

# Advancing Net Zero with the Automated Bed Washing System

Beds can be washed, dried, and ready for patient use in 6 minutes – no manual cleaning required.

In January 2020, the campaign for a greener NHS was launched to mobilise the 1.3 million staff, setting out an ambitious, evidence-based route map and date for the NHS 'To become the world's first net zero carbon health service and respond to climate change, improving health now and for future generations'. All sectors of the economy are exposed to a net-zero transition, but some are more exposed than others. We need to do things differently – challenge the norm with re-invention!

- Uses one tenth of the water of traditional washing tunnels
- No chemical cleaning agents
- Cleans IPX4 non washable beds
- 10 beds cleaned every hour
- Automated mattress handling
- Washing, disinfection and drying all in one
- Thermal disinfection robots apply high temperature steam
- Completely automated process
- RF tags report on real-time bed locations data

## **Innovation Pathway**

#### **DEVELOPMENT**



Using precision robots and high-temperature steam this is the only system on the market that can clean and disinfect IPX4 (non-washable) beds to provide a consistent and controlled quality of thermal disinfection.



#### **ENDORSEMENT**

The Bed Washing System based on a 600-bed hospital, could save as much as £616,000 over 10 years.



## **IDEA GENERATION**

Beds and mattresses are one of the highest transmitters of bacteria in hospitals. Most hospital beds in the UK are currently cleaned by hand, which only reduces microorganisms by 35%. The Innova Bed Washing System is an automated bed washing system proven to reduce bacteria by up to 99%.



## **CARBON NET ZERO**

The Bed Washing System uses no harmful chemicals or chemical additives, 35% lower CO<sub>2</sub> emissions than with other bed washing machines with automatic bed maintenance and inspection reminders enhance equipment lifespan.



### **ADOPTION**

On average, it takes 15 minutes to clean one hospital bed and mattress by hand. The Bed Washing System can clean, disinfect, and dry a bed in as little as 6 minutes. Reducing cleaning time by 80% & costs by over 20%.

