



**METRO VANCOUVER REGIONAL DISTRICT
SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE**

Tuesday, September 12, 2023

1:00 pm – 4:00 pm

A G E N D A

1. AGENDA

1.1 September 12, 2023 Meeting Agenda

2. MINUTES

2.1 July 11, 2023 Meeting Minutes

3. REPORTS

3.1 IAC Meeting Procedures

Designated Speaker: Paul Henderson, General Manager, Metro Vancouver

3.2 Performance Metrics Scope

Designated Speakers: Terry Fulton, Metro Vancouver and Veronika Bartlett, Morrison Hershfield

4. OTHER BUSINESS

4.1 Zero Waste Committee Updates

Verbal Update

Designated Speaker: Paul Henderson, General Manager, Solid Waste Services

4.2 October Workshop Planning

Verbal Update

Designated Speaker: Paul Henderson, General Manager, Solid Waste Services

4.3 2023 IAC Action Tracker and Summarize Meeting Action Items

Verbal Update

Designated Speaker: Samantha Joy, Engagement Specialist, Solid Waste Services

4.4 Solid Waste Management Plan Public Engagement Update

Verbal Update

Designated Speaker: Samantha Joy, Engagement Specialist, Social Waste Services

4.5 2023 Zero Waste Conference IAC Member Attendance

Verbal Update

Designated Speaker: Samantha Joy, Engagement Specialist, Social Waste Services

5. CO-CHAIR NOMINATIONS

6. INFORMATION ITEMS

6.1 Regional Waste Flows

6.2 Industry Advisory Committee 2023 Work Plan

6.3 Additional Workshop Feedback

Committee Co-Chairs:

Director Craig Hodge, Zero Waste
Committee Vice Chair

Membership:

Abrams, Izzie - Waste Connections of Canada	Hankins, Grant – Minibins Canada	Moucachen, Maya - Merlin Plastics
Ahmadi, Taufiq – Maple Leaf Disposal	Johnson, Gord - Empower Environmental/ Northstar	Plotnikoff, TerryI - Canadian Mattress Recycling Inc.
Berkhof, Edwin – Evergen Infrastructure Corp.	JansenVandoorn, Josh - Anaconda Systems Ltd.	Polak, Mary – Waste Connections of Canada
Bryan, Lori - Waste Management Association of BC	Kaminski, Jamie - HSR Zero Waste	Prasad, Shad - Cascade Recovery + Sigmund, Sandy – Encorp Pacific Canada
Carrusca, Ken - Cement Association of Canada	Kawakami, Sean - Convertus Group	Stefenelli, Nicole - Urban Impact Recycling Inc.
Collins, James - Tymac Launch Service Ltd.	Kiani, Aiden - Lock-Block Ltd.	Vargas, Pinky – Republic Services
Coutts, Cindy – Encorp Pacific Canada	Koehn, Leanne – Ridge Meadows Recycling Society	Victor, Nicole - Covanta
Crawford, Jeremy – Waste Control Services	Lannin, Mike – Super Save Group	Zarbl, Michael - Major Appliances Recycling Roundtable
Dietrich, Christian – Ecowaste Industries	Lotzkar, Jacqueline - Pacific Metals Recycling Inc.	
	Mallari, Achilles - Sierra Waste Services Ltd.	
	McAra, Matthew – GFL	
	McRae, Ralph – Revolution	
	Millman, David - Waste Management of Canada	

Metro Vancouver and City of Vancouver Staff:

Allan, Chris – Metro Vancouver	Joy, Samantha - Metro Vancouver	Underwood, Chris – Metro Vancouver
Belanger, Lynn – City of Vancouver	Henderson, Paul – Metro Vancouver	Vidler, Lynne – Metro Vancouver
Doorn, Nanette van – Metro Vancouver	McDermott, Jon – City of Vancouver	
	Mizan, Zeenia – Metro Vancouver	

**METRO VANCOUVER REGIONAL DISTRICT
SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE**

Minutes of the Solid Waste and Recycling Industry Advisory Committee held at 2:00 p.m. on Tuesday, July 11, 2023, via Zoom Video Conference.

MEMBERS PRESENT:

Craig Hodge, Director, Metro Vancouver Board of Directors (Co-Chair)	Mike Lannin, Super Save Group
Mary Polak, Waste Connections of Canada (Co-Chair)	Achilles Mallari, Sierra Waste Services Ltd.
Izzie Abrams, Waste Connections of Canada	Matthew McAra, GFL Environmental Inc.
Ken Carrusca, Cement Association of Canada	Ralph McRae, Revolution
Jeremy Crawford, Waste Control Services Inc.	David Millman, Waste Management of Canada
Christian Dietrich, Ecowaste Industries	Shad Prasad, Cascade Recovery +
Grant Hankins, MiniBins Canada	Sandy Sigmund, Encorp Pacific Canada
Jamie Kaminski, HSR Zero Waste	Nicole Stefenelli, Urban Impact Recycling
Gord Johnson, Empower Environmental/ Northstar	Nicole Victor, Covanta
Leanne Koehn, Ridge Meadows Recycling Society	James Collins, Tymac Launch Service Ltd.
Sandy Sigmund, Encorp Pacific Canada	Josh Jansen Vandoorn, Anaconda Systems Ltd. Lori Bryan, Waste Management Association of BC Sean Kawakami, Convertus Canada Ltd.

MEMBERS ABSENT

Aiden Kiani, Lock-Block Ltd.	Maya Moucachen, Merlin Plastics
Taufiq Ahmadi, Maple Leaf Disposal	Jacqueline Lotzkar, Pacific Metals Recycling International
Terryl Plotnikoff, Canadian Mattress Recycling Inc.	Edwin Berkhof, Evergen Infrastructure Corp.
Michael Zarbl, Major Appliances Roundtable	

METRO VANCOUVER (MV) STAFF:

Paul Henderson, General Manager, Solid Waste Services	Samantha Joy, Engagement Specialist, Solid Waste Services
Chris Allan, Operations Manager, Solid Waste Services	Brooke Atkinson, Engagement Specialist, Solid Waste Services
Chris Underwood Planning Manager, Solid Waste Services	Zeenia Mizan, Communications Officer, Strategy and Stakeholder Relations, Solid Waste Services

PREPARATION OF MINUTES: Jasmeen Dhillon, Raincoast Ventures Ltd.

Solid Waste and Recycling Industry Advisory Committee Meeting

Tuesday, July 11, 2023

2:00 PM – 4:00 PM

Zoom

Agenda

1. Agenda
 - 1.1. July 11, 2023 Meeting Agenda
2. Minutes
 - 2.1. June 6, 2023 Meeting Minutes
3. Republic Services Representation on Industry Advisory Committee
4. Zero Waste Committee Updates

[Zero Waste Committee meeting Agenda – July 13, 2023](#)

 - 4.1. 5.4 Tipping Fee Bylaw Updates
 - 4.2. 5.5 Smart Waste Program

Verbal Update
Designated Speaker: Paul Henderson, General Manager, Solid Waste Services
5. PROPOSED UPDATES TO INDUSTRY ADVISORY COMMITTEE TERMS OF REFERENCE – VOTING ITEM
 - 5.1. Proposed Updated Terms of Reference
 - 5.2. Proposed Updated Terms of Reference – Blackline version (compared to version included in the May 9, 2023 agenda package)
 - 5.3. Proposed Updated Terms of Reference – Blackline version (compared with February 7, 2023 approved version)
6. REPORTS
 - 6.1. Solid Waste and Recycling Industry Advisory Committee 2022/23 Summary – Draft report to Zero Waste Committee
Verbal Update
Designated Speaker: Paul Henderson, General Manager, Solid Waste Services
7. OTHER BUSINESS
 - 7.1. 2023 IAC Work Plan updates
Verbal Update
Designated Speaker: Paul Henderson, General Manager, Solid Waste Services
 - 7.2. 2023 IAC Action Tracker and Summarize Meeting Action Items
Verbal Update
Designated Speaker: Samantha Joy, Engagement Specialist, Solid Waste Services
8. NEXT STEPS
 - 8.1. Updating Meeting Schedule
9. INFORMATION ITEMS

- 9.1. Regional Waste Flows
- 9.2. Proposed Updated 2023 Meeting Schedule

MEETING MINUTES

Craig Hodge, Co-Chair, called the meeting to order at 2:01 p.m. and welcomed attendees to the Solid Waste and Recycling Industry Advisory Committee meeting.

1. AGENDA

1.1 July 11, 2023 Meeting Agenda

Co-Chair Hodge called for additions or changes to the agenda. No additions were put forward.

2. MINUTES

2.1 June 6, 2023 Meeting Minutes

Co-Chair Hodge called for errors or omissions in the minutes of the June 6, 2023 Industry Advisory Committee meeting.

A member raised a concern that the content from flip charts used during the table discussions at the June 6, 2023 workshop was omitted from the *What We Heard* summary. It was requested that the *What We Heard* summary be amended to include content from the flip charts.

Co-Chair Hodge responded that the *What We Heard* summary would be reviewed for accuracy and requested members to forward further feedback directly to staff.

3. Republic Services Representation on Industry Advisory Committee

Co-Chair Hodge informed that Cynthia Shore, Republic Services has resigned. Pinky Vargas attended the June 6, 2023 meeting as an alternate for Cynthia. The Industry Advisory Committee Terms of Reference do not outline a process for replacing a member who has resigned. Pinky Vargas has been informed that she can attend as an observer until further notice.

Feedback was requested to provide clarity on the Member Resignation section of the Terms of Reference and general discussion questions were asked:

1. If a member resigns part way through the year, should there be a replacement?
2. Should an individual be able to join membership as a replacement?
3. If a member leaves a company, can the company appoint someone as the new representative?

Further discussion was deferred until later in the meeting, under Item 5.

4. Zero Waste Committee Updates

[Zero Waste Committee meeting Agenda – July 13, 2023](#)

4.1 5.4 Tipping Fee Bylaw Updates

Paul Henderson, General Manager, Solid Waste Services, Metro Vancouver, gave a presentation outlining the Draft Tipping Fee Bylaw. The draft updates include:

- 1) Updating definitions
- 2) Clarification of record keeping requirements
- 3) Enhancing compliance promotion powers

It was noted that the scope of the applicability of the generator levy had not increased, specifically that loads containing only construction and demolition waste would not be subject to the generator levy.

Engagement with the waste management community will occur in advance of Zero Waste Committee/Board considering any proposed bylaw updates.

4.2 5.5 Smart Waste Program

Paul Henderson gave a presentation to introduce a new program being initiated by Metro Vancouver that will use location-based electronic devices to observe the movement of waste around the region.

During discussion on the Draft Tipping Fee Bylaw and Smart Waste Program, comments were offered regarding:

- Information was requested regarding how the benchmarks and utility costs were calculated
 - Information is from publicly available websites of the organizations sited
 - Additional information will be provided by staff, including sources of information from other jurisdictions
- Information was requested on whether the location-based devices would be deposited into front-end (stationary) bins or roll-off bins
 - location-based devices would be deposited into publicly accessible garbage containers and will move with the garbage, including potentially both front-end and roll-off containers
- Questions on whether construction and demolition loads would be subject to the generator levy
 - Loads of construction and demolition are not currently subject to the generator levy when delivered to a facility other than Metro Vancouver or City of Vancouver solid waste facility and the draft updates to the Tipping Fee bylaw make no changes with respect to the applicability of the generator levy to construction and demolition waste loads
- Information was requested on the extent to which the devices would be used including the frequency of use.
 - the expectation is that the devices would be used periodically to survey the movement of garbage around the region
- Members expressed concerns about trucks being monitored by someone other than their own company
- Members noted that they believed the use of the devices would require consent from the

waste management companies.

- Members expressed concern that the release of the draft documents occurred during the summer season when some members are on vacation and are unable to participate in a vote and/or discussion
- Are electronics not banned from landfill?
 - Draft updates to the Tipping Fee Bylaw contain an exemption for electronic location devices used to observe the movement of waste
- Members expressed concerns that the devices could cause fires and impact the environment.
 - The devices use AAA alkaline batteries which do not cause fires and are considered non-toxic.
- Members raised concerns that there was no engagement on the planned use of the devices in advance of the report being published.

5. **PROPOSED UPDATES TO INDUSTRY ADVISORY COMMITTEE TERMS OF REFERENCE – VOTING ITEM**

Paul Henderson referred to slides summarizing the proposed updates:

- Section 4 – Conflicts of Interest
 - Disclosure statement replaces the conflict-of-interest statement wording
 - Examples of information to be provided in the disclosure statements have been included in the Terms of Reference
 - Members should excuse themselves in matters that may place them in a conflict of interest unless explicitly requested to speak
 - Definition of conflict of interest: pecuniary or other interest that would cause a real or perceived conflict of interest for members to carry out duties
 - Co-Chairs have the power to remove any IAC member whose conflict of interest is inconsistent with fair and objective deliberation
- Section 5: Chairs
 - Nomination of Co-Chairs will be the meeting prior to the annual Co-Chair election, with additional nominations allowed on the day of the election.

During discussion, comments were offered regarding:

- Members spoke for and against updating the proposed Terms of Reference with a provision to allow a company to replace a member if the member leaves the Industry Advisory Committee.

It was **MOVED** and **SECONDED**

To update the Terms of Reference to be consistent with the draft provided in the meeting agenda.

It was MOVED and SECONDED

To amend the draft Terms of Reference presented in the meeting agenda with an additional provision as follows:

If a member leaves the Industry Advisory Committee, the company or association the member represents can appoint another representative for the remainder of the committee term.

During discussion, comments were offered regarding:

- If vote on amendment passes it will be included in the Terms of Reference draft which will undergo a second vote today.
- Debate on whether language would be amended in the Terms of Reference to identify if an individual or company is a member of the IAC
- IAC members must represent a company or member association
- Roberts Rules of Order need to be followed.

The AMENDMENT was CARRIED

5.1 Proposed Updated Terms of Reference

Co-chair Hodge referred to the Proposed Updated Terms of Reference included in the agenda package, and informed a vote would take place on the Terms of Reference with the latest amendment. Members were provided time to review.

The MOTION as amended was CARRIED

Co-Chair Hodge departed the meeting. Co-Chair Polak resumed the meeting.

6. REPORTS

6.1 Solid Waste and Recycling Industry Advisory Committee 2022/23 Summary – Draft report to Zero Waste Committee

Paul Henderson referred to the document titled *“Draft report to Zero Waste Committee”*, referencing, *“5.5 Smart Waste Program (SWP)”*, and provided a verbal update highlighting:

- The draft report to the Zero Waste Committee provides a summary of the activities the Industry Advisory Committee is working on
- The report references feedback from the Co-chairs that will be added to the report
- Next steps include:
 - Finalize the draft report
 - Attach Co-Chairs feedback
 - Present the report to the Zero Waste Committee
- Comments and feedback provided will be shared with the Co-chairs.

7. OTHER BUSINESS

7.1 2023 IAC Work Plan Updates

Paul Henderson referred to slides 26 and 27 shared via online presentation, highlighting the following addition to the 2023/24 work plan:

- Solid Waste Regulatory Framework

- Metro Vancouver Procurement Process – Presentation and discussion
- Recycling Statistics – Presentation and Discussion
- Solid Waste 2023 Budget and Capital Plan

7.2 2023 IAC Action Tracker and Summarize Meeting Action Items

Co-chair Polak reviewed the Action Tracker, and informed there were no updates.

A member asked about an item in progress related to insurance rates for waste and recycling facilities. Paul Henderson updated with the following:

- Paul has communicated with the insurance broker regarding the potential to access lower insurance costs for licensed facilities
- Staff will follow-up with the broker to consider facilities licenses and understand how they assess risk for facilities.

8. NEXT STEPS

8.1 Upcoming Meeting Schedule

Co-Chair Polak informed that upcoming meeting dates have not changed but that the format will change. September 7 was originally scheduled as an in-person meeting – the schedule will now be September 7 as an online meeting and October 3 as an in-person meeting and a workshop.

9. Information Items

9.1 Regional Waste Flows

- This item was included in the agenda package as an information item and was not discussed.

9.2 Proposed Updated 2023 Meeting Schedule

Co-chair Polak reviewed the upcoming meeting schedule and meeting platforms:

- Next online meeting: September 12, 2023
- Next in-person meeting: October 3, 2023
- Zero Waste Conference: November 1 and 2, 2023
 - IAC members can attend at no cost
 - Let staff know and to arrange for registration.

During a general discussion, the following comments were recorded:

- Request to have the IAC agendas published at least one week before a meeting
- Additional discussion on the Smart Waste program including questions on whether the devices would be used in construction and demolition containers and the applicability of the generator levy to construction and demolition waste loads
 - Additional information would be provided to Industry Advisory Committee members specifying the provision in the draft Tipping Fee Bylaw that exempts these loads
- Process for applying as a delegation to the Zero Waste Committee
 - Where a report is on the agenda for a meeting, delegations can apply to speak at

a committee meeting right up until the start of the meeting. Time restrictions are not applicable if there is a report on the agenda that a delegation would like to speak to.

- Information request on the bottom ash utilization pilot has been added to the meeting action tracker

Co-Chair Polak advised members that the meeting would be adjourned and informed that staff have committed to providing more information about the resources used in the Tipping Fee Bylaw presentation and the applicability of the Generator Fee Levy.

10. ADJOURNMENT

The Solid Waste and Recycling Industry Advisory Committee meeting adjourned at 3:58 p.m.

To: Solid Waste and Recycling Industry Advisory Committee

From: Paul Henderson, General Manager, Solid Waste Services

Date: August 22, 2023 Meeting Date: September 12, 2023

Subject: **Solid Waste and Recycling Industry Advisory Committee Meeting Procedures**

RECOMMENDATION

That the Solid Waste and Recycling Industry Advisory Committee receive for information the report dated August 22, 2023, titled “Solid Waste and Recycling Industry Advisory Committee Meeting Procedures”.

EXECUTIVE SUMMARY

This report provides a summary of Solid Waste and Recycling Industry Advisory Committee (Industry Advisory Committee) meeting procedures and protocols including the following:

- Posting of the meeting agenda and distribution of additional materials and resources
- Zoom protocols and functions
- In-person meetings
- Minute-taking and meeting recording
- Observers

The report is being provided to the Industry Advisory Committee as there have recently been a number of questions from members with respect to the meeting processes. Much of the information in this report is extracted from the Industry Advisory Committee Terms of Reference. If there is a conflict between this document and the Terms of Reference, the Terms of Reference take precedence.

PURPOSE

The purpose of this report is to outline meeting protocols and procedures of the Industry Advisory Committee.

BACKGROUND

There have been a number of questions from members on meeting procedures including questions on note-taking, Zoom recordings, and meeting observers. This report provides an overview of meeting procedures.

INDUSTRY ADVISORY COMMITTEE MEETING PROCEDURES

Scheduling

As noted in the Industry Advisory Committee Terms of Reference, meetings will be held monthly except in July, August and December. Meeting dates will be determined by the Co-Chairs in consultation with members at the first meeting of the calendar year and distributed to members

through a calendar document and Outlook calendar invitations. Meeting cancellations and/or additional meetings may be determined at the discretion of the Co-Chairs.

Distribution of the Committee Agenda and Additional Information

The Co-Chairs work with Metro Vancouver staff to draft meeting agendas, information, and resources to support Industry Advisory Committee work. Agenda packages will be posted on Metro Vancouver's website at least 72 hours prior to each meeting. In response to input from committee members at the July 11, 2023 meeting, staff will endeavor to publish meeting agendas seven days in advance of meetings.

Video Conference Meetings - Zoom functions and protocols

When attending meetings virtually through zoom, the following protocols are suggested:

- Keep video on
- Enter name and organization in the participant window
- Remain on *Mute* unless speaking
- Use the *Raise Hand* function to indicate to the Co-Chairs if you wish to speak
- Other Zoom reactions such as "clapping" disappear from the screen after a few moments and thus are not suitable to make a request to speak.

In-Person Meetings

In-person meetings are currently held twice a year, with the schedules determined by the Co-Chairs.

Minute Taking and Recording

A third-party note-taker attends all meetings. Meeting minutes and action trackers are kept for each meeting. Minutes do not reflect the names of individual speakers but do reflect the issues discussed, significant points of view, and resolutions or actions to be taken. Minutes are published on the Metro Vancouver website as part of the agenda package for the subsequent meeting, and are available to the public. Meetings are not recorded either by video or audio means.

Observers and Guests

Meetings are open to any individuals who wish to observe the discussion. Observers may not vote or participate in discussions. For meetings held virtually, going forward Metro Vancouver's intent is to publish the livestream link on the Metro Vancouver website so that any individual will be able to observe the meetings. Metro Vancouver will not have information on who views the livestream, similar to how Metro Vancouver does not have or record information on observers at elected official meetings.

For in-person meetings, observers may request to attend by emailing Metro Vancouver staff two weeks ahead of the meeting date.

Non-members may request an opportunity to present to the Industry Advisory Committee, through two weeks' advance written submission for consideration by the Co-Chairs.

CONCLUSION

The purpose of the Industry Advisory Committee is to provide a forum for industry contribution, discussion and advice on management planning, operations and planning issues related to solid waste and recycling services in Metro Vancouver. Meetings provide a formal structure where members can receive information and engage in chaired discussions.

Attachments

1. Solid Waste and Recycling Advisory Committee Terms of Reference

61368156



North Shore Recycling and Waste Centre

IAC Meeting Procedures

Paul Henderson, P.Eng.

General Manager, Solid Waste Services

Solid Waste and Recycling Industry Advisory Committee September 12, 2023

Orbit Link

metrovancouver

IAC MEETING PROCEDURES

- Posting of the meeting agenda and distribution of additional materials and resources
- Zoom protocols and functions
- In-person meetings
- Minute-taking and meeting recording
- Observers



metrovancouver
SERVICES AND SOLUTIONS FOR A LIVABLE REGION



MORRISON HERSHFIELD

Performance Metrics

Metro Vancouver's Solid Waste Management Plan Update

Veronica Bartlett, Senior Solid Waste
Planner, Morrison Hershfield

Terry Fulton, Senior Project Engineer, Solid
Waste Services, Metro Vancouver

Presentation to the Industry Advisory Committee Meeting on September 12, 2023



Meeting Outline

- Introductions
- Background and process
- Current performance metrics
- Morrison Hershfield's scope of work
- Examples of new metrics used elsewhere
- Discussion
 - What should we include in our research?

Background & Process

- The Environmental Management Act mandates regional districts to develop plans for the management of municipal solid waste and recyclable materials
- Metro Vancouver has set out a multi-phase process
- A Consultant hired to support

We are here



Current Key Performance Metrics

Waste generation rate (tonnes/capita)



Disposal rate (tonnes/capita)



Disposal rate (tonnes/household)



Recycling rate (%)



Reuse estimates

Performance Reporting

- Annual reporting
- Biennial Reporting
- Metro Vancouver's waste composition studies

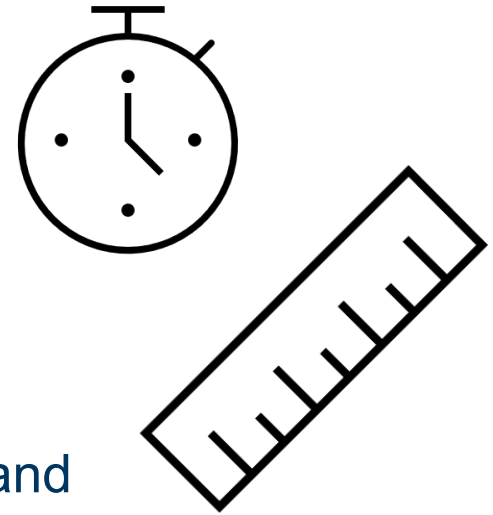


Creating Goals and Targets



MH's Scope of Work

- MH's scope of work:
 1. Jurisdictional and organizational review
 - Build on the Jurisdictional Scan performed in 2022
 - Identify and assess potential additional and alternative targets and performance metrics
 2. Develop long list of potential performance targets
 - Research and develop a long list of potential performance metrics and targets to be considered for an updated SWMP
 3. Review of Metro Vancouver's existing performance metrics
 - Assess current targets and performance metrics



MH's Scope of Work

- Consider data accessibility, transparency, measurement feasibility, accuracy, benefits, and applicability to the updated SWMP
- Research metrics and targets to assess progress toward:
 - The 5Rs Waste Reduction Hierarchy
 - Reducing GHG emissions
 - Supporting social equity
 - Increasing education and awareness, and
 - Transitioning toward a circular economy



Approach

- Feedback on research focus
- Research best practices
 - Leading jurisdictions
- Determine applicability to Metro Vancouver
 - Current metrics
 - Potential future strategies in the updated SWMP



Examples of Other Performance Metrics



Repair and reuse

Reuse store tonnage
(Edson, AB)



Consumption based
emissions (environmental)

Tonnes CO₂ emissions per capita
(Peterborough, UK)



Circular/green jobs (societal)

Recycling & reuse-related economy employment and
payroll
(Austin, TX)



Economic value (\$) of circular
economy activities

Net added value of the circular economy
(Amsterdam, NL)

Performance Metrics Discussion



- What's important to your organization for reporting?
- What data do you have access to that can inform this project?
- Are there specific jurisdictional examples we should consider?

Thank you!

Any additional comments send to
solidwasteoperations@metrovancover.org





**METRO VANCOUVER REGIONAL DISTRICT
SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE**

**Tuesday, October 3, 2023
1:00 pm – 4:00 pm In-Person Meeting
Scandinavian Community Centre
6540 Thomas Street, Burnaby, BC**

A G E N D A

- 1. AGENDA**
 - 1.1 October 3, 2023 Meeting Agenda**

- 2. MINUTES**
 - 2.1 September 12, 2023 Meeting Minutes**

- 3. CO-CHAIR ELECTION**

- 4. WORKSHOP**
 - 4.1 Smart Waste Program and Draft Tipping Fees Bylaw Updates**
Delaney and Associates Inc.

- 5. OTHER BUSINESS**
 - 5.1 Zero Waste Committee Updates**
Verbal Update
Designated Speaker: Paul Henderson, General Manager, Solid Waste Services
 - 5.2 2023 IAC Action Tracker and Summarize Meeting Action Items**
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- 6. INFORMATION ITEMS**
 - 6.1 Regional Waste Flows**
 - 6.2 Industry Advisory Committee 2023 Work Plan**

Committee Co-Chairs:

Director Craig Hodge, Zero Waste

Committee Vice Chair

Membership:

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Doorn, Nanette van – Metro Vancouver	McDermott, Jon – City of Vancouver	
	Mizan, Zeenia – Metro Vancouver	

4.2 OCTOBER WORKSHOP PLANNING

Industry Advisory Committee in-person meeting
October 3, 2023 from 12:30 pm to 4 pm
Scandinavian Community Centre

- **Co-Chair Election**
- **Proposed Workshop Topic**
 - **Smart Waste Program and Draft Tipping Fees Bylaw Updates**
Facilitated by *Delaney and Associates Inc.*

2023 SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE ACTION TRACKER

To be updated after every Solid Waste and Recycling Industry Advisory Committee (IAC) meeting to keep track of the actions or tasks that Metro Vancouver staff are responsible for.

Meeting Date	Requested Action/Item	Assigned Staff	Target / Completion Date	Status
February 10, 2023	<ul style="list-style-type: none"> Metro Vancouver to invite members of the National Zero Waste Council to present on how their work gets incorporated into each phase of the solid waste management plan update process 	Paul Henderson	Q3	In progress
	<ul style="list-style-type: none"> Jurisdictional Scan of Recycling Statistics and Methodologies - Metro Vancouver will report back on scope of work and findings of a review of existing and future performance metrics including opportunities to improve tracking progress toward waste reduction and recycling goals 	Terry Fulton	Q2	Complete – Sept 2023
May 9, 2023	<ul style="list-style-type: none"> Find out if the inclusion of an inspection report and/or Metro Vancouver licensing program for solid waste facilities could mitigate significantly high insurance premiums and challenges in obtaining insurance coverage for operators and facilities. 	Paul Henderson	Q2	In Progress
July 11, 2023	<ul style="list-style-type: none"> Request for information on Bottom Ash utilization pilot 	Paul Henderson		Pending

4.4 PUBLIC ENGAGEMENT COMPONENTS

Solid waste management plan update

Activity	Date	Details / Purpose
PNE activation	Aug 19 to Sept 4	Games, display, and information
Online questionnaire	Aug 19 to Nov 5	Broad and accessible engagement
Webinar and public workshop	Oct 13 and Oct 24	Opportunities for public dialogue
Collaborative engagement	Sept and Oct	5 organizations
Interviews	TBD	Outreach and amplification
Community Events in North Vancouver, New Westminister, Vancouver, Pitt Meadows, Surrey	Sept/Oct/Nov	Meeting people where they are, community outreach
Opportunity to speak with the Consultation & Engagement Panel	October 30	Q & A opportunity with the engagement panel

Co-Chair Nominations

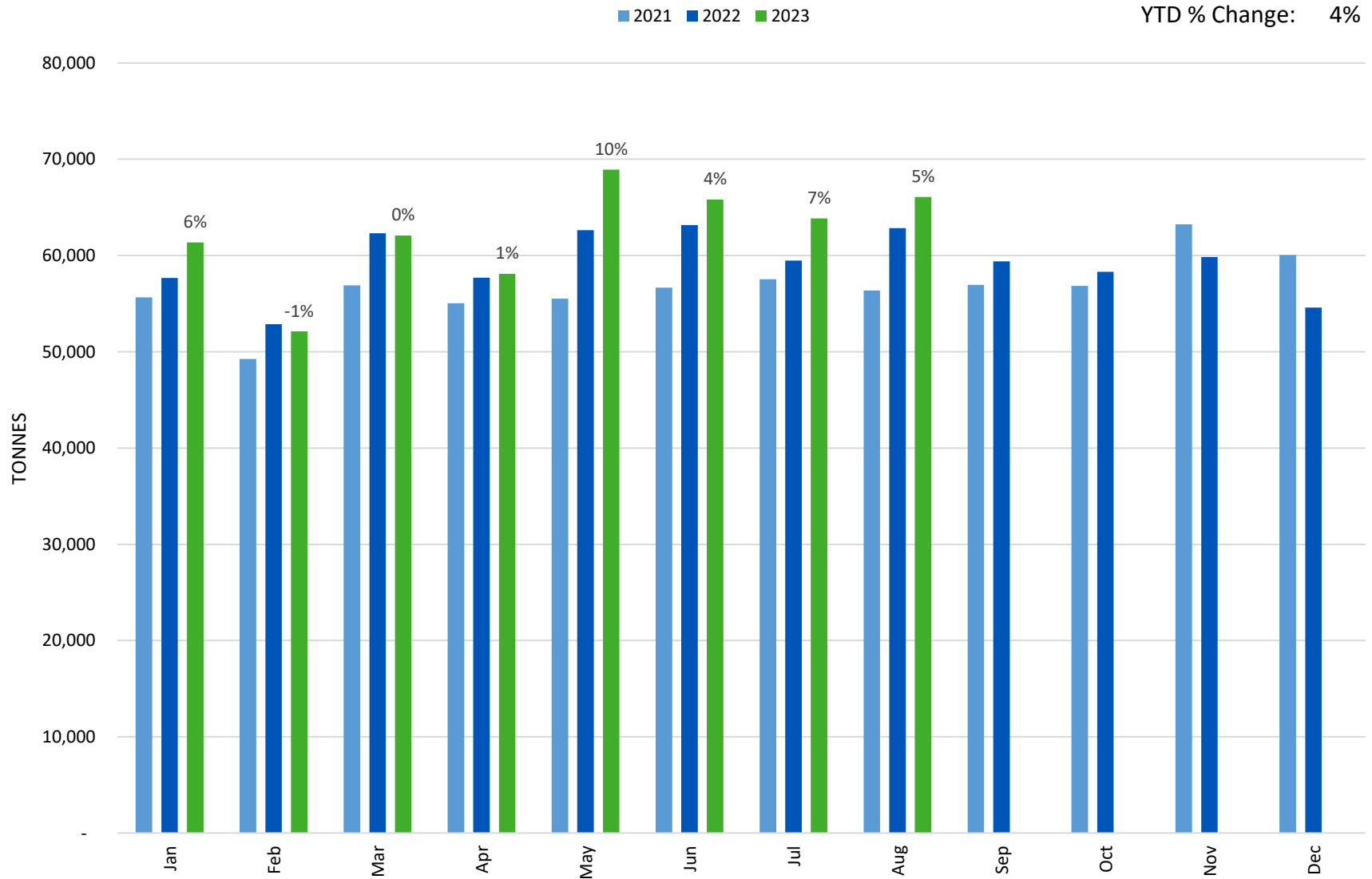
Georgia Strait view from Cypress



CO-CHAIR NOMINATIONS

- The Co-Chair will be elected at the October meeting for a term of one year by a 50%+1 majority vote of voting members present.
- Voting members are defined as IAC members who have held membership for at least one month prior to the day of the vote.
- Nominations are being called today, with additional nominations allowed on the day of the election.

Metro Vancouver Waste Quantities* 2021 - 2023**



**Data reconciled to Jul 2023

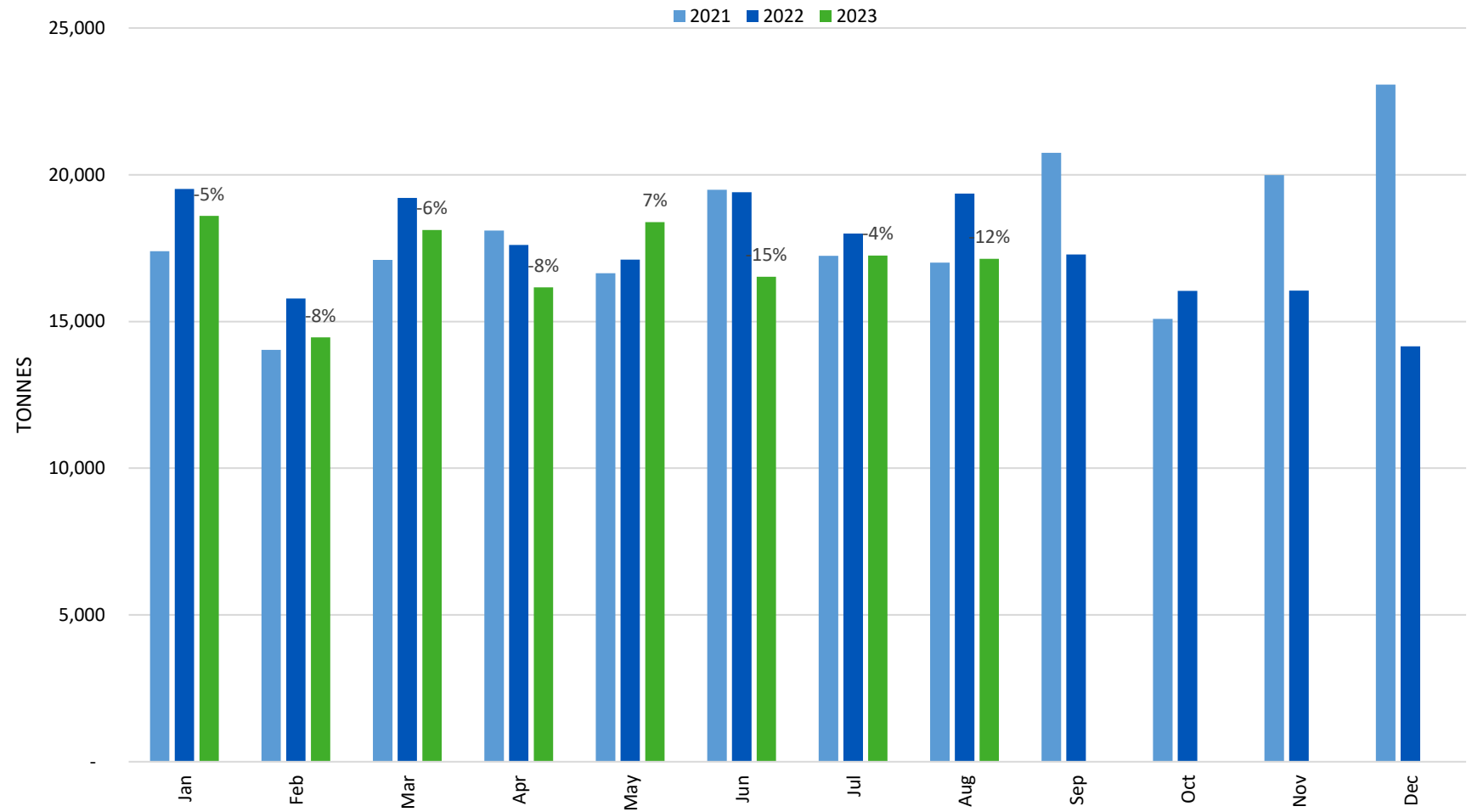
*Metro Vancouver's Six Recycling and Waste Centres & the Waste-to-Energy Facility

City of Vancouver Waste Quantities*

2021 - 2023

(Demo garbage not included)

YTD % Change: -6%



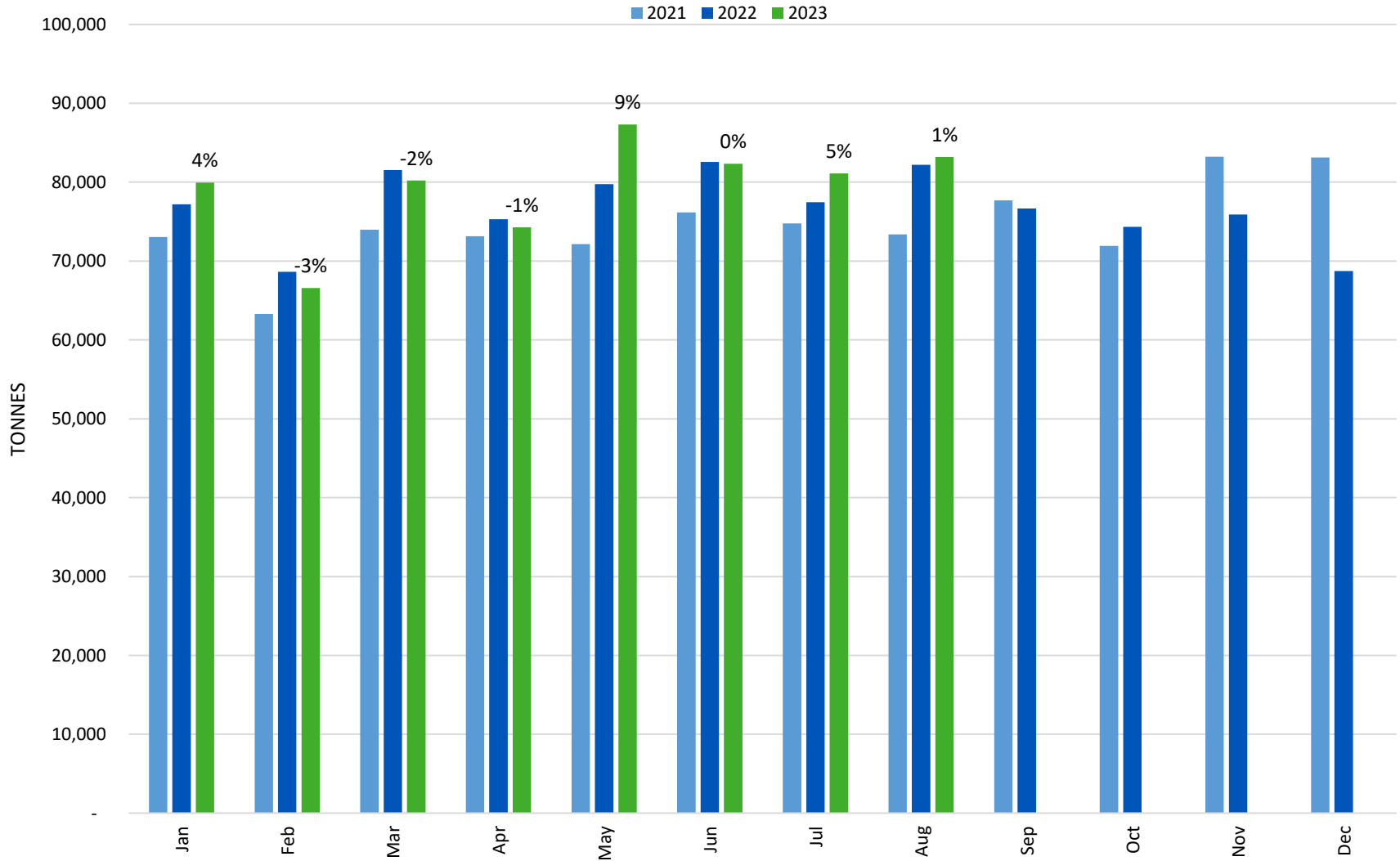
*Vancouver Landfill & Vancouver South Transfer Station

Metro Vancouver and City of Vancouver Waste Quantities

2021 - 2023*

(Demo garbage not included)

YTD % Change: 2%



*Metro Vancouver data reconciled to Jul 2023

Solid Waste and Recycling Industry Advisory Committee 2023 Draft Work Plan

Report Date: Sept 12, 2023

Priorities	
1st Quarter	Status
2021 Solid Waste and Recycling Annual Report	Complete
Call for Submissions for 2023 IAC Membership	Complete
Jurisdictional Scan of Recycling Statistics and Methodologies	Complete
Regional Solid Waste System Assessment Study	Complete
2nd Quarter	Status
Disposal Ban Program Review report out	In Progress
IAC Co-Chair Election	Complete
Workshop 1: Solid Waste Management Plan Update Vision and Guiding Principles	Complete
Zero Waste Committee/Public and Technical Advisory Committee Co-Chair Report out on Industry Advisory Committee Activities	In Progress
3rd Quarter	Status
2022 Disposal Ban Program Update	In Progress
2022 Waste Composition Program Results	In Progress
National Zero Waste Council Presentation on Incorporating Input in the Solid Waste Management Plan Update	Pending
Roles of public and private sector in providing essential solid waste management services and advancing zero waste and the circular economy – potential workshop topic	Pending
Solid Waste Regulatory Framework	In Progress
Solid Waste Residual Management Options Study Update	Pending
Workshop 2: Topics to be determined	Pending
4th Quarter	Status
Circular Economy/ 3Rs Study	Pending
Metro Vancouver Procurement process – Presentation and Discussion	Pending
Recycling statistics – Presentation and Discussion	Pending
Solid Waste Management Plan Update – Guiding Principles Report Back	Pending
Solid Waste Services 2024 Budget and Capital Plan	In Progress
Solid Waste Services Financial Plan/2024 Proposed Garbage Tipping Fees	Pending

From: [Jamie Kaminski](#)
To: [Metro Vancouver - Solid Waste](#)
Subject: Re: June 6 - IAC Workshop Summary
Date: Wednesday, July 12, 2023 10:01:50 AM
Attachments: [zero_waste_europe_advisory-statement_why-co-incineration-of-waste-is-not-Taxonomy-compliant-and-should-be-excluded.pdf](#)

WARNING: *This email originated from outside of our organization. Do not click any links or open attachments unless you trust the sender and know the content is safe.*

Thank you for putting this together.

I have two comments regarding this.

1) I would like to see reuse, repair refill included throughout, such as in accessibility and inclusivity ensuring that we are working to make reuse, refill, repair systems more accessible and inclusive. Same goes for Convenience, consistency and simplicity. We also want to make sure that reuse, refill, and repair are not lumped in with recycling.. it is not an either or situation. We need to extend the life of products, materials, and packaging through reuse, repair and refill, but also make those products recyclable at the end of their useful life.

2) Under Accountability I would like to stress that we need to ensure that we are properly classifying how waste is being managed in accordance with commonly accepted classifications. Please see a supporting report that provides important reasons why converting waste into RDF or engineered fuel should not be classified as recycled or diverted. Doing such restricts or at the least, discourages progress towards re-designing products, packaging and their systems of collection, handling, process, and distribution, that would extend the life of the products, materials and packaging.

Sincerely,

Jamie Kaminski, Zero Waste Associate & True Advisor

President

pronouns (he/him/his)

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HSR Zero Waste

Head Office: (604) 464-0242



Why co-incineration of waste is not taxonomy-compliant and should be excluded

Advisory statement

November 2020 – Mariel Vilella, Zero Waste Europe

In the accompanying Annex to the delegated act of the EU Taxonomy, **Zero Waste Europe has observed that the Commission deleted the recommendation from the Technical Working Group (TEG) to exclude burning Refuse-Derived Fuel (RDF) in cement plants.** The report from TEG concluded that “co-incineration of RDF has significant impacts on health and environment due to the polluting nature of the associated emissions and may undermine waste minimisation efforts”, thus undermining the purpose of the Taxonomy Regulation as explained below. **Co-incineration of RDF therefore must be excluded from the Taxonomy.**

What is co-incineration of RDF?

Co-incineration is the burning of waste — generally in the form of Refuse-Derived Fuel (although not exclusively), alongside other fossil fuels — in cement kilns or other non-traditional incinerators.

Traditionally, coal or petcoke is used in these kilns, but in the past decades, many “alternative fuels” have been used. Today, almost all large cement and building material producers use waste as a fuel, substituting more than 70% of their heat needs (see Table 1). In fact, **the cement industry worldwide is seeking to increase the use of alternative fuels in the production of cement** to decrease energy dependence on conventional fossil fuels and appear to be mitigating their GHG emissions. CEMBUREAU, the European Cement Association, has expressed strong interest in expanding the use of waste from cement kilns to generate fuel, to the point of generating targets that aim to use 60% ‘alternative fuels’ containing 30% biomass in 2030, and 90% alternative fuels with 50% biomass by 2050.¹

Waste type used as alternative fuel	Holcim	Cemex	Heidelberg	Italcementi	Lafarge
Waste oil	5		3.7	8.5	22.1
Solvent and liquid waste	11		4.7	21.9	
Tires	10	16	11.6	14.9	19.7
Impregnated sawdust	6				
Plastic	9		26.4	4.7	33.1
Industrial and household waste (solid)		65		13.8	
Industrial waste and other fossil-based fuel	30				
Meat and bone meal	2	4	6.1	15.7	
Agricultural waste	9	10	4.2	11.1	
Wood chip and other biomass	15	5	24.5		25.1
Sewage sludge	2		4.1	1.7	
Other alternative fuel			14.6		

Table 1. Breakdown of percentage of substitution of heat needs and type of waste as fuel by the largest international cement companies/groups. Source: Increasing the use of alternative fuels at cement plants: International best practice, IFC, 2017

¹ lowcarboneyconomy.cembureau.eu/carbon-neutrality/our-2050-roadmap-the-5c-approach-clinker

However, a closer look at so-called alternative fuels e.g. RDF shows that, in fact, these fuels are not green or sustainable. The typical composition of RDF made from mixed waste contains: 31% plastic, 30% unknown, 13% paper, 14% textiles, and 12% wood.² In this sense, **the term “alternative fuel” has often been used to disguise the fact that this “fuel” is actually of fossil origin,** made of waste tires, plastics, and petrochemical waste (waste paint, etc). The fact that a large portion of these fuels are in fact plastic, shows how the cement industry is still using fossil fuels to cover the heat needs of co-incineration.

In particular, plastic waste as fuel is an attractive option to cement kilns because it costs less (or sometimes involves no cost) than traditional fuels. In other instances, waste kiln operators can be paid to incinerate waste (including plastic waste) by other industries. Cement manufacturer Holcim has a global program called Geocycle, which acquires residual plastics from other industries to use them as fuels.³ In certain countries, and certainly within the EU Emissions Trading Scheme, industry has been able to claim carbon credits from burning waste because it purportedly reduces the use of fossil fuels.⁴

Despite cement kilns burning waste just as incinerators do, the concerned European legislation (Directive 2010/75/EU, Annex VI part 4) allows higher values for total dust and NO_x emissions for cement kilns. Although it has been pointed out that dust emissions might be effectively higher when fuels made from waste are used.⁵ Moreover, there are also concerns about the use of RDF as fuel and how it can increase the emissions of heavy metals.⁶

Why should it be excluded from the Taxonomy?

1. Burning RDF in cement kilns makes climate change worse

The direct emissions of burning of 1 tonne of waste are in a range of 260–780kg CO₂ t⁻¹ waste.⁷ The calorific value of waste is highest for plastic, which is mainly fossil based, therefore, **cement manufacturing will still be using fossil based fuels.** With this knowledge, RDF cannot be considered as a low-carbon fuel. It would be environmentally irresponsible to channel and label this process as a green investment for manufacturing cement as it uses fuels that are already largely outperformed even by conventional fossil fuel sources such as gas (340gCO₂eq kWh).

2. Environmental impacts from co-incineration are severe

Like standard waste incinerators, co-incineration is known for the release of harmful pollutants into the surrounding environment, and locks in a “built to be burned” economy that relies upon dangerous fossil fuel extraction to needlessly expend virgin materials and resources.

Co-incineration of waste has significant impacts on health and environment due to the higher emissions ceiling for cement plants in comparison to dedicated waste incineration plants.⁸ Research shows that the emission of pollutants such as heavy metals, dioxins, PCB will increase with higher shares of waste in fuel.⁹

² Currie, J. (2011), The valorisation of SRF in cement kilns, Workshop and site visit: Production and utilisation options for Solid Recovered Fuels, IEA Bioenergy Task 32 and 36, Dublin, 20–21 October 2011, quoted in “La puerta de atrás de la incineración de residuos”. Greenpeace, 2012.

³ www.holcim.ph/holcim-help-tackle-philippine-plastic-pollution-challenge

⁴ www3.cec.org/islandora/en/item/2290-taking-stock-2003-north-american-pollutant-releases-and-transfers-en.pdf

⁵ zerowasteurope.eu/library/air-pollution-from-waste-disposal-not-for-public-breath

⁶ Genon, G., & Brizio, E. (2008). Perspectives and limits for cement kilns as a destination for RDF. *Waste management*, 28(11), 2375–2385.

⁷ www.researchgate.net/publication/26875721_Determination_of_reliable_CO2_emission_factors_for_waste-to-energy_plants

⁸ www.researchgate.net/publication/Air_Pollution_from_Waste_Disposal_Not_for_Public_Breath

⁹ www.sciencedirect.com/science/article/pii

Moreover, studies on co-incineration in cement plants show the environmental impacts of this practice and the lack of an appropriate monitoring systems and regulatory framework:

- The case of **Salonit Anhovo**¹⁰ shows how harmful emissions from burning waste are affecting an already heavily impacted community in Slovenia. By releasing harmful and hazardous substances in the air, the plant is polluting the area and putting citizen's health at stake.
- The case of the **Lafarge Trbovlje**¹¹ cement plant highlights a number of controversial issues in the area of waste incineration and co-incineration. As hazardous emissions threatened citizens' health in the area, civil society groups experienced restrictions to access environmental information and participate in the decision making process. The local environmental group Eko Krog led a successful legal battle that prompted the closure of the plant to fulfil national and EU environmental criteria.
- In the cement plant of **Calusco d'Adda**¹² (Italy) the partial switch from petroleum coke to waste-based fuels has substantially increased the emissions of many pollutants, which can have significant effects on human health. Local citizens have voiced their concerns about the issue, and requested an epidemiological study on the area near the cement plant in order to assess the impact of hazardous emissions on public health.

3. Legislation on co-incineration is outdated and inadequate

Zero Waste Europe has produced an analysis of the legislation concerning air pollution from waste incineration and co-incineration, where it shows that emission values for air pollution in the EU are not aligned with the targets from the World Health Organisation.¹³ Moreover in the case of co-incineration in cement kilns, the higher emission values for some air pollutants show that the legislation is insufficient to protect human health and the environment.

In practice, the case studies presented above show that **the regulatory framework for the management and control of pollution from co-incineration is not always effective and appropriately implemented**. To continue such an unsafe activity, strict monitoring and review by competent authorities is essential and will require management by professional, well informed and technically competent regulatory authorities - which is not the reality in many countries.

Given the accidents and case studies presented above, it is clear that **insufficient resources and attention is being allocated to the implementation of regulations on the co-incineration of waste, and in no case it should be branded as a sustainable activity by the EU Taxonomy**.

4. Co-incineration harms the circular economy, waste prevention, reuse and recycling

The inclusion of co-incineration as a green activity within the Taxonomy Regulation will create a perverse incentive to subvert the Waste Hierarchy and undermine the circular economy in two main ways:

- In the short-term, co-incineration creates a vacuum cleaner effect: waste that could be recycled ends up being incinerated. By creating an economic or greenwashing incentive to burn RDF, EU member states may be less motivated to implement the Circular Economy Package, which aims at ambitious targets for separate collection and recycling that would reduce the production of RDF. In the best case, it will certainly contradict and hinder that ambition.

¹⁰ www.ekokrog.org/wp-content/uploads/2019/07/Salonit-Anhovo-Case-FNL.pdf

¹¹ zerowasteurope.eu/wp-content/uploads/2019/11/zero_waste_europe_cs_burning_waste_in_cement_kilns_lafarge_trbovlje_en.pdf

¹² zerowasteurope.eu/wp-content/uploads/2019/11/zero_waste_europe_cs_calusco_dadda.pdf

¹³ zerowasteurope.eu/library/air-pollution-from-waste-disposal-not-for-public-breath

- In the long-term, co-incineration creates a lock-in effect: prevention of progressive policies on waste management. Similarly to the lock-in effect created by waste incinerators, the strong economic and reputational interests from the cement industry will become barriers to improve waste reduction, separate collection and recycling.

Conclusion

It is crucial to preserve the legitimacy of the Taxonomy Regulation and exclude the burning of RDF in cement plants for the following reasons:

- Co-incineration contributes to climate change. Cement plants burn plastic and tyres, made of fossil fuels that emit significant amounts of CO₂ when incinerated.
- Cement plants burn waste that could have otherwise been either recycled or composted. Municipalities committed to a zero waste circular economy show that up to 80-90% waste can be separated at source and reused/recycled.
- Co-incineration is not a safe way to treat toxic waste. Monitoring and reporting of burning RDF are insufficient, evidence from reported accidents show significant impacts on public health and the environment.
- Co-incineration also negatively impacts local communities. Local populations are often bearing the cost without any consultation or compensation.

For all the reasons explained above, Zero Waste Europe urges the European Commission to exclude co-incineration of RDF from the list of eligible activities for sustainable finance under the Taxonomy Regulation.

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Zero Waste Europe, November 2020



Zero Waste Europe is the European network of communities, local leaders, experts, and change agents working towards the elimination of waste in our society. We advocate for sustainable systems and the redesign of our relationship with resources, to accelerate a just transition towards zero waste for the benefit of people and planet.



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