

**METRO VANCOUVER REGIONAL DISTRICT
FINANCE AND INTERGOVERNMENT COMMITTEE**

REGULAR MEETING

Wednesday, February 10, 2021

1:00 p.m.

28th Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia

A G E N D A¹

1. ADOPTION OF THE AGENDA

1.1 February 10, 2021 Regular Meeting Agenda

That the Finance and Intergovernment Committee adopt the agenda for its regular meeting scheduled for February 10, 2021 as circulated.

2. ADOPTION OF THE MINUTES

2.1 January 20, 2021 Regular Meeting Minutes

That the Finance and Intergovernment Committee adopt the minutes of its regular meeting held January 20, 2021 as circulated.

3. DELEGATIONS

4. INVITED PRESENTATIONS

4.1 Bob Purdy, Executive Vice President, Fraser Basin Council and Steve Litke, Senior Program Manager, Watersheds and Water Resources, Fraser Basin Council

Subject: Lower Mainland Flood Management Strategy

5. REPORTS FROM COMMITTEE OR STAFF

5.1 Major Project Delivery Governance Update

That the MVRD Board receive for information the report dated February 1, 2021, titled "Major Project Delivery Governance Update".

5.2 Metro Vancouver's 2020 Zero Waste Conference

That the MVRD Board receive for information the report dated January 26, 2021, titled "Metro Vancouver's 2020 Zero Waste Conference".

¹ Note: Recommendation is shown under each item, where applicable.

5.3 Manager's Report

That the Finance and Intergovernment Committee receive for information the report dated January 27, 2021, titled "Manager's Report".

6. INFORMATION ITEMS

7. OTHER BUSINESS

8. BUSINESS ARISING FROM DELEGATIONS

9. RESOLUTION TO CLOSE MEETING

Note: The Committee must state by resolution the basis under section 90 of the Community Charter on which the meeting is being closed. If a member wishes to add an item, the basis must be included below.

That the Finance and Intergovernment Committee close its regular meeting scheduled for February 10, 2021 pursuant to the *Community Charter* provisions, Section 90 (1) (c), (g), (i), (m) as follows:

- "90 (1) A part of the meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:
- (c) labour relations or other employee relations;
 - (g) litigation or potential litigation affecting the regional district;
 - (i) the receipt of advice that is subject to solicitor-client privilege, including communications necessary for that purpose; and,
 - (m) a matter that, under another enactment, is such that the public may be excluded from the meeting."

10. ADJOURNMENT/CONCLUSION

That the Finance and Intergovernment Committee adjourn/conclude its regular meeting of February 10, 2021.

Membership:

Buchanan, Linda (C) - North Vancouver City
Dhaliwal, Sav (VC) - Burnaby
Booth, Mary-Ann - West Vancouver
Brodie, Malcolm - Richmond
Côté, Jonathan - New Westminster

Froese, Jack - Langley Township
Hurley, Mike - Burnaby
McCallum, Doug - Surrey
McCutcheon, Jen - Electoral Area A

McEwen, John - Anmore
Stewart, Kennedy - Vancouver
Stewart, Richard - Coquitlam
West, Brad - Port Coquitlam

**METRO VANCOUVER REGIONAL DISTRICT
FINANCE AND INTERGOVERNMENT COMMITTEE**

Minutes of the Regular Meeting of the Metro Vancouver Regional District (MVRD) Finance and Intergovernment Committee held at 1:02 p.m. on Wednesday, January 20, 2021 in the 28th Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia.

MEMBERS PRESENT:

Chair, Mayor Linda Buchanan*, North Vancouver City
 Vice Chair, Councillor Sav Dhaliwal*, Burnaby
 Mayor Mary-Ann Booth*, West Vancouver
 Mayor Malcolm Brodie*, Richmond
 Mayor Jonathan Côté*, New Westminster
 Mayor Mike Hurley*, Burnaby
 Mayor Doug McCallum*, Surrey
 Director Jen McCutcheon*, Electoral Area A
 Mayor John McEwen*, Anmore
 Mayor Richard Stewart*, Coquitlam
 Mayor Brad West*, Port Coquitlam

MEMBERS ABSENT:

Mayor Jack Froese, Langley Township
 Mayor Kennedy Stewart, Vancouver

STAFF PRESENT:

Jerry W. Dobrovolsky, Chief Administrative Officer
 Lauren Cichon, Legislative Services Coordinator, Board and Information Services

1. ADOPTION OF THE AGENDA

1.1 January 20, 2021 Regular Meeting Agenda

It was MOVED and SECONDED

That the Finance and Intergovernment Committee adopt the agenda for its regular meeting scheduled for January 20, 2021 as circulated.

CARRIED

2. ADOPTION OF THE MINUTES

2.1 November 18, 2020 Regular Meeting Minutes

It was MOVED and SECONDED

That the Finance and Intergovernment Committee adopt the minutes of its regular meeting held November 18, 2020 as circulated.

CARRIED

*denotes electronic meeting participation as authorized by Section 3.6.2 of the *Procedure Bylaw*

3. DELEGATIONS

No items presented.

4. INVITED PRESENTATIONS

4.1 **Olga Kuznetsova, Vice President, Financial Services and Josh Ward, Supervisor, Capital Assets and Government Funding, TransLink**

Olga Kuznetsova, Vice President, Financial Services and Josh Ward, Supervisor, Capital Assets and Government Funding, TransLink, provided an overview of the 2021 Translink Application for Federal Gas Tax Funding.

Members were provided with a presentation on the 2021 Translink Application for Federal Gas Tax Funding highlighting the summary of the scope and request, benefits, low carbon fleet strategy implementation, and rationale for propulsion choices.

Presentation material titled “2021 Application for Federal Gas Tax Funding from the Greater Vancouver Regional Fund” is retained with the January 20, 2021 Finance and Intergovernment Committee agenda.

In response to questions, members were informed about handy dart and community shuttle lifespan, road improvements, MRN, and funding.

5. REPORTS FROM COMMITTEE OR STAFF

5.1 **TransLink Application for Federal Gas Tax Funding for 2021-2023 Fleet Replacement, Elevating Devices and Charging Infrastructure**

Report dated January 8, 2021, from Mark Seinen, Senior Planner, Regional Planning and Housing Services, presenting for the MVRD Board’s consideration TransLink’s 2021 application for funding from the Greater Vancouver Regional Fund (GVRF) in accordance with Metro Vancouver’s Federal Gas Tax Fund Expenditures Policy.

It was MOVED and SECONDED

That the MVRD Board approve \$154.13 million in funding from the Greater Vancouver Regional Fund for the following transit projects proposed by TransLink in its 2021 Application for Federal Gas Tax Funding as attached to the report dated January 8, 2021, titled “TransLink Application for Federal Gas Tax Funding for 2021-2023 Fleet Replacement, Elevating Devices and Charging Infrastructure”:

1. 2022 HandyDART Vehicle Purchase – Replacement
2. 2022 Community Shuttle Purchase – Replacement
3. 2021 CMBC Service Support Vehicles – Replacement
4. 2021 BCRTC Service Support Vehicles – Replacement
5. BCRTC Elevating Devices – Elevators
6. BCRTC Elevating Devices – Escalators
7. 2023 Conventional Bus – Replacement

8. Port Coquitlam Transit Centre Facility Improvements for Phase 2 Expansion

CARRIED

5.2 2021 Finance and Intergovernment Committee Priorities and Work Plan

Report dated December 15, 2020, from Jerry W. Dobrovlny, Commissioner/Chief Administrative Officer, providing the Committee with the priorities and work plan for the year 2021.

It was MOVED and SECONDED

That the Finance and Intergovernment Committee endorse the work plan as presented in the report dated December 15, 2020 titled "2021 Finance and Intergovernment Committee Priorities and Work Plan".

CARRIED

5.3 Authorization to Attend Virtual 2021 Standing Committee Events

Report dated January 6, 2021, from Chris Plagnol, Corporate Officer, seeking approval of the 2021 events and conferences, that were identified as part of the Board approved budget, which will authorize remuneration for those members approved to attend.

It was MOVED and SECONDED

That the Finance and Intergovernment Committee approve virtual attendance at the following events within the 2021 Leadership and Engagement program:

- Air and Waste Management Association Conference
- Air Quality and Health Workshop
- APA National Planning Conference
- American Water Works Association Annual Conference
- BC Recreation and Parks Association Symposium
- BioCycle Conference
- Canadian Housing and Renewal Association National Congress
- Canadian Institute for the Administration of Justice Annual Conference
- Canadian Institute of Planners
- Housing Central Conference
- National Recreation and Parks Association Annual Conference
- Rail~Volution
- Recycling Council of BC Conference and Trade Show
- Renewable Cities Conference
- Solid Waste Association of North America Conference and Trade Show
- Special Parks District Forum
- Water Environment Federation Technical Exhibition and Conference
- Additional events approved by the Board Chair that align with the priorities of the appropriate standing committee.

CARRIED

5.4 Manager's Report

Report dated January 4, 2021, from Jerry Dobrovolny, Commissioner/Chief Administrative Officer, provided the Committee an update on the upcoming Board workshop and sub-regional forums on systemic racism.

It was MOVED and SECONDED

That the Finance and Intergovernment Committee receive for information the report dated, January 4, 2021, titled "Manager's Report".

CARRIED

6. INFORMATION ITEMS

No items presented.

7. OTHER BUSINESS

No items presented.

8. BUSINESS ARISING FROM DELEGATIONS

No items presented.

9. RESOLUTION TO CLOSE MEETING

It was MOVED and SECONDED

That the Finance and Intergovernment Committee close its regular meeting scheduled for January 20, 2021 pursuant to the *Community Charter* provisions, Section 90 (1) (c), (m) and 90 (2) (b) as follows:

"90 (1) A part of the meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:

(c) labour relations or other employee relations;

(m) a matter that, under another enactment, is such that the public may be excluded from the meeting; and,

90 (2) A part of a meeting must be closed to the public if the subject matter being considered relates to one or more of the following:

(b) the consideration of information received and held in confidence relating to negotiations between the regional district and a provincial government or the federal government or both and a third party."

CARRIED

10. ADJOURNMENT/CONCLUSION

It was MOVED and SECONDED

That the Finance and Intergovernment Committee adjourn its regular meeting of January 20, 2021.

CARRIED

(Time: 1:36 p.m.)

Lauren Cichon,
Legislative Services Coordinator

Linda Buchanan, Chair

To: Finance and Intergovernment Committee

From: Cheryl Nelms, General Manager, Project Delivery

Date: February 1, 2021 Meeting Date: February 10, 2021

Subject: **Major Project Delivery Governance Update**

RECOMMENDATION

That the MVRD Board receive for information the report dated February 1, 2021, titled “Major Project Delivery Governance Update”.

EXECUTIVE SUMMARY

Metro Vancouver plans for, and implements, significant capital infrastructure projects related to liquid waste and water services for the region. An external expert advisory committee is being established to provide independent advice related to the planning and implementation of major water and liquid waste capital projects. Committee members will have valuable and relevant business, governance and construction oversight experience to augment skills and experience held by Metro Vancouver staff. The input received from the committee will be advisory in nature.

PURPOSE

To provide a governance update for the delivery of Metro Vancouver’s major capital infrastructure projects and present the draft terms of reference for a new major project external expert advisory committee.

BACKGROUND

Metro Vancouver is in the process of planning for, and implementing, a number of significant capital infrastructure projects related to liquid waste and water services for the region. These projects represent a significant component of the capital expenditures for Metro Vancouver for the next several years.

To date, oversight of these projects has been undertaken by three MV Board standing committees: Liquid Waste, Water, and Finance and Intergovernment. Going forward, Finance and Intergovernment Committee will provide oversight of major capital projects on behalf of the MVRD Board to ensure integrated and coordinated oversight of these projects and related expenditures. This is reflected in Finance and Intergovernment Committee’s revised terms of reference (“Providing governance and oversight over key major projects”).

To assist management, committee and Board in implementing these projects an external expert advisory committee will be established.

External Expert Advisory Committee

Draft terms of reference for the external expert advisory committee have been prepared (Attachment 1).

The advisory committee will provide construction oversight experience to augment skills and experience that currently exist within Metro Vancouver management. On behalf of, and reporting to, the General Manager, Project Delivery, the advisory committee will provide advice related to the planning, project management, risk management, reporting, stakeholder engagement, and expenditures for Metro Vancouver's water and liquid waste capital infrastructure projects. The draft terms of reference (Attachment 1) outlines the advisory committee's functions and addresses meetings, commitment, remuneration, confidentiality and conflict of interest, and membership, including appointment process.

The advice received from the external expert advisory committee will be advisory in nature. Final decision making on major capital projects rests with the MVRD Board. The relationship of the advisory committee to Board, committee and management is provided in Attachment 2: Major Project Governance Structure.

Technical Advisory Panel

In addition to the overarching External Expert Advisory Committee, many projects will also establish a project specific Technical Advisory Panel, which typically consist of 3 to 5 broadly recognized engineering experts in their field, who provide independent expert opinions on challenging design and construction issues to the Metro Vancouver, resulting in better project outcomes. See Attachment 2.

ALTERNATIVES

No alternatives are provided. This is an information report.

FINANCIAL IMPLICATIONS

Remuneration to committee members will be allocated to major capital infrastructure projects.

CONCLUSION

An external expert advisory committee is being established to provide independent advice related to the planning, project management, risk management, reporting, stakeholder engagement, and expenditures for Metro Vancouver's major water and liquid waste capital infrastructure projects. Draft terms of reference for this advisory committee have been prepared (Attachment 1). Committee members will have valuable and relevant business, governance and construction oversight experience. The draft terms of reference outline the advisory committee's role, functions and addresses meetings, commitment, remuneration, confidentiality and conflict of interest, and membership, including appointment process.

Attachments

1. External Expert Advisory Committee Draft Terms of Reference (*Doc# 43628981*)
2. Major Project Governance Structure (*Doc# 4362374*)

Terms of Reference

**Metro Vancouver Major Capital Projects
External Expert Advisory Committee**

Background

Metro Vancouver is in the process of planning for, and implementing, a number of significant capital infrastructure projects related to liquid waste and water services for the region. These projects will represent a significant component of the capital expenditures for Metro Vancouver for the next several years.

To date oversight of these projects has been undertaken by three different Metro Vancouver Board standing committees: Liquid Waste, Water, and Finance and Intergovernment. In order to ensure integrated and coordinated oversight of these projects and related expenditures, the Finance and Intergovernment Committee will provide oversight of major capital projects on behalf of the Board going forward.

To assist management to successfully implement these projects an External Expert Advisory Committee is being established. These Terms of Reference set out the roles, responsibilities and functions of the External Expert Advisory Committee (Advisory Committee).

Purpose

The purpose of the Advisory Committee is to provide impartial advice to assist Metro Vancouver management to successfully implement its major capital projects. The Advisory Committee will include members that have valuable relevant business insights and capital project oversight experience in key areas where there are currently gaps in that expertise within Metro Vancouver management.

Role of Advisory Committee members

Advisory Committee members will exercise their professional expertise and judgement to provide advice on the planning and implementation of projects in accordance with the vision and goals that the Board has established for its water and wastewater capital projects.

Functions

On behalf of, and reporting to, the General Manager, Project Delivery, the Advisory Committee will provide advice and guidance related to:

- planning, project management, site acquisition and expenditures for MV water and liquid waste capital infrastructure projects;
- development of a decision-making framework, business priorities and resource approval;
- performance measures and targets;
- appropriate project controls and reporting procedures;
- project scope, schedule and budget as projects proceed through planning, procurement and implementation phases, with particular attention to risk identification and risk management.
- resource requirements, including legal, financial or other advisory functions;

- resolution of material issues that may arise over the course of projects;
- reporting materials developed for the Finance and Intergovernment Committee and the Board;
- communication and engagement with project stakeholders;
- communication and engagement with local governments, including Indigenous governments.

Meetings

The Advisory Committee will meet monthly or as required, but no less frequently than once in each calendar quarter. In addition, time may be required for site visits and community consultation meetings. Advisory Committee members are expected to prepare for and attend all advisory committee meetings.

The General Manager, Project Delivery will call Advisory Committee meetings and issue agendas. Where possible, agendas and background materials will be provided to members at least 48 hours prior to the meeting.

Commitment

All Advisory Committee members should be fully committed to the success of the projects. They should be committed to the importance of sound governance within the advisory committee and be ready, willing and able to put in the required time to learn their role, get to know the projects and the stakeholders, prepare for meetings and participate fully as part of the Advisory Committee.

Diversity

The Advisory Committee should be made up of individuals who, collectively, bring diverse views and perspectives to the issues at hand.

Confidentiality and Conflict of Interest

Information that is provided to the Advisory Committee in confidence, or that is by its nature confidential, will be treated in confidence by members and not disclosed to third parties (including their own employer or any other organization with which the member has a relationship). The duty to maintain information in confidence continues after an Advisory Committee member ceases to be an Advisory Committee member.

Advisory Committee members will declare any relevant personal, academic, professional or business interests on an ongoing basis. The General Manager, Project Delivery shall be responsible for the management of any conflicts of interest. Advisory Committee members may be excluded from the Advisory Committee or from consideration of specific items in which they have an interest where this is necessary to avoid a conflict (real or perceived).

Membership

Membership of the Advisory Committee will be determined by the General Manager, Project Delivery. The CAO will be an ex-officio member of the Advisory Committee.

The Advisory Committee will have no fewer than four (4) and no more than nine (9) members who as a group demonstrate the following skills and expertise:

- Unquestioned integrity
- Strategic, broad thinker
- Commercial judgement and sound business instinct and acumen
- Construction knowledge
- Extensive hands-on leadership of successful, large-scale public infrastructure projects
- Experience in financing projects of similar size and scope
- Deep experience in negotiating with project stakeholders, including contactors
- Project management
- Previous board experience and a strong understanding of governance
- Risk management
- Contract negotiations
- Genuine interest in the successful completion of projects and metro Vancouver
- Broadly recognized expert in their field
- Technical knowledge

Appointment of Advisory Committee Members

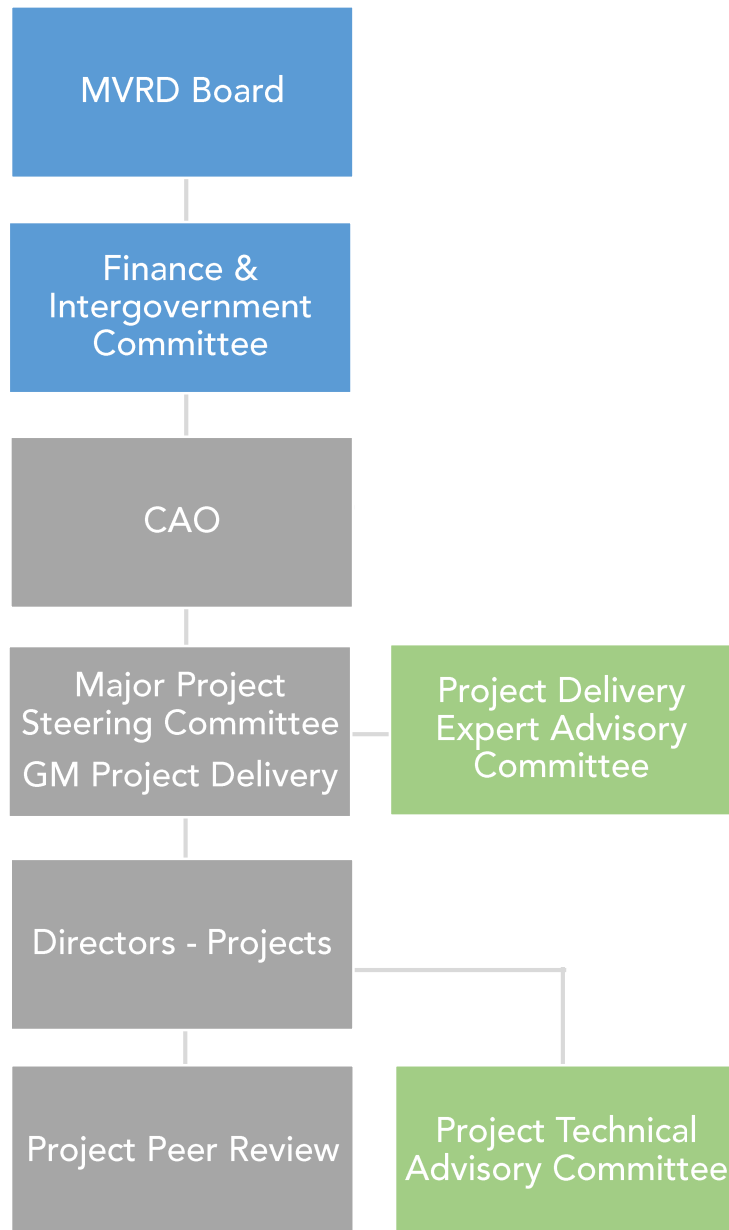
The CAO will appoint members to the Advisory Committee based on technical and subject matter expertise.

Compensation

Members of the Expert External Advisory Committee will be paid under contract based on their time spent on developing and providing advice to Metro Vancouver.

43628981

MAJOR PROJECT GOVERNANCE STRUCTURE



LEGEND

- Fiduciary (elected officials)
- Metro Vancouver staff
- Advisory (external)

To: Finance and Intergovernment Committee

From: Heather Schoemaker, General Manager, External Relations
Ann Rowan, Division Manager, Collaboration and Engagement, External Relations

Date: January 26, 2021 Meeting Date: February 10, 2021

Subject: **Metro Vancouver's 2020 Zero Waste Conference**

RECOMMENDATION

That the MVRD Board receive for information the report dated January 26, 2021, titled "Metro Vancouver's 2020 Zero Waste Conference".

EXECUTIVE SUMMARY

For the first time Metro Vancouver's annual Zero Waste Conference was a virtual event; as it will be in 2021. Celebrating its tenth anniversary, the conference delivered the same strong program it is renowned for but in a unique television studio experience. The program was anchored by four compelling and thought-provoking keynotes and a keynote discussion on solving the plastics challenge. Interspersed through the day were spotlights on innovators, entrepreneurs and practitioners in zero waste practices and policies as well as an armchair discussion on "build back better." The overwhelming response from participants was that the 2020 Zero Waste Conference was one of the best – virtual or otherwise. Total number of participants was 501, compared to 530 in 2019. Key take-away from the conference is that we stand at an important cross-roads – a return to the past or to a more circular future. The urgency for the latter comes from science as do many solutions. Within the marketplace, new collaborations will be important with governments and other key stakeholders creating the environment for innovation to thrive.

PURPOSE

To provide the Finance and Intergovernment Committee an overview of Metro Vancouver's tenth annual Zero Waste Conference: *A Future without Waste: Resiliency, Prosperity, Carbon Neutrality - the Circular Economy Solution* held virtually on Friday, November 13, 2020 at the Annacis Research Centre.

BACKGROUND

Metro Vancouver's annual Zero Waste Conference is designed to inform and inspire regional and national stakeholders who can be engaged in actions that will deliver on the waste reduction and prevention goals of the *Integrated Solid Waste and Resource Management Plan*. Effective action on waste prevention requires cross-sectoral collaboration at a geographical scale larger than the region; including changes in design and materials used in production, promoting behaviour change, and aligning policies across jurisdictions. Connections made through the National Zero Waste Council to thought leaders and change agents involved in identifying, promoting and adopting waste prevention measures and opportunities to transition to the circular economy are essential to the development of the Conference program and the conference is delivered in collaboration with the Council. The development of a strong program attracts participants from all levels of government and the private

sector, as sustainability practitioners, students and researchers within the region, and increasingly across Canada and globally. Through knowledge exchange and networking at the Conference, strong and informed advocates for advancing waste prevention and the transition to a circular economy in Metro Vancouver and across Canada is fostered.

This report summarizes key aspects of the 2020 Zero Waste Conference.

2020 ZERO WASTE CONFERENCE

Planning in early 2020 for the annual Zero Waste Conference began with the assumption that it would be a day and half event hosted at the Vancouver Convention Centre where more than 500 participants would convene for thought-provoking and inspiring keynotes and panels. As was the experience of most event planners in 2020, this was not to be. Planning for the conference transitioned from a totally in-person event to a mostly virtual event with a small studio audience to a completely virtual event held on one day and broadcast from a studio constructed in the Annacis Research Centre.

While the format changed, the quality of the programming did not change. The program was anchored by strong and inspiring keynotes interspersed with small dynamic panels showcasing entrepreneurs, innovators and pioneering practitioners in waste prevention and circular solutions. In the Annacis Research Centre, staging was created similar to that of a news broadcast creating an environment very different from the virtual conference calls and webinars that had become a very common, and similar, format by the end of 2020.

Program Highlights

Metro Vancouver's Zero Waste Conference is renowned for a curated program of thought-leaders, innovators and decision-makers committed to waste prevention and accelerating the transition to a circular economy, and this year's conference was no exception. The day-long program was anchored by four compelling and thought-provoking keynotes and a keynote discussion focused on solving the plastics challenge. Interspersed through the day were spotlights on innovators, entrepreneurs and practitioners in zero waste practices and policies as well as an armchair discussion on "build back better."

The opening keynote was Beau Lotto, a Professor of Neuroscience and Founder & CEO of the Lab of Misfits who acknowledged how disquieting change can be but urged participants to reclaim the sense of awe we had in our youth in order to see the opportunities presented by disruption. The next keynote was Suzanne Lee, a fashion designer and pioneer of 'biofabrication.' The latter is an approach to materials production that involves weaving together new understandings from science with design to reinvent the way we make everything from shirts to couches to buildings. Maintaining a focus on materials, the program moved to a discussion of the urgency of taking ambitious and concerted actions to implement circular solutions and innovation in the design of plastic products. The discussion involved Peter Schiefke, Parliamentary Secretary to the Minister of Environment and Climate Change Canada, Dr. Chelsea Rochman, a leading scientist in marine ecology, and Horacio Barbeito, President & CEO of Walmart Canada, who shared how Canada could and must rise to the challenge of tackling plastic pollution in one generation.

The afternoon began with Michael Green, an award-winning architect, who questioned traditional ways of designing and constructing buildings and presented examples of innovative approaches in creating a built environment that results in less waste and an enhanced human experience in urban spaces. The closing keynote was Katie Treggiden, a storyteller and designer, who shared numerous examples of how craftspeople are collapsing the distinction between materials and waste ideas and turning waste streams into material “pipelines.” Even though it was midnight in England when Katie came into the Conference, she effectively pulled ideas generated throughout the day into a compelling and positive argument for seizing opportunities to build a better future for our communities and the planet through a transition to a circular economy.

In terms of spotlight sessions, following the opening keynote four circular economy entrepreneurs and innovators shared their stories of following their passions and finding commercial success. In the next generation materials session, the spotlight was on two innovators who shared their experiences in developing products derived from materials in nature while conserving natural ecosystems. The speakers in the spotlight on the built environment identified new technologies, methods and materials that provide opportunities to vastly decrease the waste and greenhouse gas emissions generated in creating and maintaining urban environments. The “Build Back Better” session engaged four Canadian thought leaders in a discussion of how the COVID-19 pandemic revealed systemic problems in our economy as well as the opportunities to forge a new, more resilient and equitable future. The path to this future included seizing opportunities as they present themselves, building local economies and supply chains, facilitating the potential of an indigenous economy in Canada, supporting businesses that adopt circularity principles, and charting a recovery plan that aligns with important global initiatives on equity, environment and economic issues.

The attachment provides the full program for the 2020 Zero Waste Conference and the biographies of the keynotes, speakers and moderators.

The conference host and moderators play a critical role in the success of the conference interacting with and facilitating the keynote and spotlight sessions, finding those unique threads, sensing the audience interest, for asking speakers to elaborate on key points and providing the opportunity for audience engagement. Vanessa Timmer, Co-Founder and Executive Director, One Earth returned once again as the conference MC and was joined by moderators Kathryn Gretsinger, Associate Professor at UBC School of Journalism, Writing and Media, Chris Henderson, Chair, GLOBE Series and Executive Director, Indigenous Clean Energy and Brock Carlton, former CEO, Federation of Canadian Municipalities.

As in the past, Pigeonhole was used, a software that allows participants to post their questions using their smart phones and to vote on questions they think important. This means that the questions asked of a speaker reflects a collective rather than an individual enquiry. Reference 1 provides a link to a short video of the 2020 ZWC highlights.

Key take-away messages from the 2020 Conference were:

- While science has been providing the clarion call for urgent and effective action to reduce the negative environmental implications of resource extraction as well as the generation of waste

(including plastics) and pollution (including greenhouse gas emissions), science is also key to solutions, including the identification of new bio-based materials.

- Waste is a category, not a fact; that is, there are many opportunities to take materials that are generally considered waste or residuals from one industry that can actually be used in another.
- Innovation in terms of processes and products that create value in the marketplace continue to emerge and thrive, even during a world-wide pandemic.
- The transition to the circular economy will be built through collaboration across different industry sectors, scientists and financial institutions. Governments at all levels need to recognize the economic, social and environmental potential of these collaborations and create the regulatory and policy environments conducive for these collaborations to thrive.

Audience/Networking

The total number of participants for the 2020 Zero Waste Conference was 501; compared to last year's conference with 530 participants, with the number of participants over the course of the day staying relatively constant between 450 and 480 – a significant achievement with a virtual environment.

According to the information provided at registration, 34% of the participants were from the private sector (from start-ups to corporate brands), 28% were from government (elected officials and staff), 14% were from the non-profit/NGOs, 10% had an academic affiliation, 3% were interested members of the public and 12% did not report an affiliation. This is a very similar distribution to prior years. The number of Metro Vancouver Directors registered for the 2020 Zero Waste Conference was 20.

In moving to a virtual conference, the general registration fee was reduced from \$495 to \$150 and from \$150 to \$89 for students. This is the first year that an honour system was used for those who registered using the student fee - individuals were required to provide their student number. There was a total of 62 student registrants, a number that exceeds the number claiming to have an academic affiliation.

Marketing

The Zero Waste Conference has a modest budget for marketing. In 2020, efforts were focused on digital opportunities targeting audiences interested in waste prevention and the circular economy and because of the virtual nature of the conference, the geographic scope was expanded. Nothing allocated to print media. Given the shifting of the conference to an eventual virtual environment, the digital marketing campaign was relatively short, 10 weeks, and achieved 2.3 million impressions. Facebook ads reached over 318,000 people in Canada and the US with an average frequency of 3.8 and LinkedIn reached almost 118,000 people in Canada, the US and Europe with an average frequency of 4. The learning on marketing for 2021 is a longer marketing campaign with a tighter geographical scope; for instance, focusing on metropolitan areas as opposed to provinces.

In addition, e-vites and the conference blog – a mainstay of marketing and engaging audiences with the conference - were sent on a regular basis to existing Metro Vancouver, National Zero Waste Council and Conference databases providing updates on the program and speakers. These e-vites were also posted on association notice boards and newsletters such as the Federation of Canadian

Municipalities and redistributed to the mailing lists of the Globe Foundation, PAC Packaging Consortium and various chambers and boards of trade.

There were 366 hashtag mentions of the Conference between October 1 and November 16; with @MV gaining 184 new followers after the Conference. The Zero Waste Conference blog is used to promote the Conference but also to stimulate thinking and discussions on waste prevention and the circular economy before and after the Conference. Twenty-two blogs were published in 2020 and between August and November and the blog resulted in more than 2,400 site visits.

Social and Earned Media

While social media continues to be an important outreach and engagement platform for the Conference, conventional media interest and coverage of the Conference also plays an important role. In 2020, there were 77 on-line and print earned media stories as well as 24 broadcast stories on radio and TV. The focus of most of the stories was the keynote discussion on the urgency of addressing the plastics challenge and Government of Canada's announcement of a \$2 million investment into research made at the Conference. The highlight in 2020 was a Black Press story that was syndicated by Canadian Press/Associated Press, with over 60 publications picking it up. The story carried quotes from Peter Schiefke, Parliamentary Secretary to the Minister of Environment and Climate Change, ecological researcher Dr. Chelsea Rochman, and Walmart Canada's president and CEO, Horacio Barbeito. The Vancouver Sun and the Province ran very similar stories. Reference 2 provides a link to the Black Press story.

Ongoing Knowledge Sharing - Zero Waste Conference Website

The Zero Waste Conference website is maintained throughout the year and provides participants and other interested individuals access to videos from the keynotes, panel discussions and question and answer sessions in addition to the blog. Also included are previous year conferences resulting in a treasure trove of information as well as a marker of how the discussion of waste prevention and the transition to the circular economy is evolving in Canada. Reference 3 provides a link to these videos.

Sponsorships

While registration fees are the main source of funds to augment the Zero Waste Conference budget, the opportunity for sponsorships was introduced in 2018 - sponsorships from organizations that are aligned with the importance of waste prevention and a transition to a circular economy. Unfortunately, it was difficult to explore sponsorships until the format for the Conference was assured. Long-time sponsor, the Canadian Stewardship Alliance was our sole sponsor in 2020 for \$5,000.

NEXT STEPS

The 2021 Zero Waste Conference will take place October 28th and it has already been determined that it will once again be a virtual forum. This decision eliminates the uncertainty regarding venue and format thereby allowing more time to focus on programming, staging and marketing. It is anticipated that the focus will continue to be on the opportunities for moving towards a circular economy as well as linking action on circular economy to the pressing issue of effective action on climate change. A report by the Ellen MacArthur Foundation establishes the link between deep cuts in greenhouse gas emissions and the transition to a circular economy.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The cost to host the 2020 Zero Waste Conference was \$275,826. It was funded by Metro Vancouver Regional District Requisitions in the amount of \$212,000 as well as \$64,268 from a combination of Conference registration fees and sponsorships.

CONCLUSION

In 2020, the 10th annual Zero Waste Conference was an entirely virtual event; essentially the same number of participants were engaged as previous years for a day-long event on November 13th that was broadcast from the Annacis Research Centre. The program was anchored by four compelling and thought-provoking keynotes and a keynote discussion on solving the plastics challenge. Interspersed through the day were spotlights on innovators, entrepreneurs and practitioners in zero waste practices and policies as well as an armchair discussion on “build back better.” The use of the Annacis Research Centre meant the venue and catering costs associated with a large in-person conference were significantly reduced which meant the price of registration could also be reduced. However, there was no compromise on the quality of programming and in fact, by creating essentially a television studio, the look and feel of the Zero Waste Conference was very different from the teleconferencing environment that has become the norm under COVID-19 restrictions. The overwhelming response from participants was that the 2020 Zero Waste Conference was one of the best – virtual or otherwise; the speakers were excellent – both thought-provoking and inspiring and generated an interesting exchange of ideas. The total number of participants for the 2020 Zero Waste Conference was 501 with on-line participation staying above 450 throughout the day and the exchange between participants was lively.

Attachment:

2020 Zero Waste Conference -- *A Future without Waste: Resiliency, Prosperity, Carbon Neutrality - the Circular Economy Solution* Program and Speaker Bios

References:

1. Highlights of 2020 Zero Waste Video: <https://vimeo.com/483240287>
2. Black Press Story on “Fed offers \$2.3 million for plastics-based scientific research”:
<https://www.bccolocalnews.com/news/fed-offers-2-3-million-for-plastics-based-scientific-research/>
3. Videos of presentations from the 2020 Zero Waste Conference:
<http://www.zwc.ca/sessions/Pages/default.aspx>



Attachment

2020 Zero Waste Conference

Vancouver, November 13, 2020

Virtual Conference

A Future Without Waste: Resiliency, Prosperity, Carbon Neutrality - the Circular Economy Solution
Presented by Metro Vancouver and the National Zero Waste Council

PROGRAM

Conference MC: [Vanessa Timmer](#), Co-Founder and Executive Director, One Earth and Board Member, National Zero Waste Council

Disruptive times can kindle the flames of creativity and innovation. This year's conference spotlights how the circular economy is already transforming the ways we produce, use and circulate goods and services. Change-makers are designing out waste, keeping valuable materials in circulation and regenerating natural systems while creating new economic opportunities and opening the doors to a more inclusive prosperity.

8:30 am WELCOMING/OPENING REMARKS

- [Sav Dhaliwal](#), Chair, Metro Vancouver Board
- [Malcolm Brodie](#), Chair, National Zero Waste Council
- Representative, Government of Canada
- Representative, Province of British Columbia

8:45 am OPENING KEYNOTE - BEAU LOTTO, PROFESSOR OF NEUROSCIENCE AND AUTHOR AND FOUNDER & CEO, LAB OF MISFITS

- [Beau Lotto](#), Professor of Neuroscience and Author and Founder & CEO, Lab of Misfits

Adapting and Thriving in an Ever-Changing World

Life is rapidly changing, challenging each of us to adapt to an increasingly uncertain world. But for those of us passionate about systems change and innovation, these are also times of great opportunity.

In his opening keynote, neuroscientist and entrepreneur Dr. Beau Lotto will shed light on how we can 'embrace uncertainty' to drive positive changes in our local and global communities. Using the latest in brain science, Dr. Lotto will explore the nature of innovation and offer insights into how we may use today's upheavals as a springboard to a more equitable and sustainable future.

Your ideas and questions take centre stage in an interactive session with Dr. Beau Lotto following the opening keynote.

Moderator: [Kathryn Gretsinger](#), Associate Professor at UBC School of Journalism, Writing and Media

9:30 am SPOTLIGHT ON CIRCULAR ECONOMY INNOVATORS & ENTREPRENEURS

If you've been searching for practical examples of the circular economy in action, you need look no further than the two trailblazing companies featured in this session. Learn how business leaders are forging ahead with innovative circular economy business models and finding commercial success.

- [Wanjiru Waweru Waithaka](#), Founder and CEO, Funkidz and FunHomes
- [Felix Böck](#), Founder and CEO, ChopValue Manufacturing
- [Dihan Chandra](#), Founder and Managing Director, The Spent Goods Company
- [Josephine Abate](#), Sustainability Officer, Keilhauer

Moderator: [Kathryn Gretsinger](#), Associate Professor at UBC School of Journalism, Writing and Media

10:15 am NETWORKING BREAK

Network, chat, videos and more . . .

10:30 am KEYNOTE – SUZANNE LEE, FOUNDER & CEO, BIOFABRICATE

- [Suzanne Lee](#), Founder & CEO, Biofabricate

Growing a New Paradigm:

Many of the products we use every day cause untold stress to the planet. Take clothing for example – textiles are one of the fastest growing categories of waste and the industry is responsible for staggering global carbon emissions and water pollution.

The good news is that entrepreneurs, scientists and brands worldwide are pushing the boundaries of design and manufacturing to embrace new techniques and materials that meet practical needs while reducing environmental impacts.

We welcome Suzanne Lee, fashion designer and pioneer of 'biofabrication,' a suite of production methods that weave together science, agriculture, design, 3D printing, gardening and even brewing. Suzanne takes us on a journey of microscopic organisms that can reinvent the way we make everything from clothes to couches to buildings.

Moderator: [Vanessa Timmer](#), Co-Founder and Executive Director, One Earth and Board Member, National Zero Waste Council

11:00 am SPOTLIGHT ON NEXT GENERATION MATERIALS

Moderated Discussion and Q&A

Hear how innovation in next generation materials is moving the market. From biofabrication using 'mushroom' technology to using food waste for a range of products, these innovators demonstrate the daring and commitment required to reduce waste and toxics without compromising on performance and quality.

Participants will have an opportunity to directly engage with Suzanne, Eben and Valerie in a moderated Q&A

- [Suzanne Lee](#), Founder & CEO, Biofabricate
- [Eben Bayer](#), Co-Founder and CEO, Ecovative
- [Valerie Langer](#), Fiber Solutions Strategist, Canopy Planet

Moderator: [Vanessa Timmer](#), Co-Founder and Executive Director, One Earth and Board Member, National Zero Waste Council

11:30 am BREAK

Network, chat, videos and more . . .

11:45 am KEYNOTE CONVERSATION: SOLVING THE PLASTICS CHALLENGE IN ONE GENERATION - FROM SCIENCE TO SOLUTIONS

Plastic waste has captured the world's attention, yet plastic production continues to grow as does the problem. All of the latest scientific research points to the same conclusion: we are at a critical crossroads in reducing plastic waste in the world's oceans.

Time is short – Canada must take ambitious and concerted actions now to implement circular solutions and innovation in the design of plastic products if we are to solve the plastic problem.

Join us for a keynote conversation with the Honourable Jonathan Wilkinson, Minister of Environment and Climate Change, Dr. Chelsea Rochman, a leading scientist in marine ecology, and Horacio Barbeito, President & CEO of Walmart Canada, to explore how Canada can rise to the challenge of tackling plastic pollution in one generation.

- [Peter Schiefke](#), Parliamentary Secretary to the Minister of Environment and Climate Change Canada
- [Chelsea Rochman](#), Assistant Professor in Ecology, University of Toronto & Scientific Advisor to Ocean Conservancy
- [Horacio Barbeito](#), President & CEO, Walmart Canada

Moderator: [Chris Henderson](#), Chair, GLOBE Series & Executive Director, Indigenous Clean Energy

12:30 pm NETWORKING LUNCH

1:30 pm KEYNOTE - MICHAEL GREEN, ARCHITECT & PRINCIPAL, MGA

- [Michael Green](#), Architect & Principal, MGA

Michael Green is an award-winning architect known for his research, leadership, and advocacy in promoting new technologies and techniques for construction. His keynote will challenge traditional ways of designing and constructing buildings and present examples of



innovative approaches that reduce waste and enhance our experience within the built environment.

Moderator: [Brock Carlton](#), former CEO, Federation of Canadian Municipalities

2:00 pm SPOTLIGHT ON OPPORTUNITIES IN THE BUILT ENVIRONMENT

It's easy to take buildings for granted, but the structures we occupy every day actually have tremendous implications for climate change, waste management and the circular economy.

By 2050, it's expected that 68% of the world's population will live in cities and this rapid growth will require the construction of millions of new buildings. Meanwhile, the construction industry accounts for nearly half of all global GHG emissions, and in North America, consumes about 40% of raw materials.

Speakers in this Spotlight will identify new technologies, methods and materials that offer promising opportunities to vastly decrease the waste and greenhouse gas emissions generated from the built environment.

- [Michael Green](#), Architect & Principal, MGA
- [Eric Dunford](#), Director of Sustainability, Carbon Cure
- [Amy Marks](#) - Head of Industrialized Construction Strategy and Evangelism, Queen of Prefab, Autodesk
- [Vivian Kuan](#), Executive Director, Terreform ONE

Moderator: [Brock Carlton](#), former CEO, Federation of Canadian Municipalities

2:45 pm BREAK

Network, chat, videos and more . . .

3:00 pm BUILD BACK BETTER – LET'S NOT SCREW IT UP

The COVID-19 pandemic has been revealing – we are, despite our built environments and digital fixations, part of the natural world. As we look to recovery, our work is to forge a new, more resilient and equitable future where prosperity and environmental security are assured for generations to come.

The circular economy holds great promise – it creates economic opportunities, restores the environment and fosters an ethos that aligns with equity and social justice. This session will explore how Canadians can work together to make that promise a reality.

Armchair Discussion:

- [Tima Bansal](#), Ivey School of Business, Western University & Chair, Canadian Council of Academics Expert Panel on the Circular Economy
- [Richard Florizone](#), President & CEO, International Institute for Sustainable Development
- [Carol Anne Hilton](#), President & CEO, Indigenomics Institute



- [Melissa Barbosa](#), Head of Sustainability, IKEA Canada

Moderator: [Brock Carlton](#), former CEO, Federation of Canadian Municipalities

3:45 pm CLOSING KEYNOTE

- [Katie Treggiden](#), Writer, Journalist, Speaker, championing a circular approach to design. Author of newly released book "Wasted: When Trash Becomes Treasure"

The destructive impact humans are having on the earth – land, oceans and atmosphere – is clearly apparent. Katie is a storyteller and designer and will share how she believes that craft can save the world. She will share how designers are exploring the potential of increasingly plentiful waste streams to become the raw materials of the future. When trash becomes treasure, we create space to restore nature and re-invigorate our communities.

We will close out the day with an interactive discussion with Katie and your ideas and questions.

Moderator: [Kathryn Gretsinger](#), Associate Professor at UBC School of Journalism, Writing and Media

4:25 pm WRAP UP REMARKS

2020 Zero Waste Conference

Vancouver, November 13, 2020

Virtual Conference

A Future Without Waste: Resiliency, Prosperity, Carbon Neutrality - the Circular Economy Solution

Presented by Metro Vancouver and the National Zero Waste Council

PROGRAM

CONFERENCE MC:



VANESSA TIMMER

Co-Founder & Executive Director, One Earth

Dr. Vanessa Timmer is the Executive Director of One Earth, a Vancouver, Canada-based environmental 'think and do tank' creating and imagining sustainable ways of living in cities and around the world. One Earth collaborates with partners to transform how people live their lives – what they need, what they consume and produce, and what they aspire to – enabling everyone to live good quality of lives within their fair share of our planet's resources. Vanessa is also a Senior Research Fellow at Utrecht University with Pathways to Sustainability, the Urban Futures

Studio, and the Copernicus Institute of Sustainable Development. She holds a Doctorate and studied at Queen's University, Oxford, UBC and Harvard. Vanessa sits on the Multi-stakeholder Advisory Committee for the United Nations 10YFP Sustainable Lifestyles Programme. In Canada, she is a Board member of the National Zero Waste Council and of the Vancouver Foundation Partnership Committee.

In 2018, Vanessa received the 2018 YWCA Women of Distinction Award in Environmental Sustainability.

8:30 am WELCOMING/OPENING REMARKS



SAV DHALIWAL

Chair, Metro Vancouver Board

Sav Dhaliwal was elected Chair of the Metro Vancouver Board in November 2018, following a decade as a Board Director and 16 years as City of Burnaby Councillor. He has also served as president of both the Union of B.C. Municipalities and Lower Mainland Local Government Association and worked with the Federation of Canadian Municipalities as the Chair of the Standing Committee for Municipal Finance and as well as Infrastructure and Transportation Policy.

Prior to local politics, Sav enjoyed a long career in the private sector working in information technology at TELUS. He has also served not-for-profit organizations in Burnaby, including the Burnaby Minor Hockey Association, Burnaby Sports Hall of Fame Committee, New Vista Society and the Burnaby Lions Club.

Sav has been recognized by the Government of Canada, the University of British Columbia & the Goel Family Charitable Foundation, the Fiji Association of British Columbia and the Chetna Association of Canada for his outstanding services to the Community. He and his wife, Cheryl, have lived in Burnaby for more than 40 years.



MALCOLM BRODIE
Chair, National Zero Waste Council

Malcolm Brodie has been a Board Director and Chair of the National Zero Waste Council since its inception in October 2013. He has also been a member of Council for the City of Richmond since 1996, and Mayor since 2001.

Malcolm Brodie has been appointed by his Council to the Board of Directors of Metro Vancouver and he currently is the Chair of the Water Committee, Vice-Chair of the Performance and Audit Committee and also serves on the Finance and Intergovernment Committee, the Mayors' Committee, the George Massey Crossing Task Force, and the Industrial Lands Task Force. He represents Metro Vancouver on the Municipal Finance Authority, and in

2015, was elected as Chair.

Before election to Council, Mayor Brodie was a practicing lawyer and had a long record of service to Richmond in the volunteer community.

8:45 am OPENING KEYNOTE



BEAU LOTTO
Professor of Neuroscience, University of London and Founder & Director, Lab of Misfits

Beau Lotto is the director of The Lab of Misfits, a neuroscience studio that seeks to "break down the walls of the traditional laboratory" and study humans in their natural habitats. By inviting audiences to take part in his interactive research, Lotto is able to achieve more authentic results. The goal of his work is not objectivity, but adaptability. "The most successful systems are the ones that are adaptable," Lotto explains. "Being able to have flexibility in our perception means we can adapt to a changing world." His methods, while unconventional, are deeply interactive and immersive. The measurable insights gleaned from these

experiments have led to organizational breakthroughs for clients as diverse as Cirque du Soleil, L'Oréal, and The London Science Museum.

Lotto is a professor of neuroscience at the University of London, and a visiting scholar at New York University. He is the author of *Why We See What We Do*, and *Deviate: The Science of Seeing Differently*. In addition to his role at The Lab of Misfits, Lotto is the Founder and CEO of the sound-based AR company Acoustigram. He has spoken at large-scale events such as the G8 Innovation Conference, as well as for companies like *WIRED* and Google. Lotto has contributed to television and radio documentaries produced by influential media such as the *BBC*, *National Geographic*, *Netflix* and *PBS*.



KATHRYN GRETSINGER

Associate Professor at UBC School of Journalism, Writing and Media

In addition to being a professor at the UBC School of Journalism, Writing and Media, Kathryn is a long time public broadcaster at the Canadian Broadcasting Corporation, with a record of creating award-winning work at the local and national level in Canada. Kathryn is also a Killam Teaching Prize winner and she was named as one of North America's top innovative journalism educators in 2018.

Kathryn is a respected mentor and trainer at CBC, where she continues to work consultant in the public broadcasters' Learning and Development department. She works across platforms, but her first love is audio. She leads training workshops for reporters, producers, editors and hosts on performance and audio skills including podcasting and compelling storytelling. There is a strong social justice undercurrent to Kathryn's work. Her commitment to teaching, reporting and fostering dialogue about issues of social justice, Indigenous relations and mental health appear in the courses she teaches and key collaborations.

9:30 am SPOTLIGHT ON CIRCULAR ECONOMY INNOVATORS & ENTREPRENEURS



WANJIRU WAWERU WAIHAKA

CEO and Founder, Funkidz and FunHomes

Wanjiru Waweru Waithaka is a creative entrepreneur, innovator and manufacturer from Kenya, and a graduate of Interior Architecture from the University of Glasgow's School of Art. She founded and successfully ran the interior architecture consultancy Amber Africa, where clients ranged from individuals to hotels and multinationals within East Africa.

After running Amber Africa for 10 years, Wanjiru's passion for design and manufacturing led her to create the first global children's brand from Africa - Funkidz Limited. Funkidz is an innovative children's brand that designs and manufactures products for children age 0-16 years. But it is a brand with a big story, multiple goals and exemplifies Wanjiru's commitment to creating change for entrepreneurs, especially women and youth, through experiential education and mentoring. Within the company

exists several brands, including Kidz Go Tech which focuses on transforming and leap-frogging education on the African continent by using storytelling, tech sensory learning and animation. The lack of homegrown technical skills in manufacturing in Kenya led Wanjiru to launch in 2016 an in-house Funkidz training program, designed to build the capacity of Kenyan carpenters and joiners to deliver on global manufacturing and design standards.

Wanjiru is a sought-after speaker, and award-winning entrepreneur. She has been asked to present her work by UNESCO, Facebook, and the World Economic Forum, has received awards from Goldmansachs, GSMA, and special mention and commendation by Former US First Lady Michelle Obama. In a recent COVID-19 pivot, Wanjiru has also now founded, and acts as the CEO, of a new company called FunHomes.



FELIX BÖCK

Founder and CEO, ChopValue Manufacturing

Felix Böck knocks on wood for a living. He is the founder of the ChopValue Microfactory concept where he developed and engineered an innovative material using under-utilized resources. ChopValue has allowed him to discover a way to connect his expertise and re search focus on bamboo composite materials within the circular economy while doing his PhD in a collaboration with UBC/MIT/Cambridge. Motivated to create a global impact in the bamboo industry, he has gained experience by working on projects supporting companies through all stages in over 20 countries with his firm CrossLink Technologies. He believes that leading by example with innovation and resilience will inspire others to rethink resource efficiency and reshape the future of

urbanization.



DIHAN CHANDRA

Founder and Managing Director, The Spent Goods Company

Dihan started his first social enterprise, Organic Lifestyle, to focus on promoting non-toxic alternatives for the home such as organic pillows, linens and mattresses.

While researching whether his dog's poo could be used to generate energy to power his house instead of having to pick it up, he was inspired by solutions that made revenue from plastic pollution, cementing his belief that practical solutions to reducing waste while generating profits are within our reach.

One night at his local pub Dihan asked the question we've all been too shy to ask: What happens to all the grain used to make beer? After learning that most spent grain, especially from smaller breweries, ends up in landfills, The Spent Goods Company was born.

2 years later, Spent Goods has fed over 39K families, offset 1.6 Tons of equivalent CO₂, partnered with 17 different local businesses, and directly contributed to 10 new jobs.



JOSEPHINE ABATE
Sustainability Officer, Keilhauer

Josephine manages all of Keilhauer's sustainability initiatives, successfully ensuring the company achieves zero waste to landfill, reduces their carbon footprint, and works with watchdogs and NGOs to advance the commercial manufacturing industries standards towards a more sustainable future. Abate is a graduate from the University of Western Ontario, where she acquired her Masters Degree in Environment and Sustainability with a focus on EcoBusiness Zones and Corporate Sustainability. Since then, Abate's professional focus has been reducing lifecycle impacts of manufactured items. Career highlights include introducing one of the sector's first carbon neutral

chairs, and deep supply chain management and investigation to remove prominent red-listed chemicals. Josephine has also been involved in expanding the end-of-life planning to ensure more recycled and recyclable products by 37%. Josephine has built community partnerships to support regional economics through material upcycling, targeting groups with resource and financial insecurities. She has helped Keilhauer achieve recognition as one of Canada's Greenest Employers for 4 consecutive years.

10:30 am KEYNOTE – SUZANNE LEE, FOUNDER & CEO, BIOFABRICATE



SUZANNE LEE
Founder & CEO, BIOFABRICATE

Suzanne is a designer turned pioneer of biotechnology for consumer products. She started growing materials from microbes for the fashion industry in 2003 coining the term 'Biocouture™'. Today Suzanne is the founder of Biofabricate, a global network serving the needs of biomaterial innovators, investors and consumer brands. Biofabricate's vision is 'A sustainable material world. Built with biology, not oil'.

Suzanne is the author of 'Fashioning the Future: tomorrow's wardrobe'. She is a special advisor to Parley For The Oceans on biomaterials, a TED Senior Fellow, and a Launch Material Innovator - an initiative of NASA, Nike, USAID and the US State Department. For the previous 5 years Suzanne was the Chief Creative Officer of Modern Meadow, a materials startup in New York.

11:00 am SPOTLIGHT ON NEXT GENERATION MATERIALS



EBEN BAYER

Co-Founder & CEO, Ecovative

Eben Bayer, Co-Founder of Ecovative Design, leads the biomaterials company to grow high performance, premium, award-winning products that are safe, healthy, and certified sustainable. Bayer, who grew up working on his family's Vermont farm, is a pioneer in leveraging mycelium—"nature's glue"—in Mushroom® Materials to drive sustainable innovation in the industrial sector. Eben uses biology to solve important environmental challenges by leading Ecovative to grow safe and healthy new materials as well as envisioning creative ways to use natural technology at industrial scales and in consumer applications. Eben shares his vision for a future powered by biology around the world, including presentations at TED Global,

PopTech, and Davos. Eben has led Ecovative to be widely recognized including as a World Economic Forum Tech Pioneer, a U.S.EPA Environmental Quality Award winner, and Buckminster Fuller Institute socially responsible design designee. Bayer is the primary inventor on more than 10 patents published in over 30 countries. In addition to overseeing the emergence of a new materials science at Ecovative, and promoting a more circular economy, Bayer is realizing his vision of building and operating an off-grid home and farm, while also exploring other creative uses of biology.



VALERIE LANGER

Fiber Solutions Strategist, Canopy Planet

Valerie Langer has been engaged in forest conservation campaigns for over 30 years. She works with non-profit, Canopy (www.canopyplanet.org) to accelerate globally availability of Next Generation alternatives to tree fibre pulp for manufacturing paper, packaging and viscose fabrics,. She pioneered the international market campaign strategy of influencing logging companies' practices by engaging their commercial customer base. She and her team of colleagues at Rainforest Solutions Project won the Buckminster Fuller Challenge Award for their role in the collaboration that designed the globally unique model of conservation in the Great Bear Rainforest (British Columbia, Canada). Her work has directly contributed to the conservation

of millions of hectares of biologically rich forest Valerie's focus is on large scale forest conservation by leveraging markets, investments and innovation.

11:45 am KEYNOTE CONVERSATION: SOLVING THE PLASTICS CHALLENGE IN ONE GENERATION - FROM SCIENCE TO SOLUTIONS



PETER SCHIEFKE

Parliamentary Secretary to the Minister of Environment and Climate

Peter has served as the MP for Vaudreuil-Soulanges since 2015. He is a recognized specialist in sustainable development, with over 15 years of experience in the field. Before being elected to parliament, he served as National Director of The Climate Reality Project Canada, an organization founded by Nobel Laureate Al Gore. He also co-founded the Concordia Empowerment Education Development Program based in Uganda, East Africa. For his work, he has received numerous awards and distinctions, including the YMCA Peace Medal and the Forces Avenir Award for Peace Justice and Humanitarian Aid. Peter brings a wealth of experience and perspective to the Solving the Plastics

Challenge in One Generation session.



CHELSEA ROCHMAN

Assistant Professor in Ecology, University of Toronto & Scientific Advisor to Ocean Conservancy

Chelsea received her PhD in Ecology from a joint program between University of California, Davis and San Diego State University in 2013. She then was a Smith Postdoctoral Fellow in Conservation Biology. She is currently a Sloan Fellow. She was hired as an Assistant Professor at the University of Toronto in the Department of Ecology and Evolutionary Biology in 2016. Chelsea has been researching the sources, sinks and ecological implications of plastic debris in marine and freshwater habitats for more than a decade.

She has published dozens of scientific papers in respected journals and has led international working groups about plastic pollution. In addition to her research, Chelsea works to translate her science beyond academia. For example, Chelsea presented her work to the United Nations General Assembly and at the US State Department. Moreover, she co-founded an outreach group call the U of T Trash Team.



HORACIO BARBEITO
President and CEO of Walmart Canada

Horacio “Haio” Barbeito is President and CEO of Walmart Canada. He has been with Walmart since 1995 and has worked in Argentina, the U.S., Puerto Rico and Chile. He started as a Trainee Buyer and has worked in a variety of roles throughout the company. He led Imports and Replenishment at Walmart Argentina and then became a Division Merchandising Manager for Home and Seasonal.

Horacio later transferred to Walmart International where he became Senior Director for International Replenishment, based in Bentonville, Arkansas. Following this, Horacio became Supply Chain Lead in Puerto Rico and later the Head of Puerto Rico’s Store Operations. In 2008 he returned to Walmart Argentina as Food General Merchandising Manager before becoming Chief Merchandising Officer. He was President and CEO of Walmart Argentina and Chile from 2012 to 2019.



CHRIS HENDERSON
Chair, GLOBE Series & Executive Director, Indigenous Clean Energy

Chris Henderson is a Canadian eco-entrepreneur, community leader and environmental innovator. For the past 35 years, he has led and been at the forefront of ground-breaking Canadian enterprises and local/national business, social and ecological initiatives which have global impact and resonance. Chris is a trusted and insightful commentator on economic, environment and energy issues that respect the Planet, and generate enduring outcomes for corporations, communities and Canada. Chris prime current role in advising and equipping Indigenous peoples and communities to develop and own clean energy projects to catalyze social development, economic opportunity and to combat Climate Change. His first

book *Aboriginal Power* was published in 2013.

Chris is the President of Lumos Energy, Executive Director of the Indigenous Clean Energy Social Enterprise, Founder of The Delphi Group and Board Chair of the Globe Series.



MICHAEL GREEN
Architect & Principal, MGA

Michael Green is an award-winning architect known for his research, leadership, and advocacy in promoting the use of wood, new technology and innovation in the built environment. He lectures internationally on the subject, including his TED talk, “Why We Should Build Wooden Skyscrapers.” Based in Vancouver, Canada, Michael founded MGA to create meaningful and sustainable change in building through innovation in construction sciences and design. Michael and his team are ambitiously extending the boundaries of mass timber construction, having completed some of the largest modern timber buildings in the world, including The Wood Innovation Design Centre and T3 Minneapolis. He is also the founder of DBR | Design Build

Research and TOE | Timber Online Education, a non-profit school and research platform dedicated to teaching the design and construction of socially, culturally and environmentally relevant student-led installations, with a focus in systemic change in building for climate, environment, disaster and global shelter needs.

Michael is a Fellow of the Royal Architectural Institute of Canada and has been honoured with North America’s most prestigious awards, including two RAIC Innovation Awards and three Governor General’s Medals. In 2014, Michael received an honorary doctorate degree from the University of Northern British Columbia. He is the co-author of ‘The Case for Tall Wood Buildings,’ now in its second edition, and ‘Tall Wood Buildings: Design, Construction and Performance.’ An avid traveler and adventurer, Michael has explored remote regions on every continent and loves ice climbing, mountaineering, ocean kayaking and biking.



BROCK CARLTON

Former CEO, Federation of Canadian Municipalities

Brock Carlton recently retired after 13 years as CEO of Federation of Canadian Municipalities (FCM). Brock was a leading voice in supporting the need to build strong cities and communities as a means of solving local and national challenges. As CEO, Brock led a strong staff and a united membership in advancing municipal interests by influencing both federal government decisions and national debates on issues critical to communities. Under Brock's tenure, FCM became one of the most influential organizations in Canada, influencing federal policy decisions and spending on such issues as infrastructure, affordable housing and homelessness, environment and climate change, broadband access and public transit.

Brock also played a leadership role in the global municipal movement as Secretary General of the North American Section of the United Cities and Local Governments. He has been a speaker and panelist representing Canadian municipal perspectives and experiences at numerous international events, domestic conferences and in the media. Prior to being CEO, Brock was involved in international cooperation, managing projects engaging Canadian and overseas partners focused on municipal management, environmental management, social service delivery and good governance in such diverse places as Gaza, the Czech Republic, East and Southern Africa and Guyana. He lived in Kenya (1981-2), China (1983) and Namibia (1991). He has recently completed a course on empathic leadership and is committed to using his years of experience to help build strong effective leaders for social change and good environmental stewardship. He is an avid paddler, skier and cyclist, and enjoys time with his wife and 3 adult children.

2:00 pm SPOTLIGHT ON OPPORTUNITIES IN THE BUILT ENVIRONMENT



ERIC DUNFORD

Director of Sustainability, Carbon Cure

Eric Dunford is the Director of Sustainability at CarbonCure Technologies. In this role, he oversees CarbonCure's internal sustainability initiatives, manages government relations efforts, and works with partners in the design and construction community to build awareness of low-carbon materials options and solutions. Based in Toronto, Eric is a graduate of the University of Waterloo and Dalhousie University.



AMY MARKS

Head of Industrialized Construction Strategy and Evangelism,
Queen of Prefab, Autodesk

Amy Marks is the Head of Industrialized Construction Strategy and Evangelism at Autodesk; she is known throughout the construction industry as the "Queen of Prefab." A graduate of the University of Florida and an alumna of Harvard Business School, Marks is the former CEO of XSite Modular, a leading prefabrication consultancy and design-builder of critical infrastructure buildings. As a prefabrication consultant, she defined the language and process that is adopted by companies, countries, and builders around the world. Amy was also appointed by the Singapore government's Building &

Construction Authority as an international expert to advise its construction productivity roadmap.



VIVIAN KUAN

Executive Director, Terreform ONE

Vivian Kuan is Executive Director of Terreform ONE, a non-profit architecture and urban design think tank focused on ecological design solutions for cities. Vivian has also served as adjunct faculty at Parsons in the Strategic Design and Management graduate program. Before Terreform, Vivian designed and managed large scale architecture projects in the U.S. and Asia for Kohn, Pederson, Fox Associates, and for Sun Hung Kai Properties. Vivian currently serves on the Advisory Council of Cornell's College of Architecture, Art, and Planning, on the Dean's Council of the Yale School of Architecture, and as a board member of the Cue Art Foundation. Vivian earned an MBA from the

Wharton School and an MA from the Lauder Institute, University of Pennsylvania, and a B.Arch. from Cornell University.



TIMA BANSAL

Ivey School of Business, Western University & Chair, Canadian Council of Academics Expert Panel on the Circular Economy

Tima Bansal is a Professor and Canada Research Chair, Ivey Business School, Western University (London, Canada). She is committed to researching business issues that will facilitate sustainable development and mobilizing those ideas to business practice. She founded and continues to direct the Network for Business Sustainability (www.nbs.net) and Chairs the CCA Expert Panel on the Circular Economy.



DR. RICHARD FLORIZONE

President & CEO, International Institute for Sustainable Development

Dr. Richard Florizone is President and CEO of IISD, and President Emeritus of Dalhousie University. Originally from Prince Albert, Saskatchewan, Richard has also held senior roles with the Boston Consulting Group, Cambridge University, Bombardier Aerospace, and the International Finance Corporation. Part scientist, part strategist, Richard has a strong track record of forging collaborative partnerships to build institutions and communities that are intelligent, inclusive and inspiring. He holds a Ph.D. in Physics from MIT and is a Fellow of the Canadian Academy of Engineering.



CAROL ANNE HILTON

CEO and Founder of The Indigenomics Institute and the Global Center of Indigenomics

Carol Anne Hilton, MBA is the CEO and Founder of The Indigenomics Institute and the Global Center of Indigenomics. Carol Anne is a dynamic national Indigenous business leader and senior adviser with an international Masters Degree in Business Management (MBA) from the University of Hertfordshire, England. Carol Anne is of Nuuchah-nulth descent from the Hesquiaht Nation on Vancouver Island.

Carol Anne has led the establishment of a line of thought called #indigenomics- growing from a single word to an entire movement which focuses on the re-building and strengthening of Indigenous economies. Carol Anne is the author of 'Indigenomics- Taking A Seat at the Economic Table' and is an adjunct professor at Royal Roads University School of Business.

Carol Anne served on the BC Emerging Economy the BC Indigenous Business and Investment Council and was the only Indigenous person appointed to the Canadian Economic Growth Council. Carol Anne's work has been recognized with the national Excellence in Aboriginal Relations Award from the Canadian Council for Aboriginal Business.

Carol Anne currently serves as a Director on the McGill University Institute for the Study of Canada, the BC Digital Supercluster and recently as a juror on the Canadian Smart Cities Challenge.



MELISSA BARBOSA

Head of Sustainability, IKEA Canada

For over 13 years Melissa has had the pleasure of leading change towards sustainability with diverse roles in private, non-profit, and public sectors; a range of experience that includes corporate social responsibility, academia, natural resource management, renewable energy development, and social finance. As Head of Sustainability for IKEA Canada, Melissa provides strategic and dynamic leadership working through and across the organization to facilitate the delivery of the IKEA Group People & Planet Positive Strategy; enabling the ongoing transformation and growth of the business.

3:45 pm CLOSING KEYNOTE



KATIE TREGGIDEN
Writer, Journalist and Speaker

Katie Treggiden is a purpose-driven writer and keynote speaker championing a circular approach to design – because Planet Earth needs better stories. With 20 years' experience in the creative industries, she regularly contributes to publications such as *The Guardian*, *Crafts Magazine*, *Design Milk* and *Monocle24*. She is currently exploring the question 'can craft save the world?' through an emerging body of work that includes her fifth book, *Wasted: When Trash Becomes Treasure* (Ludion, 2020), and a podcast, *Circular with Katie Treggiden*. She has launched, edited and published an award-winning design blog and an independent print magazine. She recently gained a distinction for her Master's Degree in the History of Design from the University of Oxford. She was the founder and first president of Bloom and is a Fellow of the Royal Society of Arts and a Trustee of the Leach Pottery.

4:25 pm WRAP UP REMARKS



JACK FROESE
Chair, Metro Vancouver's Zero Waste Committee

Re-elected to office in 2018, Mayor Jack Froese is currently serving his third term as Township of Langley Mayor. For 40 years, Mayor Jack Froese has lived, worked, and raised a family in Langley and was a successful business owner and farmer. He is also a retired police officer from the Vancouver Police Department. Mayor Froese is the Vice Chair of the TransLink Mayor's Council, Chair of Metro Vancouver Zero Waste Committee, and a Director on the Metro Board.

To: Finance and Intergovernment Committee

From: Jerry W. Dobrovolny, Commissioner/Chief Administrative Officer

Date: January 27, 2021 Meeting Date: February 10, 2021

Subject: **Manager's Report**

RECOMMENDATION

That the Finance and Intergovernment Committee receive for information the report dated January 27, 2021, titled "Manager's Report".

Finance and Intergovernment Committee Work Plan

Attachment 1 to this report sets out the Committee's Work Plan for 2021. The status of the Committee's key priorities is shown as pending, in progress, or complete together with the quarter that each is expected to be considered by the Committee.

Attachment

1. 2021 Finance and Intergovernment Committee Work Plan (*Doc# 42574503*)

Finance and Intergovernment Committee 2021 Work Plan

Report Date: February 10, 2021

Priorities

1st Quarter	Status
2021 Standing Committee Events	Complete
Board Strategic Planning Session	Complete
TransLink Federal Gas Tax Application	Complete
Intergovernmental Relations Strategy	Complete
North Shore Wastewater Treatment Plant Update	Complete
Project Delivery Update	In Progress
Procurement Policy Update	Pending
National Zero Waste Council Update	Pending
2020 Zero Waste Conference	In Progress
Forums on Systemic Racism Report Out and Next Steps	Complete
Cost Allocation for Sewer Heat Recovery Opportunities to Reduce GHG Emissions	Pending
Litigation Updates	In Progress
Fraser Basin Council Update	Pending
Lower Mainland Flood Management Strategy Update	Pending
Poplar Landing Update	Pending
Intergovernmental Communications and Engagement Update	Pending
Metro Vancouver Comments on from External Agency Projects (As Required/Applicable)	Pending
Board Policies (As Required/Applicable)	Pending
2nd Quarter	
Vancouver Airport Authority Update and Board Appointment	Pending
Resilient Region Strategic Framework	Pending
Waste-to-Energy Facility District Energy	Pending
Burrard Inlet Environmental Action Program – Fraser River Estuary Management Program (BIEAP – FREMP) Partnership Update	Pending
2020 Statement of Financial Information	Pending
Status of Reserves	Pending
Major Project Updates	Pending
Project Delivery Update	Pending
Municipal Finance Reform Update	Pending
Intergovernmental Communications and Engagement Update	Pending
UBC Cliff Interagency Steering Committee Update	Pending
Major Projects from External Agencies (As Required/Applicable)	Pending
Board Policies (As Required/Applicable)	Pending
3rd Quarter	
Environmental, Social and Governance (ESG) and Socially Responsible Investment (SRI) Strategy Update	Pending
TransLink Federal Gas Tax Report	Pending
Project Delivery Update	Pending

Litigation Updates	Pending
Intergovernmental Communications and Engagement Update	Pending
Major Projects from External Agencies (As Required/Applicable)	Pending
Board Policies (As Required/Applicable)	Pending
4th Quarter	
Annual Budget and Five Year Financial Plan – Regional District Service Areas and Corporate Support	Pending
School and Youth Leadership Program Update	Pending
Major Project Updates	Pending
Project Delivery Update	Pending
Intergovernmental Communications and Engagement Update	Pending
Major Projects from External Agencies (As Required/Applicable)	Pending
Board Policies (As Required/Applicable)	Pending