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Welcome

View of the Second Narrows Bridge



Agenda

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AGENDA

1. Welcome

2. Agenda – February 23, 2024

3. Meeting Notes – November 16, 2023

4. Action/Standing Items

5. Other Business

6. Metro Vancouver Updates

Integrated Solid Waste and Resource Management Plan Biennial Report

Concrete and Asphalt Recycling Opportunities Scope Review

Residuals Management Options Scope Review

7. Information Items

Meeting Notes

View of Metro Vancouver



Action Items

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ACTION/STANDING ITEMS

- 4.1 Action Tracker
- 4.2 Incoming/outgoing communication

Draft 2024 Work Plan and Working Group Discussion

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5.1 DRAFT 2024 WORK PLAN

Potential work plan items

Solid Waste Management Plan Update - Vision and Guiding Principles Report Back

Solid Waste Management Plan Update: Issues/Opportunities Report Review

Solid Waste Management Plan Update – Phase 2: Idea Generation

Integrated Solid Waste and Resource Management Plan Biennial Report

Disposal Ban Exemption Program Pilot

Waste-to-Energy Facility Tour

Technical Studies Updates:

- Residuals Management Options Scope Review
- Performance Metrics Review
- Concrete and Asphalt Recycling Opportunities Scope Review

PTAC WORKING GROUPS

Confirmation of working group formation

- Are working groups a good approach, or is there an alternative the committee would like to propose?
- Considerations:
 - Opportunity to delve deeper into core topics
 - Greater time commitment
 - Segmented participation: not all members can be part of all conversations
- Membership: Would working groups be open to members from outside the committee? If so, by invitation or by expression of interest?
 - If yes, how would the committee recruit external members?

Discussion on PTAC Working Group Topics

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PROPOSED WORKING GROUP TOPICS

- Construction and Demolition Waste Management (capacity, markets, regulatory framework)
- Organics Management (improving participation, contamination, processing capacity)
- Waste Prevention (repair, reuse, reduce, food recovery, education and behavior change)
- Plastics (regulatory framework, commodity markets)

MENTI METER FOR WORKING GROUP INTEREST

- Go to Menti.com
- Code: 21 88 95 7
- Select which working group(s) you would sign up for

Working Group Draft Terms of Reference

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5.3 PTAC WORKING GROUP

Overview

- Purpose: space for deeper discussion towards potential solutions related to solid waste topic areas
- Each group has a Chair and a key topic
 - Working groups will define and refine specific key issues
 - Working group participation is optional and self-selecting
- Meetings between spring and fall 2024
- Staff will provide support (scheduling meetings, posting agendas, providing technical expertise)
- PTAC Terms of Reference, such as code of conduct, budget and resources, and support mechanisms, apply to working groups

Metro Vancouver Updates

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6.1

Burnaby Eco-Centre

2022 Biennial Report

INTEGRATED SOLID WASTE AND RESOURCE MANAGEMENT PLAN PROGRESS

Terry Fulton, P.Eng

Senior Project Engineer, Solid Waste Services

Solid Waste Management Plan Public and Technical Advisory Committee, February 23 2024

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PURPOSE OF PRESENTATION

- Provide most up-to-date information to support working groups
- Receive feedback on latest solid waste and recycling statistics
- Outline biennial report process

2022 BIENNIAL REPORT OVERVIEW

- Summarizes 2021 and 2022 highlights
- Reports on status of each action within the solid waste management plan
- Provides updated solid waste and recycling statistics



2022 HIGHLIGHTS

- Solid waste management plan update
- Waste prevention, reduction and reuse initiatives
- New recycling and waste centres
- District energy project



Central Surrey Recycling and Waste Centre

GUIDING POLICY & TARGETS

2011 Solid Waste Management Plan



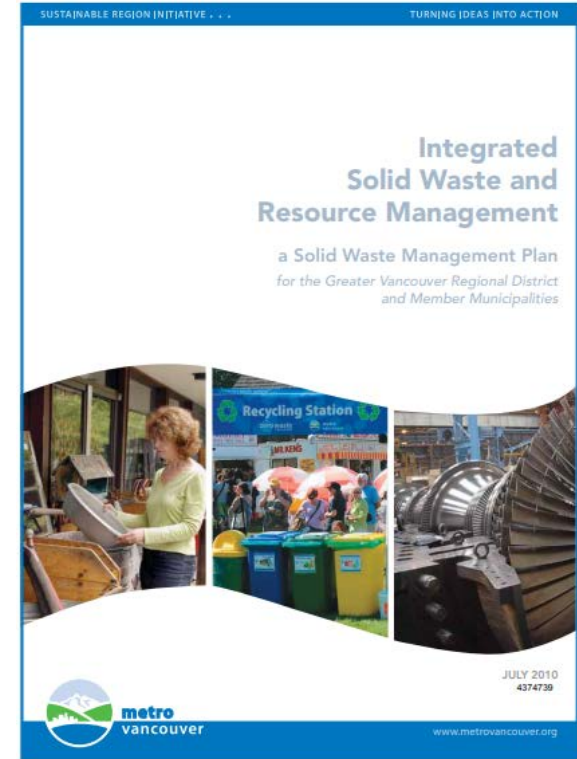
Goal: 10% Reduction Waste Generation (Achieved 11%)

Generation = Recycled + Disposed

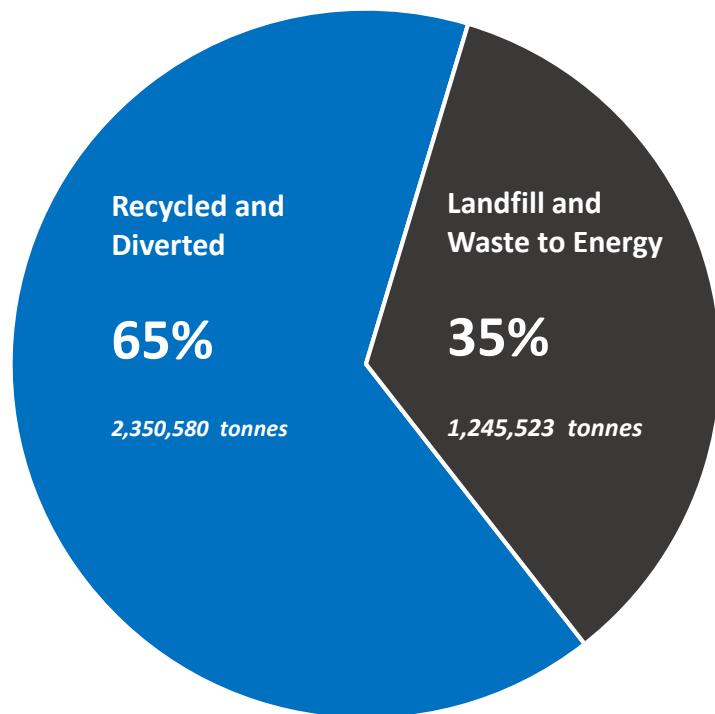


Goal: 80% Recycling Rate (Achieved 65%)

Recycling Rate = Recycled / Generated



RECYCLING RATE



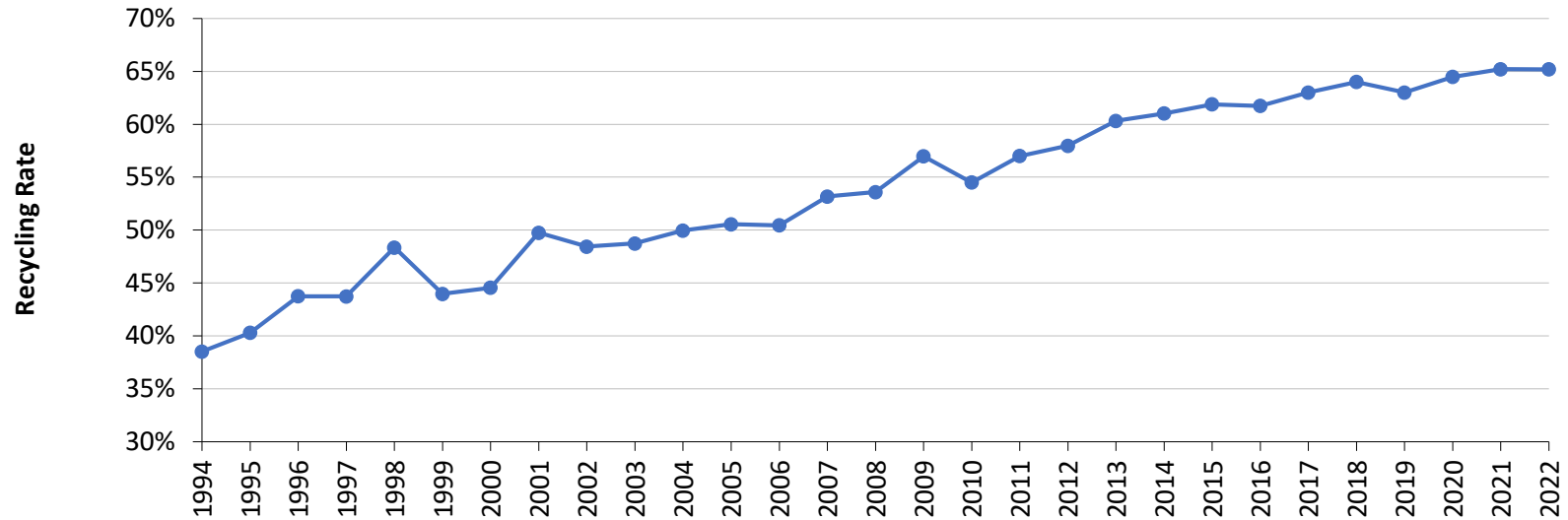
2022 Recycling Rate Highlights

- Recycling Rate was the same as 2021
- Commercial waste generation continued to increase while residential waste generation decreased
 - This trend first started in 2021
- Generation decreased overall

Year	Recycling Rate
2020	64%
2021	65%
2022	65%

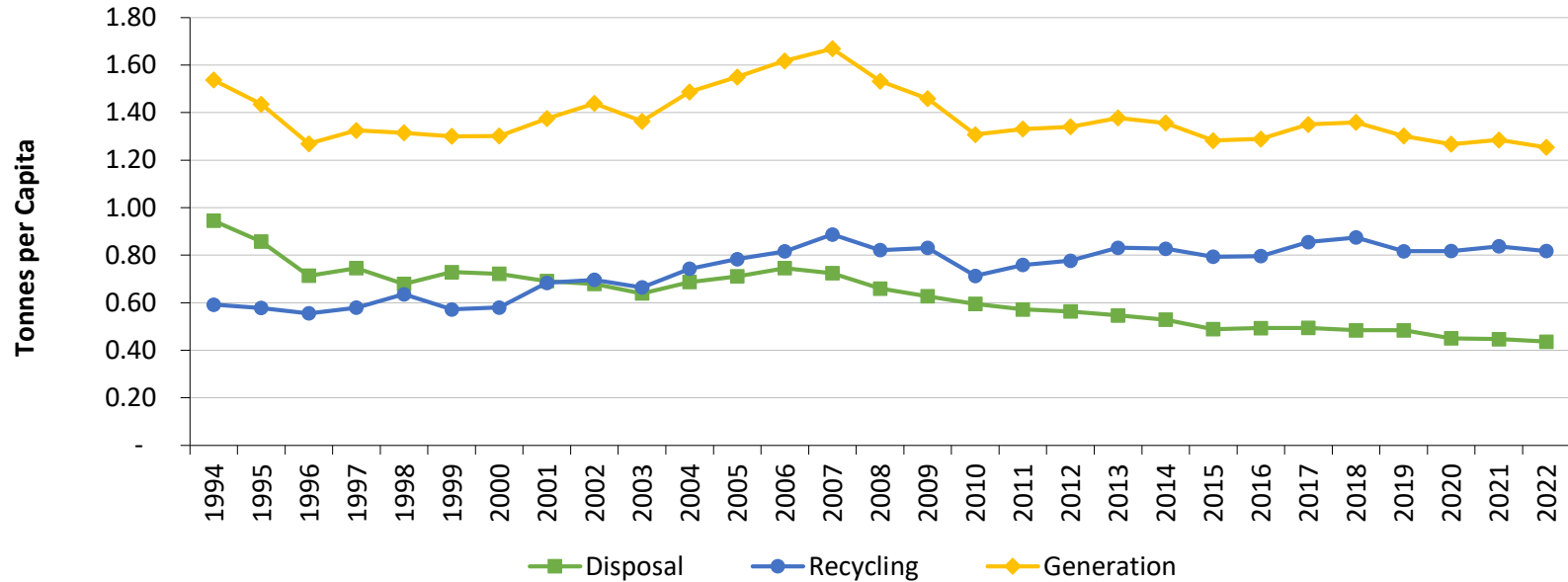
RECYCLING RATE OVER TIME

From all sectors



GENERATION & RECYCLING OVER TIME

From all sectors

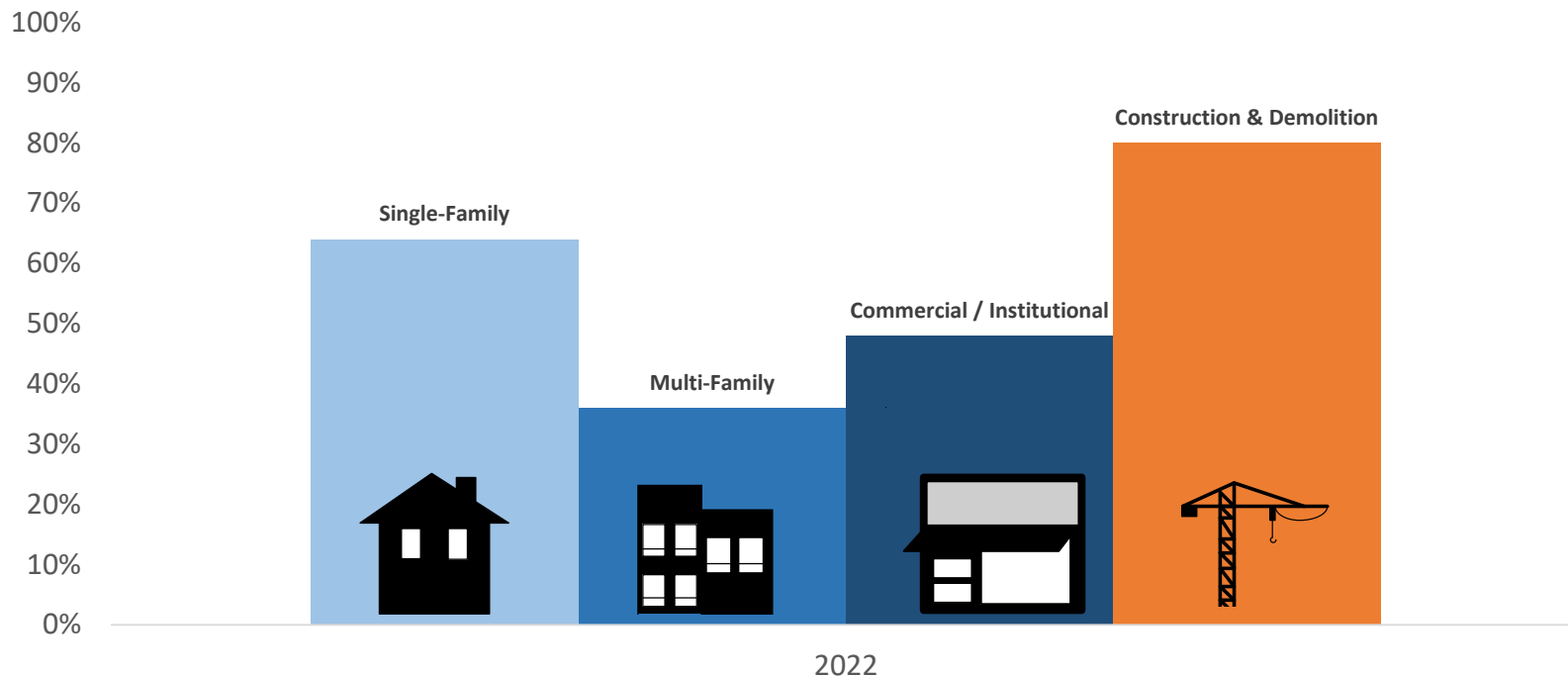


2022 SUMMARY

WASTE SECTOR		DISPOSED (tonnes)		RECYCLED (tonnes)		RECYCLING RATE (%) ⁽³⁾		
		2021	2022	2021	2022	2021	2022	% change
Residential	tonnes	510,337	505,592	601,509	579,754	54%	53%	-0.7%
	tonnes/capita	0.182	0.177	0.21	0.20			
	Single Family tonnes	266,999	248,750	455,723	434,495	63%	64%	0.5%
	Multi-Family tonnes	243,337	256,842	145,786	145,259	37%	36%	-1.3%
Commercial/Institutional	tonnes	372,861	400,976	316,406	375,466	46%	48%	2%
	tonnes/capita	0.13	0.14	0.11	0.13			
Construction & Demolition	Tonnes	371,972	338,955	1,433,933	1,395,360	79%	80%	1%
Total	Tonnes	1,255,169	1,245,523	2,351,848	2,350,580	65%	65%	0%
	tonnes/capita	0.45	0.44	0.84	0.82			
	tonnes/ household	1.15	1.11	2.15	2.09			

REGIONAL RECYCLING RATES BY SECTOR

Shown in percentages



RECYCLING

Materials Type Recycled (tonnes)	2021	2022
Asphalt*	295,300	295,300
Batteries	13,858	13,838
Concrete*	866,363	866,363
Electronic & Electrical Equipment	11,213	10,812
Paper/Paper Products	328,065	340,386
Glass	49,786	55,582
Gypsum	63,533	58,512
Household Hazardous Waste	21,292	24,339
Metal	73,369	58,515
Plastic	43,849	54,037
Textiles	691	372
Tires	21,328	19,237
Wood	161,309	161,242
Yard & Food	401,890	392,044
Total	2,351,848	2,350,580

*Used previous year's data

2022 Recycling Highlights

- Recovery in glass recycling following facility closures in 2021 due to flooding
- Increase paper and plastics recycling
- Used asphalt and concrete numbers from 2021 due to large unverified increases from unlicensed facilities

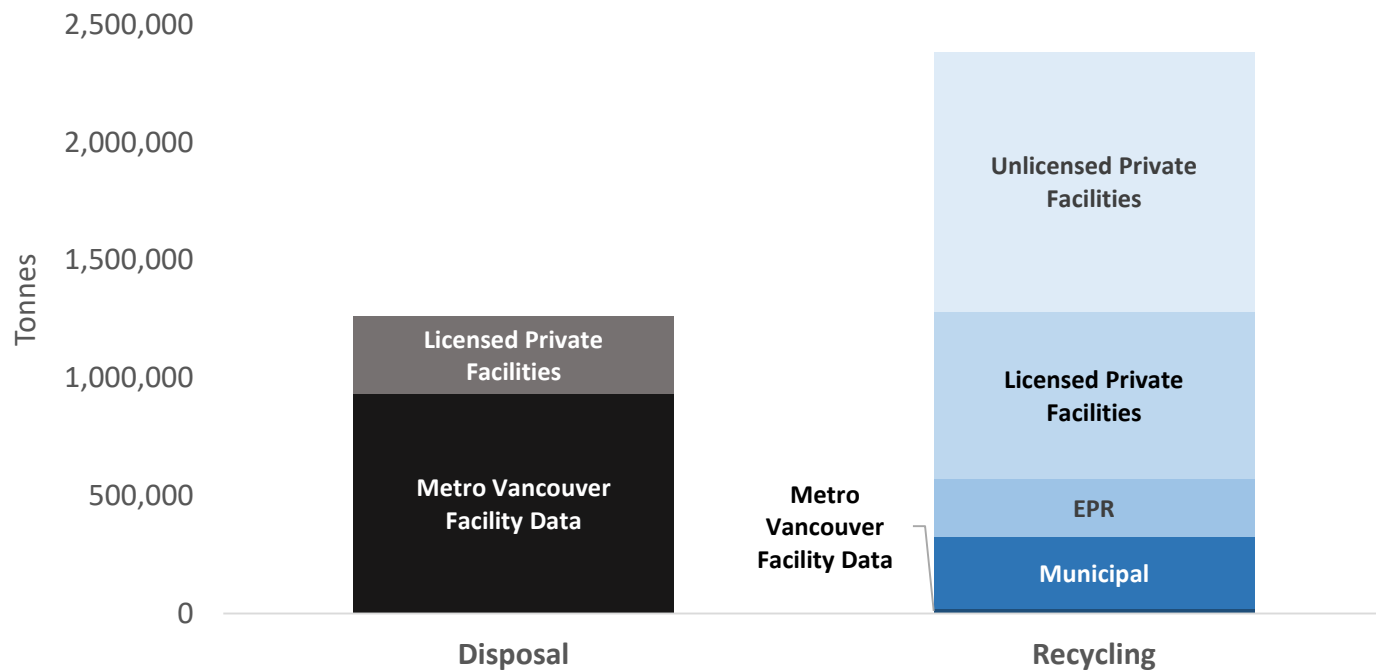
REUSE ESTIMATE

Material Category	2021 Annual Reuse (tonnes)	2022 Annual Reuse (tonnes)
Textiles and Accessories	17,400	17,400
EPR Programs	17,300	18,000
Food	7,300	7,000
Hotels and Hospitality Sector	400	400
Office Furniture	1,400	1,400
IT Equipment	1,600	1,600
Construction/ Demolition Materials	4,800	4,900
On-Line for Selected Materials	27,400	27,800
Total	77,600	78,500

2022 Reuse Highlights

- Slight increase in online reuse, however limited ability to track
- Overall similar to 2021
- Looking at ways to improve measurement with performance metrics review

INFORMATION SOURCES



HOW WE REPORT

- Basis for what to include from BC *Environmental Management Act*
- Recycling rate used rather than diversion rate
- Metro Vancouver has some of the most comprehensive and transparent data in North America based on 2023 recycling rate review

MUNICIPAL SOLID WASTE

"municipal solid waste" means

(a) refuse that originates from residential, commercial, institutional, demolition, land clearing or construction sources, or

(b) refuse specified by a director to be included in a waste management plan;

RECYCLABLE MATERIAL

"recyclable material" means a product or substance that has been diverted from disposal, and satisfies at least one of the following criteria:

- (a) is organic material from residential, commercial or institutional sources and is capable of being composted, or is being composted, at a site;
- (b) is managed as a marketable commodity with an established market by the owner or operator of a site;
- (c) is being used in the manufacture of a new product that has an established market or is being processed as an intermediate stage of an existing manufacturing process;
- (d) has been identified as a recyclable material in a waste management plan;
- (e) is any other material prescribed by the Lieutenant Governor in Council, or the minister under section 22 [*minister's regulations — codes of practice*];

ANNUAL REPORT UPDATES

Based on IAC feedback, the following information was added:

- Detailed methodology
- Assumptions
- Data sources
- Construction and demolition recycling rate with and without concrete and asphalt

WHAT IS INCLUDED

Facility or Material Type	How it's incorporated
Waste-to-Energy Facility	Counted as disposal except for metals recovered for recycling
EPR Materials	Residuals counted as disposed where reported by stewards
Composting Facilities	Inbound organics minus residuals disposed counted as recycling for facilities within Metro Vancouver
Material Recovery Facilities	Residuals counted as disposed, outbound materials sent for processing counted as recycling, including biomass fuel
Processing Facilities	Accounted for as outputs from above, residuals counted as disposed for facilities within Metro Vancouver

WHAT IS NOT INCLUDED

- Agricultural Waste
- Industrial Waste
- Forestry Waste
- Water and Wastewater Treatment Plant Residuals
- Material Managed On-Site (e.g. Backyard composting)
- Excavation Soils
- Landfill Cover Material
- Scrap Metal from yards or automotive recycling

NEXT STEPS

- Presentations to:
 - Solid Waste and Recycling Industry Advisory Committee
 - Regional Engineers Advisory Committee – Solid Waste Subcommittee
- Publishing of biennial report and presentation to Zero Waste Committee
- Feedback period



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Questions?

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Technical Studies Updates

View of Metro Vancouver





Overlooking Second Narrows Bridge

Zero Waste Committee Updates

Paul Henderson

General Manager, Solid Waste Services

PTAC February 23, 2024 Meeting

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6.3 ZERO WASTE COMMITTEE UPDATES

February Zero Waste Committee

- Multi-Family Waste Reduction added to the 2024 work plan
- Smart Waste Program / Tipping Fee Bylaw Updates
- Textiles Waste Reduction Campaign Update:
 - Think Thrice About Your Clothes campaign from Feb 26 to Apr 28
- Zero Waste Conference Report:
 - 550 participants, 76 were students
 - Positive feedback on the day-two workshop format
 - Metro Vancouver moving to a bi-annual delivery with next conference in 2025

Information Items





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Thank you

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