Lower Mainland Facilities Management

Moving Towards Climate Resilient Health Facilities

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The Paris Agreement is a Health Agreement - WHO

Source: UN 2030 Agenda for Sustainable Development, World Health Organization, 100 Resilient Cities
Sustainable Health Facilities
Environmental Sustainability Policy

- Act as a leader with respect to environmental stewardship while engaging the healthcare community in a collaborative approach towards sustainability.

- [Ensure] that financial investments will balance quality, cost and sustainability.

- [T]he longterm life cycle costs of capital will be assessed.
Our New Climate Reality
Climate change is the **greatest threat** to global health in the 21st century.

We are **recklessly late** in taking **action** and must not fail.

[T]ackling climate change could be the **greatest** global health **opportunity** of the 21st century.

The health **community** has a **vital** part to play in **accelerating progress**.
1. More warming, greater health risks.

2. Actions necessary to limit warming can result in important health gains.

3. The speed of reducing emissions affects the level of adaptation ambition required.
Providing health care in heat waves presents challenges. Acute demand soars, doubling requests for consultations and increasing admissions.

More sophisticated responses [than air-conditioning] that incorporate heat resilience into design are required.

To construct [hospitals] today that are not resilient to climate change represents a poor investment and condemns generations of users to misery.

The Lancet, August 2018
By 2050

Days Above 25°C <4x
Days Above 30°C <12x
Nights Above 20°C <20x
Resilience Co-benefits
Healthy Built Environment Principles

1. Preserve and connect environmentally sensitive areas
2. Maximize opportunities for everyone to access natural environments
3. Reduce urban air pollution by expanding natural elements across the landscape
4. Mitigate urban heat islands by expanding natural elements across the landscape

Environment Co-Benefits

- **Biodiversity and preservation of biodiversity**
- **Tree canopy**
- **Ground level ozone**
- **Increased urban greening**
- **Outdoor air quality**
- **Ambient air temperature**
- **Ground level ozone**
- **Increased urban greening**
- **Noise exposure**

Health Co-Benefits

- **Physical activity**
- **Social well-being**
- **Healthcare costs**
- **Stress**
- **All cause mortality**
- **Healthy weights**
- **Anxiety**
- **Chronic disease**
- **Psychological health**
- **Stress**
- **Healthy weights**
- **Mortality**
- **Healing**
- **Cognitive health**
- **Attention restoration**
- **Attention deficit**
- **Physiological health**
- **Mental health**
- **Stress**
- **Mood depression regulation**

Adapted from: Healthy Built Environment Toolkit v2 (PHSA, 2018)

Resource: Green Infrastructure and Health Guide, 2018
Network of Resilience
Thank you