



# Sustainability in Healthcare update November 2024

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Case Studies  
Climate Change  
COP29  
Estates & Facilities  
Food & Nutrition  
Journal articles  
Mental Health  
Nursing & Midwifery  
Occupational Therapy  
Reports  
Research  
Pharmacy  
SusQI  
News  
Events/CPD  
Listen-Watch-Read  
E-books

## Case Studies

[Greener NHS \(england.nhs.uk\)](https://www.greener.nhs.uk)

[Health care climate learning initiative | HCCA](#)

[First Wins Library - The Community of Practice for Climate Resilient and Low Carbon Sustainable Health Systems \(atachcommunity.com\)](#)

[Case Studies from the Green Team Competition | Sustainable Healthcare Networks Hub](#)

[NHS delivery drones take flight offering faster and greener patient care](#)

[First fully electric ambulances cutting carbon emissions from patient transport in England](#)

## Climate Change

[Climate change and antibiotic resistance: A scoping review - Environ Microbiol Rep](#)

[Climate change and disorders of the nervous system – The Lancet Neurology](#)

[Climate change and excess length of stay: A call to action for health equity and environmental sustainability - Journal of Hospital Medicine](#)

[Climate Change and Health through the Lens of Physical Medicine and Rehabilitation: A Scoping Review – Journal of Climate Change & Health](#)

[Climate Change, Health Equity, and Environmentally Sustainable Radiology - Can Assoc Radiol J](#)

[Diagnostic Excellence in the Context of Climate Change: A Review - Am J Med](#)

[Understanding the Relationships Between Physical Activity and Climate Change: An Umbrella Review - J Phys Act Health](#)

## COP29

[A COP29 for people and planet – UK Health Alliance on Climate Change](#)

[Bridging the gender, climate, and health gap: the road to COP29 - The Lancet Planetary Health](#)

[Global Health and Climate Alliance COP29-Digital-Report.pdf](#)

[WHO COP29 SPECIAL REPORT](#)

[COP29 Key outcomes and next steps for the UK - Climate Change Committee](#)

## Education

[Co-design and evaluation of an audio podcast about sustainable development goals for undergraduate nursing and midwifery students - BMC Med Educ](#)

[Planetary health learning objectives: foundational knowledge for global health education in an era of climate change - Lancet Planet Health](#)

[What do medical students know about sustainable development? - Int J Sust Higher Ed](#)

[The road to Net Zero: incorporating virtual reality technology to reduce the carbon footprint of medical training - BJA](#)

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SHFT: [library.services@southernhealth.nhs.uk](mailto:library.services@southernhealth.nhs.uk)

### *Estates & Facilities*

[Efficiency of passive activated carbon anaesthetic gas capturing systems during simulated ventilation - BJA](#)

[Energy Consumption Trends and Determinants in Polish Hospitals: Implications for Energy Efficiency Strategies - Sustainability](#)

[Use of the value-focused thinking methodology to understand health care waste management under the perspective of occupational and environmental health – Journal of Cleaner Production](#)

### *Food & Nutrition*

[A system of process indicators for the implementation of sustainable food systems in the European Healthcare Services - Environmental and Sustainability Indicators](#)

[Intersections of Climate Change with Food Systems, Nutrition, and Health: An Overview and Evidence Map - Advances in Nutrition](#)

[Nourishing sustainability: Clinical nutrition's impact on climate change – Clinical Nutrition](#)

[Planet-friendly school meals: opportunities to improve children's health and leverage change in food systems - The Lancet Planetary Health](#)

### *Guidelines*

[A practical guide to decarbonising the bladder cancer care pathway – NHS England](#)

[Sustainable practice | The Health & Care Professions Council](#)

### *Journal Articles*

[Achieving the sustainable waste management of medical plastic packaging using a life cycle assessment approach - Heliyon](#)

[Addressing healthcare professionals' fatigue for effective climate action engagement -The Journal of Climate Change and Health](#)

[A narrative review of personal protective equipment gowns: lessons from COVID-19 - BJA](#)

[Carbon emissions of single-use anaesthetic drug trays: more than meets the eye in life cycle assessment - BJA](#)

[Effect of alternative dosing strategies of pembrolizumab and nivolumab on health-care emissions in the Netherlands: a carbon footprint analysis - The Lancet Planetary Health](#)

[Environmental and financial impacts of perioperative paracetamol use: a multicentre international life-cycle assessment - BJA](#)

[Environmental impact of pediatric ENT surgery: A STROBE analysis - Eur Ann Otorhinolaryngol Head Neck Dis](#)

[Environmentally sustainable opportunities for health systems: Metered-dose inhaler prescribing, dispensing, use and waste at a tertiary academic centre – Can Pharm J](#)

[Envisioning the sustainable and climate resilient hospital of the future – Public Health](#)

[First step to environmentally sustainable endoscopy practice: a prospective study of minimizing multiple device use during screening colonoscopy at a large tertiary center - Endoscopy](#)

[Greening healthcare: exploring economic and ecological synergies in the pursuit of net-zero carbon futures – Sustainable Futures](#)

[Implementation approaches to improve environmental sustainability in operating theatres: a systematic review - BJA](#)

[Improving Environmental Sustainability of Operating Theatres: A Systematic Review of Staff Attitudes, Barriers, and Enablers – Ann Surg](#)

[Improving sustainability and mitigating the environmental impact of anaesthesia and surgery along the perioperative journey: a narrative review - BJA](#)

[Nitrous Oxide Manifold and Other Reduction of Emissions \(NoMoreGas\): a multicentre observational study evaluating pre-utilisation loss of nitrous oxide - BJA](#)

[Reported foodservice environmental sustainability practices in Australian healthcare and aged care services pre and post the onset of COVID-19 – Nutr Diet](#)

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[Perspectives on sustainability among surgeons: findings from the SAGES-EAES sustainability in surgical practice task force survey – Surg Endosc](#)

[The carbon footprint of the perioperative transurethral resection of bladder tumour pathway – BJU Int](#)

[The potential for reducing greenhouse gas emissions through disease prevention: a secondary analysis of data from the CREDENCE trial - The Lancet Planetary Health](#)

[The Royal College of Ophthalmologists' National Ophthalmology Database study of cataract surgery: report 19, a comparative study of the cost and carbon footprint of local anaesthesia techniques for cataract surgery - Eye](#)

[Toward Environmentally sustainable surgery: Waste recycling in general surgery operating room. Preliminary cognitive audit – World J Surg](#)

[Towards sustainability of volatile anaesthetics: capture and beyond - BJA](#)

### *Mental Health*

[Climate change and mental health: overview of UK policy and regulatory frameworks to stimulate and inform future research and practice | The British Journal of Psychiatry](#)

[Climate emotions, thoughts, and plans among US adolescents and young adults... - The Lancet Planetary Health](#)

[Digital Mental Health Innovations in the Face of Climate Change: Navigating a Sustainable Future | Psychiatric Services](#)

[Perfectionism and Cognitive and Emotional Reactions to Climate Change and Psychological Distress - Sustainability](#)

### *Nursing & Midwifery*

[Critical care nurses' experiences on environmental sustainability: A qualitative content analysis - Intensive Crit Care Nurs](#)

[Entonox® use for labour analgesia in the context of environmental impact and occupational exposure: a national survey of UK midwives – BJA](#)

[Future Nurses in a Changing Climate: Exploring the Relationship Between Environmental Literacy and Climate Anxiety - Journal of Advanced Nursing](#)

[Nurses' Perceptions and Behaviours Regarding Climate Change and Health: A Quantile Regression Analysis – J Adv Nurs](#)

[Nursing in 2050: Navigating dual realities of climate change in healthcare - Nursing Inquiry](#)

[Preparing Graduate Nursing Students to Lead Nursing Green Teams: Approach and Identified Greening Opportunities and Solutions – J Adv Nurs](#)

### *Occupational therapy*

[A Call to Arms for Professional Sustainability and Practitioner's Mental Health - Occup Ther Health Care](#)

### *Pharmacy*

[Tackling Pharmaceutical Pollution Along the Product Lifecycle: Roles and Responsibilities for Producers, Regulators and Prescribers - Pharmacy](#)

### *Reports/Policy Papers*

[Achieving environmental improvement and responding to climate change - NAO insight](#)

[American College of Rheumatology White Paper: The Effects of Climate Change on Rheumatic Conditions-An Evolving Landscape and a Path Forward - PubMed](#)

[Global Report on Food Crises \(GRFC\) 2024](#)

[Green Care is High Quality Care: The ISQua Green Paper and Call to Action for Environmentally Sustainable and Climate Resilient Health Systems](#)

[NHS England » The Innovation Ecosystem Programme – how the UK can lead the way globally in health gains and life sciences powered growth](#)

[Policy levers for a net zero NHS: four priorities for the future - The Health Foundation](#)

[NHS England annual report and accounts 2023 to 2024 Sustainability Appendix pp193 -205](#)

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SHFT: [library.services@southernhealth.nhs.uk](mailto:library.services@southernhealth.nhs.uk)

## Research

[Public good or climate washing? A guideline for climate and health researchers considering funding from carbon-intensive industries - The Lancet Planetary Health](#)

[Decarbonising the health and social care system | NIHR applications for funding open](#)

## SusQI

[Reducing healthcare waste by eliminating exam table paper in a primary care practice: a sustainable quality improvement initiative | BMJ Open Quality](#)

[Sustainable quality improvement: An essential ingredient for sustainability in modern medical curricula? – Clin Teach](#)

## News

[Delhi and Lahore enter partial lockdown as pollution levels surpass “hazardous” rating | The BMJ](#)

[HHS Shares Health Sector Climate Resilience and Emissions Reduction Announcements at COP29 | HHS.gov](#)

[Impacts of heat on health: over half EEA countries monitor and take action on heat and health | European Environment Agency's home page](#)

[New partnership aims to accelerate the path to more sustainable healthcare | CUH](#)

[The ten year health plan for England: UKHACC response – UK Health Alliance on Climate Change](#)

## Events/CPD

[Delivering greener, more sustainable, net zero mental healthcare \(rcpsych.ac.uk\) NEW e-learning](#)

[Courses - Academy of Medical Royal Colleges](#)

[Short courses in sustainability, health and healthcare | Centre for Sustainable Healthcare](#)

[Training hub - Greener NHS Knowledge Hub - FutureNHS Collaboration Platform](#)

[Food, Health and the Environment | NHS England Events 12:30 – 1:30pm 29/1/2024](#)

[Carbon Literacy for healthcare - elearning for healthcare - Updated](#)

[WHO Technical Webinar Series on Climate Change and Health](#)

[Healthcare and sustainability education and training - CPDmatch - find courses, conferences, webinars, study days and relevant articles.](#)

## Listen / Watch / Read

[Pharmacy SusNet - Reducing Medicines Waste - YouTube](#)

[How Should The 10-Year Health Plan Respond To The Climate Crisis? | The King's Fund Blog](#)

[Green spaces are linked with better mental health – NIHR Podcast](#)

[You Mean the World | Royal College of Nursing Online exhibition on Nursing in a Climate Crisis](#)

[Public Health Scotland Climate Change Bulletin – November 2024](#)

[UKHACC Bulletin November 2024 – UK Health Alliance on Climate Change](#)

## E-Books

NHS England have provided a collection of 27 e-books on Sustainability which are freely available with your NHS OpenAthens login

Access e-books on Sustainability [here](#)

Register for an OpenAthens account [here](#)



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