



ENERGY INDUSTRIES AND INNOVATION: A HEALTHCARE PERSPECTIVE

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Climate change and public health

- Climate change poses a major threat to our health and our planet
- It constitutes one of the greatest growing risks for public health
- The environment is changing, and that change is accelerating
- This has direct consequences for patients, the public, and healthcare systems on a global scale

Source: NHS England Greener NHS National Programme 2020 <https://www.england.nhs.uk/greenernhs/>



Impact of healthcare on climate change

- The healthcare industry contributes >4% of the global net CO₂ emissions
- Surgery is a major net contributor within the healthcare industry
- Global, national, and organisational green initiatives being introduced to mitigate the carbon footprint of healthcare

Source: Public sector annual reports: sustainability reporting guidance 2020 to 2021. In: <https://www.gov.uk/government/publications/public-sector-annualreports-sustainability-reporting-guidance-2021-to-2022> [31 October 2022]



Greener NHS National Programme. NHS England 2020 <https://www.england.nhs.uk/greenernhs/>



3 key strategies

1. Inpatient stay
2. Operating Room (OR) usage
3. Healthcare travel

Delivering a net zero National Health Service: where does otorhinolaryngology – head and neck surgery stand?

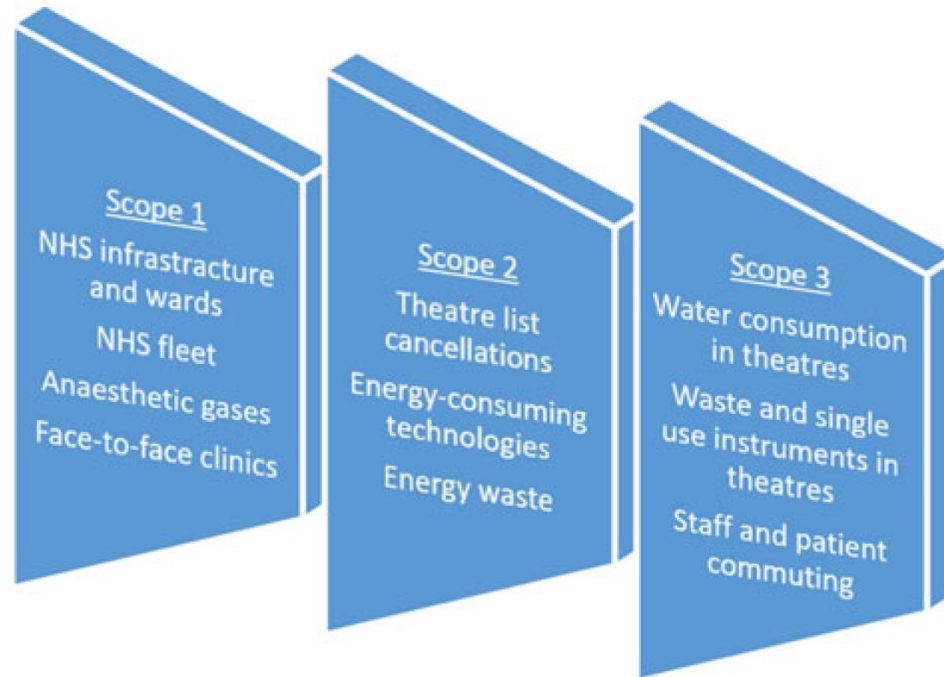
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Source: Spinos D, Doshi J, Garas G Delivering a net zero National Health Service: where does otorhinolaryngology – head and neck surgery stand? *The Journal of Laryngology & Otology*. 2024;138(4):373-380. doi:10.1017/S0022215123001780



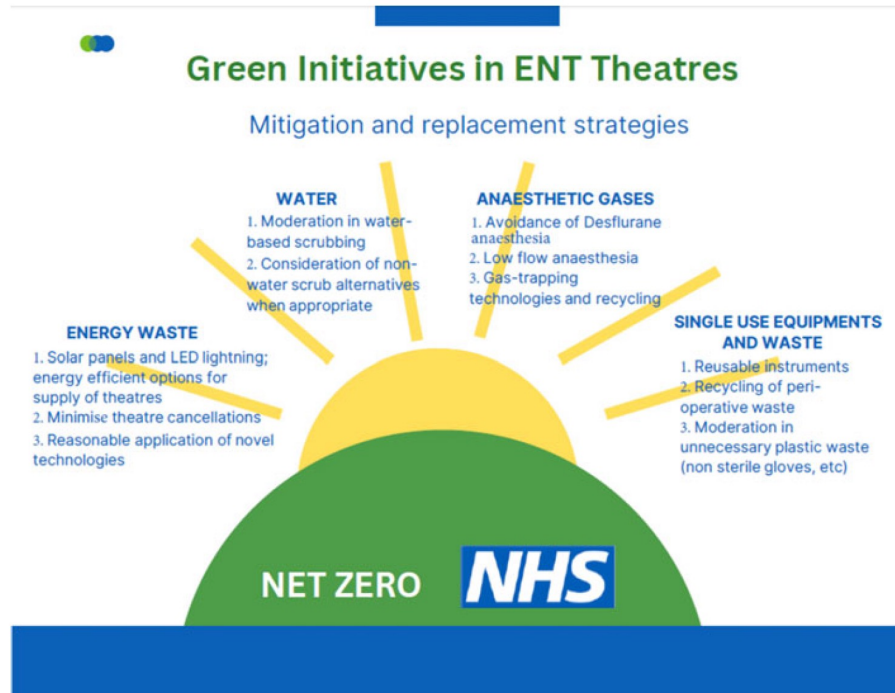
Greenhouse gas protocols



Source: Spinos D, Doshi J, Garas G Delivering a net zero National Health Service: where does otorhinolaryngology – head and neck surgery stand? *The Journal of Laryngology & Otology*. 2024;138(4):373-380. doi:10.1017/S0022215123001780

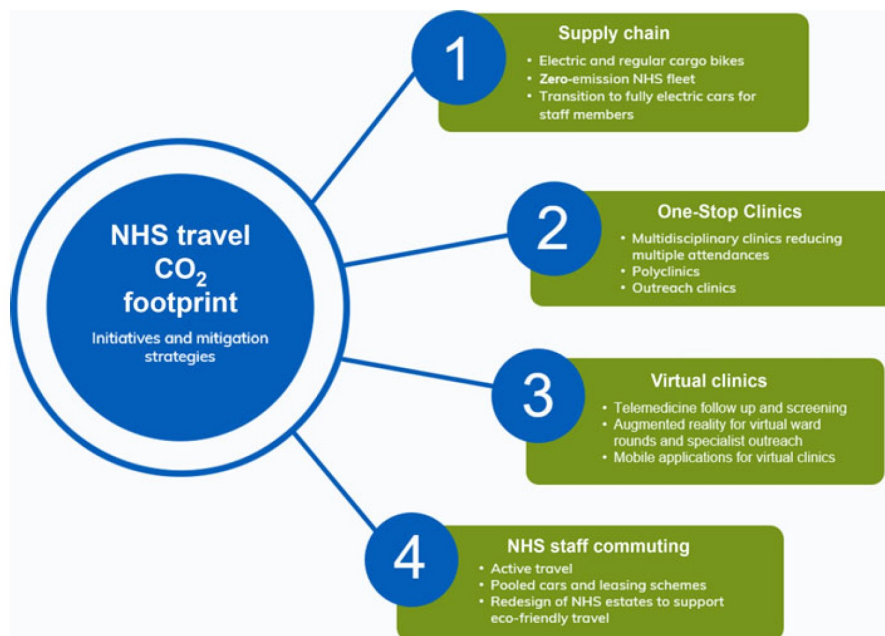


OR Carbon footprint



Source: Spinós D, Doshi J, Garas G Delivering a net zero National Health Service: where does otorhinolaryngology – head and neck surgery stand? *The Journal of Laryngology & Otology*. 2024;138(4):373-380. doi:10.1017/S0022215123001780

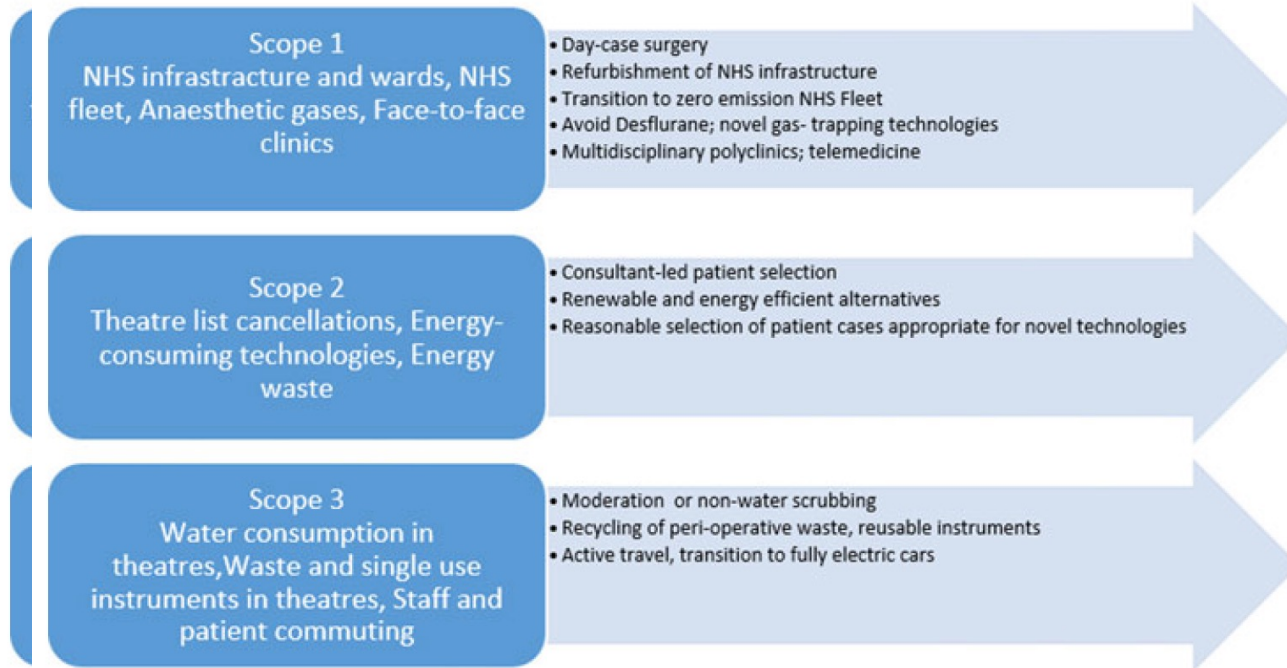
Healthcare travel



Source: Spinou D, Doshi J, Garas G Delivering a net zero National Health Service: where does otorhinolaryngology – head and neck surgery stand? *The Journal of Laryngology & Otology*. 2024;138(4):373-380. doi:10.1017/S0022215123001780



Initiatives to reduce CO₂ emissions



Source: Spinou D, Doshi J, Garas G Delivering a net zero National Health Service: where does otorhinolaryngology – head and neck surgery stand? *The Journal of Laryngology & Otology*. 2024;138(4):373-380. doi:10.1017/S0022215123001780



Questions?

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