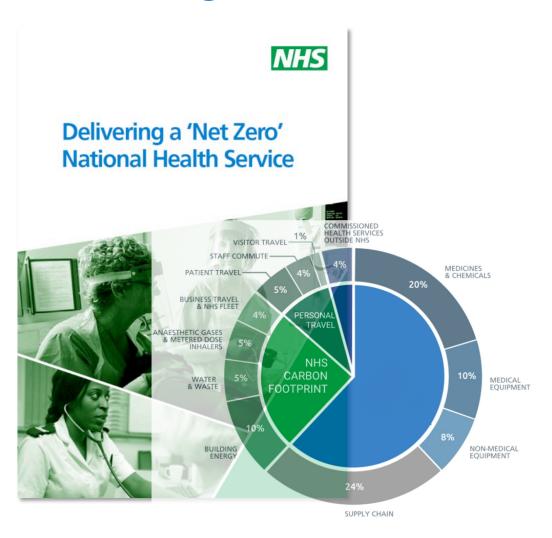


# Delivering a Net Zero NHS Estate

Fiona Daly
Director of Estate Sustainability and Workforce,
and National Deputy Director of Estates

# Delivering a Net Zero NHS



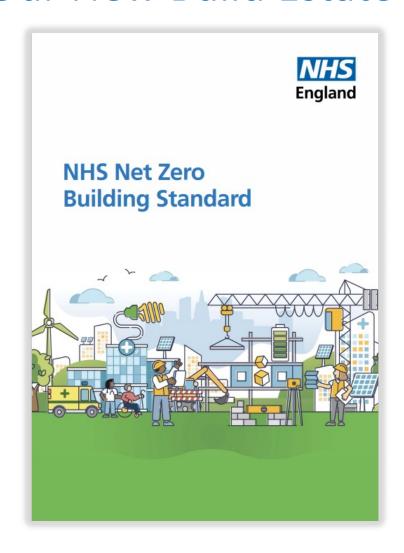
- Climate change is the biggest and most pressing challenge of our generation. The climate emergency is a health emergency
- NHS responsible for 5% emissions in the UK;
   Estate emissions a large part of that making up over 1/3 of all public sector energy emissions
- October 2020 **NHS became the worlds first** health service to commit to being Net Zero. It committed to:
  - Net Zero in its Directly controlled emissions by 2040 (80% reduction by 2030)
  - Net Zero in its Indirect emissions by 2045 (80% reduction by 2039)
- NHS operates in 25,000,000M2 of hospital estate (1,140 hospitals) plus 7,500 Primary care facilities and 11,000 community pharmacy sites – these need to be 80% NZC by 2032 and 100% by 2040

# Delivering a Net Zero NHS

'Climate change threatens the core purpose of the NHS, with poor environmental health contributing to major diseases, including cardiac problems, asthma and cancer'

'Action on climate change will bring direct improvements for public health and health equity. Reaching our country's ambitions under the Paris Climate Change Agreement could see over 5,700 lives saved every year from improved air quality; 38,000 lives saved every year from a more physically active population; over 100,000 lives saved every year from healthier diets."

# Our New Build Estate



- World-leading Standard for healthcare premises
- Applicable to new builds and major refurb schemes which are subject to HMT controls (>£25M)
- Important step on our road to a Net Zero National Health Service
- Published in February 2023
- Applicable from 1<sup>st</sup> October 2023
- Part of NHS England business case checklist and the fundamental criteria
- Webinar on 19<sup>th</sup> September please contact england.estatesandfacilities@nhs.net

NHS England » NHS Net Zero Building Standard

## **Our Retained Estate**



Climate change **biggest and most pressing challenge** of our generation

NHS responsible for 5% of UK emissions

Our Estates to be Net Zero by 2040, with an 80% reduction by 2032

October 2021 published Estates 'Net Zero' Delivery plan - sets out clear route-map and steps to a Net Zero Estate

#### Our Core Aims:

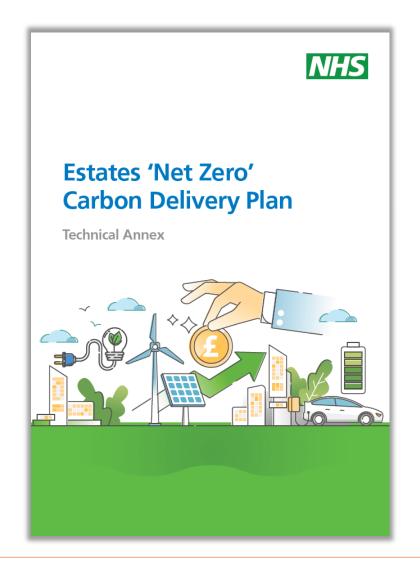
- ✓ Investing in our buildings
- ✓ Driving forward a circular economy
- ✓ Electrifying our fleet
- ✓ Engaging our supply chain
- ✓ Preparing for severe weather
- ✓ Committing to active travel

Figure 1: Four step approach to decarbonise the NHS estate by 2040



Figure 1 includes indicative numbers to illustrate the scale of the challenge to decarbonise the NHS estate by 2040. These are not actuals.

# **Our Retained Estate**



Action	Date	Trusts & FTs	National	ICS/ Regional	Primary Care
Strategic Action 1: Make every kWh and m3 count					
NHS trusts, NHS foundation trusts and primary care to review options to install energy metering at building level (both electricity and heat) and establish a programme to install metering where feasible	2022/23	<b>•</b>			0
NHS trusts, NHS foundation trusts and primary care to review options to install energy metering at floor level (both electricity and heat) and establish a programme to install metering where feasible	2026-28	<b>•</b>			0
NHS trusts, NHS foundation trusts and to review options to install energy metering at department level (both electricity and heat) and establish a programme to install metering where feasible	2028-30	<b>•</b>			
NHSE to establish a central data collection and storage system for energy data for secondary care, followed by primary care	2022/23 (SC) 2025/26 (PC)				

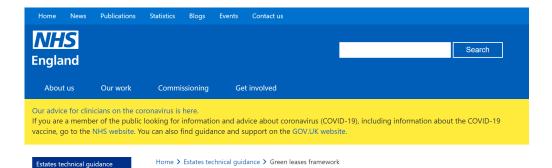
### Our Leased Estate

Guidance for sites with leased estate looking to go green

#### Core aspects:

- Suite of Provisions: options to increase green credentials of leased properties
- Memorandum of Understanding: to engage with your landlord / tenant to discuss possibilities. For existing leases or agreements
- Clauses: drafted to facilitate detailed discussions with your property or legal teams, as a bolt-on schedule within a new lease or during lease renewal

NHS England » Green leases framework



Green leases framework Green leases framework Complete list of publications

lated to NHS estates

Health building notes

Other guidance

National Standards of

Healthcare Cleanliness 2021

NHS Premises Assurance

ProCure23: A new route to

arket for NHS capital work

This guidance has been created to help organisations to improve the green credentials of their leased estate. It has been designed with professional legal support from Bevan Brittan and acknowledges that organisations will be at different stages of their green journey.

The guide is comprised of three core sections

Memorandum of understanding; this is designed for organisations wishing to engage with their landlord to discuss the possibilities about greening their estate.

Suite of provisions; this is designed for organisations wishing to make changes to improve the green credentials of their leased properties.

Clauses; a drafted set of clauses which are designed to facilitate more detailed discussions with your organisation's own property or legal teams.

Specific and specialist advice will need to be sought for any listed leased properties on your estate. You should consult your internal property team(s) in the first instance.

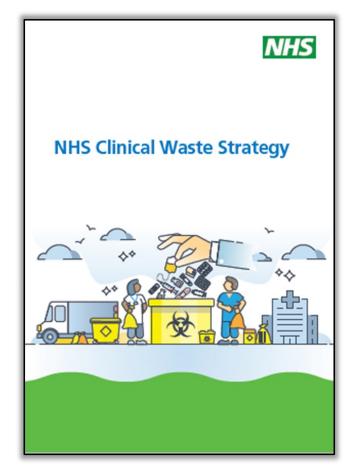
#### Memorandum of understanding

Use the template provided to create your tailored memorandum of understanding with your landlord. Once the document is signed by both parties it acts as a way of allowing organisations to speak openly with the landlord about changes they wish to make across their leased estate and explore feasibility.

The Memorandum of Understanding is intended for use where there is an existing lease or agreement in place. It also provides a useful stepping-stone towards a greater understanding of green leases more generally and allows the green ambitions of landlords and tenants to be aligned. It is intended to be used where the landlord and the tenant have not included green lease provisions in their property arrangements previously. It is not legally binding but instead sets out a framework of intention(s) and cooperation on green issues between the landlord and the tenant.

The document is based on the Better Buildings Partnership (BBP) memorandum. However, specific NHS provisions have been added to aid with basic organisational benefits e.g. the sharing of energy data and

# **Supporting Publications**







NHS England » NHS clinical waste strategy

WASTE CARBON TOOL

Site 5 year planned waste tonnage

# Increasing Investment

#### PSDS Phases 1 and 2 provided £1.075bn over 2020-22

■ <u>£260m</u> to NHS to deliver 31 projects (1), <u>£21m</u> to deliver 8 projects (2)

#### **PSDS Phase 3a announced in May 2022**

- £553m funding for 160 public sector organisations and 217 projects
- NHS trusts received <u>£329m</u> funding, 59.57% of overall grant
- Includes eight projects over £10m, 36 schemes overall and 28 trusts

#### **PSDS Phase 3b opened in October 2022**

- Hit our sector cap in record time need to prepare for the next round
- Interim data released at the end of March showed that the NHS has secured £221M for 20 projects, from a total of £635M worth of projects announced across the public sector



# Department for Energy Security & Net Zero

In total the **NHS has secured £831M** in additional funding for **95** Net Zero projects

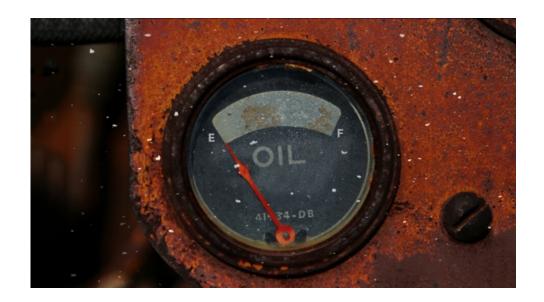
# Removing our heaviest duty fossil fuels

**Long Term Plan commitment** to remove all Primary Oil Heating from the NHS

- 5-sites initially identified (47 sites latterly identified)
- Created Outline Business Cases following the HMT five case model (Strategic, Economic, Commercial, Financial, and Management)

#### Each case includes:

- A presentation of the technical options and the results of an initial appraisal
- Benefits appraisal
- Risk assessment
- Implementation governance
- The results of high level stakeholder engagement
- An analysis of constraints
- Underpinning assumptions



New requirement in ERIC to capture temporary fuel oil heating boilers

# Scaling our collective knowledge

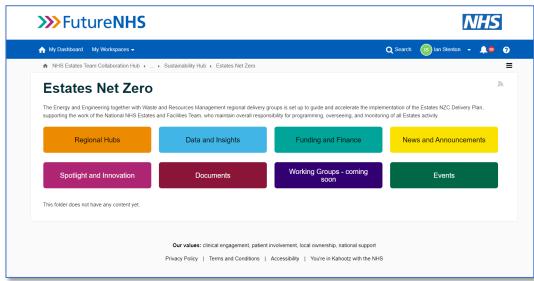
 Established Regional Estates Delivery Hubs to support our people to deliver the Estates NZ Delivery Plan

#### Key areas of Focus:

- Energy and Engineering
- Waste and Resources
- Innovation

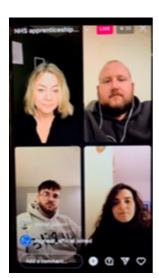
#### Aims:

- Provide insights from across the region
- Recognise barriers and enablers to net zero
- estates
- Advocate for estates net zero programmes
- Share and scale best practice
- Drive forward critical plans e.g. heat decarbonisation plans, waste reduction plans



Regional Delivery Groups - NHS Estates Team Collaboration Hub - NHS Estates and Facilities (future.nhs.uk)

# Developing our Future Workforce







Harry Sandy, a production chef apprentice at West Suffolk NHS Foundation Trust, was encouraged to join the NHS by his mum who works in NHS mental health services.

Harry's first experience of working in kitchens was as a pot washer at his local pub.

After about a year, he moved across to the chef side of the kitchen, but then the

COVID-19 pandemic stalled his progression.

He says. 'My mum encouraged me to join the NHS, as did the hiring manager who saw my previous experience and interest in being a chef.'

Harry says that the apprenticeship has helped him to develop skills including knife work and organisation, both of which are incredibly important when working to strict deadlines to serve patients.

This year, we're aiming to have 1,000 new apprenticeship starts in NHS estates and facilities, in roles from engineering and plumbing to catering and

Find out more about apprenticeship opportunities: https://lnkd.in/exQZQS\_V #apprenticeships #nhscareers #apprenticeshipchallenge #nhsestates



April 2022 Launched EFM Apprenticeship Challenge

**Apprenticeship Toolkit** 

Vacancy Portal

**First Cohort of Net Zero Apprentices** 

Rolling programme for Interns

School Talks to inspire the next generation

NHS England » NHS estates sustainability careers – recruitment and career pathways guidance



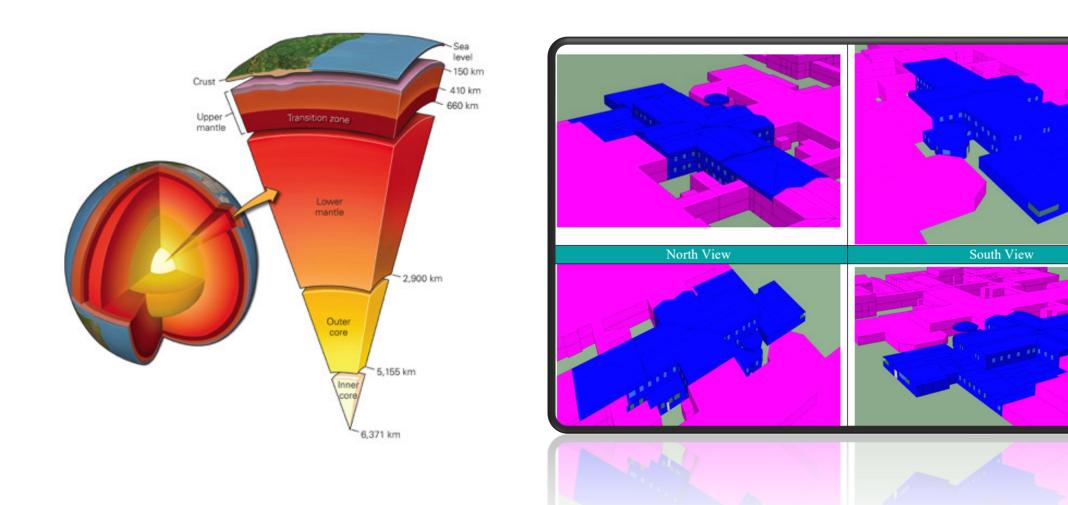


Helping you prepare, plan and deliver world class apprenticeships





# **Innovations**



# **Contact Details**



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