

Metro Vancouver Disposal Ban Program SUBTITLE HERE

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metrovancouver

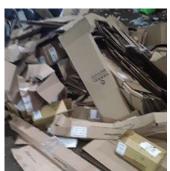
Solid Waste and Recycling Industry Advisory Committee September 7, 2022 Meeting https://orbit.gvrd.bc.ca/orbit/llisapi.dll/properties/54733504

PRESENTATION OVERVIEW

- Solid Waste System Overview
- Banned Materials Categories
- Inspection and Surcharge Process
- eSurcharge Application
- Surcharge Enquiries and Dispute Process
- Program Statistics







REGIONAL SOLID WASTE FACILITIES

- Six Recycling and Waste Centres
- Waste-to-Energy Facility
- Vancouver Landfill



BANNED HAZARDOUS AND OPERATIONAL IMPACT MATERIALS

(\$66 Surcharge On Any Single Item)

Agricultural Waste	Inert Fill Materials
Automobile Parts	Liquids or Sludge
 Barrels or Drums (205 L or greater) 	 Loads that contravene OH&S Regulation
Creosote Treated Wood	Mattresses
Dead Animals	Oversize Objects
 Dusty, Odourous, and Flammable Materials 	 Personal Hygiene Products over 10% of the load
 Excrement 	Propane Tanks
• Gypsum	Toxic Plants
Hazardous Waste	Wire, Hosing, Rope or Cable longer than 1m

BANNED RECYCLABLE MATERIALS

(50% Surcharge On Items Above The Threshold)

5% threshold on any combination of the following:

- beverage containers
- other recyclable plastic, glass, metal, and composite material containers
- corrugated cardboard
- recyclable paper
- green waste
- clean wood

20% threshold on expanded polystyrene packaging (100% surcharge above the threshold)

25% threshold on food waste

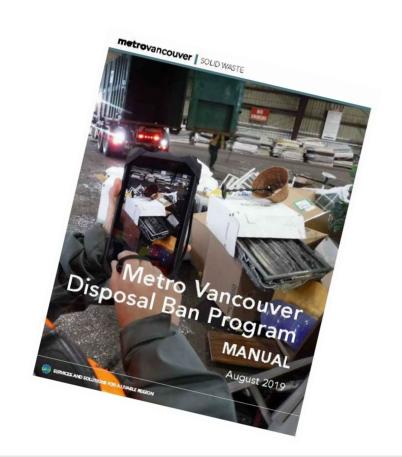
BANNED PRODUCT STEWARDSHIP MATERIALS

(\$66 Surcharge On Any Single Item)

 Antifreeze and Containers 	 Paint and Containers
 Electronics and Electrical Products 	Pesticides
Gasoline	 Pharmaceutical Products and Medications
 Lead-Acid Batteries 	Solvents and Flammable Liquids
 Lubricating Oil and Containers 	• Tires
 Oil, Oil Filters, and Containers 	

INSPECTION PROCESS

- Disposal Ban Program Manual
- Tipping Fee Bylaw and Disposal Ban Terminology
- Educational Notice (6 months grace period for new banned items)
- Recycling Options and Availability
- Inspector Safety
- Inspection Methodology and Consistency



ESURCHARGE APPLICATION

- Fully implemented at Metro Vancouver facilities
- Surcharge notice emailed to Account customers with photographs
- Surcharge information is stored in weigh scale database and appears on the weigh scale ticket
- Less equipment to carry around





Surcharge Number	SC-WTEF-100000		
Site	Waste-to-Energy Facility		
Date and Time	2022-01-11 11:11 AM		
Inspector	AA		
Autoscale Ticket	Refer to Weigh Scale Ticket		
Hauler	Account Customer Name		
License Plate	AC1234		
Truck Code	AC1234		
Banned Material	Electronics & Electrical Product(s)		
Charge Type	\$66 Banned Surcharge		
Bylaw	306		
Section	5.12		
Schedule	E2		
Additional Banned Material(s)	Paint & Container(s)		
Comments	Middle of load		
Options Discussed with Driver	Yes		
Ticket Comments	Electronics & Electrical Product(s); SC-WTEF-100000; Middle of load		

SURCHARGE ENQUIRY AND DISPUTE PROCESS

Surcharge Dispute Process:

- 1) Customer may dispute the surcharge by submitting a surcharge dispute form available online.
- Metro Vancouver Solid Waste
 Operations reviews the dispute form
 and any relevant information provided
 by the customer and the inspectors.
- 3) Metro Vancouver makes the decision to uphold or rescind the surcharge after the review process.



COMMUNICATION STRATEGY

- Surcharge notices emailed to account customers
- Monthly data summary to top 10 haulers
- Zero Waste Committee annual report
- Statistics published annually on Metro Vancouver website

INSPECTION STATISTICS

Inspection Statistics for Metro Vancouver and City of Vancouver Solid Waste Facilities						
Year	Garbage Loads	Loads Inspected	Inspection Rate	Re-Loads ⁽¹⁾	Surcharge Notices	Surcharge Rate ⁽²⁾
2020	782,333	221,875	28%	20,398	6,642	3.0%
2021	822,060	194,329	24%	13,677	3,104	1.6%

⁽¹⁾ Loads with banned materials but not disposed (no surcharge notice issued).

⁽²⁾ Surcharge rate equals the number of surcharge notices divided by the number of inspected loads.

DISPOSAL BAN PROGRAM PERFORMANCE

2021 Data



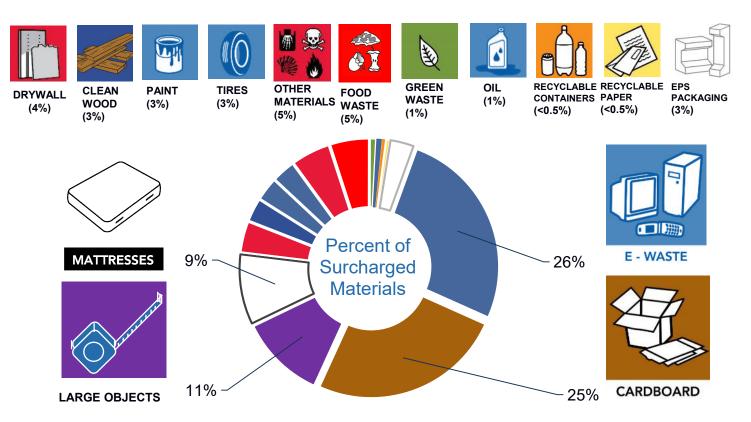




Customer Type	Loads Inspected	Surcharge Notices Issued	Surcharge Rate
Non-account	145,126	257	0.2%
Municipal	6,848	151	2%
Commercial	42,355	2,696	6%
Total	194,329	3,104	1.6%

Total Garbage Loads Received = 822,060 Overall Inspection rate = 24%

2021 SURCHARGED MATERIALS



ADDITIONAL INFORMATION

- Tipping Fee Bylaw:
 - http://www.metrovancouver.org/boards/Bylaws1/GVSDD Bylaw 30
 6 Consolidation.pdf
- Disposal Ban Program Manual:
 - http://www.metrovancouver.org/services/solid-
 waste/SolidWastePublications/DisposalBanProgramManual.pdf
- Weigh Scale System Dispute Form
 - http://www.metrovancouver.org/services/solidwaste/SolidWastePublications/WeighScaleSystemDisputeForm.pdf

SUGGESTED DISCUSSION QUESTIONS *

- What improvements could be made to the disposal ban program?
- What other programs/initiatives could be used in addition to or instead of the disposal ban program?
- What additional or alternative metrics should be considered for gauging the effectiveness of the disposal ban program?
- How could the current reporting and communications systems be improved?

* These are only suggested discussion questions, members are encouraged to discuss any areas of interest on the topic



Thank You



Waste Reduction and Recycling Data

Terry Fulton, P.Eng.

Senior Project Engineer, Solid Waste Services

Solid Waste and Recycling Industry Advisory Committee Meeting – September 7, 2022

OUTLINE

- What data do we collect and why?
- How do we collect it?
- What does it tell us?
- Where can I find it?



WHAT DO WE COLLECT?

- Types and quantities of waste generated
 - Generation = Disposal + Recycling
 - Composition of material disposed
 - Tonnage of commodities recycled
- Source of material
 - Residential, Commercial, Small Loads

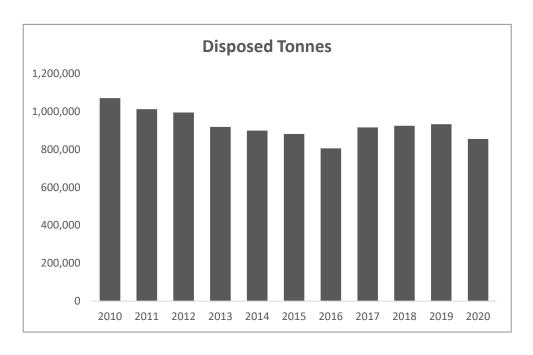
WHY DO WE COLLECT IT?

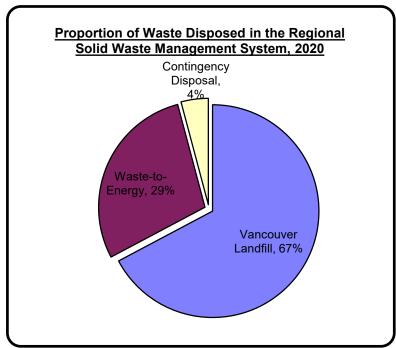
- Track progress of various initiatives
 - Solid waste management plan goals
 - Comparison to other jurisdictions and best practices
 - Overall program effectiveness
- Identify targets for future programs and policies
 - Sectors
 - Materials



DISPOSAL QUANTITIES

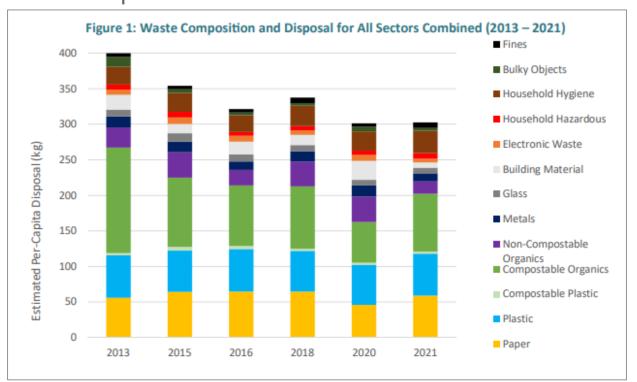
Source: Scale Data





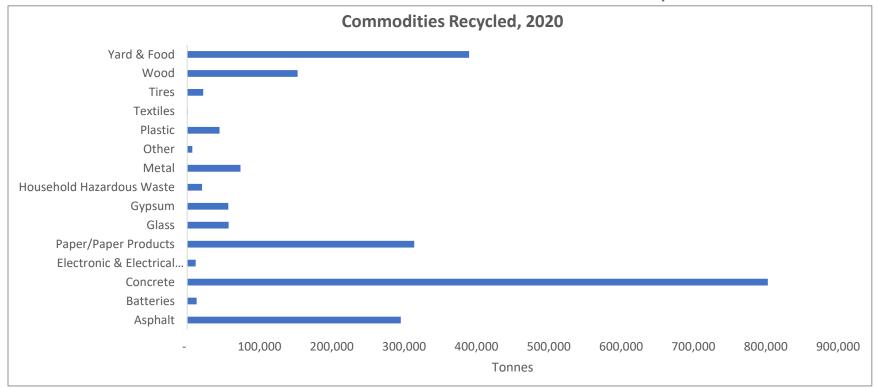
TYPES OF MATERIAL DISPOSED

Source: Waste Composition Studies



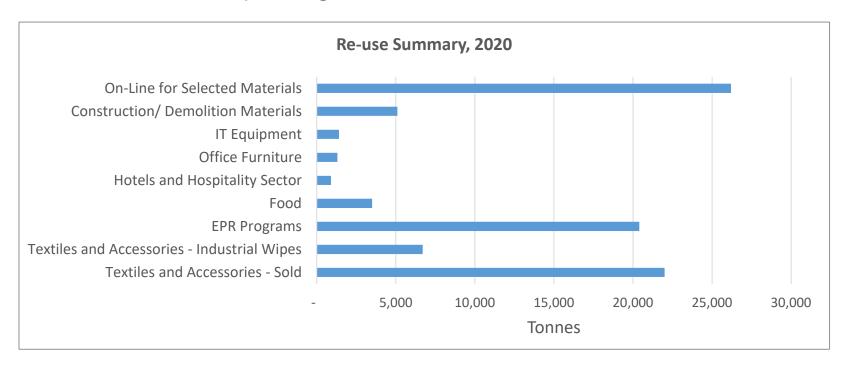
TYPES OF MATERIAL RECYCLED

Sources: Licensed and Unlicensed Private Facilities, EPR Reports



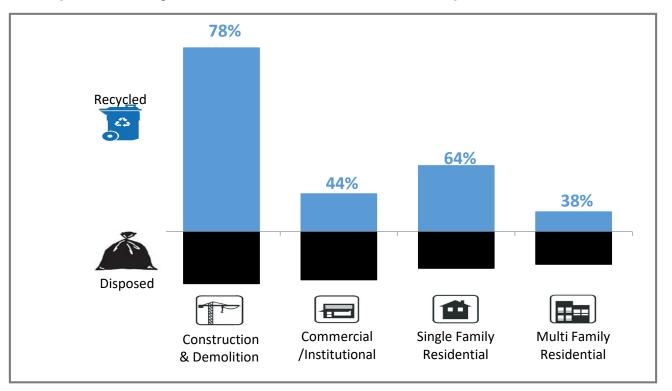
RE-USE

Source: Re-use and Repair Organizations, Scale Data, Calculations



SECTOR-SPECIFIC DATA

Source: Municipal Surveys, Scale Data, Waste Composition Studies, Private Facilities



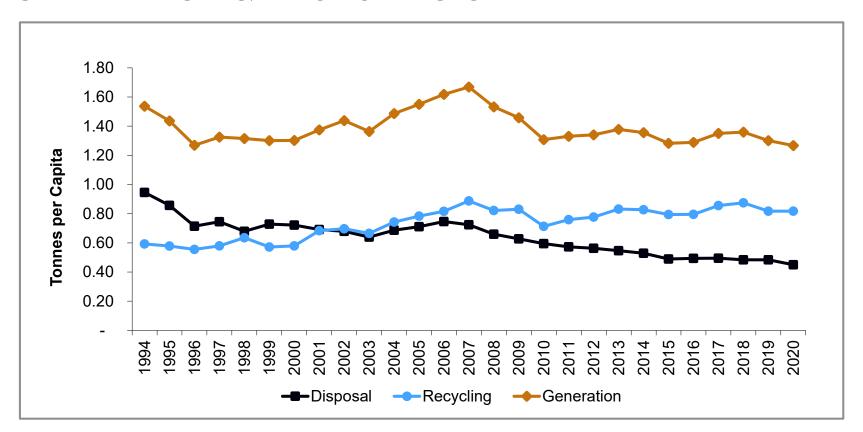
OTHER DATA

Sources: Scale Data, Disposal Ban Inspectors, Municipalities, Customers, Residents Etc.

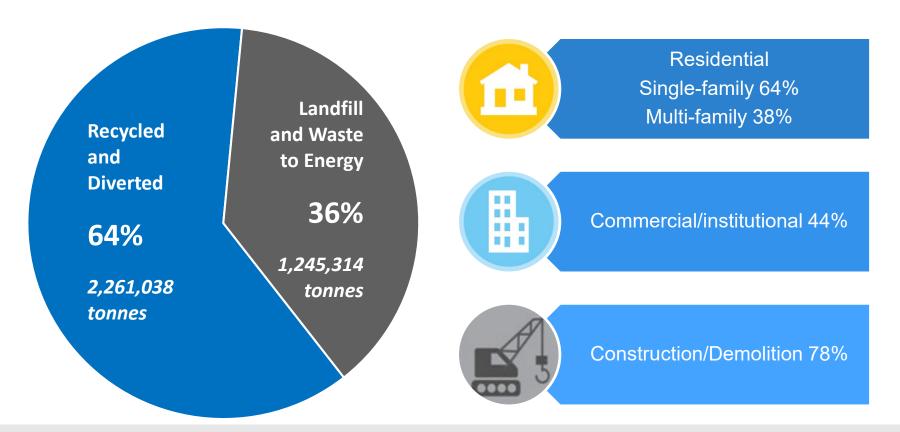
- Banned Material Surcharges
- Illegal Dumping
- Customer Service
- Campaign Analytics
- Etc...



GENERATION & RECYCLING OVER TIME



2020 RECYCLING RATES



2011 SOLID WASTE MANAGEMENT PLAN TARGETS



10% Reduction Waste Generation (Achieved 11%)

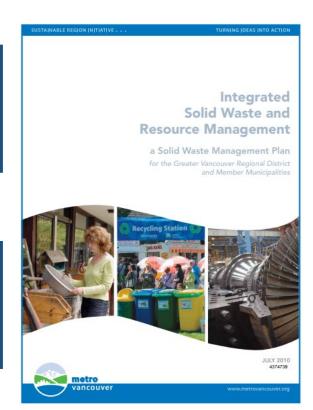
Generation = Recycled + Disposed



80% Recycling Rate

(Achieved 64%)

Recycling Rate = Recycled / Generated

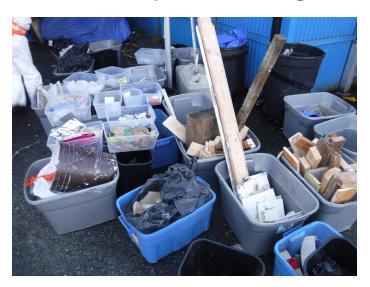




HOW DO WE SHARE DATA?

Two main sources

Waste Composition Program



Annual Recycling and Solid Waste Management Report



Reports & Resources (metrovancouver.org)

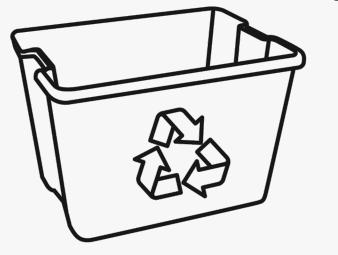
SUGGESTED DISCUSSION QUESTIONS *

- What improvements could be made to Metro Vancouver's waste and recycling data collection, analysis, and reporting processes?
- What additional information/analysis would be useful?
- What information is available in other communities that could be helpful in Metro Vancouver?

* These are only suggested discussion questions, members are encouraged to discuss any areas of interest on the topic.



Thank you

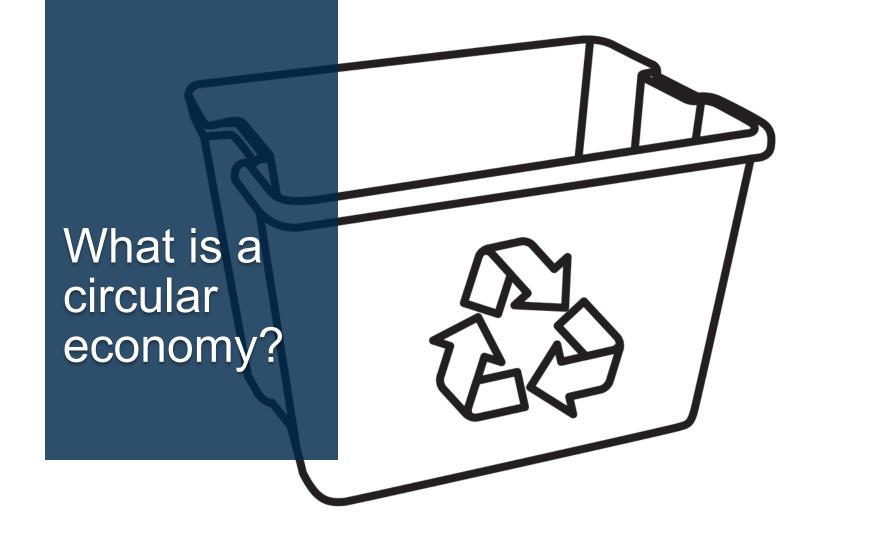


Recycling Bin

Zero Waste and Circular Economy

Karen Storry

Senior Engineer

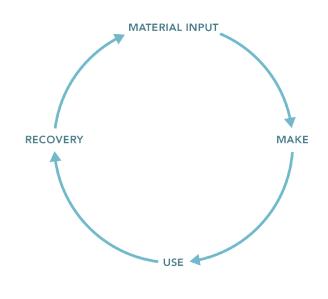


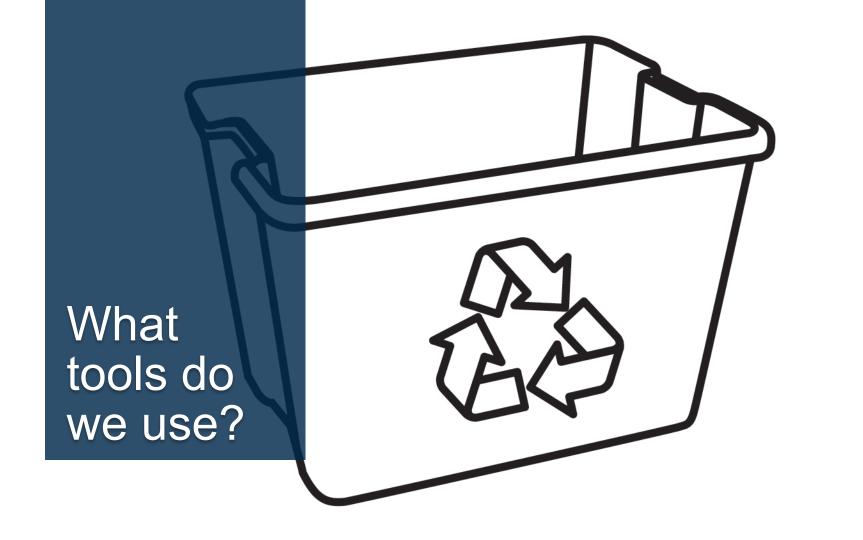
WHAT IS THE CIRCULAR ECONOMY?

The Linear Economy



The Circular Economy

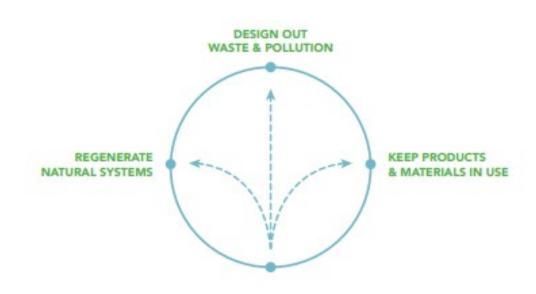




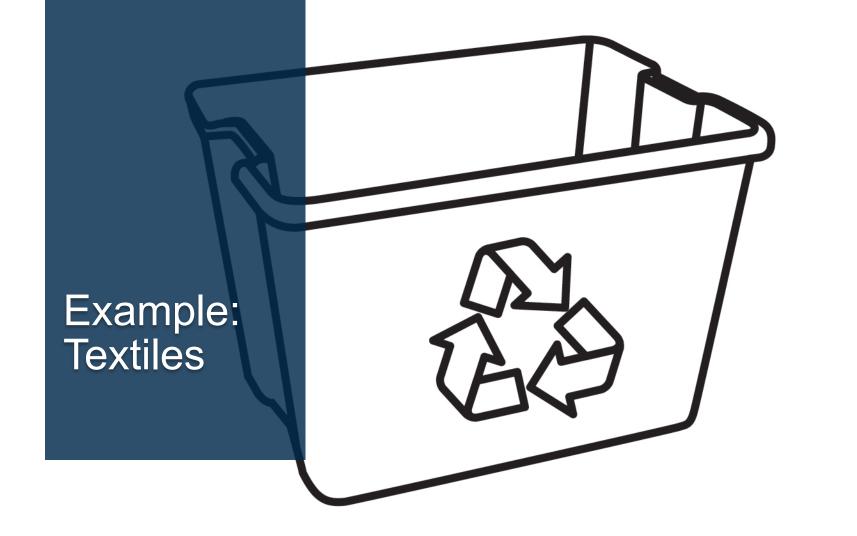
CIRCULAR ECONOMY

Tools to transition to a circular economy

- Collaboration
- Research
- Policy
- Programs
- Infrastructure
- Public Education



THE 3 PRINCIPLES OF THE CIRCULAR ECONOMY



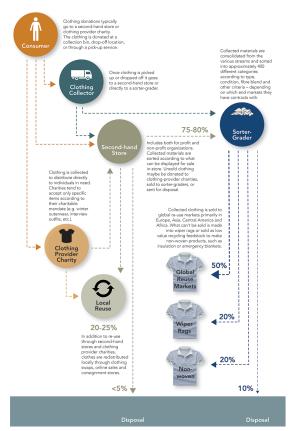
CAMPAIGNS

In the Metro Vancouver region



THE LIFE CYCLE OF UNWANTED CLOTHING

WHAT HAPPENS TO YOUR UNWANTED CLOTHING?

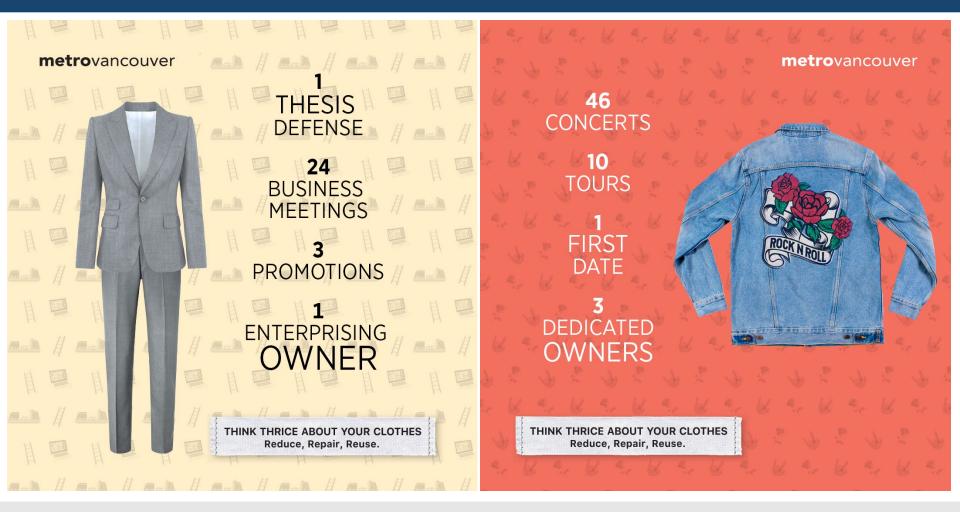


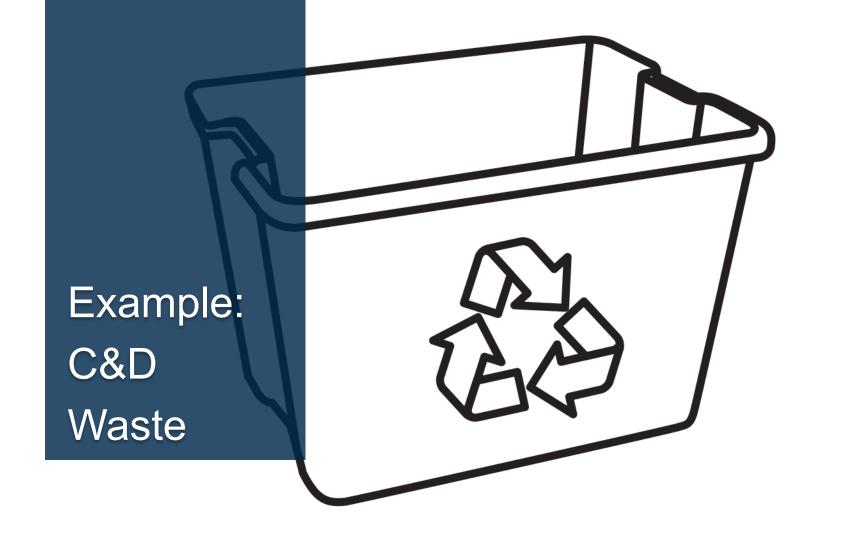
TEXTILES WASTE DISPOSED

In the Metro Vancouver Region

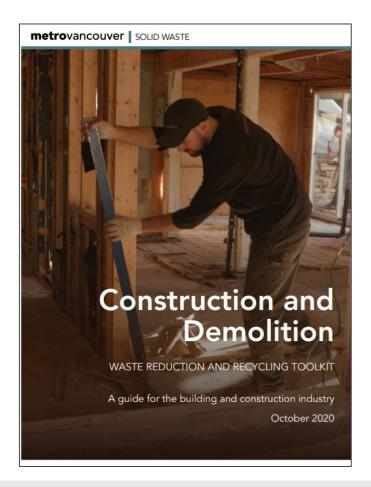








C&D TOOLKIT



C&D WASTE REDUCTION AND RECYCLING TOOLKIT

Alternatives to Demolition

- Adaptive Reuse
- House Moving
- Deconstruction
- Salvage and Reuse

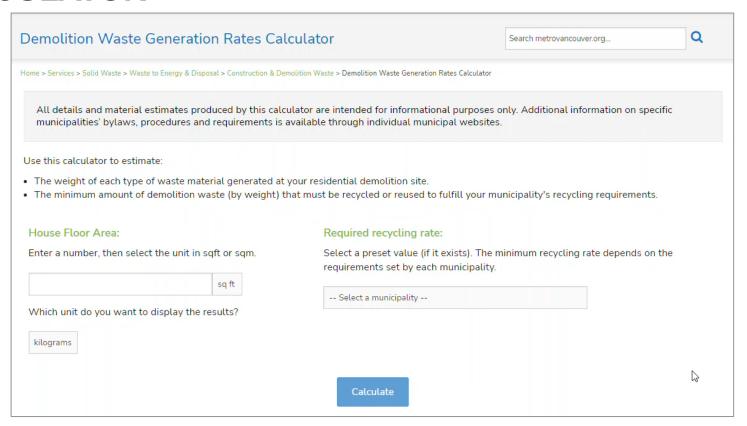


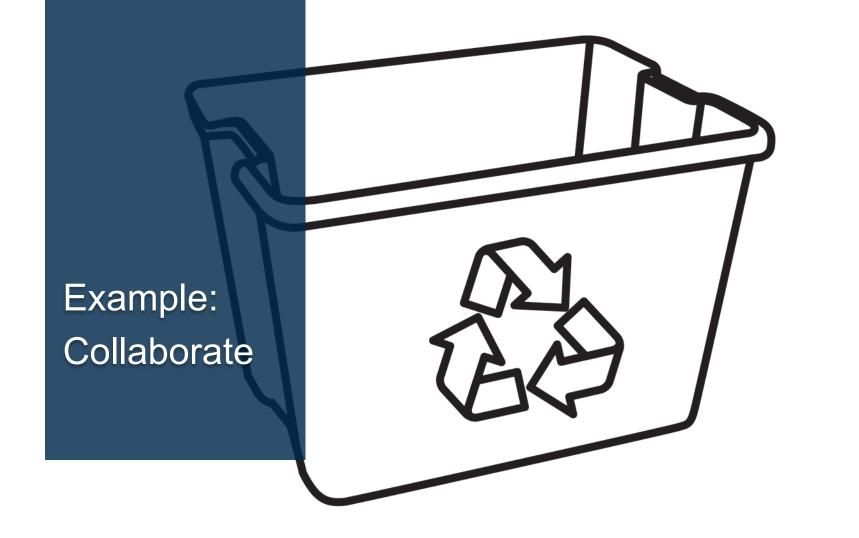






CALCULATOR

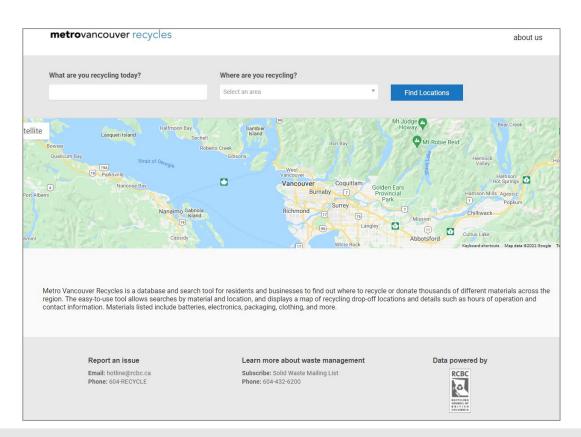




COLLABORATION

RCBC Recycling Database

- metrovancouver recycles helps residents find recycling options
- Data powered by RCBC



COLLABORATION

Reuse Day at the North Shore Recycling and Waste Centre

- June 2019 Pilot weekend diverted 1565 kg of reusable materials
- Launched end of August 2022



NATIONAL ZERO WASTE COUNCIL

Focus Areas:

- Waste prevention
- Circular Economy
- Construction and Demolition
- Food
- Plastics
- Product Design and Packaging



SUGGESTED DISCUSSION QUESTIONS *

- What are some of the opportunities for growing the circular economy in our region?
- What additional circular economy and waste reduction research, programs and policies would you like to see in the region?
- Where do you see potential for waste reduction/re-use partnerships and opportunities?
- Thinking about procurement, what are the opportunities in municipal/regional/private sector procurement processes?

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Residential and Commercial/Institutional Residual Garbage Management

Paul Henderson

General Manager, Solid Waste Services
Solid Waste and Recycling Industry Advisory Committee Meeting – September 7, 2022
https://orbit.gvrd.bc.ca/orbit/llisapi.dll/properties/54515233

RESIDUAL MANAGEMENT IN METRO VANCOUVER REGION

- Tipping Fee Bylaw includes the "Generator Levy" applicable to all residential and commercial/institutional garbage
- Some stakeholders do not support Generator Levy approach
- Presentation outlines the rationale and mechanics of Generator Levy
- Discussion questions create opportunity for feedback on the Generator Levy as well as suggestions for improvements/alternatives

GENERATOR LEVY

- Encourages delivery of garbage to Metro Vancouver and City of Vancouver facilities
- Loads subject to tipping fee bylaw requirements – e.g. disposal bans
- All generators contribute to the cost of the regional solid waste system
- Garbage delivery to Metro Vancouver facilities simplifies tracking diversion goal progress
- Generator Levy supports planning future solid waste system requirements



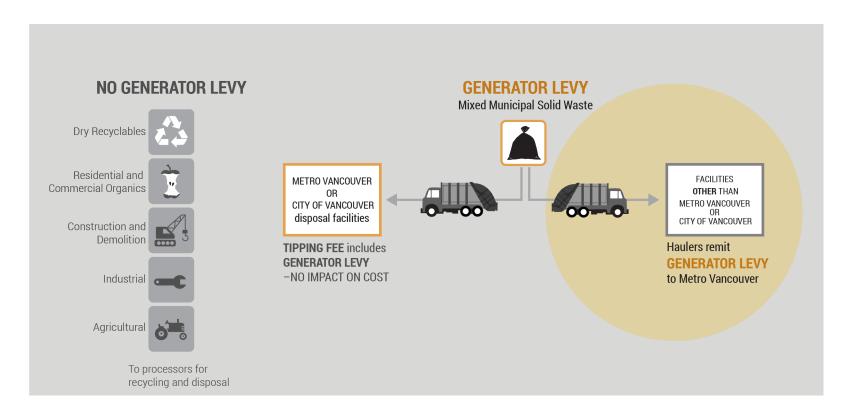
GENERATOR LEVY HISTORY

- GVS&DD Act amended in 1995 to provide authority to implement Generator Levy
- 1995 Solid Waste Management Plan included Generator Levy
- 2011 Integrated Solid Waste and Resource Management Plan included Generator Levy
- Tipping Fee Bylaw amended by GVS&DD Tipping Fee and Solid Waste Disposal Regulation Amending Bylaw, No. 308, 2017 to include Generator Levy
- February 2018 update to ensure Generator Levy only paid once for facilities recovering energy or materials

GENERATOR LEVY OVERVIEW

- Effective January 1, 2018
- \$54/tonne in 2022
- Part of tipping fee at City of Vancouver and Metro Vancouver facilities
- Haulers remit to Metro Vancouver if deliver mixed waste to other facilities

GENERATOR LEVY



SUGGESTED DISCUSSION QUESTIONS *

- What are some examples of best practice solid waste regulatory models to advance zero waste and the circular economy?
- How could the Generator Levy be improved?
- What roles should the private/public sector play in the delivery of garbage and recycling services?

* These are only suggested discussion questions, members are encouraged to discuss any areas of interest on the topic



Thank You