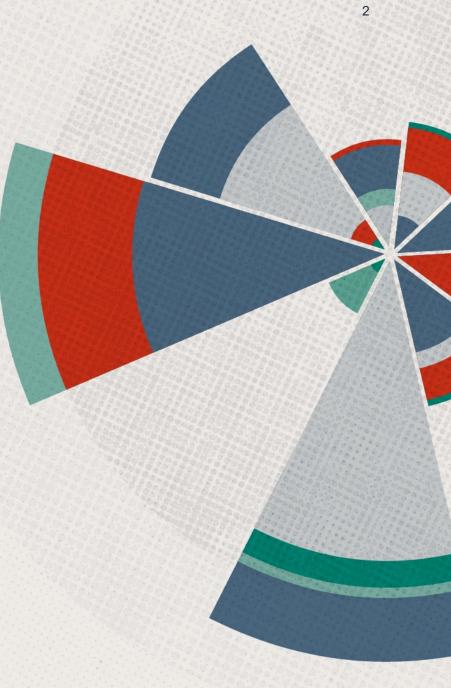


Exploring nine healthcare systems decarbonisation journey

### **Key drivers**

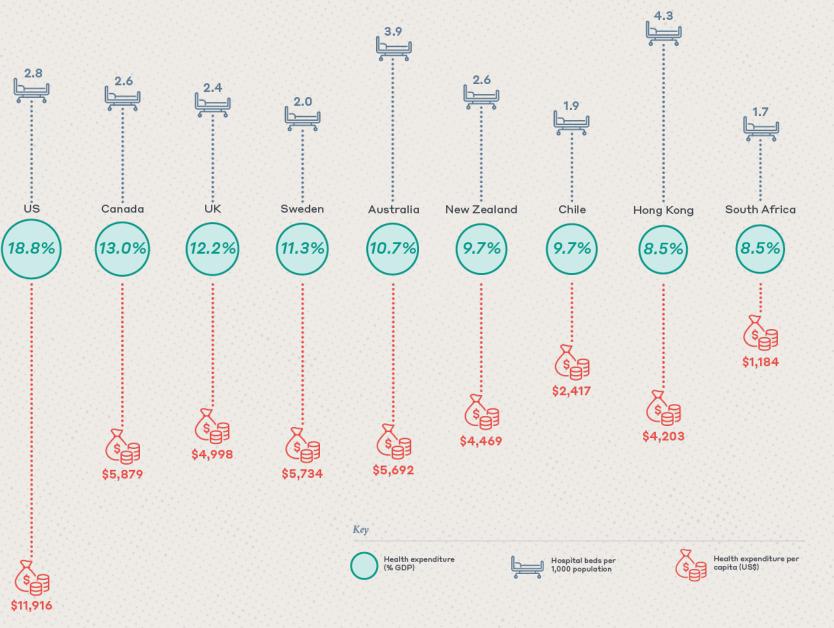
- One single global mission
- Clients' feedback to share learnings from across the world
- How policy, economy, industry and environment influence the speed and degree of decarbonisation

## HOW CAN WE SUPPORT THIS CHALLENGING DECISION-MAKING PROCESS?



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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)



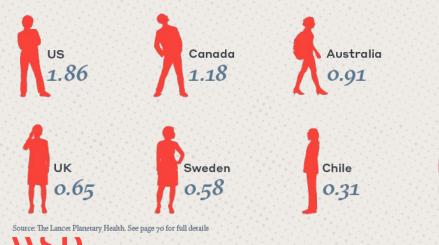
New Zealand

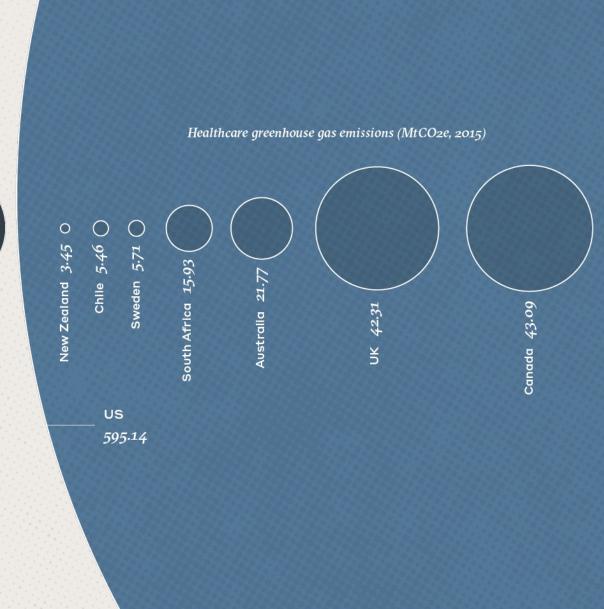
0.75

South Africa

0.29

Healthcare emissions per capita (tCO2e/yr, 2015)



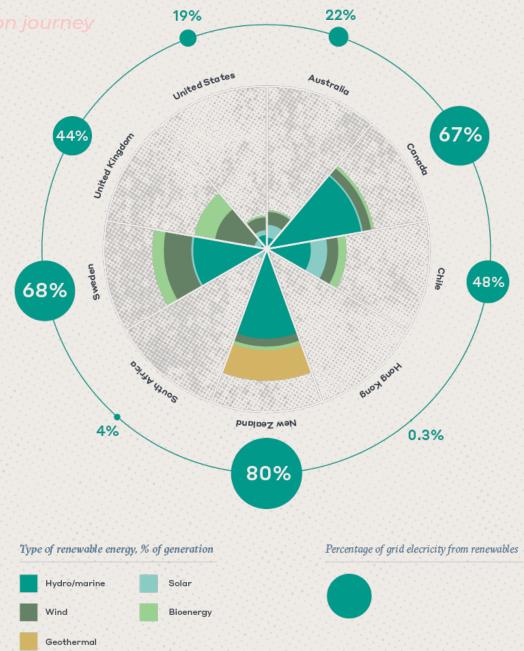


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What energy sources do hospitals use?		Heating & hot water (primary & back-up)	Electricity (primary & back-up)
	UK	<u>(</u> ) 전 ()	
	Sweden		
	US	<b>回</b>	
	Canada	⊡	
	Chile		
	South Africa		
	Hong Kong		
	Australia		
	New Zealand		
wsp	Cogl Comb	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

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### 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

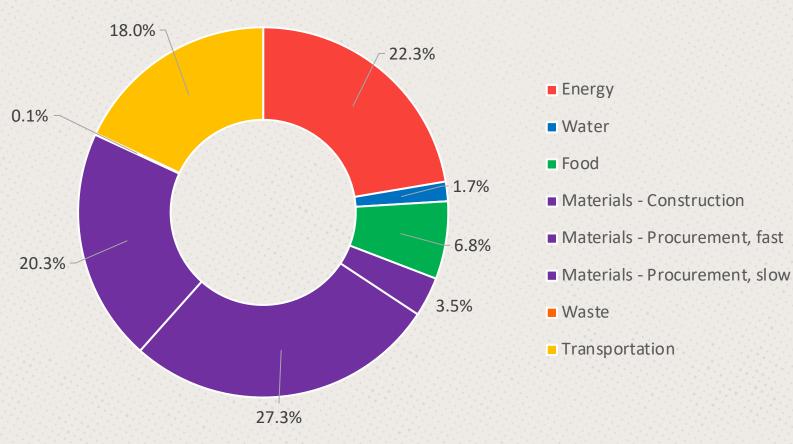




Healthcare providers could become self-sufficient to the extent of becoming net exporters of energy

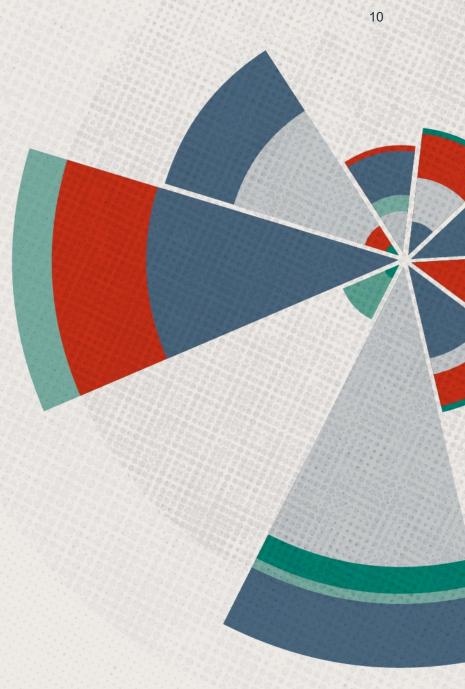
### Life-cycle carbon thinking.

- 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?**

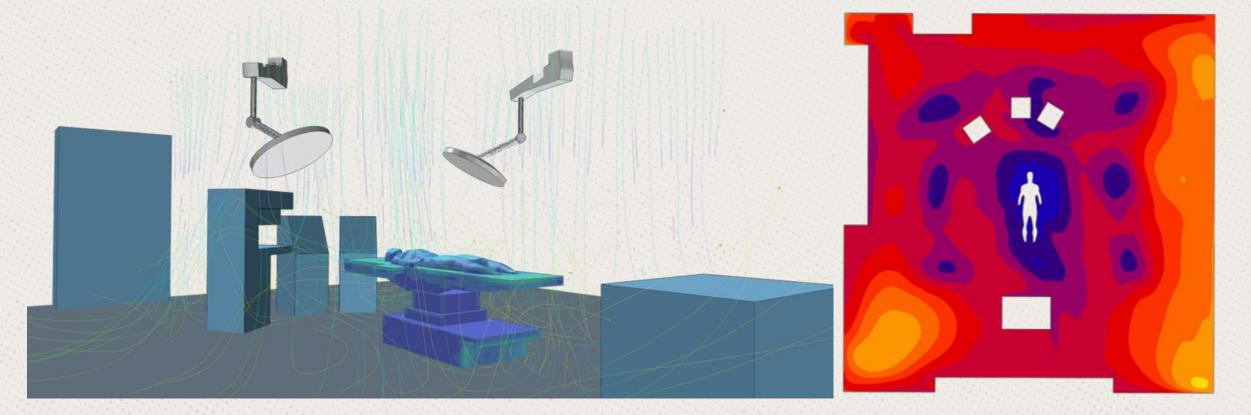
- Public Private Partnership
- Compulsory vs. Voluntary
- Carrot & Stick



HEALTHCARE BEYOND CARBON Exploring nine healthcare systems decarbonisation journey

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### Healthcare priorities come first...



#### But how can infection control standards work together with decarbonisation?

#### HEALTHCARE BEYOND CARBON Exploring nine healthcare systems decarbonisation journe

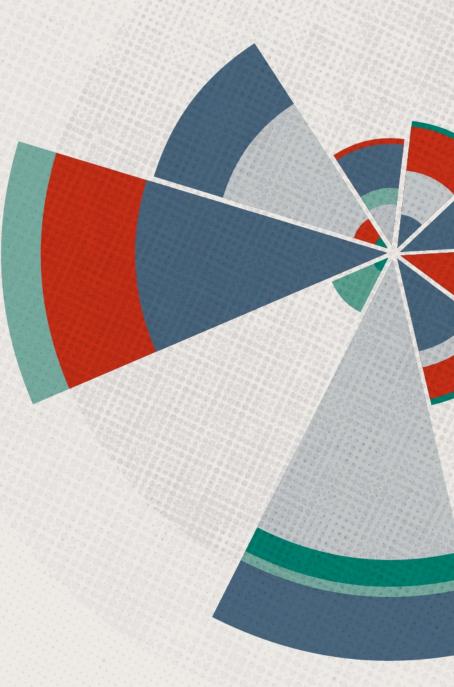
### Looking ahead to 2050

### 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.



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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?

