



CLIMATE CHANGE  
ADVISORY COMMITTEE  
SPECIAL MEETING  
MONDAY, JANUARY 27, 2020  
6:30 – 8:30 PM  
CITY HALL  
COUNCIL CONFERENCE ROOM  
280 MADISON AVENUE NORTH  
BAINBRIDGE ISLAND, WA 98110

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## AGENDA

MEMBERS: JENS BOEMER LARA HANSEN DAVID MCCAUGHEY (CO-CHAIR)  
DERIK BROEKHOFF GARY LAGERLOEF NORA FERM NICKUM  
MICHAEL COX (CO-CHAIR) JULIE MATTHEWS DEBORAH RUDNICK

LIAISONS: JOE DEETS KRISTEN HYTOPOULOS

6:30: CALL MEETING TO ORDER/ROLL CALL/ACCEPT OF MODIFY AGENDA/CONFLICT OF INTEREST DISCLOSURE

6:35: APPROVE DECEMBER 18<sup>TH</sup> MINUTES

6:40: PUBLIC COMMENT

6:50: UPDATES

- MONDAY FEBRUARY 3<sup>RD</sup>: JOINT STUDY SESSION WITH UAC AND CCA WITH PSE (SEE ATTACHED)
- MONDAY FEBRUARY 24<sup>TH</sup>: NEXT CCAC MEETING
- COMMITTEE CO-CHAIRS
- GREEN BUILDING TASK FORCE APPLICATION
- SUSTAINABLE TRANSPORTATION COMMUNITY TASK FORCE APPLICATIONS
- CARBON OFFSETS FOR POLICE STATION
- CLIMATE EMERGENCY DECLARATION (SEE ATTACHED MARKUP)

7:10: CLIMATE ACTION PLAN DISCUSSION (SEE POWER POINT OVERVIEW)

- SECTION 1: INTRODUCTION
- SECTION 2: GHG EMISSIONS INVENTORY
- SECTION 3: ENERGY
- SECTION 4: TRANSPORTATION
- SECTION 5: BUILDINGS
- SECTION 6: WASTE REDUCTION
- SECTION 7: NATURAL ENVIRONMENT
- SECTION 8: COMMUNITY ENGAGEMENT/CITIZEN ACTION
- SECTION 9: IMPLEMENTATION
- DRAFT SCHEDULE (SEE ATTACHED)

8:15: OTHER BUSINESS

8:30: ADJOURN

### MATERIALS

1. DECEMBER MINUTES
2. PSE STUDY SESSION AGENDA
3. CLIMATE EMERGENCY DECLARATION MARKUP
4. CAP: OVERVIEW
5. DRAFT SCHEDULE FOR UPDATING CAP

# CLIMATE CHANGE ADVISORY COMMITTEE

## Regular Meeting

Thursday, December 18, 2019

### MINUTES

Present: Committee members Jens Boemer, Derik Broekhoff, Lara Hansen, Gary Lagerloef, David McCaughey, Nora Ferm Nickum, Deborah Rudnick; Council Liaison Joe Deets

Absent: Committee members Michael Cox, Julie Matthews

Public/guests: Gloria Saylor, Andy Swayne (PSE), Susan Loftus, Tom Hinz, Iain Evans-Rapp, Andy Rovelstad, Charlotte Rovelstad

1. The meeting was called to order at 6:31 pm.
  - Conflict of interest disclosure: Jens Boemer reminded everyone of his standard statement (see past meeting minutes).
2. Minutes from the previous meeting (November 18, 2019) were approved.
3. Public comment
  - Andy Swayne (PSE) said he is here as a resource if useful.
  - Gloria Saylor said she attended the Saturday workshop; she thought it was well done and great to see the turnout.
  - High schooler Iain Evans-Rapp said the Committee should try to bring in some younger people.
  - Charlotte Rovelstad said she went to the workshop last Wednesday and everyone did a great job. She would like the Climate Action Plan to consider more elements including current threats and vulnerability to near-term climate shocks, and our current destruction of the environment (e.g., through harmful pesticides and insect die-offs). She asked this Committee to support the Council in studying and adopting Rights of Nature. Finally, she recommended that we change the requirements for Committee membership as they seem to exclude youth.
4. BI Mobility Alliance presentation (alliance's name is changing soon)
  - Susan Loftus said that the BI Mobility Alliance was founded two years ago with the goal of expanding biking and walking. The group is active in the Sustainable Transportation Plan process. They were thrilled that the Council recently adopted a resolution to decrease GHG emissions by 90% by 2040. Another important element in the Sustainable Transportation Plan is using an equity lens (including gender). Access to e-bikes is important to increase bicycling, especially on a hilly island. They'll be advocating for mobility hubs that connect multiple modes of transportation.
5. Reflections on community workshops
  - A total of over 150 people attended the community workshops held on Dec. 7 and 11.
  - We shared some of the ideas that came up in the breakout groups. Chapter authors will use the ideas received at the workshop to add/refine focus area strategies and actions.

6. Draft schedule for updating Climate Action Plan
  - We reviewed the draft schedule (see meeting packet).
7. Draft 2019 Progress Report and 2020 Workplan
  - Edit: Say we will do “a workshop and a survey” (not “several workshops”). We can note that people will also have the opportunity to comment by coming anytime to one of our monthly meetings.
8. PSE study session with Utilities Advisory Committee
  - There will be a joint session for the UAC and CCAC with Puget Sound Energy on February 3. It will be open to the public. PSE will send subject matter experts.
9. PSE slide deck from Jens
  - Jens shared a presentation with thoughts on PSE’s Integrated Resource Plan and its Bainbridge Island initiative to improve reliability of service (see meeting packet).
10. Police/court building
  - Council wants it to be as energy-efficient as possible. We aren’t sure what the building’s current energy performance is. The cost of additional energy efficiency should be done as a lifetime assessment. The City could put out an RFP for an energy audit. PSE advisors could also take a look.
  - Lara mentioned that the Climate Change Adaptation Certification Tool could be used to take a look at the police/court building. It takes a couple of hours to run a project through the tool.
11. Other updates, report-outs, and other business
  - Troubleshooting ICLEI access information for Committee and BI School District.
  - Checked in on status of Green Building Code process – take it up with the new Council in the new year.
  - It was raised that Bainbridge Island should declare a climate emergency like the City of Tacoma recently did; Lara will send around that declaration.
  - Climate and Energy Forum: January 11 from 10-12. The Committee voted and supports having City Hall be the venue for this event.
  - Movies that Matter: January 9 at 7 pm at Bainbridge Public Library, topic is small-scale agriculture.
12. Upcoming meetings
  - Wednesday, January 15, 6:30-8:30 pm.
  - Monday, February 24, 6:30-8:30 pm.
13. The meeting was adjourned at 8:24 pm.

## **Joint Study Sessions with Climate Change Advisory Committee, Utilities Advisory Committee and Puget Sound Energy**

**Purpose:** The purpose of the study sessions is to discuss issues that are important for the Climate Change Advisory Committee (CCAC) to understand as they develop the Climate Action Plan (CAP) and for the Utilities Advisory Committee (UAC) as do their work.

### **Date/Time/Location**

Monday February 3<sup>rd</sup>

6:00 pm – 8:00 pm

Bainbridge Island City Hall

### **Agenda**

6:00 – 6:10: Welcome/Introductions/Purpose (Mike Cox, CCAC Co-Chair)

6:10 – 6:20: Presentation - PSE's plan to achieve the WA State Clean Energy Transformation Act (CETA)'s targets and the role PSE sees for Bainbridge Island in that transformation (presenter, title)

6:20 – 6:35: Discussion (All)

6:35 – 6:45: Presentation - Expected load growth on BI, key assumptions, and contributing factors (presenter, title)

6:45 – 7:00 – Discussion (All)

7:00 – 7:10: Presentation - Options for energy conservation and demand response on BI & community outreach (presenter, title)

7:10 – 7:25: Discussion (All)

7:25 – 7:35: Updates (presenter, title)

- PSE's green power and solar choice programs' revenue streams and state rules
- Renewable energy project development like community solar (also relates to PSE's recent RFI)

7:35 – 7:45: Discussion (All)

7:45 – 7: 55: Public Comments

7:55 - 8:00: Wrap-up and Next Steps

**RESOLUTION NO. 2020-XX**

**A RESOLUTION** of the City Council of Bainbridge Island, Washington, hereby declaring the existence of a Climate Emergency, reaffirming the City's commitment to Climate Action, and establishing a requirement for City planning and projects to be subjected to a Climate Change Mitigation and Adaptation Certification process, to ensure future City projects and actions are consistent with its adopted climate goals and policies.

**Commented [S1]:** See comment below- this should be further defined

**Commented [S2]:** See comment below- this should be defined

**WHEREAS**, in April 2016, world leaders from 197 countries from across the globe from 175 countries recognized the threat of climate change, that it is caused by human related greenhouse gas emissions, and the need to urgently combat it by adopting the Paris Climate Agreement, and working to limit global temperature increase warming to no more than 1.5°C; and

**Commented [S3]:** The change may avoid the decision on what number to use--number of countries that have adopted it (197) or the number that have actually signed it (179) I don't actually know the correct number.

**WHEREAS**, on September 12, 2017, the Bainbridge Island City Council adopted Resolution No. 2017-20, affirming the City of Bainbridge Island's commitment to meet or exceed the greenhouse gas goals established in the Paris Climate Agreement; and

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**WHEREAS**, in 2018, the United Nations' Intergovernmental Panel on Climate Change ("IPCC") warned that it would not be possible to meet the 1.5°C goal unless global greenhouse gasses were reduced 45 percent below 2010 levels by 2030, requiring an unprecedented transformation of every sector of the global economy over the next 11 years; and

**Commented [S4]:** in ?

**WHEREAS**, global temperatures having increased approximately 1.1°C above late 19th century levels, causing overall climate disruption and global warming, resulting in higher temperatures, altered precipitation patterns, rising seas and acidified oceans, which in turn are causing increased and more intense intensifying wildfires, floods, loss of habitat, new ranges for diseases and pests, adverse human health and environmental effects, economic hardship, homelessness, species extinctions, food and potable water shortages, droughts, and extreme weather; and

[WHEREAS, the Ninth Circuit Court of Appeals recently recognized that climate change is an existential threat and that the political branches have not done enough to address the problem.]

**Commented [S5]:** This is sort of a placeholder- I haven't actually read the opinion yet so may want to reword this but it seems like a good thing to mention. ( this is the recent decision in the case involving Our Children's Trust- they dismissed the case but reportedly made a number of statements about climate change and the need to do something about it)

**WHEREAS**, Bainbridge Island is an Island surrounded by a sea, which is predicted to rise significantly in the coming years due to climate change; and

**WHEREAS**, Bainbridge Island's Comprehensive Plan, which serves as the City's Sustainability Plan, calls for the protection of the Island's finite environmental resources; and

**WHEREAS**, Bainbridge Island's Comprehensive Plan also calls for the reduction of greenhouse gas emissions, along with adaptation to the ~~effects of~~ climate change impacts; and

**WHEREAS**, in 2017 the City Council took a step towards implementing the goals and policies contained in the Comprehensive Plan by creating a Climate Change Advisory Committee to assist in ~~continuing to implementing~~ the Comprehensive Plan's climate related goals, including a reduction of our Island's greenhouse gas emissions and an increase in our Island's adaptation to the effects of climate change; and

**WHEREAS**, at its annual retreat in January of 2019 the City ~~declared~~made the creation and implementation of a Climate Action Plan one of its highest priorities for the coming year; and

**WHEREAS**, the City's Climate Change Advisory Committee ~~is has been~~ working on a ~~developing a draft~~ Climate Action Plan and ~~strives to present~~ will be presenting that a draft plan to the City Council in ~~late spring~~ March of 2020; and

**WHEREAS**, the City is also working to develop a Sustainable Transportation Plan, to promote a shift in transportation modes, with an overall goal of a net reduction in transportation related greenhouse gas emissions, as well as a host of additional related ~~economitant~~ benefits; and

**WHEREAS**, the City ~~will appoint~~ has appointed a Green Building Task Force to develop a green building program where buildings are designed to reduce the overall impact of the built environment on human health and the natural environment by efficiently using energy, water and other resources; and

**WHEREAS**, despite the current climate-related planning there are additional short-term actions that ~~could and~~ should be taken to advance progress on the overall goals of climate change mitigation and adaption even prior to final adoption and implementation of the ~~City's aforementioned~~ climate-related plans; and

**WHEREAS**, the longer we delay taking action to reduce greenhouse gas emissions, the greater the threat posed by climate change to current and future generations, and the more costly it will be to protect and maintain our community and natural environment; and

**WHEREAS**, the City of Bainbridge Island takes pride in being a model City for progressive environmental legislation and sustainability, and has demonstrated itself to be a leader in this front through numerous adopted Ordinances and Resolutions; and

**WHEREAS**, on September 20, 2019, the City's youth and young adults joined with their companions around the world to call for a global climate strike and greater, more urgent climate leadership from their elected officials and public institutions.

**NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BAINBRIDGE ISLAND DOES RESOLVE AS FOLLOWS:**

**Section 1.** The City declares that our City, region, state, nation, global humanity and the natural world are experiencing a Climate Emergency. The City Council hereby expresses a renewed commitment to ensure its actions and every decisions going forward are in line with reducing the impact of that emergency, and that no decision results in a net increase in emissions that further contribute to the problem of Climate Change.

**Section 2.** The City will require that all of its plans and projects will be evaluated through a "Climate Lens", in the form of a Climate Change Mitigation and Adaptation Certification process prior to approval to ensure they are consistent with the City's adopted climate goals and policies, including reductions in greenhouse gas emissions and reduced climate vulnerability of city, community and individual assets, environmental qualities, resources and values.

PASSED by the City Council this \_\_\_\_ day of \_\_\_\_\_, 2020.

APPROVED by the Mayor this \_\_\_\_ day of \_\_\_\_\_, 2020.

By: \_\_\_\_\_  
\_\_\_\_\_, Mayor

ATTEST/AUTHENTICATE:

By: \_\_\_\_\_  
Christine Brown, City Clerk

FILED WITH THE CITY CLERK:  
PASSED BY THE CITY COUNCIL:  
RESOLUTION NO. \_\_\_\_\_

2020-\_\_

**Commented [S6]:** I think we need to rethink this part of the document. - the items should not be creating new "requirements" and need to be within the Councils current authority. I'll provide some specific ideas a bit later. I suggest deleting this entire item. I

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**Commented [S7]:** how will this be measured? Does the city have the capacity/knowledge/information to do this analysis? Or would the project proponent need to conduct the analysis? Is it no net increase in emissions- or no net increase that further contribute? Is there authority within the current code to allow the city to reject a project that results in an increase? The edits are suggested to make the commitment more aspirational rather than enforceable.

**Commented [S8]:** "all plans and projects" , "every decision" ... is very broad and undefined- should be all "major" decisions- or decisions above a certain acreage, square footage, fiscal impact of over a specific amount, projects requiring city approval. Is this just for City projects or for any project that need city approval, or city endorsed/sanctioned projects? The city code would need revisions to actually require this.

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**Commented [S9]:** More clarity on just what this means is needed. What are the criteria,- who develops the CC mitigation and adaption certification process. Assuming this means a project would have to be certified before it can go forward I think either the certification process or the specific criteria needs to be in place or defined. If a project doesn't pass the certification can it go forward anyway as long as the impacts are evaluated?

# Climate Action Plan Review Session

**CCAC**

**Monday January 27th**

# CAP Content

Sections	# Goals	# Targets	# Strategies	# Priority Actions	# Other Actions	# Pages
Exec. Summary	NA	NA	NA	NA	NA	6
1. Intro.	NA	NA	NA	NA	NA	20
2. GHG Inventory	NA	NA	NA	NA	NA	10
3. Energy	3	4	6	25	0	6
4. Buildings	2	4	5	13	13	6
5. Transportation	3	7	7	9	24	6
6. Waste Reduction	4	6	10	17	12	7
7. Natural Environment	5	4	9	28	19	9
8. Community Engagement	3	4	5	21	0	7
9. Implementation	NA	NA	4	9	0	3
<b>Total</b>	<b>20</b>	<b>31</b>	<b>46</b>	<b>122</b>	<b>68</b>	<b>80</b>

# General Comments

## Mike

- Need to shorten “Challenges and Current Actions” Areas
- Where possible: have one target per goal and consolidate strategies
- Need to determine how to prioritize actions?
  - Timeframe (short term = 1 year; medium term = 3 years; long term = 5 years.)
  - Criteria (potential for GHG reduction; build on existing programs; low cost; addresses equity issues)

## Julie

- Overlap between energy, buildings, and transportation
- Consolidate Emergency Preparedness actions into Community Engagement
- How do we reflect ideas from the workshops that were not included in plan (e.g., put all comments in appendix, indicate which ideas we did not incorporate)?
- Include “Level of Effort” for each action in the matrix for that action (high, medium, and low)
- Move individual’s actions, not those by City, into Community Engagement/Citizen Action.
- Climate Adaptation Certification comes up a couple times. Need to explain what this is and entails.
- Do we want water as a separate focus area (came up at workshops)?
- Need to be thoughtful about using “all” and “every” (e.g, in buildings what is meant by “all renovated” buildings)

## Gary

- Concern with lack of specificity in GHG inventory for transportation sector and difficulty in tracking progress.
- Need to incorporate verification metrics into the plan.

# Process for Review

**Section 1 - Introduction, 2 – GHG Inventory, and 9 - Implementation:** General discussion at CCAC meetings and provide detailed comments in the google docs

**Sections 3-8:** We will discuss each section at CCAC meetings and provide editorial comments in google docs. I have provided questions to think about when reviewing. I am sure you will have your own.

- **Goals for each section**
  - Are the goals clear?
  - Are there goals missing or could we delete or combine some?
- **Targets for each section**
  - Are the targets clear and aligned with specific goals and strategies?
  - Do we have the tools to measure or quantify the targets?
  - Are the targets achievable?
  - Are there targets missing or could we delete or combine some?
- **Strategies for each section**
  - Are the strategies clear?
  - Will the strategies help meet the goals?
  - Are there any goals that are not supported by strategies?
  - Are there strategies missing or could we delete or combine some?
- **Priority Actions for each section**
  - How did you decide on what were priority actions or other actions?
  - What is the balance between priority actions and other actions.
  - Are there priority actions we can delete or combine some?

# Section 1: Introduction

1.0: Background

1.1: Why Develop a CAP?

1.2: Federal, State, and Local Climate Legislation

1.3 BI Climate Impact Assessment

- Temperature
- Precipitation
- Sea Level Rise
- Vegetation Change
- Slope Stability

1.4: Results from Community Survey and Workshop

1.5: Goals of CAP

1.6: Challenges with Developing CAP

# Section 2: GHG Inventory

2.0: Background

2.1 Inventory Approaches

2.2 Inventory Methodology

2.3 Inventory Boundaries

2.4 Inventory Years

2.5 Inventory Results - Community Emissions

2.6 Inventory Results - City Government Operations

2.7 Inventory Results - Consumption Based Emissions

2.8 Greenhouse Gas Reductions Needed to Meet Targets

2.9 Conclusions and Next Steps

# Section 9: Implementation

9.1 Kickstarting implementation

9.2 Leadership

9.3 Equity

9.4 Accountability, reporting, and future updates

9.5 Funding

# Energy

# Goals/Targets

**Goal A: Increase energy conservation and efficiency, including customer-owned generation, across all energy sectors (electricity, transportation, and heating and cooling).**

- By 2023, Bainbridge should establish a Green Building Fund to assist with conversions and efficiency upgrades, with a focus on low-income housing.

**Goal B: Eliminate carbon-based energy sources from all energy sectors.**

- By 2021, Bainbridge should add policies that prohibit new propane and heating oil as sources of heating in new developments.
- By 2040, all of Bainbridge Island's sources of energy used to power buildings, transportation and infrastructure should be carbon-free.

**Goal C: Create energy self-sufficiency for emergency preparedness and increase energy infrastructure reliability and resilience in light of the changing climate (will move to community engagement).**

- By 2023, Bainbridge should establish half of the emergency hubs with 6-20kW solar arrays and storage for resilience.

# Strategy A.1. Promote energy efficiency through existing and potentially newly funded City programs.

## Priority Actions

- Use high-performance retrofit technologies in City projects (e.g., Police Station, WWTP improvements).
- Convert City motor vehicle fleet to electric where feasible, including creating EV infrastructure to support this transition.
- Create a matrix of incentives for building owners within the permitting process to increase energy efficiency in their projects.
- Work with PSE to increase access to energy conservation and efficiency programs, focusing on below-average-income households and nonprofit organizations. Real-time feedback on usage potentially leading to TOU (time of use) pilot program. Smart Meters and other forms of demand management (EVs, washing machines, hot water tanks, cooling). This should include customer-owned generation like roof-top solar to include assistance for condo associations to be supported in organizing projects. Strong marketing campaign with local whitepapers of success.
- Work with the Affordable Housing Task Force to develop a subsidized home energy efficiency retrofit program.
- Develop a tool kit and provide resources for homeowners to reduce energy use. Reinstate a REPOWER entity.

# Strategy A.2. Establish a Bainbridge Green Energy Fund

## Priority Actions

- Create a new Green Energy Fund similar to the funds collected from the PSE Solar Choice and Green Power programs.
- Utilize resources from the Green Energy Fund to provide incentives to building owners, residents and businesses, and automotive drivers to increase electrification conversions.
- Develop a feedback scoring system to award points for deeper energy savings.

# Strategy B.1. Partner with energy providers and local businesses on programs that will reduce emissions.

## Priority Actions

- Work collaboratively with PSE to move towards a 100% carbon-free electrical supply, preferably sooner than the WA State mandated goals.
- Work with PSE and local banks/credit unions to create local renewable energy projects, such as community solar, urban wind power, and other forms of generation and storage.
- Develop local policies that incentivize renewable energy adoption and passive PV solar or other technologies. Schools and fire should be taking advantage of their large roof spaces.
- Partner with PSE, Chevron/76 and other gasoline providers for electric vehicle fast charging stations at strategic locations.
- Create a local cargo e-bike subsidy that encourages island residents to run errands by cargo e-bike instead of by car.
- Develop incentives to replace propane use as a primary heating source with a cleaner energy source.

## Strategy B.2. Partner with neighboring municipal and tribal communities on programs that will reduce emissions.

### Priority Actions

- Develop and hold trainings for Island and neighboring communities' contractors that can help Bainbridge Island to implement the fuel-switches from carbon-based to electrification of building stock.
- Collaborate with neighboring and tribal communities to learn about more sufficient-living practices over efficient living styles.

# Strategy C.1. Create microgrid for critical infrastructure within community energy resources

## Priority actions

- Work with PSE to develop a local program to encourage owners of homes that have sufficient potential to acquire customer-owned generation like roof-top solar and small wind turbines.
- Research and develop microgrids for community emergency preparedness centers (City Hall, Seniors Center, BI Schools, Island Wood). Reference Bainbridge Prepares.
- Research the community's willingness to underground Transmission and/or Distribution while also providing walking biking corridors for safety and mobility.
- Work with WSF to install charging infrastructure at the ferry that will improve resiliency for the Island.
- Investigate partnerships with adjacent communities to COBI (Poulsbo, Suquamish, Kitsap, Brownsville, Manchester, Silverdale) in order to coordinate and utilize similar technologies and information sharing.

# Strategy C.2. Large scale neighborhood microgrids with distributed energy resources

## Priority actions

- Research and develop large scale neighborhoods microgrids with customer-based storage.
- Research and develop large scale neighborhoods microgrids with utility-scale energy storage.
- Research the feasibility of a co-located CHP (combined heat and power) biodigester sited adjacent to the community pool.

# Transportation

# Goals/Targets

## **Goal A: Reduce motorized vehicle miles traveled per capita**

- By 2021, adopt requirements for supporting non-motorized transportation in new development
- By 2030, reduce single occupancy motor vehicle miles traveled per capita by at least 15%

## **Goal B: Increase use of public transportation.**

- By 2025, expand public transit service on island by 25% (as measured in vehicle-miles)
- By 2025, increase the mode share of public transit by 25%

## **Goal C: Increase access to and use of electric mobility options (cars, bikes, and buses) and support the development of electric ferries.**

- By 2021, adopt requirements for supporting EV-ready infrastructure in all new developments
- By 2023, have charging stations installed at all island commercial centers
- By 2030, transition the City's fleet to 75% electric vehicles and the remainder on biofuels

**Strategy A.1: Develop interconnected network of infrastructure to improve safety and expand options to increase non-motorized transportation on the Island for people of all ages and abilities.**

Priority actions (7 other actions)

- Fully implement the recommendations of the Island-wide transportation plan's non-motorized components, which addresses infrastructure improvements and additions that support safe walking and biking, and addressing and reducing or removing barriers to non-motorized transportation.

# Strategy A.2: Promote mixed-use development that enables greater use of non-motorized transportation options.

## Priority actions (6 other actions)

- Require incorporation of non-motorized transportation options into all new development, e.g., by including sidewalks or pedestrian trails linked to existing trail/sidewalk networks; incorporating bicycle lanes and trails; etc.

# Strategy B.1. Work with Kitsap Transit to encourage the use of existing transit and expanding service on the Island.

## Priority actions (3 other actions)

- In consultation with Kitsap Transit, develop a robust marketing/outreach/educational program to inform island residents about public transit options, including park and rides (including, for example, information for island visitors on bus/transit routes & options).

## Strategy B.2. Encourage greater use of school buses and carpooling for student transportation.

### Priority actions (3 other actions)

- Work with public school district on measures to discourage private-vehicle drop-offs and pick-ups, encourage car-pooling, and promote greater use of school buses.

## Strategy B.3. Prioritize transit-oriented new development.

### Priority actions (0 other actions)

- Require all new development to accommodate non-motorized and public transit transportation options (including incorporation of bus shelters and other amenities).

# Strategy C.1: Convert municipal vehicle fleet.

## Priority actions (2 other actions)

- Create a plan for transitioning City fleet to primarily electric vehicles and using biofuels where electric vehicles are not an option.

## Strategy C.2: Develop infrastructure to support electric vehicles.

### Priority actions (2 other actions)

- Require that all new development be EV charge-ready and that multifamily units include EV charging infrastructure.
- Install additional charging stations in commercial centers.

## Strategy C.3: Support, as needed, efforts to electrify ferry vessels.

### Priority actions (1 other action)

- Coordinate with Washington State Ferries, PSE, and other entities as necessary to evaluate the need for, and feasibility of, establishing charging infrastructure on the island to service ferries.

# Buildings

# Goals/Targets

## **Goal A: Reduce greenhouse gas emissions from all municipal, commercial, and residential buildings**

- By 2023, all new and renovated municipal, residential, commercial, and industrial buildings, including affordable housing, are required to meet all green building standards and practices adopted by the City.
- By 2025, all existing residential, commercial, industrial and municipal buildings are required to be all electric.

## **Goal B: Establish procedures to ensure buildings and infrastructure are resilient to climate change impacts**

- By 2022, the City will have completed an analysis and developed a plan, and a process for regularly updating the plan, to ensure all City owned assets will be protected from sea level rise over the next 50 years.
- By 2023, the City will have completed an analysis, and public outreach activities, identifying those properties at highest risk from sea level rise impacts over the next 50 years.

# Strategy A.1: Require adoption of green building practices and standards for all new and renovated buildings.

## Priority Actions (5 other actions)

- Establish a Green Building Task Force to develop required green building standards and practices for the Island.
- Prohibit propane and heating oil as the primary energy source for heating and cooling in all new and renovated buildings.
- Provide incentives for existing buildings to replace propane and heating oil use as a primary heating and cooling source.

# Strategy A.2. Establish or expand programs to assist building owners to reduce greenhouse gas emissions, energy use, and water consumption

## Priority Actions (5 other actions)

- Work with PSE to raise awareness about existing rebate and assistance programs, and explore creating new incentive/rebate programs, including customers that do not use electricity for heating/cooling and expand homeowner energy efficiency workshops and other energy efficiency outreach (also in energy section).
- Work with PSE to develop a local program to encourage owners of homes that have sufficient potential to acquire customer-owned generation like roof-top solar and small wind turbines.
- Work with PSE and partnering entities such as Housing Resource Board to increase access to energy conservation and efficiency programs, focusing on below-average-income households and nonprofit organizations.

# Strategy A.3 Establish a Green Energy and Building Fund (applicable to energy section)

## Priority Actions (0 other actions)

- Establish a fund to assist in energy audits for residential home projects, including affordable housing, using the “no net increase” requirement.
- Provide financial incentives for existing building owners to transition from combustion equipment to all electric buildings.
- Apply for grants and subsidies for energy efficiency improvements for low-income residents to mitigate equity concerns.

# Strategy B1: Identify and mitigate city assets at risk due to sea level rise

## Priority Actions( 1 other action)

- As recommended by the 2019 CCAC Report on Sea Level Rise, conduct a systematic, high-resolution analysis of exposure of City assets and create a prioritized list for addressing assets at high risk.
- Integrate sea-level rise analysis into all City planning to identify and avoid or minimize risk to planned infrastructure and development

# Strategy B2. Help property owners identify risks to extant and planned infrastructure from sea level rise and other climate change impacts.

## Priority Actions(2 other actions)

- Integrate sea-level rise analysis into all City permitting to help applicants identify and avoid or minimize risk to planned infrastructure and development. This includes both elevational data as well as impacts on shore forms and processes including geologically hazardous areas, shoreline erosion rates, and saltwater intrusion.
- Host community workshops on climate impacts, how they might impact buildings, and how to prepare buildings from these impacts.

# Strategy B.3: Incorporate climate change into City emergency preparedness programs (will move to Community Engagement Section).

## Priority Actions

- City works with Climate Change Advisory Committee and others to develop materials on the impacts of climate change to include in their emergency preparedness outreach.

# Waste Reduction

# Goals/Targets

## **Goal A: Reduce Island residential, commercial, and industrial waste generation.**

- By 2021, the City's approved sustainable procurement plan is applied across all departments for 100% of purchases.
- By 2021, establish an ordinance to substantially reduce the use of single-use disposable food serviceware by Island businesses
- By 2023, there are adequate numbers of water dispensers in City facilities and other public locations, such as sports fields, so that residents and visitors can easily refill reusable water bottles with clean drinking water, and there are no single-use plastic water bottles sold on the island.

## **Goal B: Increase diversion of waste from the landfill.**

- By 2023, regular commercial compost services are established and consistently used.
- By 2025, Bainbridge Island has a requirement for the diversion of all food waste from landfill

## **Goal C: Optimize collection and disposal systems to minimize greenhouse gas emissions.**

- By 2030, Bainbridge has a closed-loop system for its green waste, such that organic materials are recycled and reused on Island to the maximum extent practicable.

## **Goal D: Ensure that any new waste-related infrastructure, such as transfer stations, composting facilities, is not sited in current or future hazard areas.**

# Strategy A1: Promote sustainable consumption within City operations

## Priority actions (1 other action)

- Require an annual audit of the City's sustainable procurement policy to ensure compliance.
- Centralize purchasing within the City to increase consistent adherence to the sustainable procurement policy.
- Install hydration stations in all municipal and park facilities to allow refills of reusable water bottles.

# Strategy A.2 Promote sustainable consumption in the community

## Priority actions (4 other actions)

- Adopt an ordinance to reduce the use of single-use plastic food serviceware by all food service establishments, including take-out containers.
- Support efforts to make hydration stations available throughout the community.

# Strategy A.3. Reduce food waste by both commercial entities and residents

## Priority actions (2 other actions)

- Educate the community about ways to reduce food waste and promote opportunities for viable food to get to those who need it, including food banks and neighborhood giving.
- Work with partnering organizations such as Kitsap Harvest to increase collection of excess fresh food (i.e., gleaning, or harvesting excess or unwanted crops for distribution to those in need) at private and public farmlands.

# Strategy B.1. Increase composting within City facilities.

## Priority actions (0 other actions)

- Consistently pair and provide clear signage for all compost and recycling bins in all meeting rooms in COBI facilities.

## Strategy B.2 Expand residential and commercial recycling and composting participation

### Priority Actions (5 other actions)

- Work with Bainbridge Disposal to offer weekly instead of biweekly curbside compost pickup for commercial facilities.
- Require that all food service businesses participate in curbside composting, and incorporate oversight and enforcement into these requirements.
- Require that all commercial entities participate in recycling.

## Strategy B.3 Require waste diversion at City-permitted special events

### Priority actions (0 other actions)

- Require that organizers and vendors of festivals, sporting events, and official gatherings provide and fund composting and recycling services for their events to maximize waste diversion from landfill; this can be done through language in permit forms for special events.
- Fund oversight and enforcement of waste diversion at City-permitted events.

# Strategy B.4 Increase the collection and diversion of construction and demolition waste

## Priority actions (0 other actions)

- Study ways to require and incentivize the reduction, collection and diversion of construction and demolition waste.

# Strategy C.1 Reduce greenhouse gas emissions associated with disposal of wastewater treatment plant biosolids

## Priority actions (0 other actions)

- Evaluate options for reducing the greenhouse gas emissions associated with disposal of wastewater treatment plant biosolids; for example, through the use of on-site anaerobic digester and/or through selection of vendors that can find more local application of biosolids.

## Strategy C.2 Reduce greenhouse gas emissions associated with off-island transportation of green waste.

### Priority actions (0 other actions)

- Evaluate and support opportunities to build infrastructure for on-island or more local processing of green waste.

Strategy D.1 Consider projected climate change impacts and factor that into site selection.

Priority actions (0 other actions)

- Apply the Climate Change Adaptation Certification to any new waste-related infrastructure projects.

# Natural Environment

# Goals/Targets

**Goal A: Steward Bainbridge Island's natural resources to function as healthy, resilient ecosystems that can continue to serve multiple ecological functions.**

**Goal B: Manage forested areas for healthy soil and ecosystems that are resilient to climate change.**

- By 2025, the City will adopt a forest management plan that incorporates adaptation to climate change risk factors including wildfire, drought and pathogens, and will be working collaboratively with all stakeholders that manage forest resources to establish consistency in priorities and planning for climate change impacts on forests across jurisdictions and ownership.

**Goal C: Protect and maintain the integrity of our Island's surface and groundwater resources in the face of climate change.**

- By 2023, the City will adopt a groundwater management plan that accounts for climate change in its projections and guidance.

**Goal D: Steward our Island's shorelines to allow for resilience in the face of climate impacts including sea level rise.**

- By 2025, the City will integrate into its Shoreline Master Program approaches to address and adapt to the impacts of sea level rise on the natural resources of our shorelines, and will be working collaboratively with all stakeholders that manage shoreline resources to establish consistency in priorities and planning for sea level rise across jurisdictions and ownership.

**Goal E: Support an agricultural system that prioritizes climate change resilience, local food production, and ecosystem services**

- By 2023, Bainbridge Island will adopt community goals for local food production and consumption.

# Strategy A1: Steward Bainbridge Island's natural areas using the best scientific knowledge available.

## Priority Actions (4 other actions)

- Ensure that the City is using the most appropriate, relevant and recent data and information about natural resources, climate change and other associated parameters in decision-making.
- Develop and adopt a comprehensive strategy for addressing invasive species on City lands to reduce these significant stressors on forested ecosystems.
- Work with partners including the Bainbridge Island Land Trust to refine and update mapping resources of key wildlife habitat of interior forest cores and connective networks.
- Evaluate all land acquisition and development decisions using the Climate Change Adaptation Certification (or other similar tool) to ensure decisions are climate informed.

# Strategy B1. Proactively manage Bainbridge forests for anticipated vegetational composition shifts expected under climate change.

## Priority Action (2 other actions)

- Work with City arborist and partnering community groups, as appropriate, to create a preferred list of tree and plant species expected to be favored by climate change projections for use in City planning and restoration efforts. This list can also be used to advise local landowners and be applied to climate savvy development.

# Strategy B2: Mitigate wildfire and forest disease risk through proactive forest management

## Priority Actions (1 other action)

- Conduct an assessment of stocking densities on City owned lands and evaluate forest health improvements and wildfire risk reduction.
- Prioritize the control and elimination of early-successional invasive species such as scotch broom that are known to have additional wildfire risk (flammability).
- Prioritize wildfire risk reduction in proximity to homes and infrastructure while prioritizing retention of wildlife habitat values in areas farther from homes and infrastructure, and creating wildfire reducing design guidelines for island construction (residential and business)
- Work with partnering agencies, including the Bainbridge Island Fire Department, to help communicate to private landowners techniques and resources for reducing wildfire risk while maintaining forest health and wildlife habitat values.
- Work with public agencies (e.g., Transportation, Parks) and utilities to design and maintain infrastructure and land use to reduce wildfire risk.

# Strategy C1: Maximize protections for intact hydrologic processes including aquifer recharge and stormwater runoff.

## Priority Actions (3 other actions)

- Incentivize and maximize opportunities for incorporation of water conservation features in Green Design and Building Codes (see Buildings section).
- Prioritize enforcement of the Critical Areas Ordinance to maintain the integrity of streams, wetlands and their buffers.
- Continue a robust surface water monitoring program that can identify trends in streamflow and water quality to inform adaptive management to protect stream health and integrate climate change-sensitive parameters as appropriate into monitoring.
- Prioritize the restoration of wetlands that have been degraded by historic use, clearing, hydrologic alteration and/or invasive plants.

## Strategy C2: Identify and implement targets that will balance aquifer discharge and recharge, incorporating climate change projections.

### Priority Actions (1 other action)

- Complete and implement the City's Groundwater Management Plan, including incorporation of expected changes to groundwater inputs and outputs under climate change.
- Identify and implement targets for sustainable yield (inputs = outputs) of groundwater for human use from all major aquifers. This will include the need to monitor and assess water use from private wells on Bainbridge Island.

# Strategy D1: Incorporate sea level rise and other ocean climate impacts into shoreline management planning decisions

## Priority Actions (2 other actions):

- Ensure that planning for sea level rise is incorporated into decision making around City-owned shorelines, including incorporating capacity for inundation and change to natural shoreline features, such as advance planting for shifting vegetative communities, infrastructure movement or abandonment to adapt to habitat loss at shoreline.
- Implement a monitoring program for tracking shoreline erosion and slope stability around the island that can be used to inform planning decisions and resources, including changes and updates to geologically hazardous areas.
- When creating local rules or making land use or management decisions that can impact nearshore water quality (e.g., nutrient, particulate, or chemical run-off) evaluate acceptable levels of these stresses by including the added stresses of climate change (e.g., increasing water temperature, reduced dissolved oxygen, ocean acidification, altered precipitation) currently present and anticipated.
- Ensure that ecosystem concerns are included in any plans for potential transitions of properties that will be inundated by sea level rise or degraded by coastal erosion and/or slope instability to open space or living shorelines. Begin community conversations regarding our desired outcomes related to sea level rise, coastal erosion and slope instability.

# Strategy E1: Identify community goals for local food production and consumption

## Priority Actions (0 other actions)

- Identify targets for local food production on Public Farmland
- Working in partnership with private farmers and stakeholders (e.g., Friends of the Farms), collaboratively identify community targets for local food production

# Strategy E2: Identify opportunities for reducing water use and increasing water conservation on agricultural lands.

## Priority Actions (1 other action)

- Integrate water budget targets (see Strategy C2) into agricultural land use permitting and planning.
- Ensure that water-dependent permits include plans for future water conditions.
- Collaborate with Public Farmland partners and resource agencies (e.g., Kitsap Conservation District) to ensure water conservation efforts are integrated into public farmland management.

Strategy E3: Improve manure management to reduce emissions associated with livestock waste and fertilizer delivery.

Priority Actions (2 other actions)

- Require manure management for all permitted agricultural activities.

# **Community Engagement and Citizen Action**

# Goals/Targets

**Goal A: Increase the Bainbridge community's awareness and knowledge about current and future climate change related impacts and ways to reduce those impacts.**

- A majority of Bainbridge community has ready access to current climate change information and is aware of climate change issues and understands what the City and what they as individuals can do about it. (2021)

**Goal B: Inspire action across the community and partner with local and regional organizations to take meaningful climate change mitigation and adaptation actions.**

- The CCAC meets regularly with other advisory committees, community groups and has established relationships with other jurisdictions to share, support and exchange climate change information and strategies. (2021)

**Goal C: Empower and prepare the City of Bainbridge, and Bainbridge Island residents, for climate impacts and emergencies.**

- City's existing authority, budget and capacity is sufficient to address/respond to climate change related issues.
- COBI budget meets financial needs for high priority/ immediate actions included in the Climate Action Plan. (what is the COBI budget cycle?)

# Strategy A.1. Provide easily accessible educational materials/information throughout the community about climate change.

## Priority Actions

- Develop a dedicated climate change webpage on the City's website including links to climate mitigation/adaptation resources on the CCAC website.
- Make this CAP widely available in on-line and in print formats (copies at the library along with GHG inventory, Sea Level Rise analysis and Bainbridge Island Climate Impact Assessment).
- **Evaluate COBI assets for vulnerability to climate change starting with a sea level rise assessment (in other sections?).**
- **Create tool for use in the evaluation of vulnerability of COBI and non-COBI assets and hold community discussions around vulnerability of COBI and non-COBI sites from climate change (in other sections?).**
- **Incorporate vulnerability evaluations into COBI decision-making for all projects (in other sections?).**
- Actively support educational forums and opportunities provided by other community groups.
- Convene semi-annual events to communicate what City and City committees are doing on climate change.

# Strategy A.2. Increase community knowledge of how to reduce individual impact.

## Priority Actions

- Include a climate change tip of the [month] as a regular feature in the COBI Connects newsletter.
- Hold neighborhood meetings to discuss climate change impacts and what individuals can do.
- Create Bainbridge Island Climate Change Week in conjunction with Earth Month.

# Strategy B.1. COBI partners with local and regional organizations on mitigation and adaptation actions.

## Priority Actions

- Declare a climate emergency and be a regional leader in recognizing the important role that municipal governments can play in taking action to respond to climate change.
- Work collaboratively with and actively support work by existing community groups to disseminate information (Climate Action Bainbridge, Sustainable Bainbridge, Citizens Climate Lobby, and Indivisible the Bainbridge Island Land Trust, Friends of the Farm, Bainbridge Island Woman’s club, Bainbridge Island Parks Foundation and faith-based organizations).
- Encourage increased coordination/collaboration with other City Advisory Committees and Bainbridge Island taxing entities.
- Work cooperatively with other jurisdictions in Kitsap and King Counties (e.g., Poulsbo, Silverdale, Kingston, Bremerton, Seattle) to find regional solutions including mitigation and adaptation actions that would benefit from economies of scale or the sharing of lessons learned.
- Participate in regional forums such as the Puget Sound Climate Preparedness Collaborative, Council of Cities conference, Kitsap Public Transportation, Washington State Ferries and Regional Growth Management Boards, to share best practices and lessons learned regarding climate change mitigation/adaptation strategies.
- Partner with BISD to conduct regular updates to the greenhouse gas inventory using their developed high school curriculum and access to ICLEI resources via a memorandum of understanding with the City.

## Strategy B.2. COBI inspires Bainbridge community members to take meaningful individual action.

### Priority Actions

- Host workshops with hands-on demonstrations for community members to learn how to take specific actions such as building a rain barrel, dehydrate food as part of emergency preparedness, build and use compost bin, use an electric bike, construct a rain garden, assemble an emergency kit, install less resource intensive landscaping.
- Host event(s) for a community project(s) to bring people together to work towards mitigation and adaptation- such as building a community rain garden, working on a trail, making signs for bike/pedestrian routes, pulling ivy, plant climate resilient plants constructing community pea patch...

# Strategy C.1. Ensure the City and community are empowered and have the necessary authority and capability/capacity.

## Priority Actions

- In coordination with the City attorney, review existing laws, regulations and policies and revise as needed. Are they adequate to require or at least encourage greenhouse gas emission reductions from City regulated or endorsed activities as well as from individual activities? Do they provide sufficient authority/flexibility to respond to impacts and emergencies? Are recommended mitigations/adaptations actions allowed?
- Include Climate Change related expenditures in the City budget for education, code compliance, mitigation and adaptation action items identified in the CAP.
- Hire a Climate Mitigation/Adaptation Officer for the City to coordinate activities between and among the various city offices, inspect for compliance with climate related code compliance, serve as a City staff liaison with the CCAC.

# Strategy C.2. Establish programs or networks to ensure the City and community are prepared to effectively adapt to climate change impacts

## Priority Actions

- Include potential climate change impact scenarios, key climate change data and sea level rise examples as part of the annual emergency preparedness exercise and workshops. Coordinate with the Emergency Preparedness group to discuss and develop plans to include climate impact scenarios.
- Establish community centers for recharging generators, cell phones during outages, emergency food/water.
- Develop and support food resilience networks.

# Implementation Table for each Action

Action #	Description	Mitigation, Adaptation, or Both	City Lead (Department or Staff)	Level of Effort (H, M, or L)	CCAC Role	Potential Partners	Time Frame (short or long term)	Targets or Benchmarks
A.2.a	Ordinance to reduce the use of single-use plastic food service ware	M	Council	L	TBD	BIZW	Short-term: Draft ordinance by spring 2020, passed by summer 2020	Business survey may be appropriate-needs to be created

# Individual and Community Actions

- This list is still in development and will include suggestions from the workshops.
- The list will need to be consistent with the individual actions suggested in the other sections.
- They should include mitigation and adaptation actions.
- **Aim for 5-10 ideas per focus area)**

## **Send less waste to the landfill (example)**

- Bring your own containers to restaurants for take-out orders or leftovers.
- Patronize and thank stores that have sustainable alternatives (e.g., bulk items, no packaging, or plastic-free packaging).
- Choose products with less (or no) packaging.
- Buy local.
- Buy less new stuff. Donate or trade things instead of sending them to the landfill.
- Ask your legislators to vote for state policies to decrease single-use plastics.
- Use reusable water bottles and coffee mugs – drink like you live here!
- Volunteer with local groups like Bainbridge Island Zero Waste, which organizes Styrofoam recycling events and diverts waste at festivals.

# Schedule for Draft CAP to City Staff and City Council

Section	CCAC First Review	Revises Completed	City Staff Review and Discussion
Exec. Summary	TBD	TBD	TBD
Intro.	1/27	2/10	2/26 – 3/11
GHG Inventory	1/27	2/10	2/26 – 3/11
Energy	1/27	2/10	2/26 – 3/11
Transportation	1/27	2/10	2/26 – 3/11
Buildings	1/27	2/10	2/26 – 3/11
Waste Reduction	1/27	2/10	2/26 – 3/11
Shorelines/Forests	1/27	2/10	2/26 – 3/11
Community Engagement	1/27	2/10	2/26 – 3/11
Implementation	1/27	2/10	2/26 – 3/11

**February 24<sup>th</sup>: CCAC Meeting: Approve draft for City staff review**

**March 18<sup>th</sup>: CCAC Meeting: Review of City Staff Comments**

**April 21<sup>st</sup>: City Council Review of Draft report**

### **Proposed Schedule for Climate Action Plan (1/21/20)**

**January 27th (CCAC Meeting):** Discuss all sections at meeting and discuss adding individual actions and filling out matrix of items like timeline, responsibility, and individual milestones.

**February 10<sup>th</sup>:** Authors incorporate comments from CCAC meeting and complete matrix with items like timeline, responsibility, and individual milestones and start consolidating into one document.

**February 24<sup>th</sup> (CCAC Meeting):** Approve Draft report for City staff review.

**February 26<sup>th</sup>:** CCAC sends Draft for City staff review.

**March 11<sup>th</sup>:** Receive comments from City Staff from first sections.

**March 18<sup>th</sup> (CCAC Meeting):** CCAC discussions City staff comments

**April 1<sup>st</sup>:** Authors incorporate City staff comments.

**April 15th (CCAC Meeting):** CCAC approves sending Draft to City Council.

**April 21<sup>st</sup>:** City Council reviews draft report

**Mid-May:** Public meeting to discuss Draft CAP.

**Late May:** All comments incorporated into CAP

**Early June:** Final editorial review and formatting of the document

**Late June:** Deliver final CAP to City Council