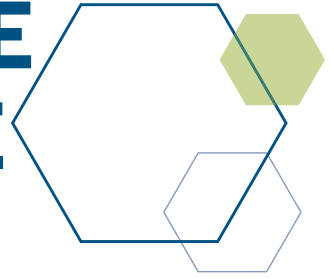


# SUSTAINABLE HEALTHCARE BY DESIGN



## INTERNATIONAL SYMPOSIUM

THE KING'S FUND, LONDON | 14 SEPTEMBER 2023

# DESIGNING CLIMATE-RESILIENT HEALTH SYSTEMS AND INFRASTRUCTURE

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Platinum Health Leader



Gold Design Leader



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# DESIGNING CLIMATE-RESILIENT HEALTH SYSTEMS AND INFRASTRUCTURE

THE KING'S  
FUND, LONDON

14 SEPT 2023

The climate emergency is a health emergency<sup>1</sup>. The impacts of a destabilising climate are no longer confined to the global south, with more intense storms and floods, and more frequent heatwaves and wildfires now also affecting high-income countries. Amid a growing risk of infectious disease spread, threats to public health and health equity are rising, increasing the burden on the healthcare sector globally. Moreover, the sector is a major contributor to the climate crisis, producing 4.4 per cent of global net emissions<sup>2</sup>.

Around the world, health system leaders are seeking to mitigate the causes of climate instability while building resilience to its destructive impacts. Clinical services, supplies and logistics, as well as buildings and infrastructure, must be redesigned. In the UK, the NHS has committed to be the first national health system to achieve net-zero emissions<sup>3</sup>. Action is focused in two key areas: a) direct interventions in estates and facilities; travel and transport; and supply chain and medicines; and b) enabling actions in new models of care; workforce; networks and leadership; and funding and finance.

At the same time, the Government has launched a major capital investment programme to deliver 48 new hospitals. It's an opportunity to set new global standards and methodologies for well-designed, sustainable development based on the NHS Net Zero Building Standard<sup>4</sup>. But even if fully delivered, the New Hospital Programme represents less than a fifth of the NHS estate, meaning that net-zero targets will fall short without significant interventions in the existing estate.

In the drive to create well-designed, net-zero hospitals while simultaneously improving patient care, what can international health systems learn from each other? Can we co-create a whole-life carbon roadmap to net zero?

Under this overarching goal sits a range of objectives. What are the best strategies for reducing operational building energy demands, embodied carbon linked to construction, and the whole-life carbon costs of building elements? What role will local renewable energy generation, grid decarbonisation, and offsetting play? How do we apply the lean, clean and green design approach? What role might modern methods of construction and prefabrication play? How can nature-based solutions be applied and what role can bio-based materials play? How are sustainability requirements balanced against service priorities, including infection control? How do we mitigate against unintended consequences and how do we finance this investment?

Net-zero construction and operation of hospital buildings is, however, only part of the story. We also need intelligent design of healthcare delivery – in the best place, at the best time, and aided by advances in digital technology. Such approaches, combined with greater focus on population health, can significantly reduce healthcare's climate footprint through reduced travel and journey times while also enhancing the quality and accessibility of care. How can integrated care and population health models leverage the co-benefits of a joined-up, system-level strategy to improve health and sustainable development to enable this transformation?

Organised by European Healthcare Design and streamed on SALUS TV in collaboration with leading international partners, the inaugural Sustainable Healthcare Design 2023 International Symposium aims to share knowledge and successful net-zero design and investment strategies. It will explore how to develop transition plans to decarbonise healthcare services and estates across the value chain, while ensuring high-quality care and patient experience remain integral.

To be held on 14 September at the King's Fund in London, the Symposium will bring together healthcare leaders from across research, practice and policy to share knowledge and collaborate on how to create a credible, ambitious transition plan that leads the healthcare sector to net zero.



**SUNAND PRASAD**  
Programme director,  
European Healthcare Design



**MARC SANSON**  
Managing director,  
SALUS Global Knowledge Exchange

<sup>1</sup> Costello, A, Abbas, M, Allen, A, Ball, S, Bell, S, Bellamy, R, et al. Managing the health effects of climate change. *The Lancet*, 2009, 373(9676): 1693-1733.

<sup>2</sup> Healthcare's climate footprint: How the healthcare sector contributes to the global climate crisis and opportunities for action. Health Care Without Harm and Arup, 2019.

<sup>3</sup> Delivering a net-zero National Health Service. NHS England and NHS Improvement, London, updated July 2022.

<sup>4</sup> NHS Net-Zero Building Standard. NHS England, London, February 2023.

# AGENDA

## Opening keynote plenary: Delivering net zero

Platinum Health Leader  


- 09.00 **Welcome and introduction**  
Sunand Prasad, chair, UK Green Building Council; programme director, European Healthcare Design, UK
- 09.10 **Platinum Health Leader address**  
Anisha Mayor, director, UK head of healthcare, WSP, UK
- 09.15 **The path to a net-zero NHS**  
Dr Nick Watts, chief sustainability officer, NHS England, UK
- 09.35 **Transforming major project delivery to deliver economic, environmental and societal benefits**  
Dr Jo Jolly, deputy director, Infrastructure and Projects Authority, UK
- 09.55 **Delivering a net-zero NHS estate: Strategies and actions**  
Fiona Daly, national deputy director of estates, NHS England, UK
- 10.15 **Panel discussion**

## 10.30 Coffee and networking

## Session 2: Strategies and action for climate resilience and decarbonisation

Gold Design Leader  


- 11.00 **International keynote**
- 11.30 **"Climate resilience – within and beyond our four walls"**  
Matthew Tulley, redevelopment director, Imperial College Healthcare NHS Trust, UK
- 11.50 **The NHS Net-Zero Carbon Building Standard – what does it mean for healthcare design?**  
Andrew Rolf, EUNA health sector technical advisory lead, UK
- 12.10 **Moving the dial on hospital decarbonisation: Exploring international strategies**  
Anisha Mayor, director, UK head of healthcare, WSP, UK
- 12.30 **Panel discussion**

## 13.00 Lunch and networking

### Session 3A: Project exemplars

Chair: Beatrice Fraenkel, Stockport NHS FT; Design Council, UK

- 14.00 **Circular healthcare: Redeveloping the Joseph Bracops Hospital in Brussels and the interregional development of the HELORA hospital network in Wallonia**  
Coen Van Den Wijngaert, engineer architect, executive partner; Laurent Grisay, civil engineer architect, executive partner; Maarten Lambrechts, architect, archipelago, Belgium
- 14.20 **Leeds Hospital of the Future: Delivering net zero**  
Mike Bacon, programme director, Building the Leeds Way Programme, Leeds Teaching Hospitals NHS Trust, UK  
Mark Rowe, managing principal, architecture, Perkins&Will, UK
- 14.40 **Setting a standard: Clock View Hospital in Liverpool**  
Bob Wills, director, Medical Architecture, UK

15.00 **Panel discussion**

## 15.30 Coffee and networking

### Session 3B: Project exemplars

Chair: Chris Shaw, Consultant; Founder, Medical Architecture, UK

- 14.00 **The New University Hospital Monklands: A legacy for sustainable healthcare design in Scotland**  
Suzanne Tighe, architect and associate, Keppie Design, UK
- 14.20 **Velindre Cancer Centre: How bio-based construction can catalyse the NHS Net-Zero Standard**  
Anna Lisa McSweeney, architect, White Arkitekter, UK  
Michael Woodford, director, White Arkitekter, UK
- 14.40 **Rising to the heat decarbonisation challenge: Key considerations and learnings from Birmingham Women's and Children's Foundation NHS Trust**  
Jessica Brown, senior net-zero consultant, Lexica, UK

15.00 **Panel discussion**

## Session 4: Expert panel: Climate-resilient health systems: Backing declaration with delivery

- 16.00 These are challenging times for delivering the far-reaching, evidence-based action needed to avoid catastrophic damage to the habitat that we share with millions of other species within a mutually supportive eco-system. On the one hand, the evidence of harm is everywhere; on the other, actions towards sustainability that once attracted cross-party consensus are now fodder for culture wars. Genuine financial concerns mix with understandable incomprehension and un-enlightened self-interest. The scale of change needed can appear daunting. Healthcare design is central to meeting the challenge of the climate and nature emergency. The declared and detailed ambitions for a net-zero NHS is a great example of setting out a convincing path to sustainability. The challenge around the world is to back declaration with delivery. Where should we focus our energies? How much can we rely on technology? Are we being open about the short-term costs of the long-term project of climate recovery? What are the respective roles of central government, local government and the private sector, and how should they work together? How can we build capacity in the industry required to meet the targets?

Chair: Sunand Prasad, chair, UK Green Building Council; programme director, European Healthcare Design, UK

Panel: Smith Mordak, chief executive, UKGBC, UK

## Closing session

- 16.50–17.00 Sunand Prasad, chair, UK Green Building Council; programme director, European Healthcare Design, UK





## FEATURED SPEAKERS



**SUNAND PRASAD**

Chair, UK Green Building Council; Programme director, European Healthcare Design, UK



**NICK WATTS**

Chief sustainability officer, NHS England, UK



**FIONA DALY**

National deputy director of estates, NHS England, UK



**BEATRICE FRAENKEL**

Design regeneration consultant; Non-executive director, Stockport NHS FT; Trustee, Design Council, UK



**DR JO JOLLY**

Deputy director, Infrastructure and Projects Authority, UK



**ANISHA MAYOR**

Director, UK head of healthcare, WSP, UK



**COEN VAN DEN WIJNGAART**

Engineer architect, Executive partner, archipelago, Belgium



**BOB WILLS**

Director, Medical Architecture, UK



**MIKE BACON**

Programme director, Building the Leeds Way Programme, Leeds Teaching Hospitals NHS Trust, UK



**MATTHEW TULLEY**

Redevelopment director, Imperial College Healthcare NHS Trust, UK



**SMITH MORDAK**

Chief executive, UKGBC, UK





**JESSICA BROWN**

Senior consultant for net zero,  
Lexica, UK



**LAURENT GRISAY**

Civil engineer architect, Executive  
partner, archipelago, Belgium



**MICHAEL WOODFORD**

Director, White Arkitekter, UK



**ANDREW ROLF**

EUNA health sector technical  
advisory lead, UK



**ANNA LISA MCSWEENEY**

Architect,  
White Arkitekter, UK



**MAARTEN LAMBRECHTS**

Architect,  
archipelago, Belgium



**SUZANNE TIGHE**

Architect and associate,  
Keppie, UK



**MARK ROWE**

Managing principal,  
architecture, Perkins&Will, UK



**CHRISTOPHER SHAW**

Consultant; Founder,  
Medical Architecture, UK



## REGISTRATION

A range of in-person and virtual-only tickets are available in two categories: Public Sector and Commercial. Registration is open now with Early bird savings until 23 August. To register, please visit: [www.sustainablehealthcaredesign.global](http://www.sustainablehealthcaredesign.global)

In-person and virtual Group Discounts for 3 (5%); 5 (15%) or 10 (25%) persons on application at [info@europeanhealthcaredesign.eu](mailto:info@europeanhealthcaredesign.eu)

### In-person registration

#### Commercial rate:

Early bird rates (until 23 August, 2023): £345 (£414 inc. VAT)  
Standard rates (from 24 August, 2023): £395 (£474 inc. VAT)

#### Public sector rate:

Early bird rates (until 23 August, 2023): £195 (£234 inc. VAT)  
Standard rates (from 24 August, 2023): £245 (£294 inc. VAT)

### Virtual registration

Early bird rates (until 23 August, 2023): £95 (£114 inc. VAT)  
Standard rates (from 24 August, 2023): £145 (£174 inc. VAT)

## SPONSORSHIP

Organised under the umbrella brand of the globally acclaimed European Healthcare Design Congress and live streamed on SALUS TV, Sustainable Healthcare Design 2023 is part of a series of international symposiums designed to provide a 'deep-dive' into topics and themes of particular significance to the healthcare design and planning communities.

Each symposium is held in-person over a single day and broadcast 'live' to a worldwide audience on SALUS TV. At relevant symposiums, the option of hosted study tours to benchmark healthcare facilities will be available to participants.

Organised in partnership with the UK and Europe's expert professional bodies from the healthcare planning and design fields, international academic institutions, leading public and private health providers, and the healthcare industries, each symposium provides a global forum to share knowledge on how to plan and design health systems and infrastructure to achieve fiscal balance, equality of access, greater efficiency, net-zero, quality improvement, and better health outcomes.

Sponsorship and exhibition packages range from £2500 to £10,000, and can be designed in a bespoke way to support your needs and objectives. Discounts are also available for bookings made across multiple symposiums and the European Healthcare Design Congress.

We are delighted to invite commercial partners to support these prestigious, world-leading symposiums by sponsoring or exhibiting. For more details on packages and prices for Sustainable Healthcare Design 2023, or future international symposiums, contact Marc Sansom at [marc@salus.global](mailto:marc@salus.global)

## VENUE AND HOTEL

Sustainable Healthcare Design 2023 will be hosted at The King's Fund in a Grade II listed Georgian townhouse, overlooking Cavendish Square. The accredited venue, No.11 Cavendish Square, WIG 0AN includes a 282-seater lecture theatre with built-in audiovisual and streaming facilities, with period features and a beautiful Orangery. See <https://www.11cavendishsq.com>

Situated in the heart of London's West End, the venue is within walking distance of Oxford Circus and Bond Street stations. Close to shops, theatres, restaurants and the Royal Colleges, it is conveniently located for all the main London railway stations and tube lines.

As an independent charitable organisation working to improve health and care in England, the King's Fund's vision is that the best possible health and care is available to all, making the venue an ideal partner for Sustainable Healthcare Design 2023.

For local hotel recommendations, contact [info@europeanhealthcaredesign.eu](mailto:info@europeanhealthcaredesign.eu)

