

# **Climate Change Response & Environmental Sustainability**

**Feb 8, 2022**

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# Facility Climate Change Resilience





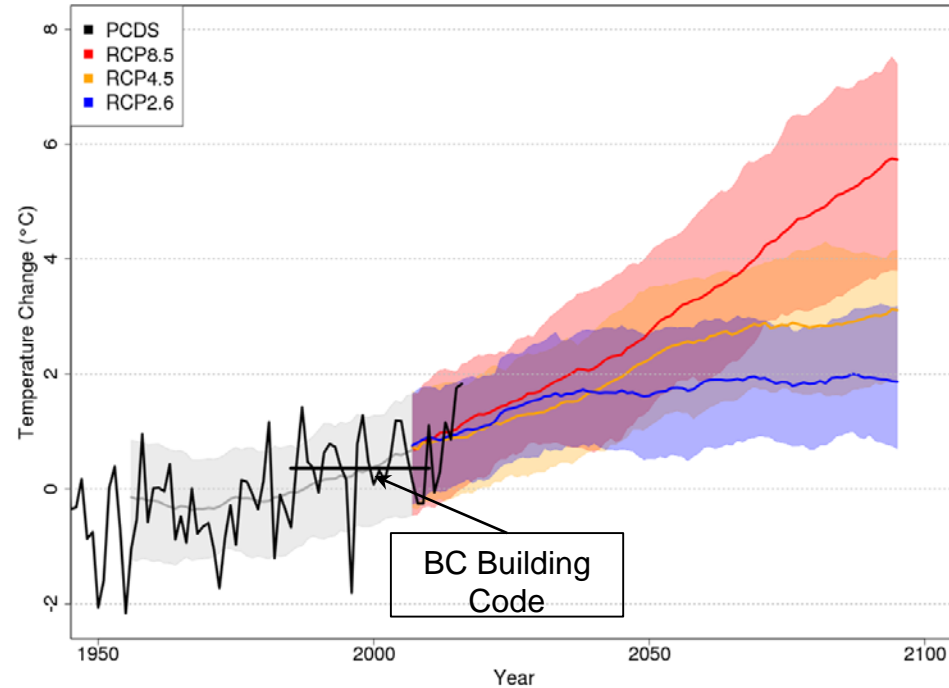
# Capital Project Climate Change Risk Screening

Climate Variable(s)	Climate Impacts	1. Has the climate impact occurred in the recent PAST at the facility or site?	2. Will this climate impact negatively affect the intended outcomes of the project at <u>completion</u> ?	3. As the climate impact intensifies will there be negative effects to the intended outcomes of the project over its <u>service life</u> ?	4. Is there an opportunity to include other enhancements to build resilience within this project or in future projects?	Next Steps
1. Warming	Overheating	No	No	No	Maybe/Unknown	Review resilience opportunities with Sustainability & Business Continuity
2. Increased / Reduced Rainfall	Reduced water quality	No	No	No	Yes	Review resilience opportunities with Sustainability & Business Continuity
3. Reduced Rainfall	Water shortage	Yes	Maybe/Unknown	Maybe/Unknown	Yes	Future climate change planning required
4. Reduced Rainfall & Warming	Poor indoor air quality due to wildfire smoke	No	No	No	No	No action required
5. Increased Rainfall	Flooding	No	No	No	Yes	Review resilience opportunities with Sustainability & Business Continuity
6. Increased Severity, Incidence and Duration of Storms	Loss of power, utility services, transportation	No	Maybe/Unknown	Maybe/Unknown	Maybe/Unknown	Future climate change planning required

# Capital Project Climate Change Design Requirements

- Applies to construction, renovations and retrofits to existing facilities where climatic data is required
- Requirements:
  - Use data that reflects future climate over service life
  - Identify measures to enhance resiliency

Projected Future Temperature Change in BC



# Resiliency in New Construction Projects

## Climate Resilience Guidelines

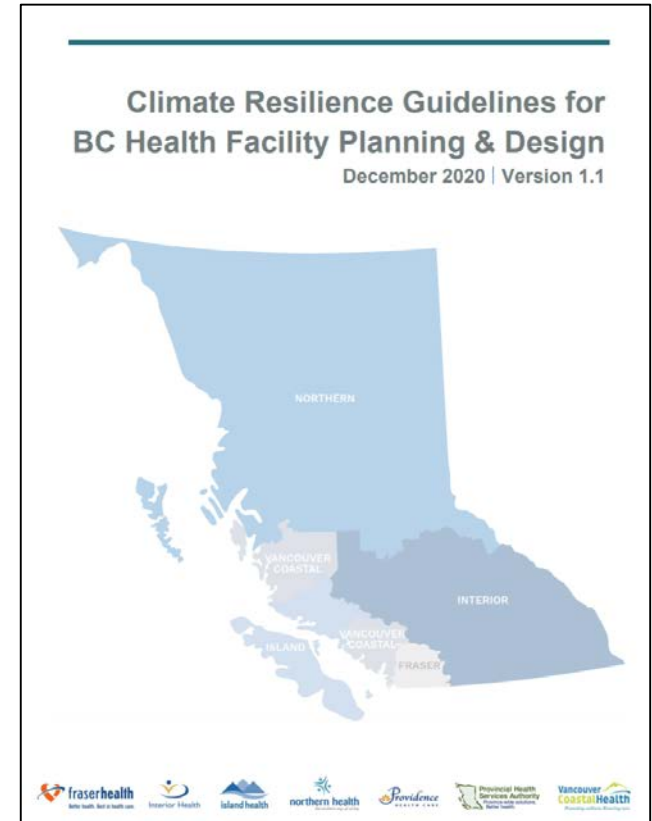
- Guidelines adopted for new construction projects:

**Step 1:** Exposure Screen

**Step 2:** Climate Risk Assessment

**Step 3:** Resilient Design Review

**Step 4:** Compliance Audit



# Vitacore PPE Mask Recycling Pilot

- **Accepted Materials:** surgical masks, procedure masks, procedure masks with visor, and disposable respirators
- **Duration:** 12 weeks
- **Location:** Royal Jubilee Hospital
- **Bins:** 10
- **Data Collection:** feedback, recovery rate, total weight diverted, end product quality/volume
- Supported by Ministry of Health

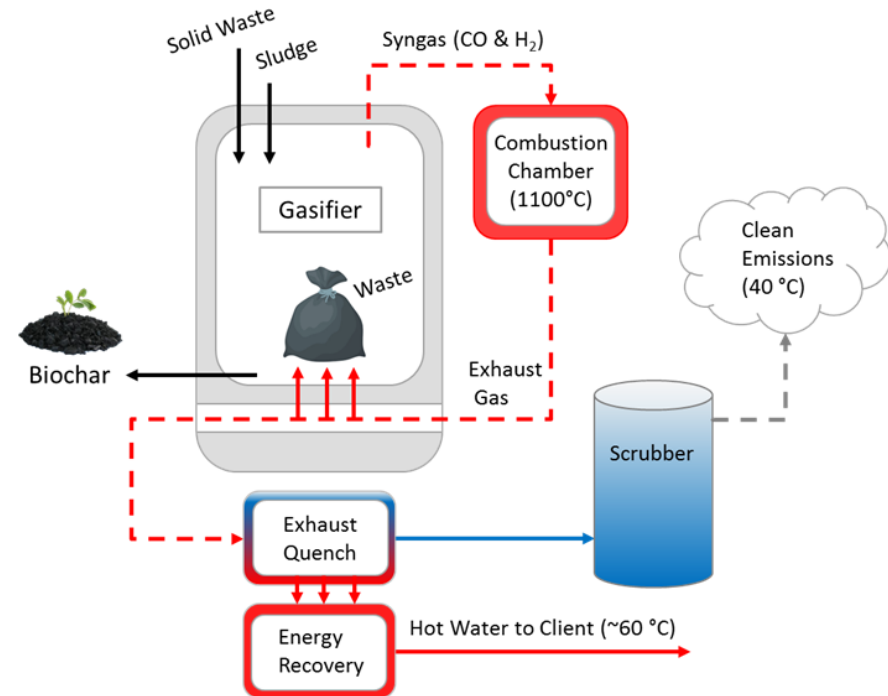




# Waste to Energy Pilot

## Micro Auto Gasification System (MAGS)

- Technology to convert biomedical waste into energy
- Bio-hazardous waste targeted for pilot
- Victoria General Hospital selected as best site
- Applied to MoE for Permit



# Supporting Waste Reduction

## Sustainable Procurement Briefing Note

- Joint health authority briefing note submitted to PHSA Supply Chain
- PHSA Supply Chain developing ethical and environmental procurement policy

## PHSA Product Investigation Portal

- Staff can submit environmental concerns on the products they use directly to PHSA Supply Chain
- Read more: [Submitting environmental concerns](#)

### PHSA - Product Investigation Centre (Portal)

#### Concern Data

No. of Defective Product(s) \*\*

Reprocessed Item \*\*

 No  Yes

Is Sample Available

 No  Yes

Concern Type \*

-- Select Type of Concern --

Concern Type Comment \*\*

Required if Type of concern entered as 'other'

-- Select Type of Concern --  
Allergy/Sensitivity to Product  
Difficult to use  
Environmental concern – Excess Packaging  
Environmental concern – Not Recyclable  
**Environmental concern – other**  
Foreign Body Contamination  
Labelling  
Packaging Issue  
Parts Missing/Incorrect  
Product Failure  
Service-related Issue  
Shipping/Delivery Issue  
Short Expiry Date  
Staff Safety Issue  
Sterility

## Supporting Waste Reduction Initiatives

### **Eliminating plastic waste from perineal bottles**

- Identified through PHSA Product Investigation Portal
- Product change to eliminate plastic bag
- Over ~10,000 plastic bags avoided annually

### **Refilling plastic water cups in NRGH DRU**

- Staff champion trained colleagues to refill plastic water cups (pre-COVID19)
- Estimated to avoid over 6,000 plastic cups/year in unit

### **Bring your own bag campaign**

- Reducing plastic personal belonging bags
- Targeting outpatient procedures
- Communications campaign stopped due to COVID19

# Fleet Electrification

## Current Fleet Electrification

- 9 electric vehicles
- 4 plug-in hybrid electric vehicles

## Fleet Assessment

- Conducting telematics assessment on 25 fleet vehicles

