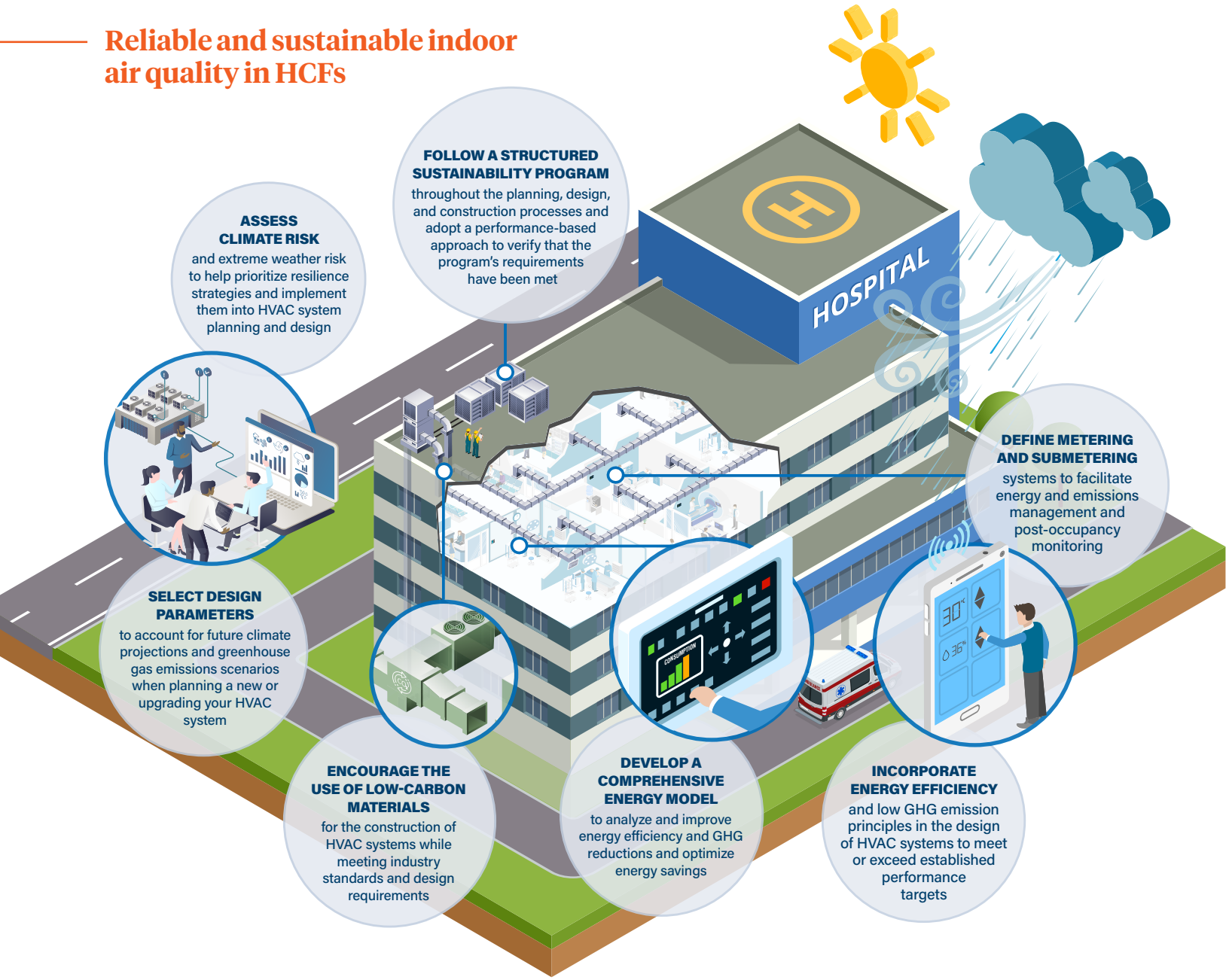
# Optimizing indoor air quality in health care facilities with climate change considerations

## CSA Z317.2:24, Special requirements for heating, ventilation, and air-conditioning (HVAC) systems in health care facilities

Inadequate indoor air quality in health care facilities (HCFs) can complicate patient care outcomes and negatively impact the health and well-being of their staff, visitors, and occupants. Proper design, installation, commissioning, operation, and maintenance of heating, ventilation, and air conditioning (HVAC) systems can decrease the risk of airborne transmissions, reducing the risk of healthcare-acquired infections. Additionally, well-designed HVAC systems can help HCFs achieve their energy conservation, decarbonization, and resilience objectives and promote judicious use of renewable and non-renewable resources while delivering comfort and safety for all building occupants.

The National Standard of Canada, CSA Z317.2:24, *Special requirements for heating, ventilation, and air-conditioning* (HVAC) *systems in health care facilities*, can help optimize indoor air quality, considering not only the impacts of climate change on HVAC systems but also implementing measures to improve energy efficiency and reduce greenhouse gas (GHG) emissions of HCFs.

## Reliable and sustainable indoor air quality in HCFs



## Who should use the standard?

- Architects
- Engineers
- Contractors
- Infection prevention and control personnel
- Facility and maintenance managers
- Health care staff
- Federal, provincial, and territorial governments and regulators

## Adopting the recommendations of the standard CSA Z317.2:24 can help:

### Improve HCF's resilience

and ability to withstand and recover from the effects of the changing climate and extreme weather events

### Increase energy efficiency

of HVAC systems to help achieve zero-carbon emissions and sustainability targets of the HCF

### Optimize energy savings

through the development of a comprehensive energy model to analyze and improve energy efficiency and conservation

### Reduce operational costs

through adoption of sustainable practices leading to extended life of HVAC systems and reduced repair and replacement costs

### Contribute to improved health outcomes

by maintaining appropriate indoor air quality and creating a healthy environment for delivery of patient care

## Get CSA Z317.2:24

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For more on CSA Group research and standards for increased resilience of health care facilities, visit csagroup.org/ResilientHCF

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