CITY OF
BAINBRIDGE ISLAND

CLIMATE CHANGE
ADVISORY COMMITTE
WEDNESDAY, OCTOBER 18, 2017
6:15 – 8:15 PM
CITY HALL
COUNCIL CONFERENCE ROOM
280 MADISON AVENUE NORTH
BAINBRIDGE ISLAND, WA 98110

AGENDA

Members:	Derik Broekhoff	Nora Ferm Nickum
	Michael Cox	Deborah Rudnick
	Lara Hansen	James Rufo-Hill
	Gary Lagerloef	Jane Silberstein
	David McCaughey	

Liaison: Councilmember Kol Medina

6:15 Call meeting to Order

6:20 Discussion and approval of minutes

6:25 Public Comment

6:35 Old Business – Report Outs

- Request to council liaison to consider changes to OPMA Applicability to Committee (part of Ordinance establishing Committee (BIMC 2.37).
- Request to City to complete table on actions to implement climate change elements in Comprehensive Plan.
- GHG inventory subcommittee

7:00 New Business

- Path forward for GHG Inventory
- Formation of additional subcommittees.

8:00 Other Business

8:15 Adjourn

For special accommodations, please contact Roz Lassoff
206-780-8624 or at rlassoff@bainbridgewa.gov

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CLIMATE CHANGE ADVISORY COMMITTE
MONDAY, SEPTEMBER 20, 2017
CITY HALL
COUNCIL CONFERENCE ROOM
280 MADISON AVENUE NORTH
BAINBRIDGE ISLAND, WA 98110

MINUTES

Present: Committee members Derik Broekhoff, Michael Cox, Lara Hansen, David McCaughey, Nora Ferm Nickum, Deborah Rudnick, and James Rufo-Hill
On the phone: Jane Silberstein

Absent: Gary Lagerloef

1. Call to order
    - The meeting was called to order at 6:19 pm.

2. Open Public Meetings Act Training
    - Advisory Committee members received Open Public Meetings Act Training from the City Attorney.

3. Approval of minutes
    - Minutes from the previous meeting (August 7, 2017) were approved.

4. Public comment
    - No members of the public attended, so no public comment was received.

5. Recommended changes to the ordinance
    - In advance of providing recommended changes to the ordinance establishing the Advisory Committee by the October 31 deadline, the co-chairs plan to discuss with the Council Liaison issues related to 2.37.040A on the applicability of the Open Public Meetings Act.

6. Meeting packets
    - In the interest of reducing waste and increasing the sustainability of Advisory Committee operations, the co-chairs will ask the City staff liaison to print only one hard copy of the packet (agenda, minutes from the previous meeting, and any handouts) for each meeting. This copy can be shared with interested members of the public who attend the meeting. Advisory Committee members will not receive printed hard copies of minutes, agendas, or handouts unless an individual member requests a copy in advance of a meeting.

DRAFT

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7. Presentations
    - Committee member Lara Hansen gave a presentation on the Bainbridge Island Climate Assessment and Comprehensive Plan.
    - Committee member Derik Broekhoff gave a presentation on options for developing greenhouse gas inventories.
8. Gathering information from City staff
    - The co-chairs will ask the Council Liaison to transmit a table for City Staff and/or Departments to complete on how they are currently addressing the areas of the Comprehensive Plan dealing with climate change. Also, Committee members are interested in having an update of existing commitments that the City has made on climate change. This information will help us identify where the Advisory Committee recommendations would be most useful.
    - At the October meeting, the Advisory Committee will develop a list of questions for City staff and/or department heads based on their responses to the table in order to better understand implementation plans, actions, and challenges, following the integration of climate change considerations into Comprehensive Plan goals and policies.
    - The co-chairs will ask the Council Liaison about extending an invitation to these City managers to attend the November Advisory Committee meeting for discussion.

9. Greenhouse gas inventory
    - A subcommittee was established to continue the discussion about greenhouse gas inventory options and develop a summary table. The subcommittee, comprised of David McCaughey, Derik Broekhoff, and Michael Cox, will report out to the broader Committee at the next meeting.

10. Scheduling
    - Future meetings will be held on the third Wednesday of each month from 6:15 to 8:15 pm, rather than the 6:15 to 7:45 pm time laid out in last month's meeting minutes.

11. Meeting adjourned
    - The meeting was adjourned at 8:35 pm.

DRAFT

Michael Cox, Co-Chair 10/18/17

Lara Hansen, Co-Chair 10/18/17

Bainbridge Island Comprehensive Plan: Status on Integrating Climate Change (October 13th, 2017)

The Climate Change Advisor Committee would like the assistance of the Bainbridge Island City staff to help determine the status of actions related to the goals and policies in the updated Bainbridge Island Comprehensive Plan as it relates directly or indirectly to climate change. This information will help us better understand where the City Government is in relation to addressing climate change and inform our recommendations to the City Council.

We would appreciate if City staff could complete the table below. We understand that work has not begun on many of the goals and policies as the updated comprehensive plan was recently approved. If possible, we would like responses by **November 8th** so we could discuss at our November 15th Committee meeting. We would also like to request appropriate City Staff attend the meeting on **November 15th** to discuss the table with the Committee.

If you have any questions you can call Michael Cox at 206-855-1502 (co-chair) or of course via my City email. Thank you for your time.

Capital Facilities Element				
Goal	**Policy**	**Implementation Plan**	**Status**	**Timeline**
CF-1: Overview The Capital Facilities Element and CIP provides the public facilities needed to support orderly compact urban growth, protect and support public and private investments, maximize use of existing facilities, promote economic development and redevelopment, increase public well-being and safety, and implement the Comprehensive Plan.	CF 1.3: Evaluate and prioritize proposed capital improvement projects using the following long-term financial strategy principles and guidelines (many criteria including): - Anticipate and respond to the impacts of climate change, including sea level rise.			
CF-4: Public Facilities Public facilities constructed on Bainbridge Island meet appropriate safety, construction, energy conservation, and durability and sustainability standards.	CF 4.4: Require public facilities to incorporate energy generation when and where possible.			

Economic Element				
Goal	**Policy**	**Implementation Plan**	**Status**	**Timeline**
EC-2: Infrastructure Provide sufficient and resilient infrastructure that is supportive of a healthy economy and environment, particularly telecommunications and electrical reliability	EC 2.1: Identify long-term infrastructure needs that support economic sustainability and are designed to withstand future conditions.			
	EC 2.2: Support infrastructure enhancement to accommodate new information and changing conditions.			
EC-3: Sustainability Promote business practices that protect the Island's natural beauty, and environmental health, and support long-term business success	EC 3.1: Encourage the use of green building materials and techniques in all types of construction, as well as design approaches that are responsive to changing conditions.			
	EC 3.2: Help businesses find markets for surplus materials, by-products and waste.			
	EC 3.3: Encourage local enterprises to participate in programs such as the Kitsap County Waste Wise and Green Community Initiative, which recognize and assist business efforts to protect the environment (also any conversations around commercial composting for businesses).			
	EC 3.4: Encourage public sector solid waste reduction, reuse and recycling.			
	EC 3.5: Encourage existing and new businesses to become part of a linked cooperative whereby the by-products and waste of one enterprise become the raw materials of another.			
	EC 3.6: Create opportunities to foster green technology and industries, such as energy, waste and information technology, which have the potential to create local, family wage jobs in our community at the same time we are protecting our natural beauty, environmental and economic health.			
EC-6: Development in Designated Centers As the city's designated centers evolve, balance their	EC 6.3: Develop urban design strategies to ensure that the built environment is appropriate for present and future conditions, including the impacts of climate change.			

functions as places of commerce and employment with their roles helping to meet housing needs and provide focal points for civic engagement and cultural enrichment.				
EC-7: Public and Private Partnerships Partner with local businesses and business associations on programs and projects to diversify and grow the City's economic make-up, reduce sales leakage, attract spending by visitors, enhance local employment, and increase municipal tax revenues to support local services.	EC 7.4: Integrate programs and activities related to economic prosperity with objectives related to environmental sustainability, social and political equity, climate change adaptation and cultural engagement.			
	EC 7.8: Support and make Bainbridge Island a model community for climate change preparedness and sustainability practices that ensure long-term business viability while attracting and protecting visitors, businesses and residents.			

Environmental Element				
Goal	**Policy**	**Implementation Plan**	**Status**	**Timeline**
EN-1: Environment Preserve and enhance Bainbridge Island's natural systems, natural beauty and environmental quality	EN 1.1: A primary goal of the Comprehensive Plan is protecting the Island's natural environmental; land use decisions implement this goal.			
	EN 1.2: Critical areas must be developed in observance of several principles including in policy.			
	EN 1.3: Protect and enhance the natural systems and environmental quality of Bainbridge Island by continuing to build cooperative relationships between the City, citizens, landowners and other public, non-profit and private organizations.			
	EN 1.4: Maintain and enhance natural systems and protect wildlife, fish resources and open spaces through land use plans and development patterns including tree retention and planting.			
	EN 1.5: Create and maintain overlay maps that show the location of agricultural lands, critical aquifer recharge areas, geologically hazardous areas, floodplains, streams, wetlands and fish and wildlife. Integrate the maps from the BI Climate Impact Assessment.			
	EN 1.8: Consider the potential impacts of climate change and its impacts in all decisions related to natural systems and environmental quality.			
EN-2: Sustainability Encourage sustainability in City Government operations	EN 2.2: Seek to minimize the quantity and toxicity of materials used and waste generated for City facilities and operations through reduction, reuse and recycling. Use products made from recycled materials when available.			
	EN 2.3: Use new technologies to reduce environmental impacts such as solar panels, electric and hybrid vehicles, high-efficiency lights and heating systems.			
EN-5: Fish and Wildlife Protect and enhance wildlife, fish resources and ecosystems.	EN 5.10: Consider climate change and its impacts in all decisions related to wildlife, fish resources and natural systems.			

EN-7: Seal Level Rise Anticipate and prepare for the consequences of sea level rise.	EN 7.1: Consider the implications of sea level rise in all relevant decision-making by using regional sea level rise projections and shoreline instability maps (as provided by the WA Department of Ecology and utilized and interpreted with the Bainbridge Island Climate Impact Assessment).			
	EN 7.2: Coordinate with Tribal, Federal, State and local agencies to address issues related to sea level rise.			
EN-10: Protect and promote clean air These policies address the need for clean air to protect the Island's residents and ecosystems, under current and future climatological conditions. For example, increasing regional air temperatures are increasing air pollution components such as ground level ozone and smog.	EN 10.1: Promote land use patterns and transportation policies that ensure that the Island's contribution to regional air quality is consistent with or better than State and Federal standards.			
	EN 10.2: Encourage the retention of existing trees and vegetation and the planting of new trees and vegetation that provides natural filtration of suspended particulate matter, removes carbon dioxide and improves air quality			
	EN 10.4: Cooperate with the Puget Sound Clean Air Agency in providing information to the community about available and innovative emission controls for residential, commercial, vehicular and light industrial use.			
	EN 10.5: Ensure beneficial indoor air quality in all renovations and new construction of City-owned facilities and promote design choices that enhance beneficial indoor air quality in private construction.			
	EN 10.6: Reduce the quantity of airborne particulates through regulations for dust abatement of construction sites and street sweeping programs in areas with concentrations of both vehicular and pedestrian traffic.			
	EN 10.8: Encourage the retrofit or replacement of non-certified wood stoves with certified appliances.			
	EN 10.9: Transportation and energy production diminish air quality when power is produced with fossil fuel combustion. Maintain and improve Island air quality, by promoting the development of carbon free infrastructure.			
EN-12: Greenhouse Gases Reduce greenhouse gas	EN 12.1: Support and implement climate pledges and commitments undertaken by the City and other multi-			

emissions through compliance with federal, state and regional policies while developing local strategies to reduce emissions further.	jurisdictional efforts to reduce greenhouse gas emissions, address climate change, sea level rise, ocean acidification and other impacts of changing global conditions.			
	EN 12.2: Facilitate the improvement and convenience of low carbon mass transit and increased carsharing, cycling, walking and the development of alternative vehicle infrastructure (e.g., charging stations) to reduce greenhouse gas emissions.			
	EN 12.3: Strive for reduced greenhouse gas emissions by, among other actions, integrating climate change into the city planning process, including land use and transportation planning and management, and making climate change considerations and meeting greenhouse gas emission reduction goals a component of city decision making.			
	EN 12.4: Establish benchmarks, metrics and targets for reduction of greenhouse gas emissions, assess current conditions and progress in reducing greenhouse gas emissions from municipal, commercial, residential and transportation-related land uses, projects and programs.			
	EN 12.5: Support the development of a public education program which informs all citizens on the methods and progress for meeting the Island's greenhouse gas emission goals and ways citizens can assist in reaching the reduction goals.			
	EN 12.6: Promote energy conservation measures by all government entities including: • Retrofitting offices, shops and garages with high-efficiency lighting; • Converting vehicles to hybrid fuel vehicles as replacement or new vehicles are acquired; • Converting traffic signals and lighting to the most energy efficient and spectrum appropriate technology available; and • Adopting incentive programs and design standards that encourage the employment of renewable energy sources and energy efficient appliances on the Island.			
	EN 12.7: Promote the installation of residential solar panels and the adoption of other energy saving technologies such as LED			

	lights, heat pumps and insulation.			
EN-14: Invasive Species Collaborate with the Kitsap County Noxious Weed Board and other relevant agencies and organizations to develop and maintain a plan to remove and control invasive plant and animal species, as well as prepare for vulnerability to future invasive plant and animal species resulting from **climate change** and international commerce.	No specific policies.			
EN-18: Forests Encourage the retention of forest land and multiple-aged forests since healthy forests provide many ecological benefits to all forms of life on the Island and help mitigate **climate change**.	No specific policies.			

Housing Element				
Goal	**Policy**	**Implementation Plan**	**Status**	**Timeline**
HO-6: Affordable Housing Facilitate the provision of a diverse affordable housing stock in all geographic areas of the community	HO 6.4: Create a new conservation villages permit process to apply outside of designated centers to increase housing choices including affordable housing and requiring green building practices while better conserving open space.			

Land Use Element				
Goal	**Policy**	**Implementation Plan**	**Status**	**Timeline**
LU-2: Overview This Comprehensive Plan recognizes and affirms that as an Island, the city has natural constraints based on the carrying capacity of its natural systems. The plan strives to establish a development pattern that is consistent with the Goals of the community and compatible with the Island's natural systems.	LU 2.5: Prepare a Bainbridge Island Climate Change Strategy and Water Conservation Plan.			

Transportation Element: Entire Element is directly or indirectly related to climate change: The goals/policies below are most explicit				
Goal	**Policy**	**Implementation Plan**	**Status**	**Timeline**
TR-3: Ferries Coordinate with Washington State Ferries (WSF) and other ferry service providers to ensure that ferries meet local service and commuter needs, are integrated with all travel modes and provide equitable regional service	TR 3.4: Support WSF and other providers to create and incorporate best practices into ferry services that reduce greenhouse gas emissions and vulnerability of ferry transit from climate change.			
TR-5: Route 305 Coordinate with WSDOT to ensure that state facility improvements meet the goals of the Bainbridge Island Transportation Vision and Comprehensive Plan and minimize impacts to the local transportation system.	TR 7.2: Develop a master plan for the SR 305 corridor as a green and scenic highway balancing the objectives of maintaining the treed character, and providing safe visibility. Incorporate best practices into highway improvements that reduce greenhouse gas emissions and transit vulnerabilities from climate change.			
TR-12: Environment Develop, operate, and maintain a transportation system that respects and protects the natural environment including the quality of the Island's air, water and natural habitats.	TR 12.1: Avoid impacts of road construction on environmentally sensitive areas; minimize damaging runoff and pollution from road use and maintenance; implement programs that encourage the planting of low-maintenance, vegetated groundcover and trees along roadways.			
	TR 12.2: Develop transportation plans and programs that reduce travel demand, improve traffic flow and consider the impact to air quality including reducing greenhouse gas emissions. Support County, regional and state air quality goals and requirements.			

Utility Element				
Goal	**Policy**	**Implementation Plan**	**Status**	**Timeline**
U-3: Adequate Utility Services Ensure that utility services are adequate to meet current demands, and that utility providers plan for future demands.	No policies associated with goal.			
U-4: Sustainability Ensure that the provision of utility services is environmentally responsible and sustainable, and encourage utility services that are carbon neutral and do not contribute to climate change.	No policies associated with goal.			
U-5: Environment Ensure that new or major renovations to existing utility facilities are designed to minimize adverse impacts on residents and the environment.	No policies associated with goal.			
U-14: Electrical Services Ensure adequate, cost effective, reliable, and environmentally responsible electric service to the citizens of Bainbridge Island.	U 14.1: Develop a plan together with the electric service providers to undertake energy efficiency improvements and other alterations of electric utility facilities to provide capacity for future growth.			
	U 14.2: Encourage the conservation of electrical energy, especially during periods of peak usage, and encourage energy saving building code strategies, local renewable energy, and other cost effective approaches to meeting the island's energy needs, including distributed energy systems.			
	U 14.5: Encourage the electric service provider and electricity users to use carbon neutral electricity generation, local			

	electricity generation, and innovative technologies such as solar power that are reliable, cost effective, preserve resources, provide minimal environmental impact, and do not contribute to global warming.			
	U 14.7: New taxpayer-funded buildings shall use carbon-neutral energy for heating, cooling, and operational use to the maximum extent practical within site specific and existing technology limitations.			
	U 14.8: Encourage new development to integrate environmentally responsible and innovative energy systems.			
	U 14.9: Explore ways to obtain 100% green electricity including investing in new renewable energy projects.			

Water Resources Element				
Goal	**Policy**	**Implementation Plan**	**Status**	**Timeline**
WR-1: General Water Resources Manage the water resources of the Island in ways that preserve, protect, maintain, and where possible restore and enhance their ecological and hydrologic function.	WR 1.1: Study future climate and demand scenarios to accurately plan for future water resource conditions.			
WR-3: Surface Water Protection Achieve no net loss of ecological functions and processes necessary to sustain aquatic resources including loss that may result from cumulative impacts over time.	WR 3.11 Consider the impacts of climate change and ocean acidification when developing regulations or approving capital projects related to aquatic resources including marine nearshore, wetlands, streams, lakes, creeks, associated vegetated areas and frequently flooded areas.			
WR-6: Public Education and Outreach The City in conjunction with partners will continue to improve and implement comprehensive public education and outreach program to promote protection and management of all water resources.	WR 6.1: Educate and inform the public about (many items including): - Expected climate change impacts and how these will affect the Island's water resources and their beneficial uses.			

Climate Change Advisory Committee
October 18th, 2017 Meeting
GHG Inventory Discussion

Goal: Discuss and start to reach decisions on recommendations to City Council on GHG Inventory.

Questions

1. What is our recommendation on how the City should use the GHG Inventory?

Options
- Help establish GHG reduction targets.
- Inform City policies.
- Educate citizens.
- Work with other jurisdictions in County.
- All or some of the above.

Discussion
We thought it was important to first agree on how we think the GHG inventory should be used. This will help us decided other questions that follow.

Recommendation

2. What is our recommended scope for the GHG Inventory?

Options
- City operations.
- Community wide.
- County wide
- All or some of the above.

Discussion
We had an initial discussion at the last meeting on the scope, but we wanted to have a more in-depth discussion at this meeting. We think the answer to question #2 will follow from question #1.

Recommendation

3. What type of GHG Inventory do we recommend? How detailed and accurate of an inventory do we want?

Options
- Geographic based
- Consumption based
- Hybrid

Discussion
As discussed at the last meeting there are two basic types of inventories. We could focus on direct GHG emissions (geographic based) or used a "consumption based" inventory which also looks at the goods and services a community consumes or a combination.

To help us answer this question we need to consider how accurate and detailed of an inventory do we want. This goes back to the first couple of questions of how we want to use the inventory. The answer could be different depending on which aspects we look at, e.g., detailed and using locally acquired data for the geographic inventory, but less detailed and/or using top-down estimates and default data for consumption based.

Recommendation

4. Do we want to follow a standard protocol? If yes, which protocol should we recommend? Do we recommend reporting GHG emissions using the standard, and to whom?

Options
- Gold Standard: Global Protocol for Community-Scale Emissions
- US Community Protocol for Accounting and Reporting GHG Emissions
- ICLEI – Local Government Operations Protocol

Discussion
It relates in part to whether Bainbridge sees value in joining wider coalitions for action and getting PR/recognition for its efforts. But I think the main two reasons for following a standard would be (1) making the process more rigorous (and in some cases, maybe a bit easier, to the extent you don't have to figure everything from scratch); and (2) being able to formally report GHG emissions to various initiatives or registries (e.g., the Climate Disclosure Project).

Recommendation

5. What are the costs and timeframes to complete and how often do we want to update?

Options
Depends on answers to questions above.

Discussion

Recommendation