

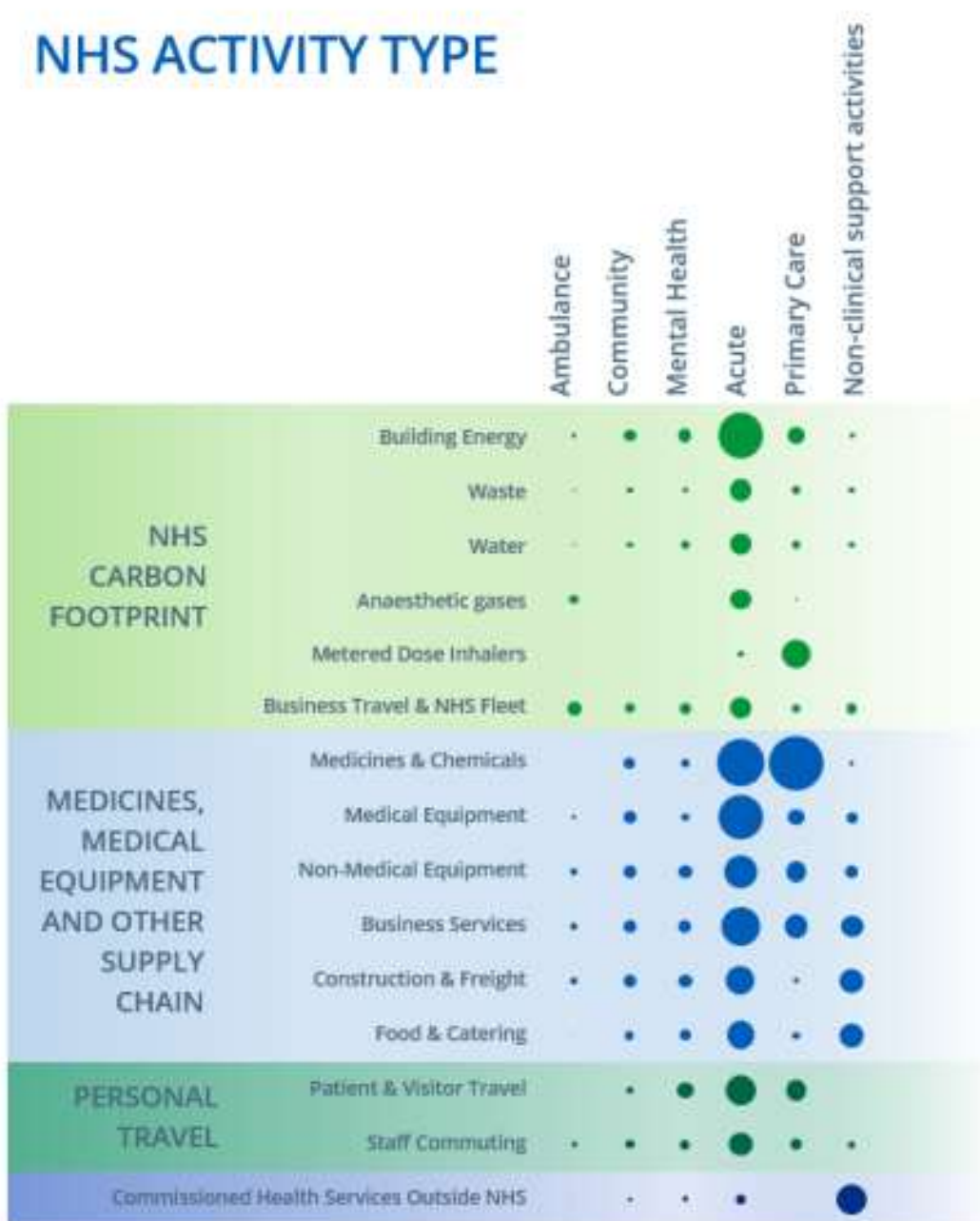
Pharmacy, Sustainability and the Wider NHS

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Great North Pharmacy Research Collaborative Regional Conference – 15 July 2022

@GtNorthPharmRes #GNPRC2022 @richardcattell1

Figure 3: Sources of carbon emissions by activity type and setting of care





Health and Care Act 2022

2022 CHAPTER 31

PART 1

HEALTH SERVICE IN ENGLAND: INTEGRATION, COLLABORATION AND OTHER CHANGES

NHS England

NHS England: duties in relation to climate change etc

After section 13NB of the National Health Service Act 2006 (inserted by section 8 of this Act) insert—

“13NC Duties as to climate change etc

- (1) NHS England must, in the exercise of its functions, have regard to the need to—
- (a) contribute towards compliance with—
 - (i) section 1 of the Climate Change Act 2008 (UK net zero emissions target), and
 - (ii) section 5 of the Environment Act 2021 (environmental targets), and
 - (b) adapt to any current or predicted impacts of climate change identified in the most recent report under section 56 of the Climate Change Act 2008.
- (2) In discharging the duty under this section, NHS England must have regard to guidance published by it under section 13ND.

Classification: Official

NHS
England

NHS
England

Delivering a 'Net Zero' National Health Service



Part and parcel of everything we do

Deprescribing

- Structured Medication Reviews
 - Green/Social Prescribing
- Include medicines cessation info in ALL guidelines

Antimicrobials

- IV-PO switch programmes
- Penicillin allergy review
 - Reduction in broad-spectrum use

Formulary Review

- Include Environmental Assessment in application proformas
- Push pharma companies for information

Plastic Reduction

- Support the NHS Plastic Pledge – eliminate unnecessary single use plastics

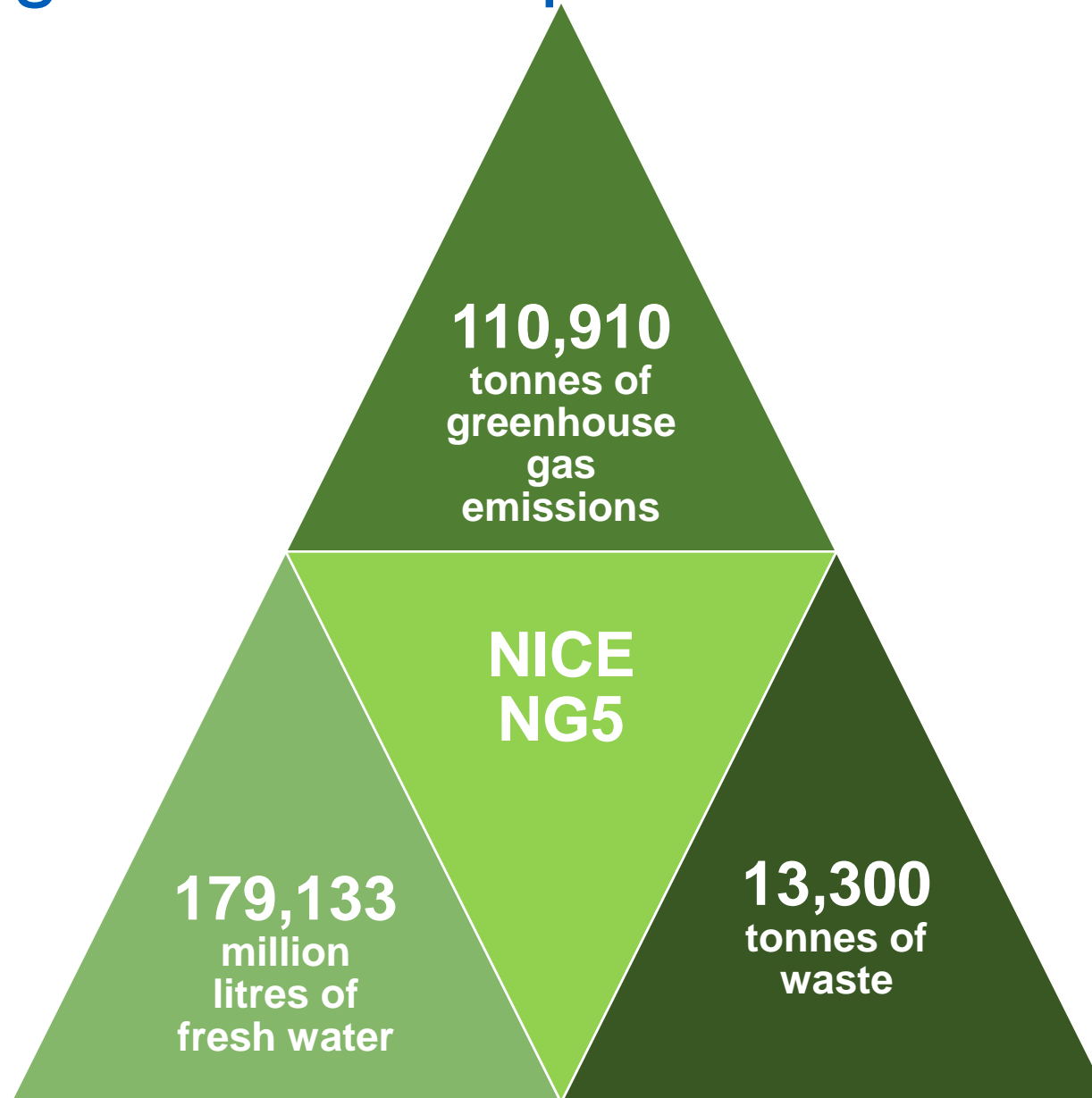
Medication Safety

- Opiate review
- Valproate risk management
 - Anticoagulation safety

Waste Management

- Create guidance for hospital staff HTM 07-01 'Management of Healthcare Waste'
- Work towards Alliance for Water Stewardship certification

Implementing medicines optimisation



IV antibiotics – the 3rd medicine for carbon zero?

1 in 3 people in hospital are on antibiotics at any on time. 50% are on IV antibiotics

Giving IV antibiotics has a greater carbon footprint than oral ie. Syringes, giving set, WFI, etc

IV antibiotics weigh more, single or 10 packs vs oral so transport CO2 greater

IV to oral switch tools exist but not always used despite previous CQUIN

Top 3 AB vials use annually in England:

- CoAmoxiclav 1.2g = 7.18m
- Flucloxacillin 1g = 3.90m
- Pip-tazo 4.5g = 6.11m

Switching by one dose earlier for these 3 IV antibiotics (10% reduction) could save 97,300kg*

Next steps

- Working with others to model CO2 from IV antibiotics by hospital for RX-info Define / model hospital system
- Feed into Greener NHS work programme
- Drive improvement in IVOS

World's first chemo drone delivery announced on NHS birthday

- Treatment can be **picked up and dropped to patients on the same day**
- Usual **delivery time cut from four hours to 30 minutes**
- **Saving fuel and money and making cancer care much more convenient** for patients living on the Isle of Wight
- **Each drone delivery replaces at least two car journeys and one hovercraft or ferry journey per delivery**



Climate Change Charter

Climate change impacts human health and well-being in multiple ways, hampering access to clean air, safe drinking water, food, and shelter, as well as increasing the demand for health services.

It's the most significant health threat modern society has ever faced, and the role for pharmacy teams is clear.

Start your sustainability journey today.



I commit to:

1. Understand how human health and the systems which underpin it are reliant on the state of our natural environment
2. Actively explore ways to make pharmacy practice and medicine use more sustainable
3. Collaborate and share best practice to improve sustainability in pharmacy and healthcare
4. Demonstrate leadership on sustainability or being a champion for sustainability within my workplace
5. Assist patients to optimise their medicine use to increase both health outcomes and environmental sustainability

My own personal commitment to sustainable action will be



- What will you do....



.....from Monday?

