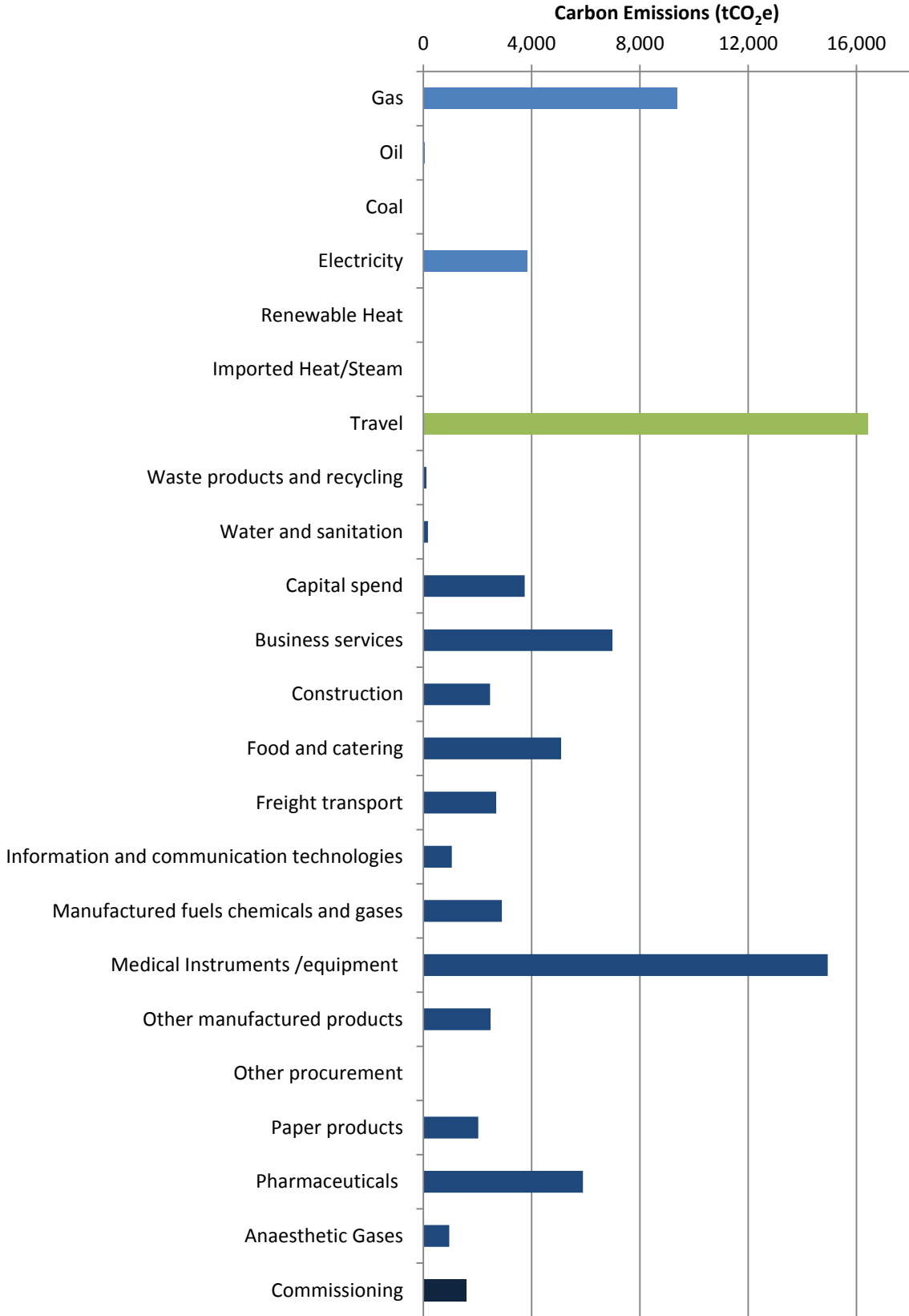
Resulting in an estimated total carbon footprint of 82,831 tonnes of carbon dioxide equivalent emissions (tCO₂e). Our carbon intensity per pound is 202 grams of carbon dioxide equivalent emissions per pound of operating expenditure (gCO₂e/£). Average emissions for acute services is 200 grams per pound.

Our emissions are broken down in to the following categories:

Category	% CO ₂ e
Energy	16%
Travel	20%
Procurement	62%
Commissioning	2%



Organisation Carbon Emissions Profile



Organisation Carbon Footprint by Operating Expenditure (gCO₂e/£)

