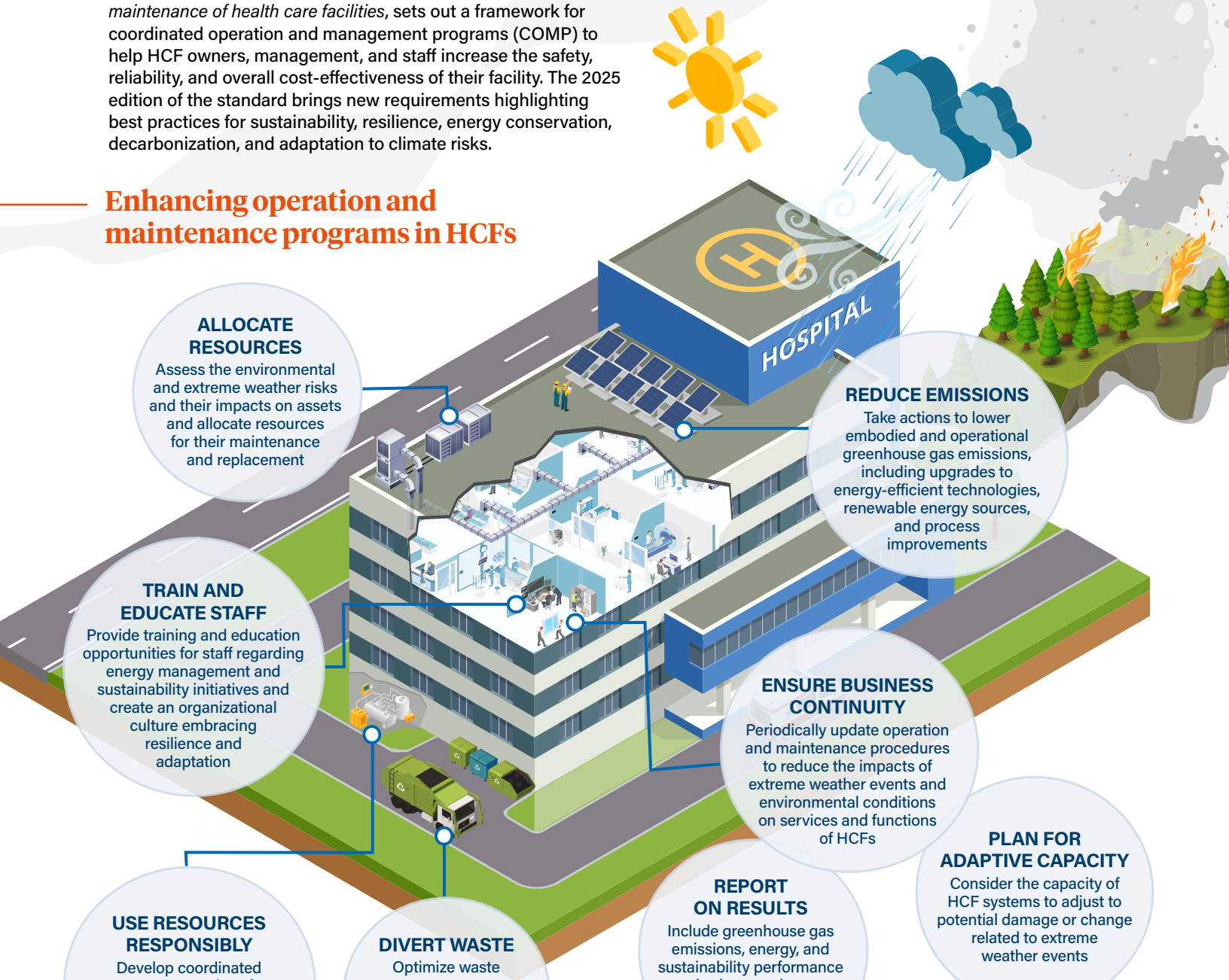
Improving resilience and sustainability of health care facilities through operation and maintenance

CSA Z8002:25, *Operation and maintenance of health care facilities*

Health care facilities (HCFs) play a critical role in protecting and improving public health in the communities they serve. By focusing on resilience and sustainability in their operation and maintenance, HCFs can better fulfill their mission while contributing to broader environmental and social goals, including reducing greenhouse gas emissions and responsible use of resources.

The National Standard of Canada, CSA Z8002, *Operation and maintenance of health care facilities*, sets out a framework for coordinated operation and management programs (COMP) to help HCF owners, management, and staff increase the safety, reliability, and overall cost-effectiveness of their facility. The 2025 edition of the standard brings new requirements highlighting best practices for sustainability, resilience, energy conservation, decarbonization, and adaptation to climate risks.

Enhancing operation and maintenance programs in HCFs



ALLOCATE RESOURCES
Assess the environmental and extreme weather risks and their impacts on assets and allocate resources for their maintenance and replacement

REDUCE EMISSIONS
Take actions to lower embodied and operational greenhouse gas emissions, including upgrades to energy-efficient technologies, renewable energy sources, and process improvements

TRAIN AND EDUCATE STAFF
Provide training and education opportunities for staff regarding energy management and sustainability initiatives and create an organizational culture embracing resilience and adaptation

ENSURE BUSINESS CONTINUITY
Periodically update operation and maintenance procedures to reduce the impacts of extreme weather events and environmental conditions on services and functions of HCFs

PLAN FOR ADAPTIVE CAPACITY
Consider the capacity of HCF systems to adjust to potential damage or change related to extreme weather events

REPORT ON RESULTS
Include greenhouse gas emissions, energy, and sustainability performance metrics in annual reports and demonstrate meeting set targets

USE RESOURCES RESPONSIBLY
Develop coordinated management plans for responsible use and conservation of energy and water and set performance targets

DIVERT WASTE
Optimize waste management to include recycling and composting where possible to reduce waste disposal

Who should use the standard?

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

Adopting the recommendations of the standard CSA Z8002:25 can help:

Improve resilience of HCFs
and the ability to withstand and recover from the effects of the changing environmental conditions and extreme weather events

Increase energy efficiency
of HCF systems and infrastructure

Lower emissions
of greenhouse gases and divert waste from disposal in landfills

Reduce operational costs
by optimizing the use of energy, water, and other resources, extending the life of HCF systems, and reducing repair and replacement costs

Demonstrate commitment to sustainability
by regularly reporting on greenhouse gas emissions, energy, and waste diversion performance metrics

Get CSA Z8002:25

csagroup.org/store
healthcareandwellbeing@csagroup.org

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

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