



Objective

Progress update on Climate Change Adaptation Strategy (Dec. 2018)

Outline

- **Background**
- Progress Highlights
- ≫ Next Steps



Carbon Action

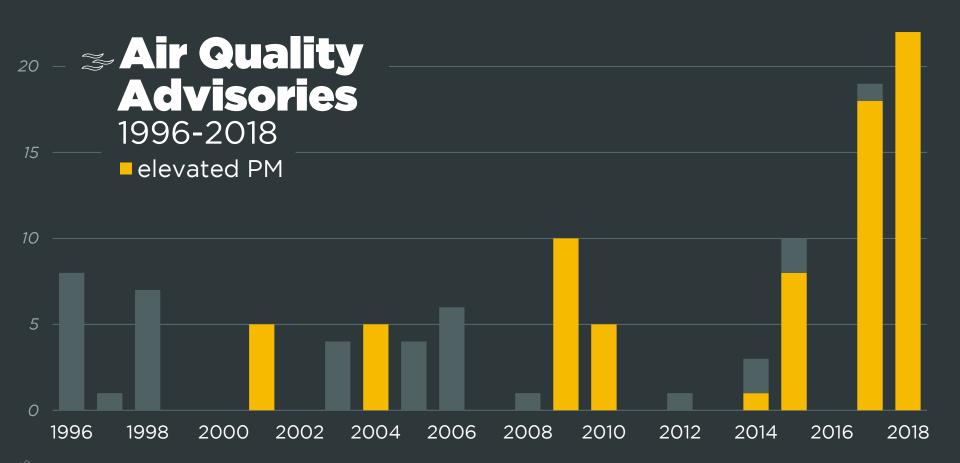
MITIGATION

Avoid the unmanageable

ADAPTATION

Manage the unavoidable







Adaptation Cost vs Benefits

saves

\$1 spent in preparation



The Economist

Federation of Canadian Municipalities



Burrard Unlet

Grandview-Woodland

Hastings-Sur

Brokers Bay

Climate change disproportionally impacts individuals, groups and neighbourhoods

Still Creel

Fairview

Vancouver

source: Community Health and Climate Change, Vancouver Coastal Health



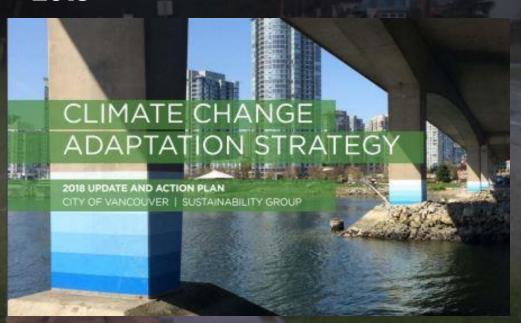
Climate Adaptation in Vancouver

2012









Vancouver's Priority Climate-Related Hazards



Poor air quality

More heatwaves Increasing coastal and urban flooding

Increasing extreme events



BC Climate Risk Assessment 2019

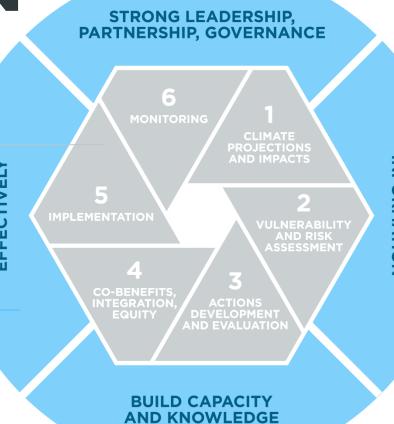
RISK EVENT		PRESENT-DAY LIKELIHOOD	2050 LIKELIHOOD	CONSEQUENCE	RISK SCORE AND RATING	
	Severe wildfire season	3	4	4.5	18.0	High
(£)	Seasonal water shortage	4	5	3.4	16.9	High
	Heat wave	3	4	3.6	14.5	High
(a)	Ocean acidification	2	5	2.8	13.8	High
	Glacier mass loss	1	5	2.5	12.5	High
	Long-term water shortage	3	3	4.0	12.0	High

Summary of Risk Assessment Rankings



CORE ACTIONS

ENABLING ACTIONS





Progress Update

- 84 Core Actions
- 17 Enabling Actions
- All on track: planning stage, underway or completed

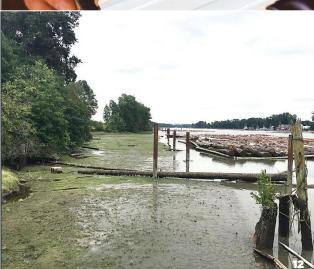
Progress Highlights











CLIMATE ROBUST INFRASTRUCTURE

Sewer & Rainwater Management Plan underway

Southlands Drainage
Study

pump station upgrades underway

Groundwater
Management
Strategy
scoping/initiation

working toward
15% reduction
per-capita potable
water use by 2030

Rain City Strategy Completed





CLIMATE RESILIENT BUILDINGS

heat pump permitting streamlining

future climate loads
incorporated into VBBL

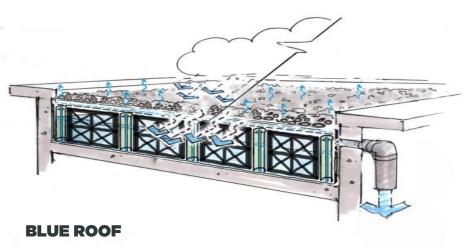
thermal comfort

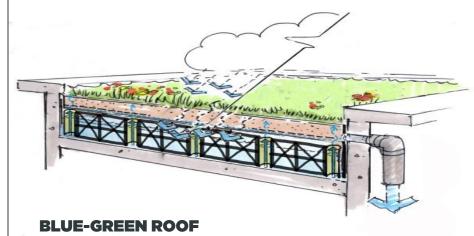
researching enhanced standards for 2021 Green Building Policy for Rezoning and future code

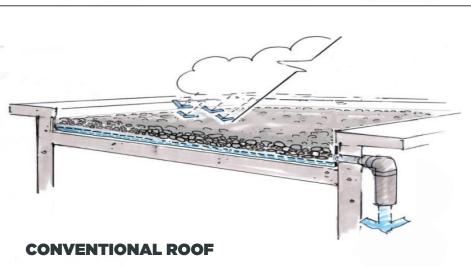
green infrastructure in private buildings

resilience checklist large-site rezoning











> HEALTHY, VIGOROUS NATURAL AREAS AND GREEN SPACE

150,000 trees planted since 2011

Retain healthy mature trees

Biodiversity
Strategy
implementation

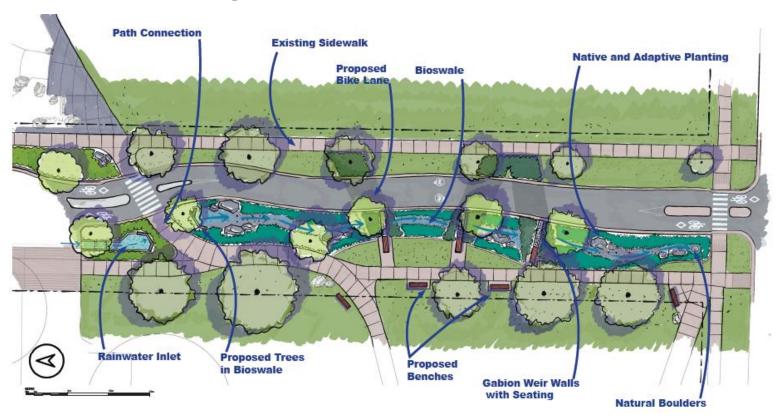
Stanley Park fire preparedness and fire fuel management

DTESstreet tree
planting coordination

forest
naturalization
expansion



FOCUS PROJECT: PARKS



Sunset Park Prince Edward Street Bioswale

PREPARED, CONNECTED COMMUNITIES

universal personal preparedness

clean air spaces

life-sized board game pilot project

Evergreenengagement project

Climate Leaders
pilot project

CoolingNon-market housing





COASTAL PREPAREDNESS

Shoreline Flood Protection Guidelines

two Engineering Performance Criteria Guidelines underway

Waterfront Road critical infrastructure collaboration

new St. Paul's
Hospital
adoption of Resilience
Rezoning Condition

Sea2City Coastal Design Challenge Phase 1 Engagement launch





☞ FOCUS PROJECT: SEA2CITY DESIGN CHALLENGE

urban development and ecological revitalization in False Creek and Fraser River foreshore

to inform next phase of Coastal Adaptation Plan

community values and design principles in False Creek and Fraser River foreshore



≫ NEXT STEPS

continue strategy implementation

adaptation & multi-hazard resilience into Vancouver Plan

next refresh
2023
(post-IPCC AR6)

