

**VENTAIRGE**

**The HCR-01  
System:  
A Low Carbon  
Renewable Heating,  
Cooling &  
Refrigeration  
System for Public  
& Commercial  
Buildings**

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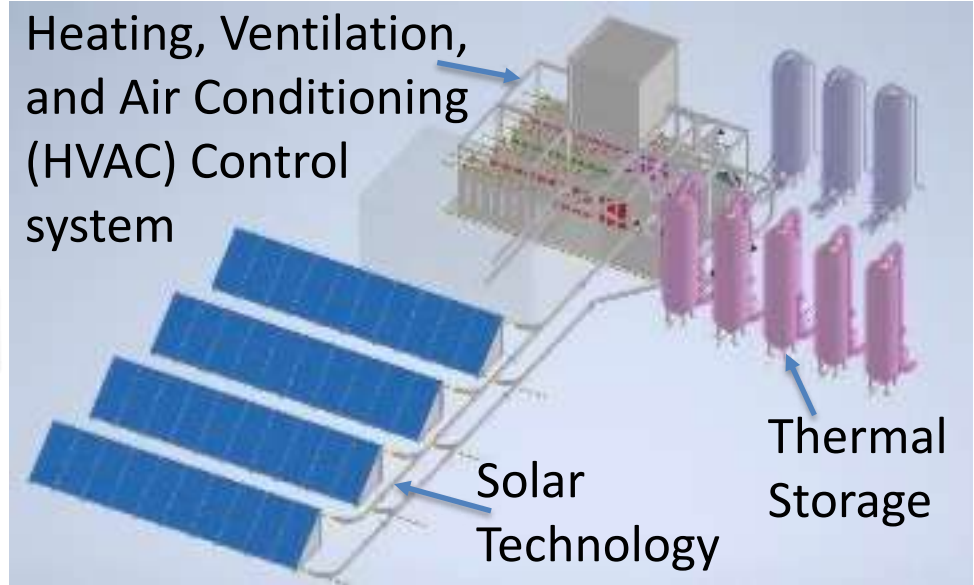
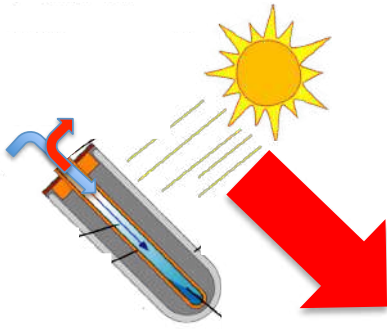


## Challenge & Opportunity

- 🌍 Heat used to warm-up buildings is one of the largest energy sources consumed in the UK. Greenhouse Gas (GHG) emissions from heat is also one of the single largest contributors to emissions;
- 🌍 The majority of UK cooling demand is dominated by commercial buildings and is set to rise due to expected rising temperatures;
- 🌍 Room temperatures have varying effects on the cognitive performances of different occupants.

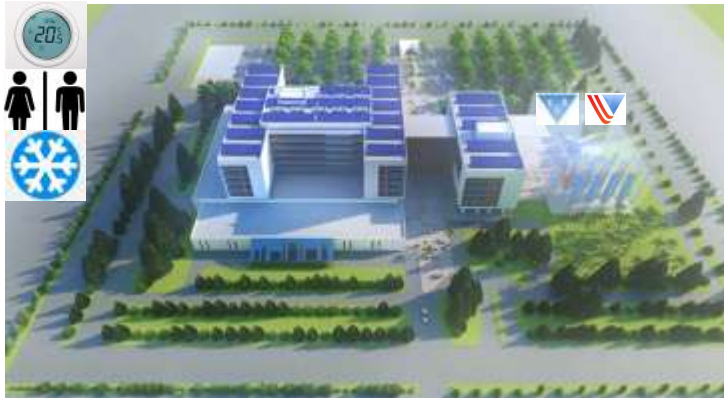
**This creates an opportunity to provide a solution to decarbonise buildings, and consider occupancy-based temperature regulation to improve productivity.**

# Solution



## Hospitals

## Supermarkets



## Features

- Delivers renewable energy for building heating, cooling and refrigeration;
- Utilises the sun as the energy source to provide heating, and power coolers;
- High storage energy density;
- Sophisticated occupancy-based temperature regulation;
- Eliminates the use of Chlorofluorocarbon (CFC) refrigerants.



Reduces energy bills by up to **40%**

CO<sub>2</sub> emissions reduction of up to **75%**



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## The Ventairge HCR-01 Solution can help you:

- Move towards achieving carbon neutrality;
- Be energy efficient and eradicate pollution;
- Increase your knowledge in making energy savings;
- Minimise disruption to services because the solution can be easily retrofitted with negligible downtime;
- Secure UK Government 'green' funding and grants towards our technology;
- Achieve efficient interaction between heating and cooling;
- Eliminate CFC refrigerants;
- Be the first to reach net-zero goals;
- Improve your customers' experience, health, safety and wellbeing.



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● CO<sub>2</sub> emissions reduction of up to **75%**