



AGENDA
ENVIRONMENT COMMITTEE

Wednesday, November 4, 2020, 5:00 P.M. - 7:00 P.M.

Board Room, Service and Resource Centre,
411 Dunsmuir Street, Nanaimo, BC

Pages

1. CALL THE MEETING TO ORDER:

[Note: This meeting will be live streamed and video recorded for the public.]

2. INTRODUCTION OF LATE ITEMS:

3. ADOPTION OF AGENDA:

4. ADOPTION OF MINUTES:

a. Minutes

1 - 5

Minutes of the Special Environment Committee Meeting held in the Boardroom, Service and Resource Centre, 411 Dunsmuir Street, Nanaimo, BC, on Wednesday, 2020-OCT-07 at 3:02 p.m.

5. PRESENTATIONS:

6. REPORTS:

a. 2021 Environment Committee Key Date Calendar

6 - 8

To be introduced by Sky Snelgrove, Deputy Corporate Officer.

Purpose: To request that the Environment Committee recommend Council approve their 2021 Key Date Calendar.

Recommendation: That the Environment Committee recommend Council approve their 2021 Key Date Calendar.

b. REIMAGINE NANAIMO Environment Gap Analysis Review

9 - 11

To be introduced by Rob Lawrance, Environmental Planner.

Purpose: To provide the Environment Committee with the opportunity to comment and provide input on the REIMAGINE Nanaimo Environmental 'Technical Backgrounders'.

c. REIMAGINE NANAIMO Stakeholder Engagement Update

12 - 15

To be introduced by Rob Lawrance, Environmental Planner.

Purpose: To provide information to the Environment Committee on the Phase 1, REIMAGINE Nanaimo Stakeholder Engagement Update.

7. OTHER BUSINESS:

a. Environmental Responsibility Framework

16 - 21

To be introduced by Councillor Brown and Councillor Geselbracht.

8. ADJOURNMENT:

MINUTES
SPECIAL ENVIRONMENT COMMITTEE MEETING
BOARDROOM, SERVICE AND RESOURCE CENTRE
411 DUNSMUIR STREET, NANAIMO, BC
WEDNESDAY, 2020-OCT-07, AT 3:02 P.M.

Present: Councillor B. Geselbracht, Chair
E. Boulanger, At Large Member (joined electronically, disconnected at 4:54 p.m.)
D. Chen, At Large Member (joined electronically)
L. Frey, At Large Member (joined electronically)
J. Lesemann, At Large Member (joined electronically)
L. McCunn, At Large Member (joined electronically)

Absent: Councillor T. Brown
H. DesRoches, At Large Member
W. Wells, At Large Member

Staff: D. Lindsay, General Manager, Development Services
B. Sims, General Manager, Engineering and Public Works (joined electronically 4:15 p.m.)
J. Holm, Director, Development Approvals
L. Bhopalsingh, Manager, Community Planning
R. Lawrence, Environmental Planner
C. Sholberg, Community Heritage Planner
S. Snelgrove, Deputy Corporate Officer
K. Lundgren, Recording Secretary

1. CALL THE SPECIAL ENVIRONMENT COMMITTEE MEETING TO ORDER:

The Special Environment Committee Meeting was called to order at 3:02 p.m.

2. ADOPTION OF AGENDA:

It was moved and seconded that the Agenda be adopted. The motion carried unanimously.

3. ADOPTION OF MINUTES:

It was moved and seconded that the Minutes of the Regular Meeting of the Environment Committee held in the Boardroom, Service and Resource Centre, Nanaimo, BC, on Wednesday, 2020-JUL-15 at 3:00 p.m. be adopted as circulated. The motion carried unanimously.

4. PRESENTATIONS:

5. REPORTS:

(a) REIMAGINE Nanaimo: Climate Action and Environmental Technical Backgrounders

Lisa Bhopalsingh, Manager, Community Planning, spoke regarding the importance of Committee feedback in the REIMAGINE NANAIMO process.

Rob Lawrance, Environmental Planner, noted that the technical backgrounders are included to provide greater detail and specifics, and Staff is seeking Committee feedback.

Committee discussion took place. Highlights included:

- The technical backgrounders provide extensive information and the Committee requires more time to provide feedback
- Committee members are invited to provide feedback to Staff until the beginning of November
- The technical backgrounders are currently in draft format
- The lists provided in the technical backgrounders are potential options as well as a collection of ideas based on what similar jurisdictions are doing
- Legislative limits regarding limiting natural gas use in homes

(b) Environmental Responsibility Framework

Introduced by Rob Lawrance, Environmental Planner. Highlights included:

- Environmental framework is a way to manage and assess the City's progression on key environmental priorities
- Draft environmental framework is available on the City of Nanaimo website for public access

Presentation:

1. Councillor Geselbracht provided a PowerPoint presentation regarding the environmental responsibility framework. Highlights included:
 - Good frameworks have the ability to be aspirational, organized around objectives and monitored
 - “Doughnut Economics” is a model put together by economist Kate Raworth to visually depict planetary and social boundaries for sustainable development
 - The outer circle of the “Doughnut” includes nine key planetary limits that make up the ecological ceiling, and the inner circle includes twelve social boundaries that make up the social foundation
 - The model is based on the premise that social needs need to be met while not exceeding the planetary boundaries
 - Each category is associated with a trackable target

- Clear targets and performance indicators are not only important in communicating to the community, but also in prioritizing internal decisions and strategic direction

Committee discussion took place. Highlights included:

- Applying the “Doughnut Economic” model to fit Nanaimo in a regional context and providing an assessment of where the City of Nanaimo currently is
- How the framework is integrated in the REIMAGINE NANAIMO process
- Baseline indicators currently exist that may be drawn upon
- The importance of finding the right targets that encapsulate what we are trying to achieve, as well as resources to monitor the indicators
- Raising awareness within the community to develop a shared purpose as well as a greater understanding of why decisions are being made
- Critical to have clearly defined agreed-upon goals
- Update on the public engagement working group
- The importance of having a better understanding of the perceptions and priorities of the community
- Mindful of the overuse of questionnaires as a tool for community feedback
- The organization of small focus groups to facilitate conversation with the community

(c) Climate and Environmental Gap Analysis

Introduced by Rob Lawrance, Environmental Planner.

Presentation via Zoom:

1. David Reid, Lanarc, and Duncan Cavens, C2MP, provided a PowerPoint presentation. Highlights included:
 - Clean growth is a term that suggests that climate change policies need to be integrated with other policies rather than on their own
 - Identifying the environmental gaps yet to be addressed and strategies to be considered
 - Provided an overview of the City of Nanaimo’s greenhouse gas (GHG) emissions:
 - The City of Nanaimo is committed to reducing GHG emissions by 50% from 2010 levels by 2030, and reducing GHG emissions 94% from 2010 levels by 2050
 - Majority GHG emissions come from natural gas and oil used for heating homes and hot water
 - City of Nanaimo has many policies already in place compared to other municipalities
 - Despite policies, GHG emissions are still rising. This is largely due to the low cost of natural gas to heat homes, as well as population growth
 - Transportation is a large contributor to GHG emissions in Nanaimo
 - Two approaches to reducing GHG emissions are to increase efficiency and to switch to zero-carbon energy sources
 - Simply increasing efficiency is unlikely to decrease GHG emissions quickly enough to reach targets

- Consideration for the lifespan of urban elements
 - Incentives to promote fuel switching to low carbon heating and hot water systems
 - Charging infrastructures for electric vehicles
 - Increasing investment in active transportation infrastructure
- Provided examples from the City of Campbell River Sea Level Rise Assessment study
 - Visual representations are powerful tools to communicate impact
 - Graphic summary tool to evaluate and compare different strategy options
 - Potential next steps in Nanaimo
- Provided an overview of drought management
 - The amount of Bulk water supply needed is determined by population growth and water consumption
 - Education on landscape design and best irrigation practices
- Provided overviews of changing heat patterns; rainwater management; and sediment, erosion and pollution control
- Nanaimo focused on efficiency in buildings in particular
- Focus on retrofitting buildings as 60% of buildings that will be here in 2050 have already been built

Committee discussion took place. Highlights included:

- Committee members are encouraged to send further feedback to Staff and chairs to be forwarded to David Reid, Lanarc
- Balancing population growth and forest protection in Nanaimo
- The REIMAGINE NANAIMO process is currently in the phase of reviewing background information and collecting ideas from the community and committees
- Next phase of the REIMAGINE NANAIMO process will include the modelling of growth scenario options. These will be provided to the community and to committees for further feedback
- The Official Community Plan is a high level document that does not go into every detail of the individual action plans
- Some goals may be more directional rather than hard targets

E. Boulanger disconnected at 4:54 p.m.

- Assessing what factors of the “Doughnut Economic” model apply to the City
- More in-depth discussion regarding frameworks to be had at the next Environment Committee meeting scheduled for November 4th

It was moved and seconded that Staff liaise with Environment Committee members to develop focus group stakeholder engagement around environmental objectives of the Official Community Plan. The motion carried unanimously.

6. ADJOURNMENT:

It was moved and seconded at 5:04 p.m. that the meeting adjourn. The motion carried unanimously.

CHAIR

CERTIFIED CORRECT:

CORPORATE OFFICER

DATE OF MEETING November 4, 2020

AUTHORED BY SKY SNELGROVE, STENO COORDINATOR AND DEPUTY
CORPORATE OFFICER

SUBJECT **2021 ENVIRONMENT COMMITTEE KEY DATE CALENDAR**

OVERVIEW

Purpose of Report

To request that the Environment Committee recommend Council approve their 2021 Key Date Calendar.

Recommendation

That the Environment Committee recommend Council approve their 2021 Key Date Calendar.

BACKGROUND

Prior to December 31st of each year, committee key date calendars are prepared and presented to Council for approval. The calendar is prepared based on "Council Procedure Bylaw 2018 No. 7272", Committee Operating Guidelines and the Environment Committee's Terms of Reference. In accordance with these documents the Corporate Officer determines the schedule of meetings including the day and times. During the beginning of the COVID-19 pandemic meetings were held from 3:00 p.m. to 5:00 p.m. In order to ensure quorum is present for each meeting and that each member is able to participate, meetings in 2021 will be scheduled from 5:00 p.m. to 7:00 p.m. Meetings will be conducted virtually over Zoom. If health recommendations and guidelines change, the Corporate Officer may consider reinstating in-person meetings. The Chair and staff liaisons for each meeting will meet in person, maintaining physical distancing while members participate electronically. When the committee was originally struck, it was determined that meetings would be held every two months and the 2021 key date calendar is consistent with that schedule. Special meetings may be held if required.

DISCUSSION

The Environment Committee is requested to recommend that Council approve their key date calendar as presented. If endorsed by the committee, the recommendation will be forwarded to a Council meeting for approval then invitations will be sent out.

OPTIONS

1. That the Environment Committee recommend Council approve their 2021 Key Date Calendar.

- The advantages of this option: The committee will have a scheduled meeting date and time, reoccurring every two months.
- The disadvantages of this option: The committee may wish to meet more or less frequently than scheduled.
- Financial Implications: The committee has a budget for scheduled meetings.

2. That the Environment Committee provide alternative direction.

- The advantages of this option: The Environment Committee may wish to amend their meeting schedule.
- The disadvantages of this option: Based on direction received Staff would review the suggested alternative to determine if there are sufficient resources such as room, staff and chairperson availability, to accommodate the change.
- Financial Implications: To be determined based on alternative direction.

SUMMARY POINTS

- The Environment Committee is requested to recommend that Council approve their key date calendar.
- 2021 meetings are scheduled on Wednesdays from 5:00 p.m. to 7:00 p.m. every two months.
- The meeting schedule is prepared based on "Council Procedure Bylaw 2018 No. 7272", Committee Operating Guidelines and the Terms of Reference.

ATTACHMENTS:

Attachment A: 2021 Environment Committee Key Date Calendar

Submitted by:

Sheila Gurrie
Director, Legislative Services

Concurrence by:

Richard Harding
General Manager, Parks, Recreation and Culture

Dale Lindsay
General Manager, Development Services

Bill Sims,
General Manager, Engineering and Public Works

ATTACHMENT A

City of Nanaimo

**ENVIRONMENT COMMITTEE
KEY DATE CALENDAR – 2021**

The Environment Committee meetings are held electronically in the Boardroom, Service and Resource Centre, 411 Dunsmuir Street, unless otherwise stated.

| Committee | Start Time | End Time | Day of the Month |
|------------------------------|-------------------|-----------------|-------------------------------------|
| Environment Committee | 5:00 p.m. | 7:00 p.m. | Select Wednesdays, every two months |

January 1 New Years Day

January 27 Environment Committee Meeting

March 10..... Environment Committee Meeting

May 12 Environment Committee

May 18..... Victoria Day

July 1 Canada Day

July 14 Environment Committee Meeting

September 7..... Labour Day

September 8..... Environment Committee Meeting

November 10..... Environment Committee Meeting

November 11..... Remembrance Day

DATE OF MEETING November 04, 2020

AUTHORED BY ROB LAWRENCE, ENVIRONMENTAL PLANNER

SUBJECT REIMAGINE NANAIMO ENVIRONMENTAL GAP ANALYSIS REVIEW

OVERVIEW

Purpose of Report:

To provide the Environment Committee with the opportunity to comment and provide input on the REIMAGINE Nanaimo Environmental 'Technical Backgrounders'.

BACKGROUND

The REIMAGINE Nanaimo process involves a comprehensive planning policy review and update of key strategic planning policy documents for the City. Central to this is an update of the City's 2008 Official Community Plan (OCP), the 2005 Parks, Recreation and Culture Plan, and the creation of the City's first Active Transportation Plan.

The process includes public engagement for these plans as part of a broader process that involves the review of other key strategic plans, such as, the Economic Development Strategy, Water Supply Strategic Plan, and the Sustainability Action Plan (Climate Action Plan).

By combining the review and update of these policy documents, the City can maximize opportunities for community participation and engagement on these interrelated policy documents. This approach ensures consistency between the plans and prevents public confusion and potential engagement fatigue from multiple overlapping processes.

At the 2020-OCT-07 Special Environment Committee meeting, draft 'Technical Backgrounders' were distributed to the committee members, focussing on the following topic areas:

- Greenhouse Gas (GHG) Mitigation;
- Climate and Hazard Adaptation; and,
- Green Infrastructure/Natural Environment.

The 'Technical Backgrounders' are a more detailed compliment to the more general 'Public Backgrounders' that are on the REIMAGINE Nanaimo website currently. The main purpose of these documents are to use them with professional Staff and technical stakeholder audiences to summarize Nanaimo's recent progress on a range of environmental priorities and compare that to what other leading jurisdictions have done, with a focus on the Pacific Northwest and jurisdictions with similar goals and objectives.

By identifying policy and program 'gaps' between the City and similar communities in the Pacific Northwest, the intention is to identify policies and actions that can be considered for Phase 2, (exploring options) of REIMAGINE Nanaimo.

DISCUSSION

The following is a list of the policy gaps and program options summarized from the “Potential Next Steps” identified in the Environmental Technical Backgrounders and in the LANARC/C2MP Climate/Environmental Gap Analysis PowerPoint presentation that were presented during the Special Environment Committee meeting on 2020-OCT-07.

Climate and Hazard Adaptation Backgrounder

- Development Permit Area for coastal zone/hazard areas.
- More education/awareness on building along marine shoreline.
- Study long-term public infrastructure needs for hazard areas.
- Review and update water conservation information for the City, (working with the Regional District of Nanaimo).
- Create an urban heat island mitigation development permit checklist.
- Continue urban forest planting incentive programs.
- Implement FireSmart best practices, (within priority neighbourhood and parks).

GHG Mitigation Backgrounder

- Existing building retrofits (target oil heat conversion and promote zero emission alternatives).
- New construction (increase pace of Step Code Implementation/promote zero emission alternatives/offer density bonusing for zero carbon buildings).
- Improve electric vehicle charging infrastructure, targeting infrastructure expensive to upgrade (i.e. level 3 chargers).
- Improve organic waste diversion.
- Increase active transportation infrastructure within nodes and corridors.
- Investigate E-bike infrastructure needs.

Green Infrastructure / Natural Areas Backgrounder

- Establish stormwater utility to incentivize changes.
- Review densification options within lower density zones.
- Move towards regulations for developments above an impervious threshold.
- Update the erosion and sediment control bylaw:
 - Update best practice and education for builders.
 - Review enforcement and ticketing options.
- Restart rainwater management planning for storm catchment areas.
- Build on riparian/ecological restoration partnerships.
- Promote homeowner ‘naturescape’ program for residential habitat creation.
- Review and update Invasive Plant Management Strategy.
- Scale-up community volunteer/low barrier employment program for invasive management and ecological restoration on City lands.
- Review and update noxious weed control bylaw.
- Review and update Urban Forest Management Strategy.
- Complete a City Biodiversity Strategy.

CONCLUSION

This report provides an initial list of policy gaps and program actions that are intended to be used in further consultation under the REIMAGINE Nanaimo process.

Committee members will be asked to review the list and:

- Confirm if the backgrounder topic areas are complete.
- Review the policy and program gaps identified in the backgrounders and confirm there are not other actions that should be added to the list.
- Prioritize the top three policy gap and program actions for each backgrounder; based on the information provided and considering overall impact.

SUMMARY POINTS

- The 'Technical Backgrounders' are a more detailed compliment to the more general 'Public Backgrounders' that are on the REIMAGINE Nanaimo website currently.
- The main purpose of these documents are to use them with professional Staff and technical stakeholder audiences to summarize Nanaimo's recent progress on a range of environmental priorities and compare that to what other leading jurisdictions have done, with a focus on the Pacific Northwest and jurisdictions with similar goals and objectives.
- By identifying policy and program 'gaps' between the City and similar communities in the Pacific Northwest, the intention is to identify policies and actions that can be considered for Phase 2, (exploring options) of REIMAGINE Nanaimo.

Submitted by:

Rob Lawrance
Environmental Planner

Concurrence by:

Jeremy Holm
Director, Development Approvals

Dale Lindsay
General Manager, Development Services

DATE OF MEETING November 04, 2020

AUTHORED BY ROB LAWRENCE, ENVIRONMENTAL PLANNER

SUBJECT REIMAGINE NANAIMO STAKEHOLDER ENGAGEMENT UPDATE

OVERVIEW

Purpose of Report:

To provide information to the Environment Committee on the Phase 1, REIMAGINE Nanaimo Stakeholder Engagement Update.

BACKGROUND

At the 2020-OCT-07 Special Environment Committee meeting, the following motion was passed.

It was moved and seconded that Staff liaise with Environment Committee members to develop focus group stakeholder engagement around environmental objectives of the Official Community Plan. The motion carried unanimously.

In order to provide background information prior to meeting with committee members to discuss opportunities for stakeholder engagement, Staff are providing background on the REIMAGINE Nanaimo public engagement process and an update on the work completed to date.

REIMAGINE Nanaimo

The City of Nanaimo is initiating a comprehensive update of a number of key strategic planning policy documents in 2020-2021. Central to this undertaking is an update of the City's 2008 Official Community Plan, the 2005 Parks, Recreation and Culture Plan, and the Active and Sustainable Transportation Plan.

Planning and engagement of these plans will be done as part of a broader process that involves coordinating engagement to inform the review of other strategic plans including:

- Economic Development Strategy;
- Water Supply Strategic Plan Update; and,
- Sustainability Action Plan Update.

Coordinating community engagement on these interrelated policy documents intends to maximize community participation, ensure consistency between the plans, efficient resource use, and prevent public confusion and potential engagement fatigue from multiple overlap planning processes.

In the initial phase of the process, the project team has been coordinating with Staff from several departments, including environment Staff. A coordinated planning and engagement process for the review has been developed by the project team and the consultant that achieves the International Association of Public Participation 'Consult', and 'Involve' levels of engagement, while respecting Council's decision-making authority.

With the aid of the project consultant, engagement intends to achieve inclusive and meaningful participation of residents, stakeholders, and those typically marginalized and with barriers to participation in traditional planning processes. The consultation process will also involve engagement with key stakeholders, including those identified at the project outset, and those that may come forward at later points in the consultation process.

The three phases in the engagement process are:

Phase 1: What is our community vision for the future?

- This is the initial kick-off where the focus is raising awareness about REIMAGINE Nanaimo and taking in initial idea gathering from the public.

Phase 2: How are we going to achieve our community vision for the future?

- Exploring policy options formed to reflect initial community input. This phase will involve developing community scenarios that take into account varying interests and trade-offs in order to determine the best direction that reflects the community's vision.

Phase 3: Refining the Plan

- The final phase of review, where Staff report back to the community on 'what was heard' to date, what draft plans have been prepared in response, and to provide opportunity for public feedback to refine the recommendations, before proceeding to Council for adoption.

DISCUSSION

Currently, Phase 1 of the REIMAGINE Nanaimo process is underway and is expected to continue until the end of November.

In order to best coordinate and take advantage of a number of synergies, a series of stakeholder sessions have been organized. These include a broad range of community groups, including environmental organizations, recreational clubs, stewardship/volunteer groups, neighbourhood associations, and general interest groups.

To date, the following organizations have been contacted and will be participating in as part of the Phase 1 stakeholder engagement sessions. It is expected that this list will increase as we continue to receive confirmations over the coming weeks:

Environmental Organizations

- Nanaimo Area Land Trust
- Nature Nanaimo
- Nature Trust of British Columbia
- Buttertubs Marsh Conservation Management Area Committee
- Nanaimo Estuary Management Committee
- Nanaimo River Watershed Roundtable
- Departure Bay Streamkeepers
- Walley Creek Streamkeepers
- Morrel Nature Sanctuary Society
- Nanaimo Science and Sustainability Society

Alternative Transportation Organizations

- BC Cycling Coalition
- Modo Car Share
- Greater Nanaimo Cycling Coalition
- Hub City Cycles Community Co-op
- Slowpokes
- Mid-Island Velo Association

Neighbourhood Associations

- Harewood Neighbourhood Association
- Hospital Neighbourhood Association
- South End Community Association
- Protection Island Neighbourhood Association
- Nanaimo Old City Association
- Friends of Westwood Lake
- Departure Bay Neighbourhood Association |

CONCLUSION

There is opportunity for Environment Committee members to consider developing focus group stakeholder engagement around environmental objectives of the Official Community Plan. Consideration could be given to the following:

1. Are there specific community organizations in the City who should be contacted to participate?
2. Does the Committee wish to host a focused discussion on the City Climate Emergency Declaration or other Climate and Environmental Issues? If so, are there committee members who wish to coordinate with Staff to organize either an online or an in-person meeting?
3. Are there committee members who wish to sit-in on any of the ongoing stakeholder meetings? |

SUMMARY POINTS

- In order to provide background information prior to meeting with committee members to discuss opportunities for stakeholder engagement, Staff are providing background on the REIMAGINE Nanaimo public engagement process and an update on the work completed to date.
- In order to best coordinate and take advantage of a number of synergies, a series of stakeholder sessions have been organized. These include a broad range of community groups, including environmental organizations, recreational clubs, stewardship/volunteer groups, neighbourhood associations, and general interest groups.
- There is opportunity for Environment Committee members to consider developing focus group stakeholder engagement around environmental objectives of the Official Community Plan.

Submitted by:

Rob Lawrance
Environment Planner

Concurrence by:

Jeremy Holm
Director, Development Approvals

Dale Lindsay
General Manager, Development Services

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Environmental Responsibility Framework

Councils Strategic Priority: Environmental Responsibility

"We will protect and enhance Nanaimo's natural environment by looking after the community's biological diversity and adapt the way we live, work, recreate and move."

KEY FOCUS AREAS

1. **Take a leadership role and focus on our environmental impact and climate change contributions in our decision making and regional participation**
2. Ensure our community and transportation planning are multi-modal designed to encourage active and public transportation

Coherence: The quality of forming a unified whole

“Just as an equalizing tuning system permitted twenty-four different musical scales to integrate and to influence one another for the first time—so cities need a framework to unify their many disparate programs, departments, and aspirations...When a community has a vision, and a plan for how to carry it out, and is able to coherently integrate its disparate elements, then it begins to be well tempered. Coherence is essential for cities to thrive.”

- Jonathan F.P. Rose (The Well Tempered City)

Effectively coordinating: Action to achieve shared goals

Frameworks:

- Communicate a clear vision, purpose and direction;
- They are aspirational, organized around objectives; and
- They include key performance indicators to assess progress.

Doughnut Economics: A Big Picture Framework for the 21st Century

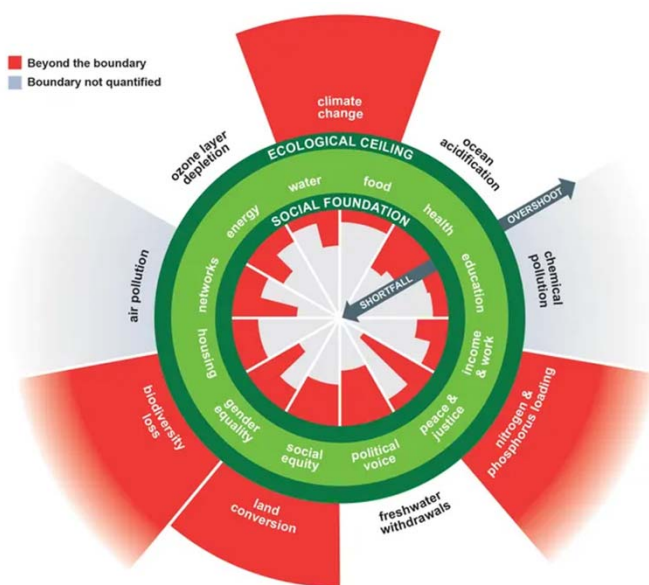
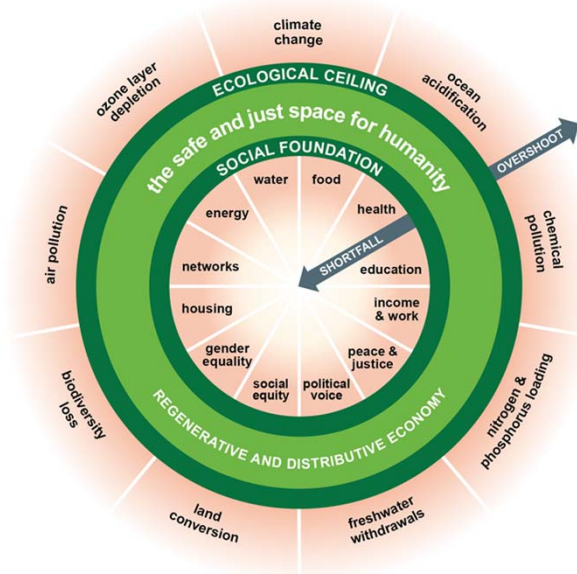


Table 2. The ecological ceiling and its indicators of overshoot

| Earth-System Pressure | Control Variable | Planetary Boundary | Current Value and Trend |
|--|--|--|---|
| Climate change | Atmospheric carbon dioxide concentration, parts per million (ppm) | At most 350ppm | 400ppm and rising (worsening) |
| Ocean Acidification | Average saturation of aragonite (calcium carbonate) at the ocean surface, as a percentage of pre-industrial levels | At least 80% of pre-industrial saturation levels | Around 84% and falling (intensifying) |
| Chemical Pollution | No global control variable yet defined | — | — |
| Nitrogen and Phosphorus Loading | Phosphorus applied to land as fertiliser, millions of tons per year | At most 6.2 million tons per year | Around 14 million tons per year and rising (worsening) |
| | Reactive nitrogen applied to land as fertiliser, millions of tons per year | At most 62 million tons per year | Around 150 million tons per year and rising (worsening) |
| Freshwater Withdrawals | Blue water consumption, cubic kilometres per year | At most 4,000 km ³ per year | Around 2,600 km ³ per year and rising (intensifying) |
| Land Conversion | Area of forested land as a proportion of forest-covered land prior to human alteration | At least 75% | 62% and falling (worsening) |
| Biodiversity Loss | Rate of species extinction per million species per year | At most 10 | Around 100–1,000 and rising (worsening) |
| Air Pollution | No global control variable yet defined | — | — |
| Ozone Layer Depletion | Concentration of ozone in the stratosphere, in Dobson Units | At least 275 DU | 283 DU and rising (improving) |

Source: Steffen et al. (2015).

Amsterdam: Downscaling the Doughnut

“the launch of a new and holistic approach to downscaling the Doughnut, and we are confident that it has huge potential at multiple scales – from neighbourhood to nation – as a tool for transformative action.”

- Kate Raworth

HOW CAN OUR CITY BE A HOME
TO THRIVING PEOPLE IN A THRIVING PLACE,
WHILE RESPECTING THE WELLBEING OF ALL PEOPLE
AND THE HEALTH OF THE WHOLE PLANET?

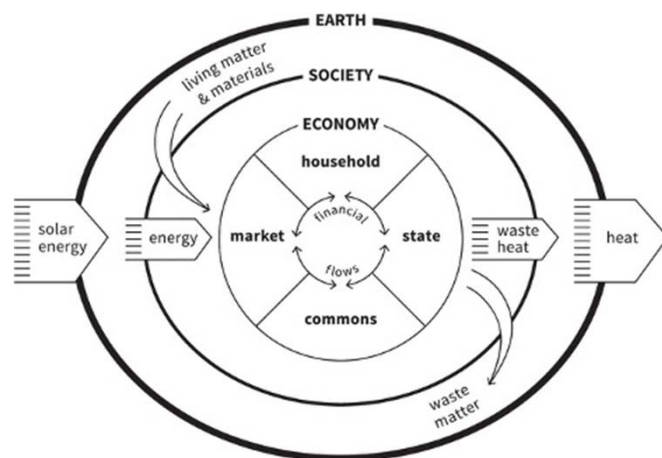


(Source: The Amsterdam City Doughnut - A Tool for Transformative Action)

Nanaimo: Doing our Part

How do we take responsibility as a city for living within the Planetary boundaries?

How Do we build a city environmental framework and OCP that supports larger goals and objectives?



Our Framework



Questions to Review our Framework:

- Does it define our strategic focus and give our city a clear vision of what we are working to achieve?
- Is it organized around objectives and is it aspirational?
- What should be the embedded target indicators that will provide feedback on whether our actions are effective and achieving outcomes?
- Can it serve as the foundation for internal and external messaging, organizing all priorities and initiatives into strategic drivers that ladder up to higher level goals and purpose?
- Can it provide an externally facing, visual outline of activities that make up our organization's overarching strategy and intentions, and show how our actions match our intentions?

Our Proposal: Refocus Our Work Plan

- To review key categories of the city's Environmental Responsibility Framework and ensure they are objectives based and capable of capturing local responsibility for key planetary boundaries, such as outlined in the doughnut.
- To review and create environmental targets and key performance indicators that the City can monitor and report on as to evaluate initiative effectiveness.
- To liaise with Community and re-imagine Nanaimo process on setting key targets and embed the environmental framework into the OCP.
- To identify gaps in key programs and initiatives within the Environmental Responsibility Framework.

Recommendations to Council

1. That Council, as part of it's Strategic Plan review process, consider replacing key Focus Area 1 under the Environmental Responsibility Key Focus Area with: "We will take responsibility to build a city and community that operates within the planetary boundaries necessary to maintain core life sustaining ecological functions."
1. That the Environment Committee Work Plan be amended to focus on the development of a holistic, complete and objective-based Environmental Responsibility Framework and that the principles and objectives of the Environmental Responsibility Framework be included in the Re-Imagine Nanaimo process.