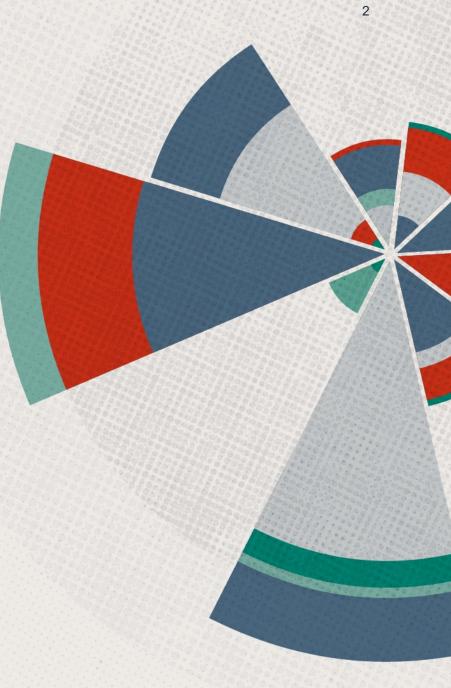


Exploring nine healthcare systems decarbonisation journey

Key drivers

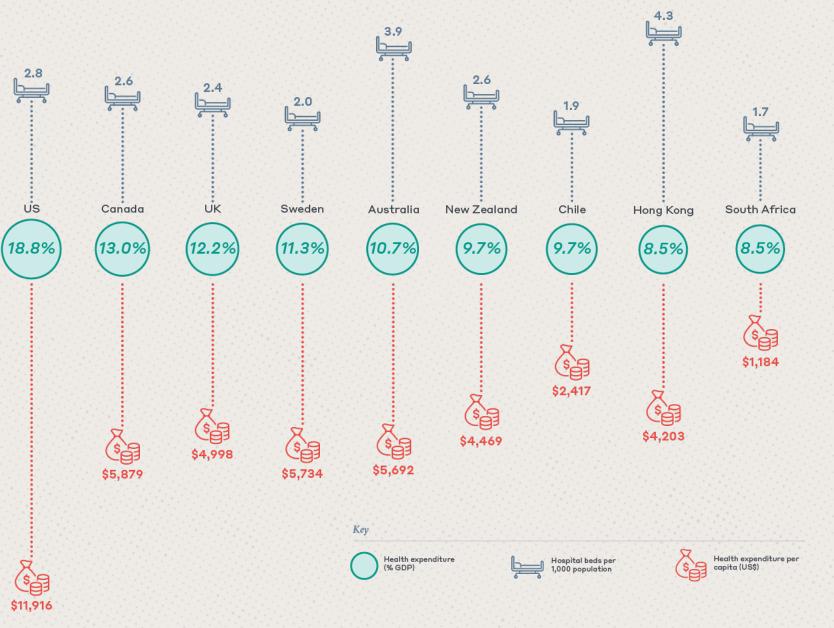
- One single global mission
- Clients' feedback to share learnings from across the world
- How policy, economy, industry and environment influence the speed and degree of decarbonisation

HOW CAN WE SUPPORT THIS CHALLENGING DECISION-MAKING PROCESS?



Exploring nine healthcare systems decarbonisation journey

What are they key metrics of a successful healthcare system?



HEALTHCARE BEYOND CARBON Exploring nine healthcare systems decarbonisation journey

How much does healthcare contribute to national emissions?

Healthcare greenhouse gas emissions as percentage of national emissions (%, 2015)



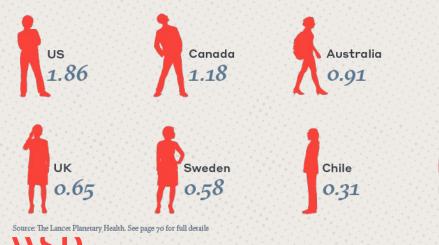
New Zealand

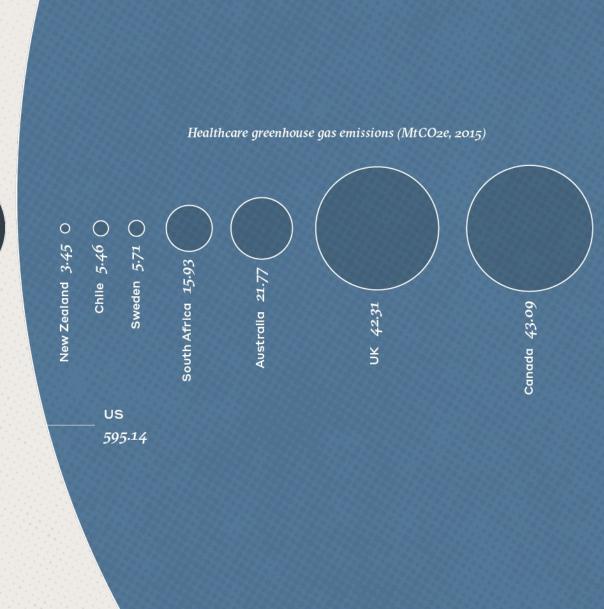
0.75

South Africa

0.29

Healthcare emissions per capita (tCO2e/yr, 2015)



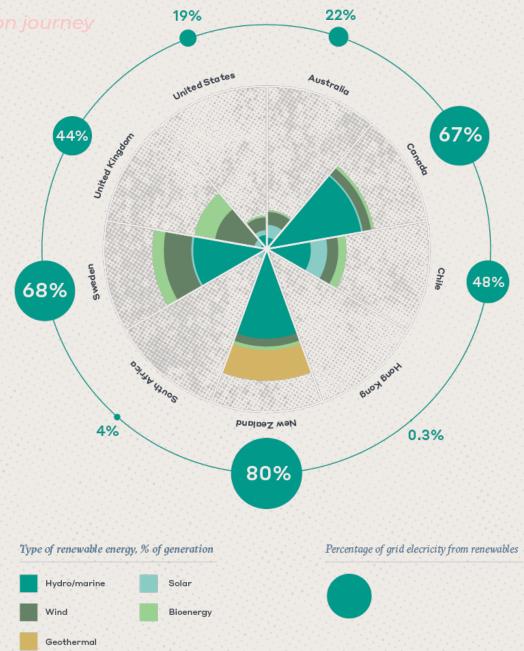


Exploring nine healthcare systems decarbonisation journey

What energy sources do hospitals use?		Heating & hot water (primary & back-up)	Electricity (primary & back-up)
	UK	<u>(</u>) 전 ()	
	Sweden		
	US	回	
	Canada	⊡	
	Chile		
	South Africa		
	Hong Kong		
	Australia		
	New Zealand		
wsp	Cogl Comb		ectricity Heat pump Natural gas Town gas

Exploring nine healthcare systems decarbonisation journey

How fast are grids switching to renewables?



wsp

HEALTHCARE BEYOND CARBON Exploring nine healthcare systems decarbonisation journe

Deliver care where it is best received.

Create a portfolio approach

- Do all healthcare services need to be housed in an acute hospital where EUI is high?
- Consider climate-related risks when planning the location of healthcare buildings and maximise renewable fuel sources where possible

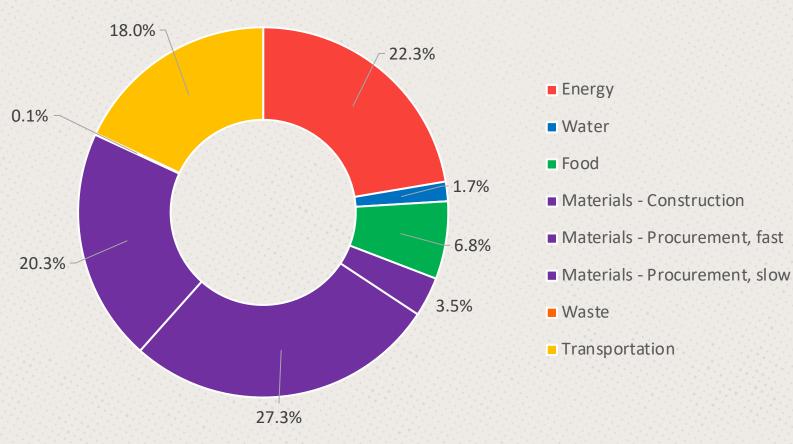




Healthcare providers could become self-sufficient to the extent of becoming net exporters of energy

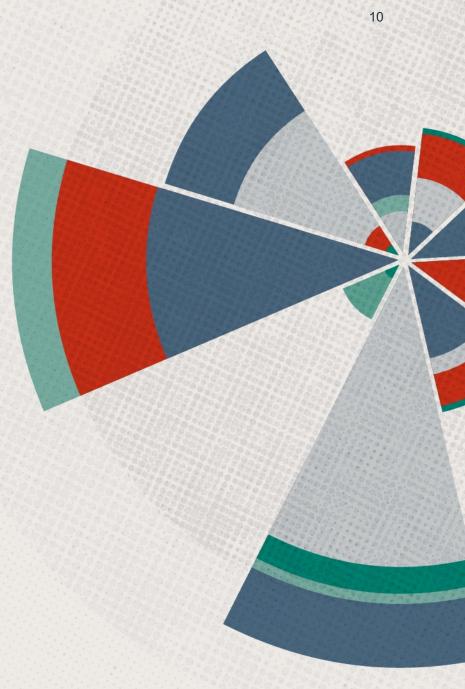
Life-cycle carbon thinking.

- Just over 20% falls into scopes 1 and 2 emissions.
- Scope 3 is where we move the dial faster on decarbonisation.
- Patient-centric design and Smart buildings can benefit GHGs, broader health outcomes while lowering cost.



Funding routes – friend or foe?

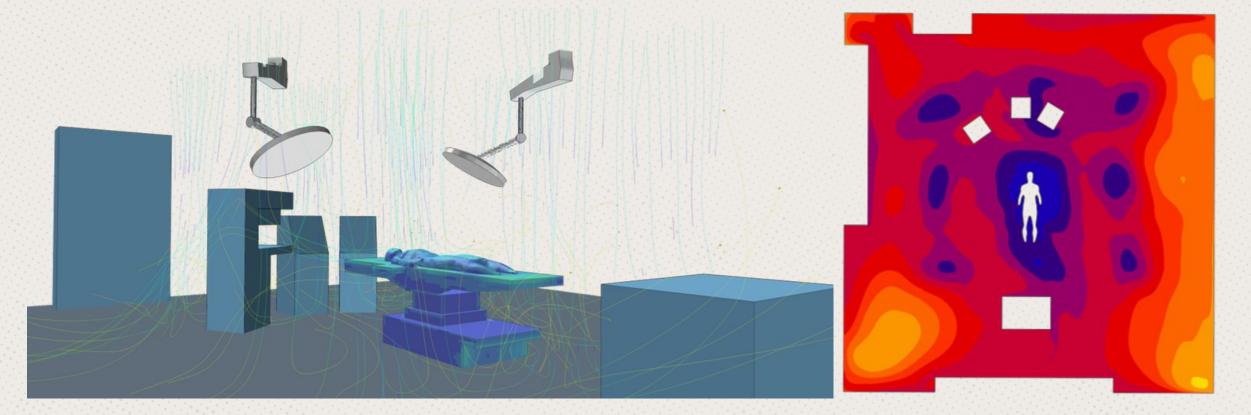
- Public Private Partnership
- Compulsory vs. Voluntary
- Carrot & Stick



HEALTHCARE BEYOND CARBON Exploring nine healthcare systems decarbonisation journey

115

Healthcare priorities come first...



But how can infection control standards work together with decarbonisation?

HEALTHCARE BEYOND CARBON Exploring nine healthcare systems decarbonisation journe

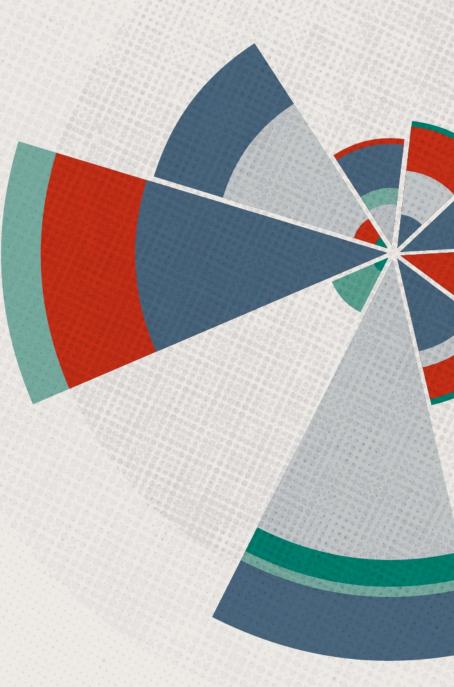
Looking ahead to 2050

NEW

Let's take a "long-life, loose fit" approach on our new facilities, investing more now to achieve longevity while being zero carbon on day 1.

EXISITNG

Don't delay taking portfolio-wide approach – aligning planned investment and renewal with decarbonisation action to maximise cost-benefit.



Exploring nine healthcare systems decarbonisation journey

Energy use intensity is not measured in a consistent way across healthcare systems, but we have compiled a sample of actual and target EUI figures for acute hospitals

Where to start?

Sharing visions, policy, process and performance.

What are the key metrics of performance for healthcare decarbonisation?

How can we take a data-driven approach to promote sharing and accelerate action?

