

Low Carbon Resilience and Environmental Sustainability Guidelines for Health-care New Construction

An Overview

Using the GreenCare website

- This overview, the *LCRES Guidelines*, and all associated appendices are ‘living’ documents and will be regularly updated
- Visit www.bcgreencare.com/resource/guidelines for the most up-to-date versions

Purpose and Goals

- To provide a set of recommendations to inform the detailed design phase of new and replacement construction for acute and long-term care facilities.
- To inform all members of a project team in the development of project components specific to the Statement of Requirements and the Low Carbon Resilience and Environmental Sustainability Scope of Work.
- To enable the highest standard of human and environmental health within health-care facilities

Summary of Low Carbon, Environmental Sustainability, and Climate Resilience

- Health-care facilities need to be resilient to the impacts of a changing climate, to be built and operated with reduced greenhouse gas emissions, and to have reduced negative impacts on long-term human and environmental health and wellness
- Health-care facilities have requirements and guidance at the provincial level (CleanBC, Climate Change Accountability Act), health sector level (Ministry of Health: Capital Health Policy Manual, Policies 11, 12, 14) and health organization level (organization goals and targets).

Low Carbon

Operational Emissions (Energy)

- Performance Targets
- Technical Design Requirements
- Commissioning
- Energy Modelling

Environmental Sustainability

- Water
- Embodied Carbon
- Materials and Waste Prevention
- Healthy Materials
- Transportation

Climate Resilience

- Key considerations and aligning with the *Climate Resilience Guidelines for B.C. Health Facility Planning & Design v1.1*

Leadership in Energy and Environmental Design

- LEED v4 BD+C: Healthcare, Gold scorecard template provided to develop LEED strategy