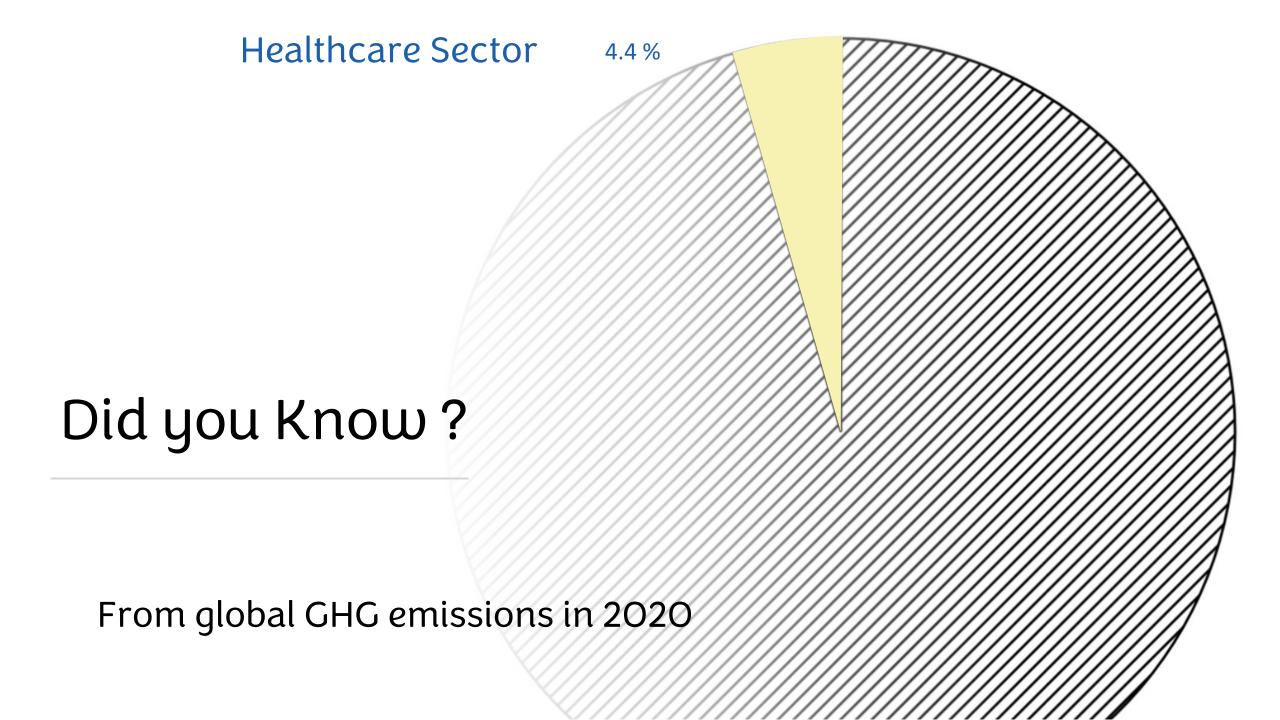
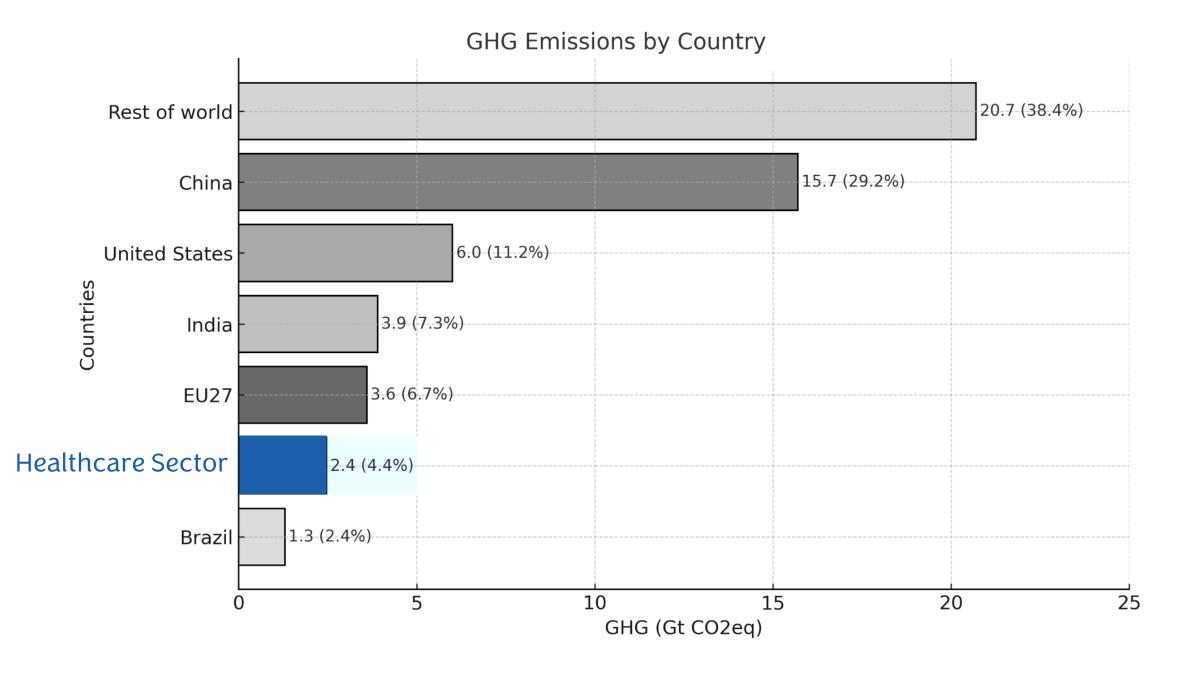


The Carbon Challenge in Healthcare

Presented by: Asma Amamou

Date: 09/09/2025

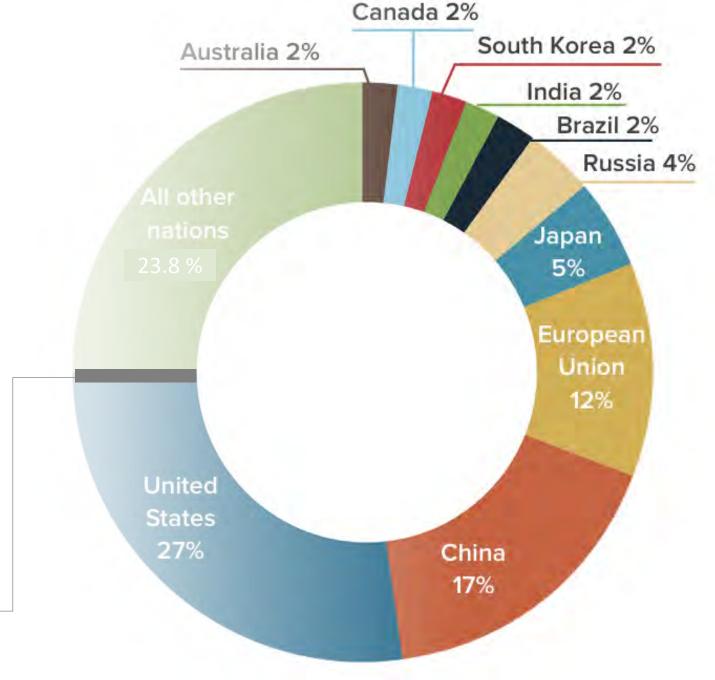




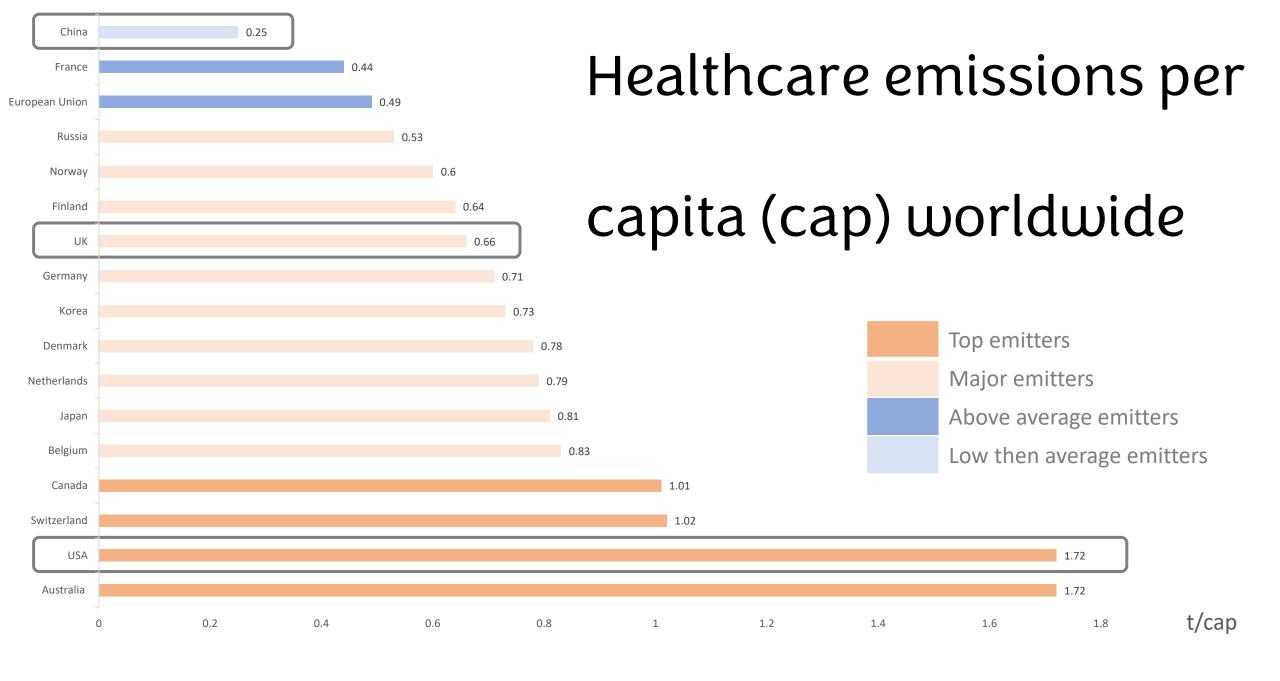
Top 10 emitters as

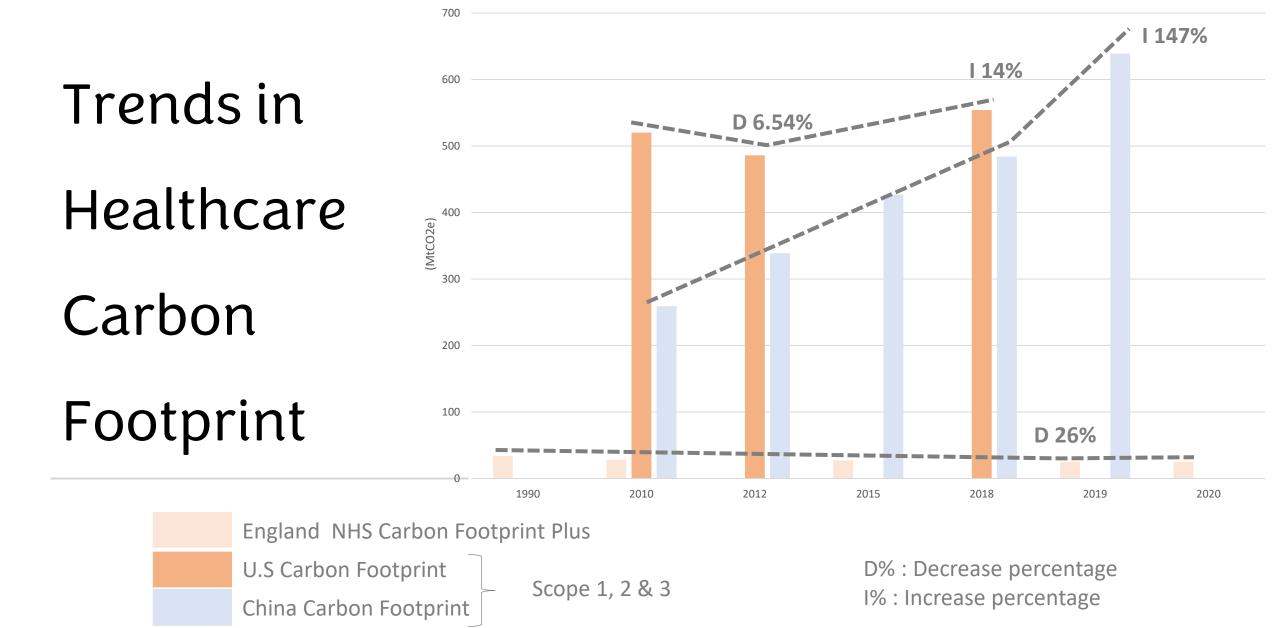
% of global health

care footprint



The UK 1.2 %



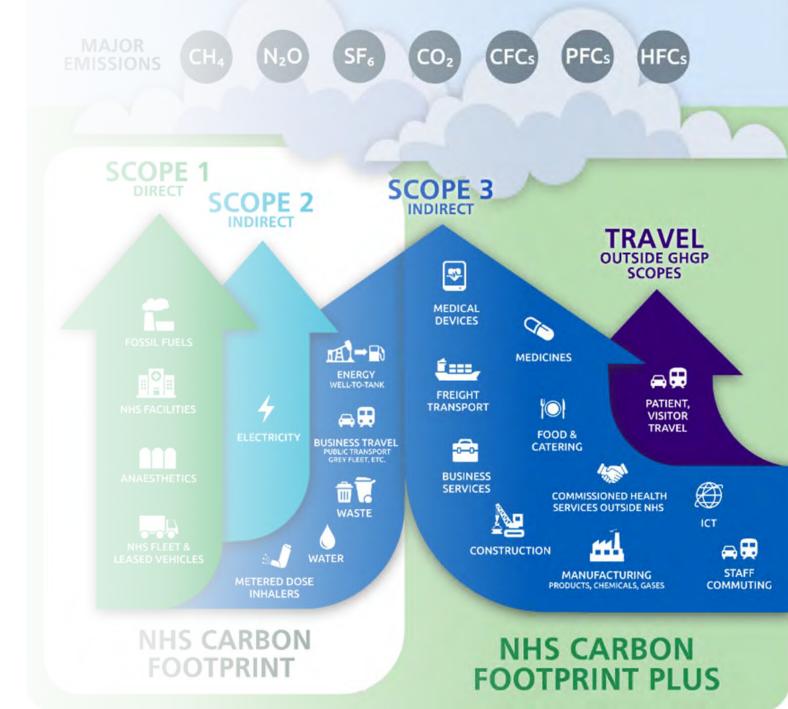


What's NHS

Carbon

Footprint Plus

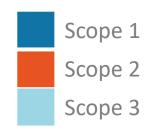
?

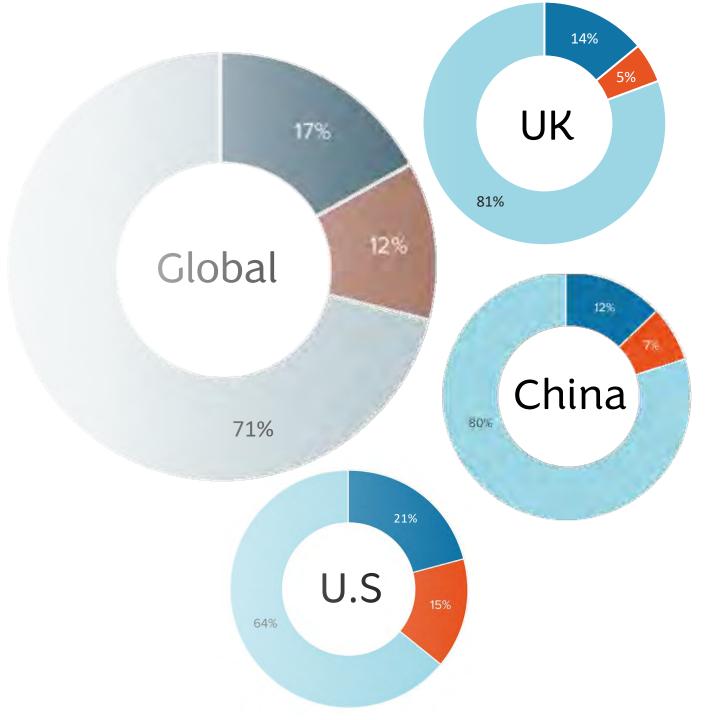


Healthcare

footprint by

GHGP Scopes





Healthcare Paradox:

Why It Matters?

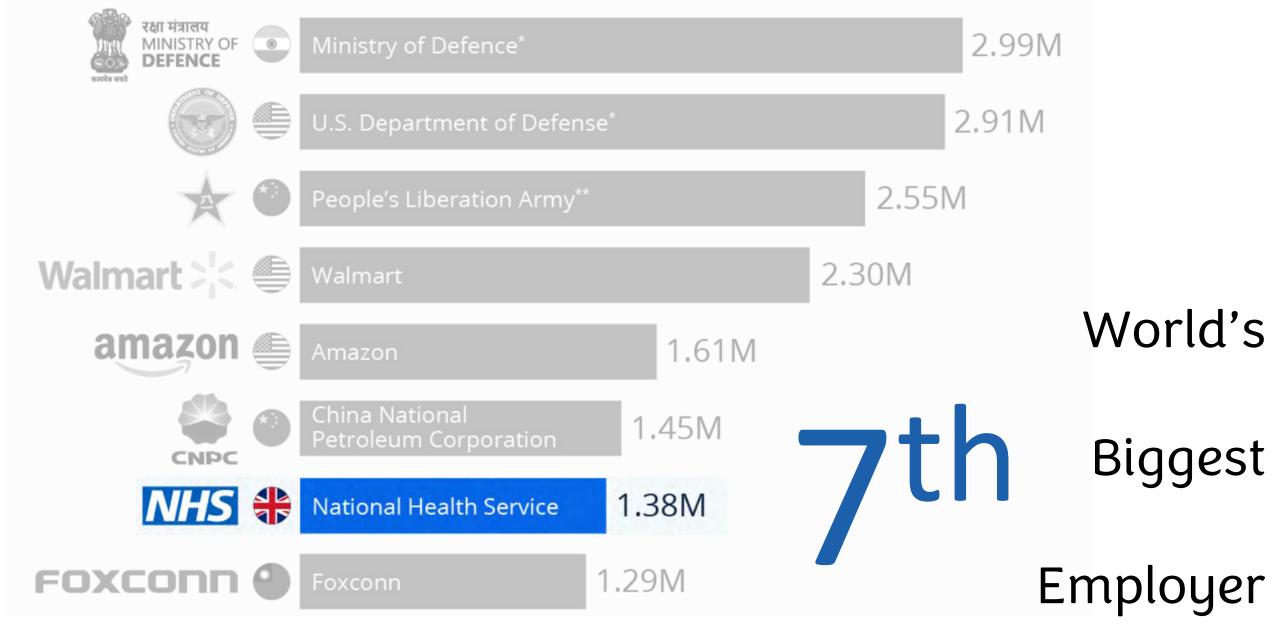


Saving lives but Harming the planet



Why The

The UK National Health Service



Biggest

World's Largest

Employer

Employer of Highly

in Europe

1 st

Skilled Professionals

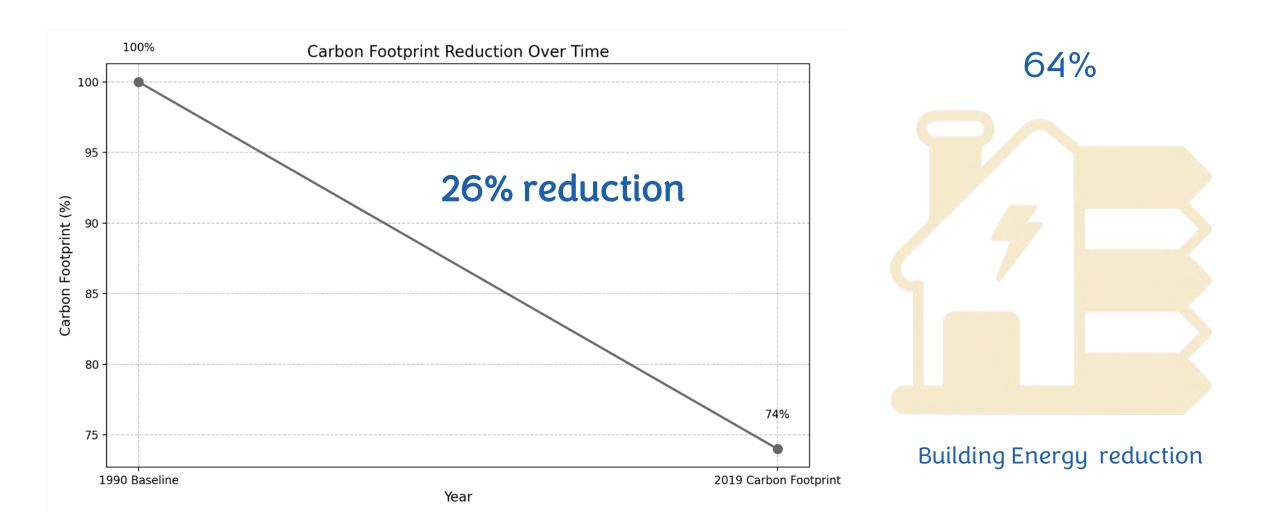
Health System to embed net zero into legislation

The UK National Health Service (NHS) O Carbon Footprint Plus Target Set Net-Zero Target 2040 O Carbon Footprint Target

2022

Embedded net zero into legislation, through the Health and Care Act 2022.

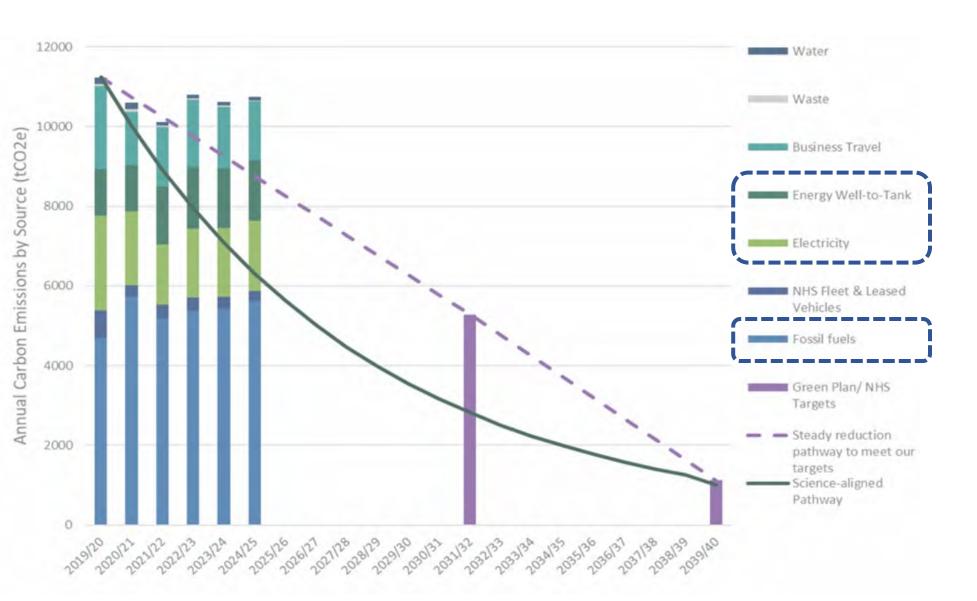
NHS Carbon Footprint



Since 2019,

Progress

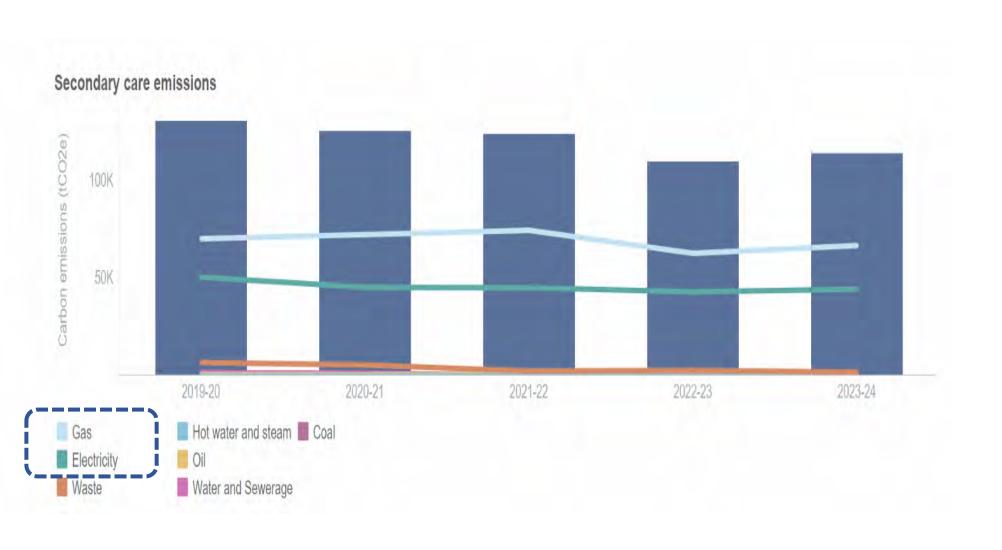
Case 1: Tees, Esk and Wear Valleys NHS Foundation Trust



Since 2019,

Progress

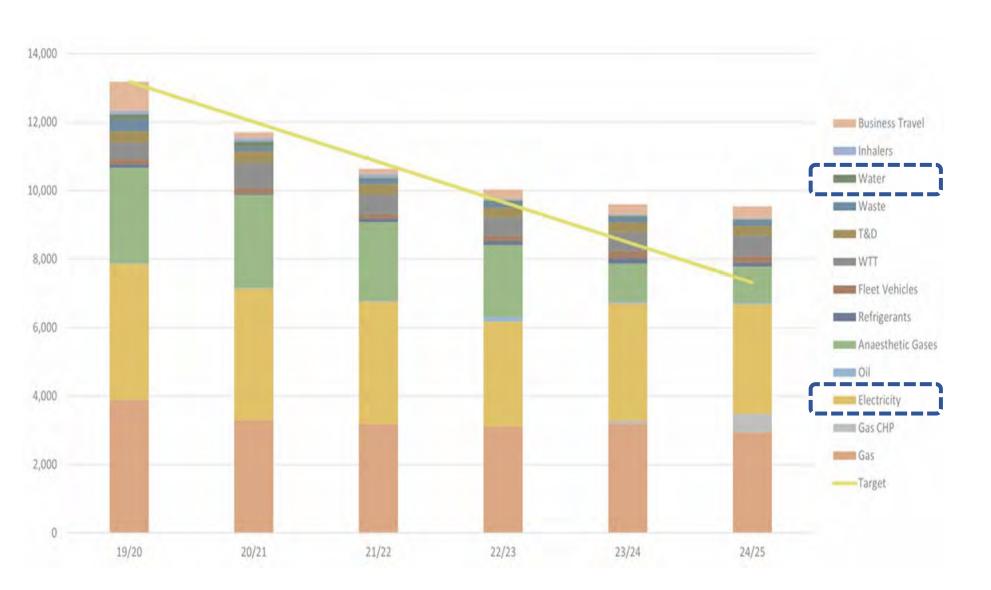
Case 2: North West London secondary care emissions



Since 2019,

Progress

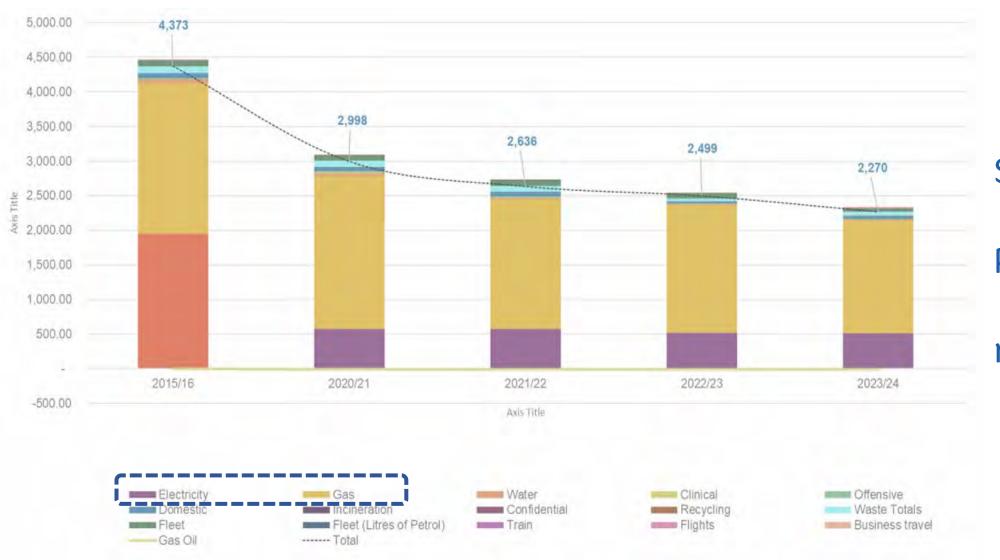
Case 3: Great Western Hospitals NHS Trust



Since 2019,

Progress

Case 4: Sheffield Health and Social Care NHS Trust



Since 2019,

Progress

Progress is

Slow

?



24/7 operations

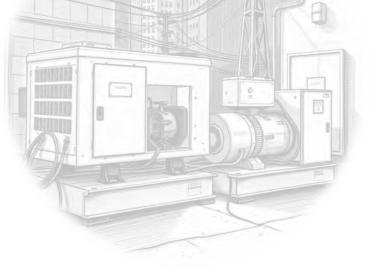


Backup Generators

The Energy

Problem





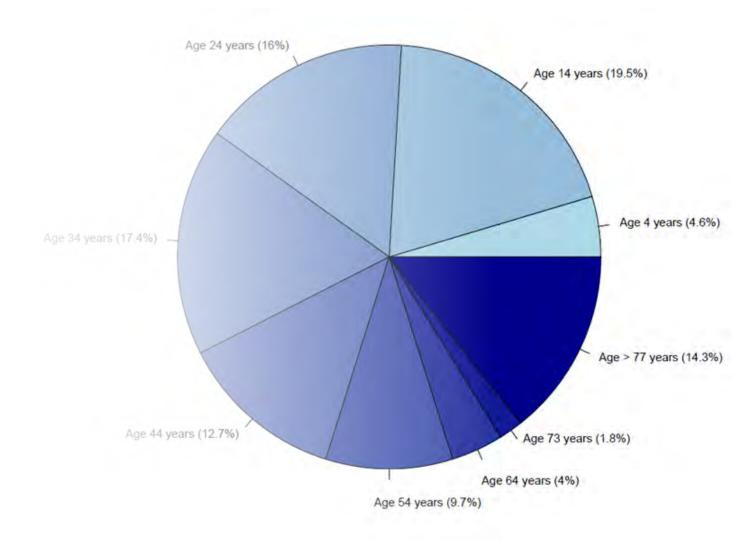
Sterilisation Requirements

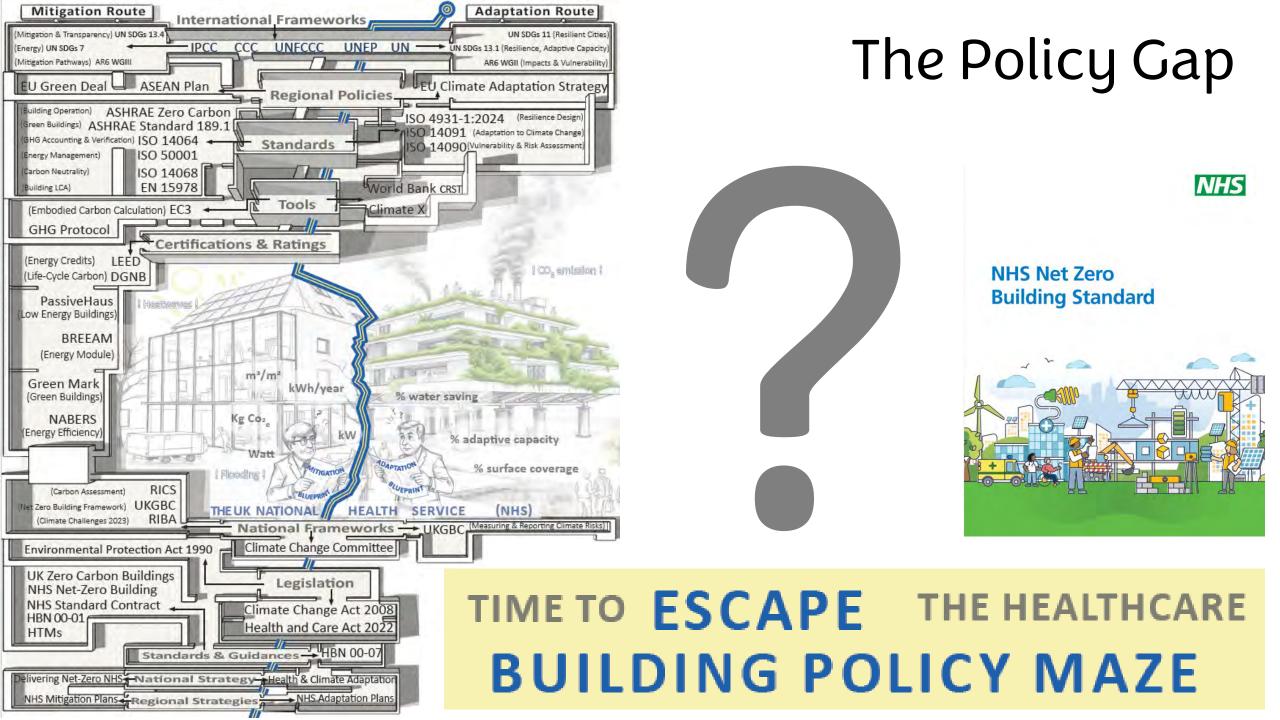
214 Trusts, England

The Huge

Building Stock

13,135 Healthcare Buildings



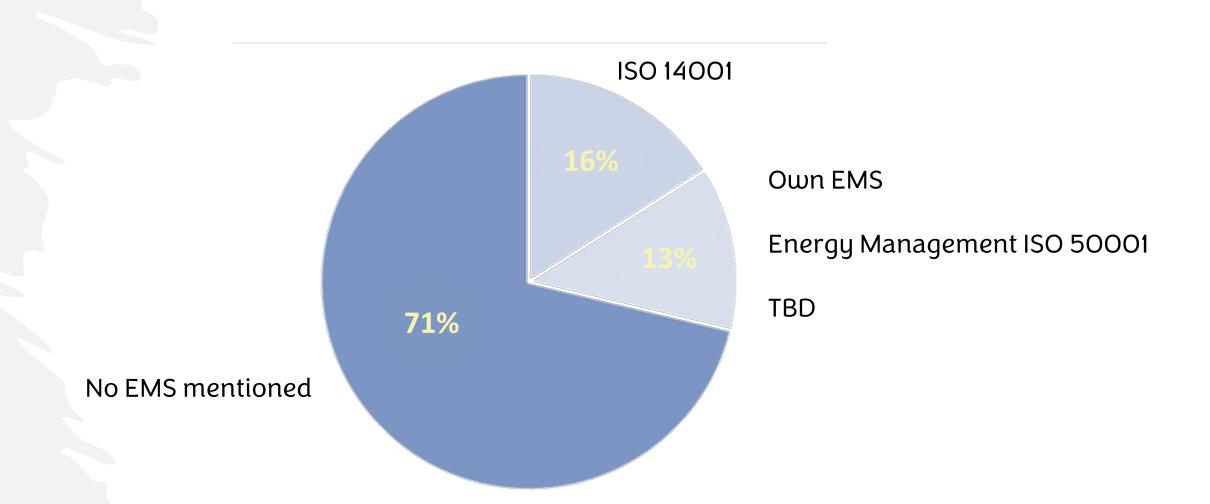


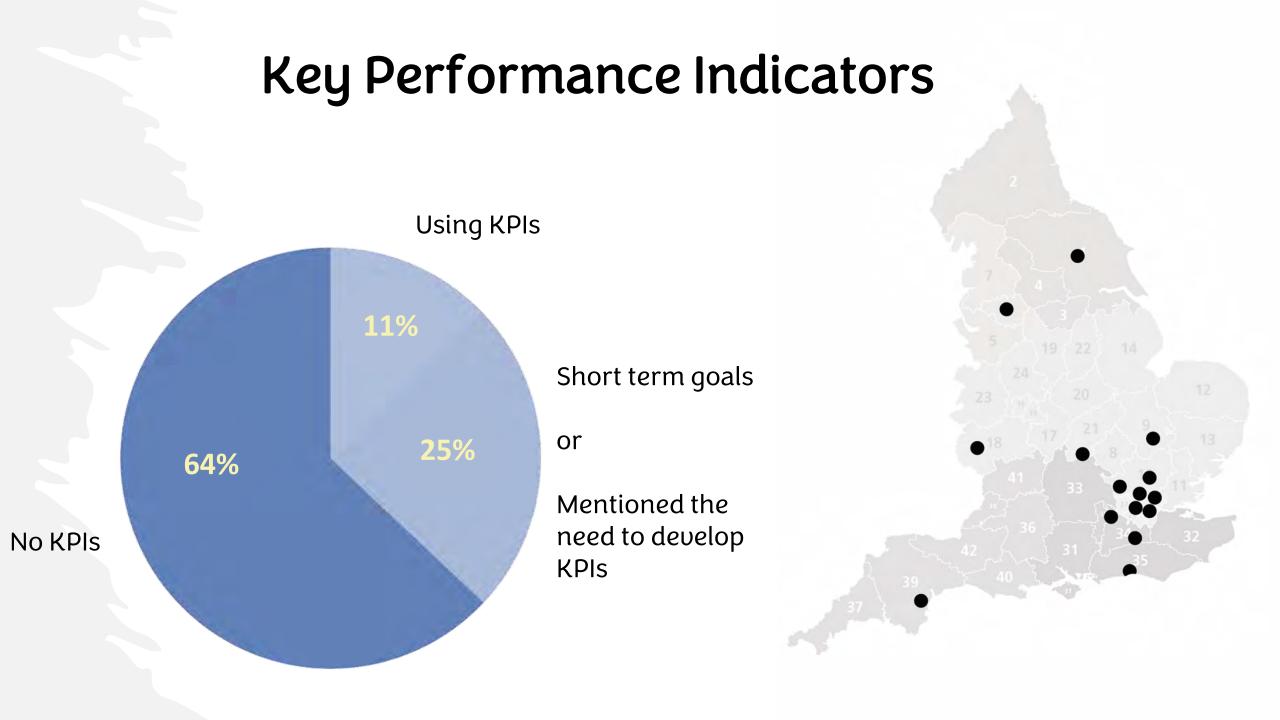
Lack of Data

The Stringent +
Timeline

Different Stages, Different Strategies

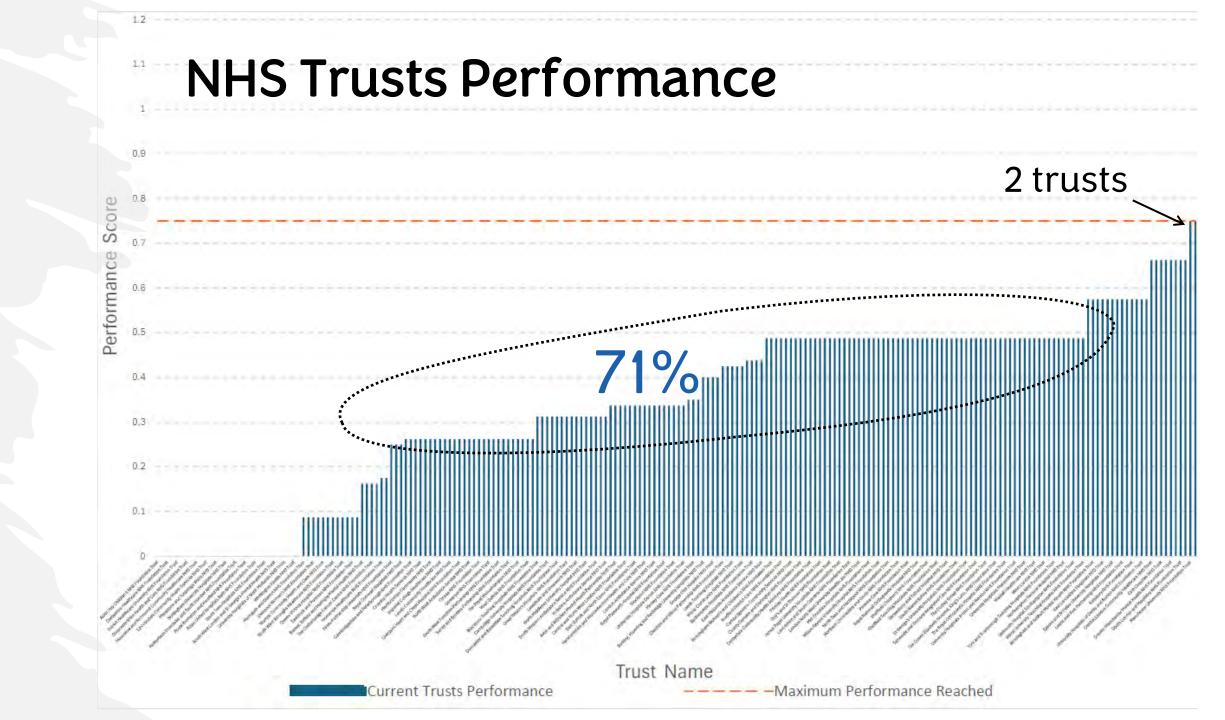
Environmental Management System

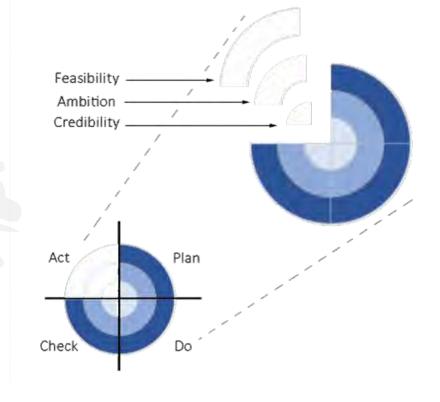




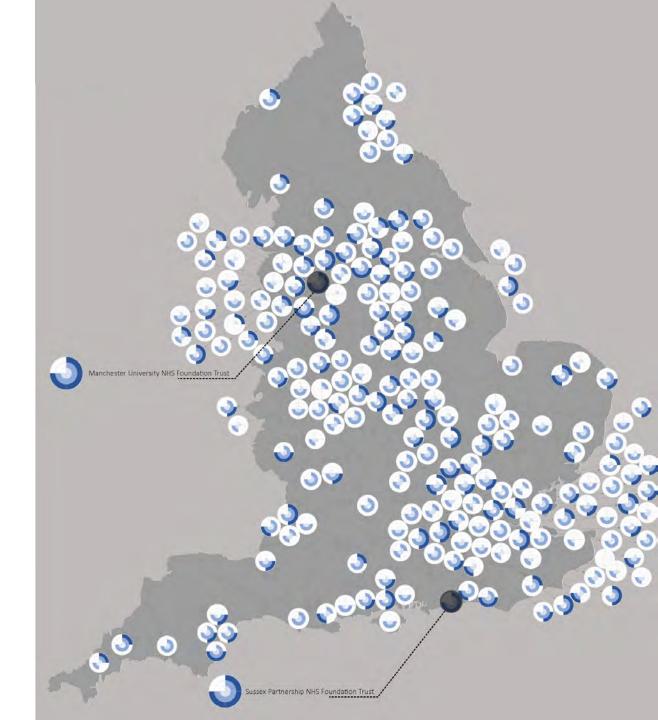
Performance Evaluation Matrix

	PLAN	DO	CHECK	ACT
CREDIBILITY	Transparency	Conservativeness	Accountability	Continuous Improvement
AMBITION	Target	GHG Hierarchy Approach	Review of Ambition	Supporting Transition
FEASIBILITY	Science-Based approach	Urgency	Avoiding Adverse Impacts	Life Cycle Approach





Can the NHS meet its 2040 net-zero target?



How Can Global Healthcare Settings

reach Net-Zero

Amid Industry Leader Struggle



Building and Environment

Volume 278, 15 June 2025, 112966



Net zero in healthcare buildings: Lessons from assessing the strategies of 214 NHS trusts in England

Asma Amamou ^a ス ⊠, Stephen Blenkinsop ^a, Clare Winter ^b, Oliver Heidrich ^a

https://doi.org/10.1016/j.buildenv.2025.112966

Thank You

Part of PhD Research

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 Dr Stephen Blenkinsop & Prof Oliver Heidrich
- Northumbria NHS Trust Supervisors:
 Dr Clare Winter, Jill Harland
 & Dr Elaine Winkley





