

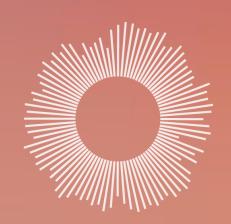
Leadership for Sustainable Health:

Everyone can make a difference!



Hospitals become leaders for 59 sustainability in their communities

Whatis it foryou?



International Hospital Federation



Addressing climate change as an integral part of healthcare delivery

Low carbon, equitable and resilient healthcare

Enhancing
quality of care
whils treducing
environmental
footprints





Building resilience to the impacts of climate change and otherevents

Understanding and addressing the determinants of health and vulnerabilities of communities served







Engaging
collaboratively
to improve
community health
outcomes and
wellbeing

Transform in g
operational and
clinical practices
towards
low-carbon care and
prevention





Developing com mitted
leadership that is
accountable to staff,
patients and
com munities

Health benefits





Health Topics ~

Countries ~

News v

Emerge

Health benefits far outweigh the costs of meeting climate change goals

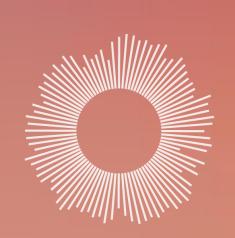
5 December 2018 | News Release | Katowice, Poland

"The health burden of polluting energy sources is now so high, that moving to cleaner and more sustainable choices for energy supply, transport and food systems effectively pays for itself," says Dr Maria Neira, WHO Director of Public Health, Environmental and Social Determinants of Health.

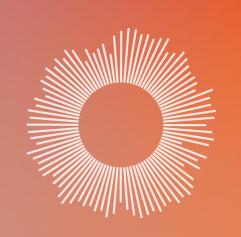
"When health is taken into account, climate change mitigation is an opportunity, not a cost."

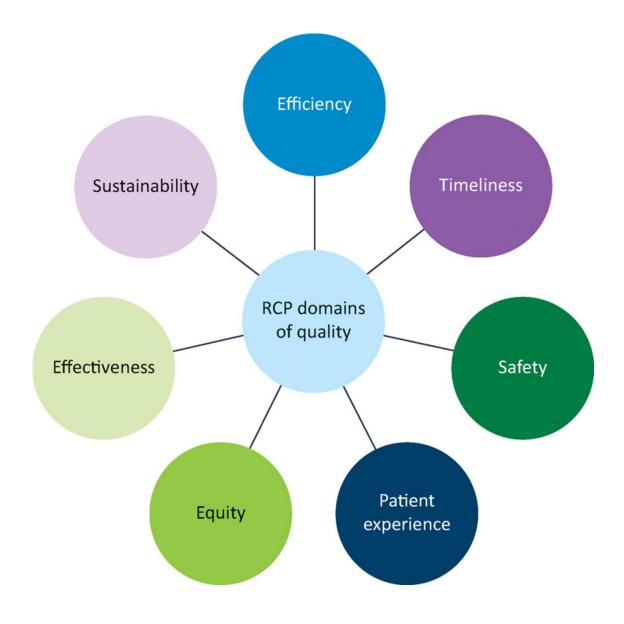
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Whatis s u s ta in a b le clinical care?



Quality of care





Domains of quality (adapted by the Royal College of Physicians from the Institute of Medicine).¹

Value of Care

Patient experience, clinical effectiveness, patient safety



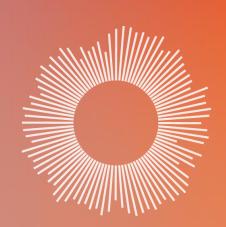
Value =

Outcomes for patients and populations

Environmental + social + financial impacts (the 'triple bottom line')



Use of resources, emissions, equity & fairness, finances



Case study: demonstrating the plan

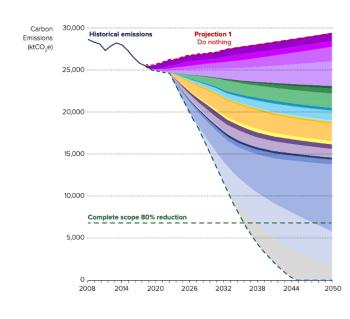
NHS, Net Zero Plan, England



Delivering a 'Net Zero' National Health Service



NHS England Roadmap to Zero emissions⁴

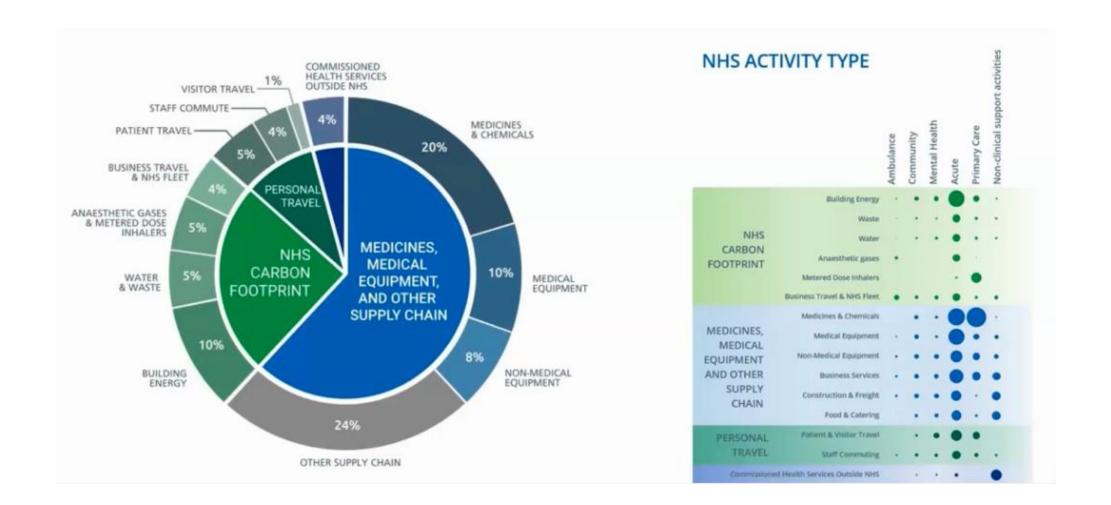


- Figure 3: Pathway to net zero for the NHS Carbon Footprint Plus Scope.
- Projection 1- Do Nothing
 Historical emissions
- - Complete scope 80% reduction

- National electricity decarbonisation
- National supply chain decarbonisation
- National vehicle efficiency
- International carbon reductions affecting
 Health and Social care supply chain
- Digital care pathway redesign
- Low carbon models of care
- Preventative medicine and reduced health inequalities
- Reduction of anaesthetic gas emissions
- Shift to low carbon inhalers
- Further shift to low carbon inhalers
- Nitrous oxide capture and reuse
- Travel for care and business, air quality and vehicle transition
- Zero emission vehicles visiting NHS sites
- Active travel (staff commuting, patient and visitor travel)
- Existing buildings energy efficiency and on-site renewables
- Buildings energy efficiency, on-site renewables and primary care stretch
- Reduce food waste and plant-based diet
- More efficient use of supplies (e.g. mobility aids, paper)
- Supplier alignment to Net Zero commitments
- Low-carbon substitutions and product innovation
- Research, Innovation and Offsetting

Case study: breakdown of emissions

NHS, Net Zero Plan, England

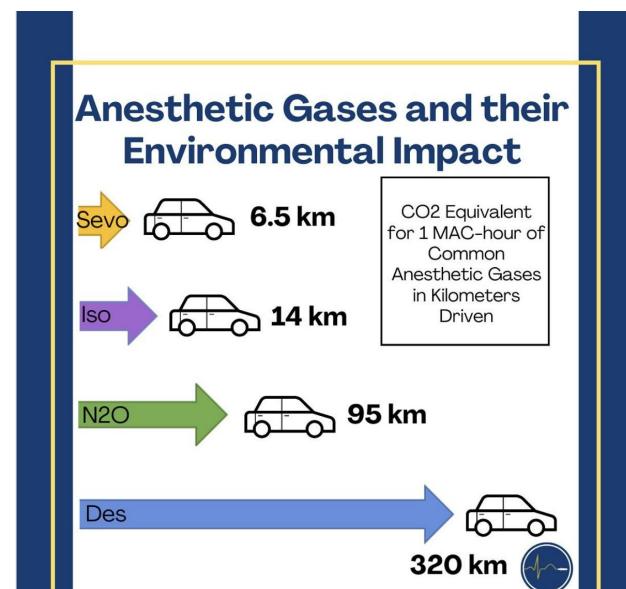


Gases: from Anaesthetic gases, to inhalers and HVACs



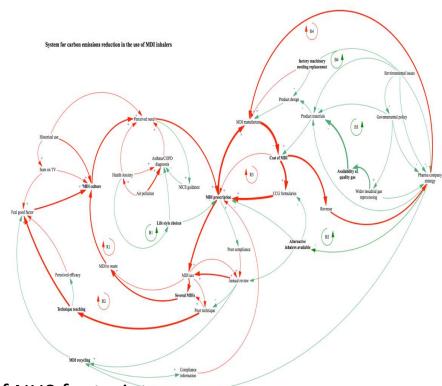
- Gas flow
- Alternatives to gases
- Midwifery/Emergency care/ operating theatres/ambulances

Download the anaesthetic gases calculator



Inhalers: Another hotspot!





Circa 2% of NHS footprint
Other alternatives available

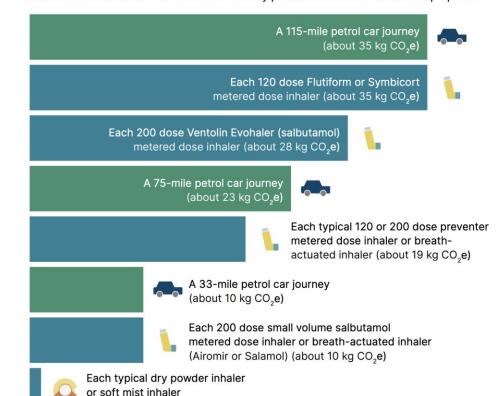
Not clinically dependent - differential use across Europe Working with patients and prescribers to shift inhaler type Asthma diagnosis matters too

Real shift for industry was... incentivising GPs!

The carbon footprint of inhalers

The chart below compares the carbon footprints of different types of inhaler. It shows the carbon dioxide equivalent (CO_2e) in kilograms (kg). This is the way that the carbon footprint of things is usually compared. The higher the CO_2e the bigger the effect on the climate. The chart also shows how different inhaler types measure up against some petrol car journeys, so you can get an idea of how big an impact they have.

The Ventolin Evohaler brand of salbutamol contains more propellant (gas) per puff than other salbutamol metered dose inhalers. Flutiform and Symbicort metered dose inhalers contain a type of propellant that has a more powerful greenhouse effect than other metered dose inhalers that contain similar medicines. Dry powder inhalers do not contain propellant.



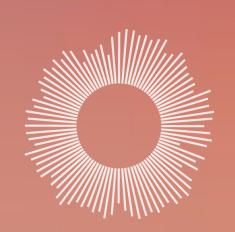
Gloves and behaviour change



 https://www.england.nhs.uk/greenernhs/whats-alreadyhappening/great-ormond-street-hospital-reducing-single-useplastics-case-study/

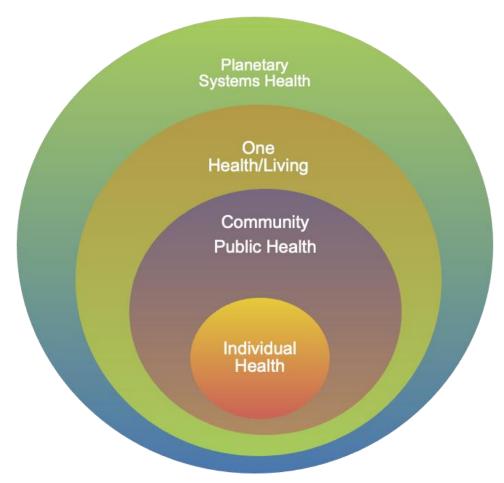
Why is this case study so key?

Routes
to
change?

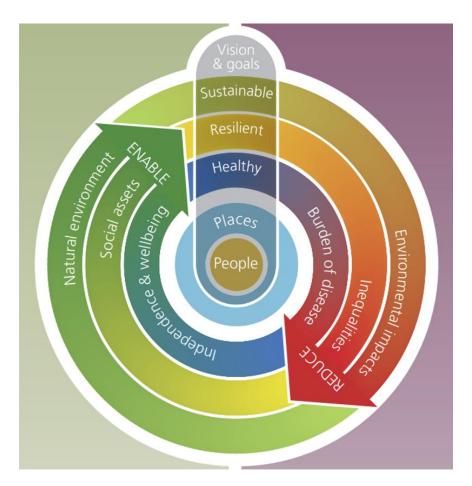


Planetary and Health Systems





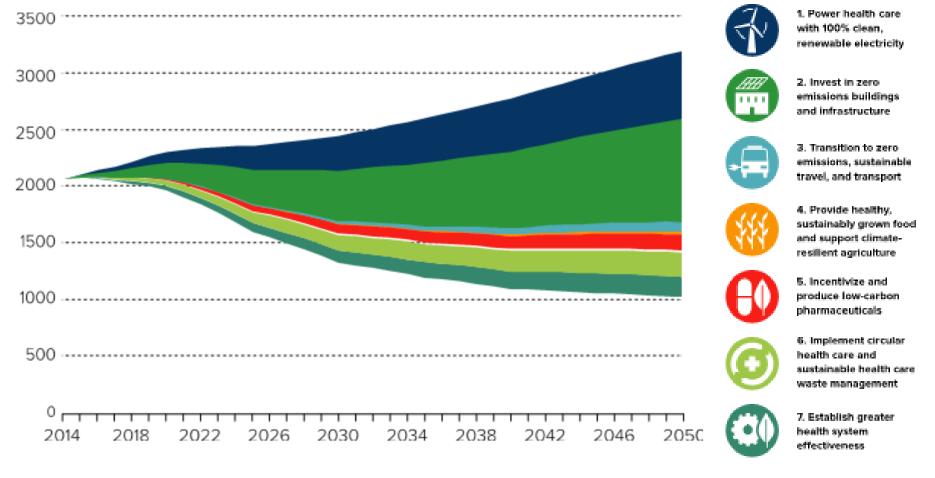
Derived from Forbes 2021: What is Planetary Health?



NHS Sustainable Development Unit 2015: Sustainable Development Strategy

Global Road Map to zero: High-impact actions





www.healthcareclimateaction.org

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5 GUIDING PRINCIPLES FOR Sustainable

OCCUPATIONAL THERAPY PRACTICE



1 SUSTAINABILITY

Learn about sustainability and the meaning of sustainable occupational participation. Know the benefits of a low carbon lifestyle, and what individual, cultural and contextual factors can lead to an unsustainable occupational lifestyle

EXPLORE

SUSTAINABLE
LIFESTYLES

Become an eco champion and reduce the carbon footprint within your own practice setting. Work actively with service users who express a desire to reduce their carbon footprint, and include sustainability in activity analysis.

ADAPT TO

3 ENVIRONMENTAL

DAMAGE

Work with individuals and small groups in the community using occupation-based interventions to help them adapt to the negative consequences of climate change using the Disaster and Development book, and other resources as guides

4 COMMUNITY SUSTAINABILITY Develop programs for working with small groups in the community that provide awareness of sustainable occupational behaviour, and empower communities to advocate for sustainability.

5 SUSTAINABLE FOCUSED CPD

Learn about the interrelationships among health, human occupation, global climate change and sustainability.

Develop evaluation and intervention tools addressing issues pertaining to sustainability of participation in various types of occupations given their impact on the ecosystems

Summarised from WFOT (2018) Sustainability Matters, Guiding principles for Sustainable Occupational Therapy Practice

Sustainable QI

EARLY MOBILISATION

IN CARDIAC INTENSIVE CARE

This pioneering project in a Southampton Cardiac Intensive Care Unit (CICU) aimed to improve both patient and service outcomes



Reduced ventilation days by 4 days Reduced overall cardiac intensive care stay by 6 days



Total savings of £1,266,327 over 2 years



Total savings of 48.5 tonnes CO2e over 2 years

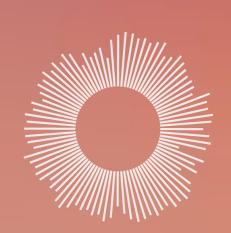


More rapid recovery, quicker discharge & return to ADLs Patients having more autonomy during their hospital stay Increased staff satisfaction



Read the report, here ...

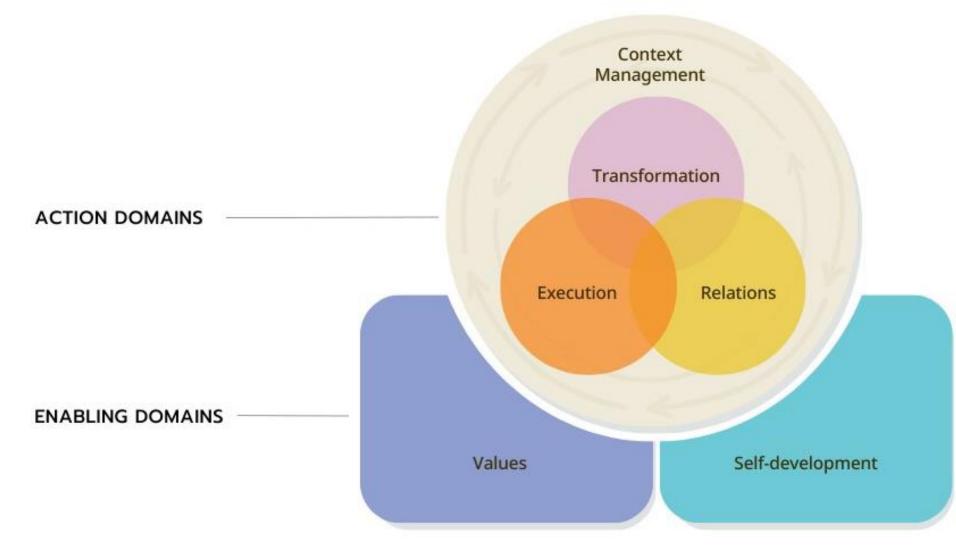
Sustaina b le Health a s a c o m p e te n c y



IHF Leadership Model

Transforming healthcare management





In ternational Hospital

Newly identified competencies

Self-development domain (2):

• Emotionalintelligence

Execution domain (11):

- Translation and implementation
- Preparedness and crisis
 management
- Digitaltechnologies in healthcare

Relations domain (4):

Compassionate
 leadership

Transformation domain (6):

- Sustainability leadership
- Organizational resilience
- Entrepreneurship

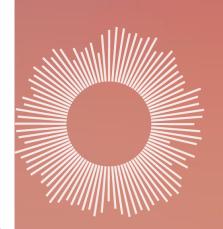
Contextmanagement domain (7):

• Advocacy

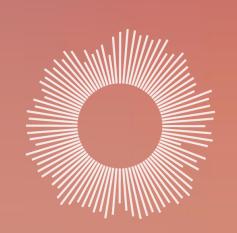
EXAMPLE: Leadership through the lens of net zero healthcare

- **VALUES** Promote **environmentals us ta in a bility** commitment in the delivery of health services.
- SELF-DEVELOPMENT Understand your approach to leaders hip to continuous ly lead and inspire others.
- Extecatery ourself on the impactor follimed processes in an healthicare way, communicate the vision, objectives and
- priorities across the organization and to key stakeholders. RELATIONS Be a compassionate leader to engage the staff and stakeholders. Assess your
- stakeboldersundenstanedingtofalndactom mditmeenthos bustonalsustainability
- Etoante & X·T MANAGEMENT Establish an engaging culture and environment with in your organization. Create relevant partnerships for netzero health care. Know the

W hatwill youdo?



Questions and Discussion







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