



CITY OF
BAINBRIDGE ISLAND

**CITY COUNCIL STUDY SESSION
TUESDAY, OCTOBER 06, 2020**

REMOTE MEETING ON ZOOM
NEW PUBLIC LINK: [HTTPS://BAINBRIDGEWA.ZOOM.US/J/95577516826](https://bainbridgewa.zoom.us/j/95577516826)

AGENDA

1. **CALL TO ORDER / ROLL CALL - 6:00 PM**
2. **APPROVAL OF AGENDA/ CONFLICT OF INTEREST DISCLOSURE - 6:05 PM**
3. **MAYOR'S REPORT - 6:10 PM**
4. **FUTURE COUNCIL AGENDAS**
 - 4.A **(6:15 PM) Future Council Agendas, 10 Minutes**
 - [October 13 City Council Regular Business Meeting.pdf](#)
 - [October 20 City Council Study Session.pdf](#)
 - [October 27 City Council Regular Business Meeting.pdf](#)
 - [November 3 City Council Study Session.pdf](#)
5. **BUDGET DELIBERATIONS**
 - 5.A **(6:25 PM) Budget Discussion #2: Key assumptions, Police, Planning and Community Development, Public Works, including Major Maintenance - Finance, 60 Minutes**
6. **PRESENTATIONS**
 - 6.A **(7:25 PM) Presentation of Climate Action Plan for the City of Bainbridge Island - Climate Change Advisory Committee, 60 Minutes**
 - [1. Presentation CCAC Draft CAP October 6th 2020.pdf](#)
 - [2. CAP Transmittal Memo for CC 10062020 - FINAL.pdf](#)
 - [3. Draft Bainbridge Island Climate Action Plan October 1st 2020.pdf](#)
 - [4. CAP Working Implementation Matrix September 25th 2020.pdf](#)
 - [5. Comparison of CAP and GBTF Recommendations September 25th 2020.docx](#)
 - [6. Comparison of CAP and STTF September 25th 2020.docx](#)
 - [7. CCAC recommendation on use of EcoAdapt Climate Change Adaptation Certification Tool August 20th 2020.docx](#)

8. Proposal to reconvene UAC and CCAC subgroup on PSE Franchise September 25th 2020.docx

7. UNFINISHED BUSINESS

7.A (8:25 PM) Sustainable Transportation Plan Update - Public Works, 10 Minutes

7.B (8:35 PM) Update on the Development Moratorium - Planning, 10 Minutes

20201001 Moratorium Work Program Status Report.docx
ORD NO. 2020-24 EXTENDING THE DEVELOPMENT MORATORIUM.pdf
Development Moratorium Summary Effective 20200930.pdf

7.C (8:45 PM) Update from Joint City Council and Planning Commission Land Use Subcommittee - Councilmembers Carr, Hytopoulos, and Pollock, 10 Minutes

7.D (8:55 PM) Ordinance No. 2020-23, Creating a Standing Race Equity Advisory Committee - Executive, 20 Minutes

Staff Memo - Recommended Discussion Points
Ordinance No. 2020-23, Creating a Standing Race Equity Advisory Committee - 10-6-2020 Draft

8. NEW BUSINESS

8.A (9:15 PM) Legislative Review of Land Use Regulations (Code Amendment), related to Eliminating a 500' Setback that Applies to Waste Transfer Facilities and Increasing Lot Coverage for Two Lots Commonly referred to as the "Triangle Property" - Planning,

30 Minutes

20201002_CC_Staff_Memo_Aveterra_Legislative_Review_of_Land_Use_Regulations
Attachment A_Planning Commission Review Summary
Attachment B_Planning Commission Recorded Motion

8.B (9:45 PM) Appointment to Kitsap Public Facilities District Board - Mayor Schneider, 5 Minutes

Bullock - Kitsap Public Facilities District (Redacted).pdf
[For Background] Kitsap County Resolution No. 93-2000.pdf
[For Background] Kitsap County Resolution No. 139-2000.pdf

9. CITY COUNCIL DISCUSSION

9.A (9:50 PM) Letter to Washington Utilities and Transportation Commission (UTC) relating to the Sale of Puget Sound Energy's Colstrip Plant - Councilmember Hytopoulos, 10 Minutes

Bainbridge letter to UTC draft Sept 30.pdf
Colstrip talking points September 2020.pdf

9.B (10:00 PM) Council Process for Disciplinary Response - Councilmember Nassar, 10 Minutes

10. FOR THE GOOD OF THE ORDER - 10:10 PM

11. ADJOURNMENT - 10:20 PM

GUIDING PRINCIPLES

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Guiding Principle #7 - Reduce greenhouse gas emissions and increase the Island's climate resilience.

Guiding Principle #8 - Support the Island's Guiding Principles and Policies through the City's organizational and operating budget decisions.



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CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 10 Minutes

AGENDA ITEM: (6:15 PM) Future Council Agendas,

SUMMARY: Council will review future Council agendas.

AGENDA CATEGORY: Discussion

PROPOSED BY: Executive

RECOMMENDED MOTION: Discussion.

STRATEGIC PRIORITY: Good Governance

FISCAL IMPACT:

Amount:	
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	

BACKGROUND:

ATTACHMENTS:

[October 13 City Council Regular Business Meeting.pdf](#)

[October 20 City Council Study Session.pdf](#)

[October 27 City Council Regular Business Meeting.pdf](#)

[November 3 City Council Study Session.pdf](#)

FISCAL DETAILS:

Fund Name(s):

Coding:



CITY OF
BAINBRIDGE ISLAND

**CITY COUNCIL REGULAR BUSINESS MEETING
TUESDAY, OCTOBER 13, 2020**

REMOTE MEETING ON ZOOM

AGENDA

1. **CALL TO ORDER/ROLL CALL - 6:00 PM**
2. **EXECUTIVE SESSION**
3. **APPROVAL OF AGENDA / CONFLICT OF INTEREST DISCLOSURE**
4. **PUBLIC COMMENT**
5. **MAYOR'S REPORT**
6. **CITY MANAGER'S REPORT**
7. **FUTURE COUNCIL AGENDAS**
 - 7.A **Future Council Agendas**, 10 Minutes
8. **BUDGET DELIBERATIONS**
 - 8.A **Budget Discussions #3, 2021-2026 Capital Improvement Plan (CIP) discussion, Internal services departments, Community services, Finance** 60 Minutes
[2021_2026_CIP_Combined.pdf](#)
[Ordinance_No._2020-25_Adopting_the_2021-2026_Update_of_the_Six-Year_CIP_.docx](#)
[Presentation_-_2021-26_CIP_Discussion_SEPT_First_Reading.pdf](#)
 - 8.B **Ordinance No. 2020-33, Declaration of Substantial Need to Increase the Regular Property Tax Levy Rate in Excess of the Implicit Price Deflator for Collection in 2021 - Finance**, 10 Minutes
 - 8.C **Set the Public Hearing for Ordinance No. 2020-30 Relating to Property Tax Levy for Collection in 2021 - Finance**, 5 Minutes
 - 8.D **Set the Public Hearing for Ordinance No. 2020-31 Relating to the 2021-22 Biennial Budget - Finance**, 5 Minutes

9. PRESENTATION(S)

10. UNFINISHED BUSINESS

10.A Set Public Hearing on Ordinance No. 2020-22, Extending Small Wireless Facilities Design Standards Interim Official Control - Exec 5 Minutes

10.B Recommendations from the Joint City Council and Planning Commission Land Use Subcommittee - Councilmembers Carr, Hytopoulos and Pollock, 20 Minutes

10.C Recommendations from the Economic Recovery Ad Hoc Committee - Mayor Schneider, Deputy Mayor Deets and Councilmember Medina, 30 Minutes

11. NEW BUSINESS

11.A Proposal for COVID-19 Community Based Testing Site, Executive 10 Minutes
Community Based Testing Site Presentation Oct 13 2020.pdf

11.B Resolution No. 2020-18 Relating to Net Pens - Councilmember Carr 10 Minutes

11.C Amendment No. 3 to Contract for Indigent Defense Services 5 Minutes
Amendment No. 3 to Contract for Indigent Defense Services
Amendment No. 2 to Contract for Indigent Defense Services - Extension through December 31, 2020
Amendment No. 1 to Contract for Indigent Defense Services - Extension through December 31, 2019
Contract for Indigent Defense Services
2020 - Public Defense Statistic Tracking Form

11.D Contract Amendment to the Legal Services Agreement with Kitsap County Prosecuting Attorney's Office 5 Minutes

11.E Agreement with Kitsap Humane Society for Animal Control Services for 2021-23 10 Minutes

11.F Agreement with West Sound Wildlife Shelter for Wild Animal Control for 2021-23 10 Minutes

11.G Resolution to Adopt the Kitsap County Multi-Hazard Mitigation Plan - Executive, 5 Minutes
Resolution to Adopt Kitsap Co MHMP.docx

11.H Registered Sex Offender Address and Residency Verification Memorandum of Understanding with the Kitsap County Sheriff's Office - Police, 5 Minutes
2020-21 WASPC KCSO Registered Sex Offender Grant MOU Bainbridge Island PD.pdf

11.I Interlocal Agreement with Kitsap County Regarding Emergency Vehicle Operation Course (EVOC) Training - Police, 5 Minutes
[2020 KCSO EVOC ILA.pdf](#)

11.J Appointments to the Lodging Tax Advisory Committee - Mayor Schneider, 10 Minutes

12. COUNCIL DISCUSSION

13. CONSENT AGENDA

13.A Agenda Bill for Consent Agenda, 5 Minutes

13.B Accounts Payable and Payroll

13.C City Council Study Session Meeting Minutes, September 15, 2020

13.D City Council Regular Business Meeting Minutes, September 22, 2020

13.E Arts and Humanities Bainbridge/Public Art Funding Proposal - Executive, 5 Minutes
[PAC Presentation 9.14.20 - for CC 09222020.pdf](#)

13.F John T. Nelson Park at Strawberry Cannery Cove Monitoring Well License Agreement - Public Works,
5 Minutes
[Revocable License Agreement.pdf](#)
[Construction Easement.pdf](#)
[Tosco Site NW3070 Opinion Letter 8-4-2020 Final.pdf](#)

13.G Ordinance No. 2020-27, Adjusting the Number of Positions on the Salary Commission - Executive,
5 Minutes
[Ordinance No. 2020-27, Adjusting the Number of Positions on the Salary Commission](#)

13.H Appointments to the Salary Commission - Mayor Schneider, 5 Minutes
[Haugan - Salary Commission - Redacted.pdf](#)
[Hermanson - Salary Commission - Redacted.pdf](#)
[Lakich - Salary Commission - Redacted.pdf](#)
[Neal - Salary Commission - Redacted.pdf](#)
[O'Rourke - Salary Commission - Redacted.pdf](#)
[Whittlesey - Salary Commission - Redacted.pdf](#)

14. COMMITTEE REPORTS

15. FOR THE GOOD OF THE ORDER

16. ADJOURNMENT

GUIDING PRINCIPLES

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CITY OF
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**CITY COUNCIL STUDY SESSION
TUESDAY, OCTOBER 20, 2020**

REMOTE MEETING ON ZOOM

AGENDA

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2. **EXECUTIVE SESSION**
3. **APPROVAL OF AGENDA/ CONFLICT OF INTEREST DISCLOSURE**
4. **MAYOR'S REPORT**
5. **FUTURE COUNCIL AGENDAS**
6. **BUDGET DELIBERATIONS**
 - 6.A **Budget Discussion #4**, 60 Minutes
7. **PRESENTATIONS**
 - 7.A **Farm Housing Proposal at Morales Property - Friends of the Farms**, 15 Minutes
8. **UNFINISHED BUSINESS**
 - 8.A **Sustainable Transportation Plan Update - Public Works**, 20 Minutes
 - 8.B **Transportation Level of Service Discussion** 90 Minutes
 - 8.C **(x PM) Consider Amendments to Bonus Floor Area Ratio (FAR) Options, BIMC 18.12.030.E. - Planning**, 30 Minutes
[Ordinance_No._2020-16_Revising_Bonus_FAR_program.docx](#)
[MUTC and HS Rd Map.pdf](#)
[20200910_PC_Staff_Memo.pdf](#)
[Excerpt BIMC_Table_18.12.020-3.pdf](#)
[WMP Goals & Policies Related to FAR.pdf](#)

June 11 2020 Planning Commission Meeting Minutes.pdf

July 9 2020 Planning Commission Meeting.pdf

- 8.D (x PM) Update from Joint City Council and Planning Commission Land Use Subcommittee - Councilmembers Carr, Hytopoulos, and Pollock, 10 Minutes

9. NEW BUSINESS

- 9.A Tree and Vegetation Regulations: Options to Consider for Nonconforming Lots in the R-1 and R-2 Zoning Districts - Planning, 15 Minutes

10. CITY COUNCIL DISCUSSION

11. FOR THE GOOD OF THE ORDER

12. ADJOURNMENT

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CITY OF
BAINBRIDGE ISLAND

CITY COUNCIL REGULAR BUSINESS MEETING
TUESDAY, OCTOBER 27, 2020

REMOTE MEETING ON ZOOM

AGENDA

1. CALL TO ORDER/ROLL CALL - 6:00 PM
2. EXECUTIVE SESSION
3. APPROVAL OF AGENDA / CONFLICT OF INTEREST DISCLOSURE
4. PUBLIC COMMENT
5. MAYOR'S REPORT
6. CITY MANAGER'S REPORT
7. FUTURE COUNCIL AGENDAS
8. BUDGET DELIBERATIONS
 - 8.A **Budget Discussions #5** 60 Minutes
 - 8.B **Ordinance No. 2020-33, Declaration of Substantial Need to Increase the Regular Property Tax Levy Rate in Excess of the Implicit Price Deflator for Collection in 2021 - Finance,** 10 Minutes
9. PRESENTATION(S)
10. PUBLIC HEARING(S)
 - 10.A **Public Hearing on Ordinance No. 2020-30 Relating to Property Tax Levy for Collection in 2021 - Finance,** 10 Minutes
 - 10.B **Public Hearing for Ordinance No. 2020-31 Relating to the 2021-22 Biennial Budget - Finance,** 15 Minutes

10.C Public Hearing on Ordinance No. 2020-22, Extending Small Wireless Facilities Design Standards Interim Official Control 10 Minutes

11. UNFINISHED BUSINESS

11.A Sustainable Transportation Plan Decision Framework Discussion - Public Works, 15 Minutes

11.B Transportation Levels of Service - Next Steps - Public Works, 10 Minutes

11.C Development Moratorium - Narrowing to the shoreline properties in the Winslow Master Plan Study Area 5 Minutes

11.D Self Service Storage - Either set the public hearing to adopt a new ordinance or to extend the existing moratorium. 10 Minutes

12. NEW BUSINESS

12.A Resolution No. 2020-17, Old Mill Road Speed Limit Change 10 Minutes

12.B Agreement with Kitsap County Regarding Jury Panels for Municipal Court - Executive, 5 Minutes
Kitsap County Clerk's Office (Agreement Regarding Jury Panels for Municipal Court).pdf

13. CITY COUNCIL DISCUSSION

13.A Expectations for Council Liaisons - Mayor Schneider, 20 Minutes

14. CONSENT AGENDA

15. COMMITTEE REPORTS

16. FOR THE GOOD OF THE ORDER

17. ADJOURNMENT

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CITY OF
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**CITY COUNCIL STUDY SESSION
TUESDAY, NOVEMBER 03, 2020**

REMOTE MEETING ON ZOOM

AGENDA

1. CALL TO ORDER / ROLL CALL - 6:00 PM
2. EXECUTIVE SESSION
3. APPROVAL OF AGENDA/ CONFLICT OF INTEREST DISCLOSURE
4. MAYOR'S REPORT
5. FUTURE COUNCIL AGENDAS
6. BUDGET DELIBERATIONS
 - 6.A **Budget Discussion #6** 30 Minutes
7. PRESENTATIONS
8. UNFINISHED BUSINESS
 - 8.A **Sustainable Transportation Plan Update - Public Works,** 10 Minutes
 - 8.B **(x PM) Update from Joint City Council and Planning Commission Land Use Subcommittee - Councilmembers Carr, Hytopoulos, and Pollock,** 10 Minutes
9. NEW BUSINESS
10. CITY COUNCIL DISCUSSION
11. FOR THE GOOD OF THE ORDER
12. ADJOURNMENT

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CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 60 Minutes

AGENDA ITEM: (6:25 PM) Budget Discussion #2: Key assumptions, Police, Planning and Community Development, Public Works, including Major Maintenance - Finance,

SUMMARY: Continuation of discussion on the 2021-2022 Proposed Budget. The budget topics to be discussed are:

- * Responses to budget queries received to date
- * Key Budget Assumptions
- * Police
- * Planning and Community Development
- * Public Works, including major maintenance

AGENDA CATEGORY: Discussion

PROPOSED BY: Finance & Administrative Services

RECOMMENDED MOTION: Continuation of discussion of the 2021-2022 Proposed Budget.

STRATEGIC PRIORITY: Good Governance

FISCAL IMPACT:

Amount:	
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	

BACKGROUND: Staff presented the 2021-22 Proposed Budget to the Council on September 22. This agenda item is a continuation of the discussion.

The budget is the financial plan for the upcoming two years and expresses the City's identified priorities and planned service delivery to the community. The Proposed Budget. At each meeting in October, there is time reserved for Council deliberation and discussion.

ATTACHMENTS:

FISCAL DETAILS:

Fund Name(s): Other

Coding:



CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 60 Minutes

AGENDA ITEM: (7:25 PM) Presentation of Climate Action Plan for the City of Bainbridge Island - Climate Change Advisory Committee,

SUMMARY: The Climate Change Advisory Committee (CCAC) was directed by the City Council to develop a Climate Action Plan (CAP) that is consistent with the Island's Comprehensive Plan. The CCAC will present the draft CAP to the Council and community. Additional discussion and outreach will follow in future meetings and with opportunities for community input.

AGENDA CATEGORY: Presentation

PROPOSED BY: Executive

RECOMMENDED MOTION: Information only.

STRATEGIC PRIORITY: Green, Well-Planned Community

FISCAL IMPACT:

Amount:	
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	

BACKGROUND: A City Climate Action Plan (CAP) is the highest priority item of the Climate Change Advisory Committee's work plan as set by the City Council for this year. It also received the highest number of votes in the Council 2021-2022 budget priorities exercise conducted in March and affirmed in June. In May, the CCAC made an initial presentation of the draft CAP's goals, targets, and strategies. In June, the CCAC provided a draft to City staff. During the summer, staff and CCAC members had meetings to discuss the draft. The CCAC approved this draft for presentation at their September meeting.

The CAP includes recommended actions and strategies to move the City toward three goals:

1. Mitigation – Reduce greenhouse gas emissions by 90% by 2045 compared to 2014 levels with interim milestones of 25% reduction by 2025 and 60% by 2035 compared to 2014 levels.
2. Adaption – Bainbridge Island is climate savvy, and can withstand the impacts of climate change.
3. Community Engagement – COBI inspires community action and partners with local and regional organizations to take meaningful and equitable climate change mitigation and adaptation actions.

Additional information, including the draft CAP, is available attached to this agenda bill.

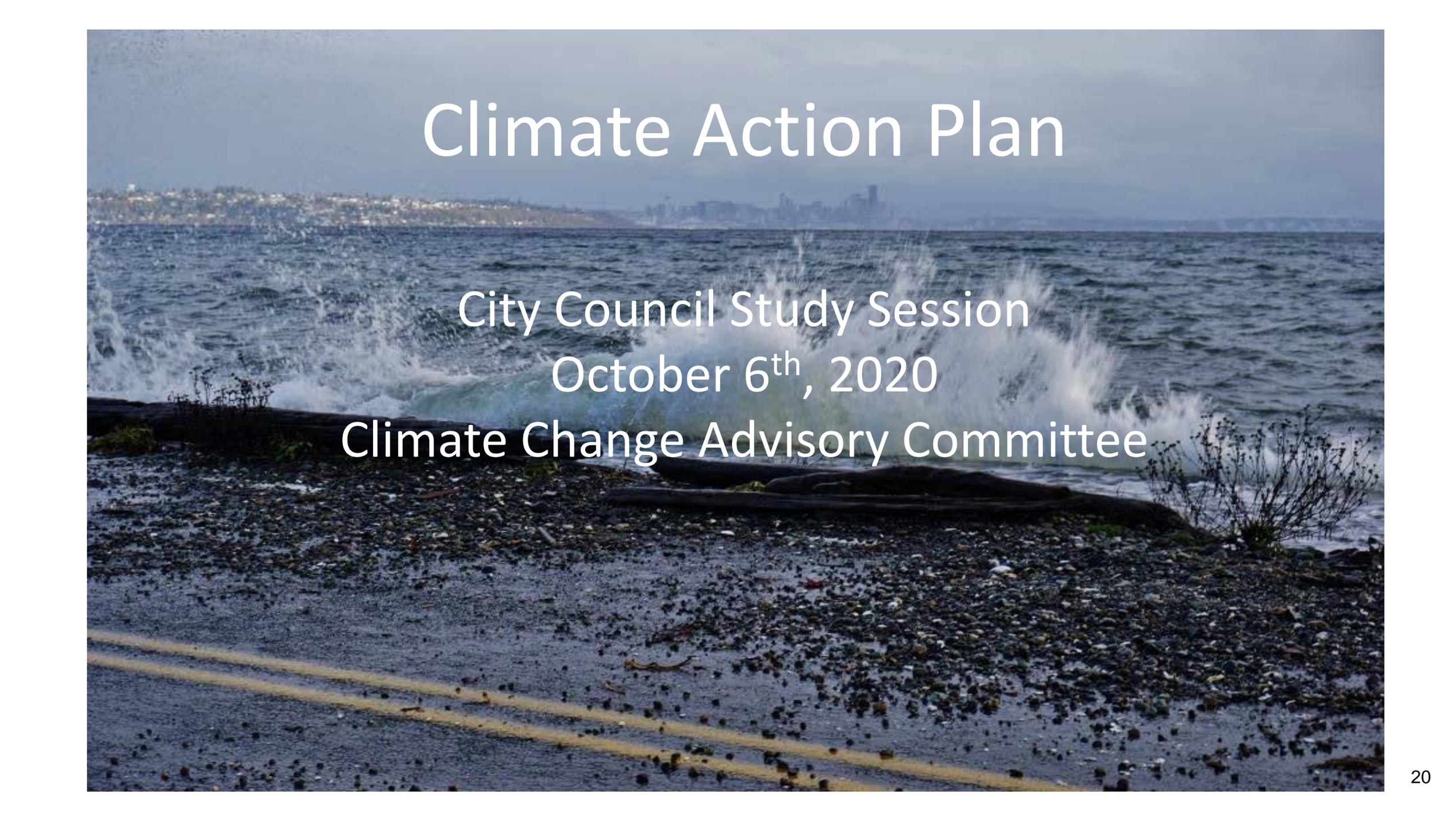
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FISCAL DETAILS:

Fund Name(s):

Coding:



Climate Action Plan

City Council Study Session
October 6th, 2020

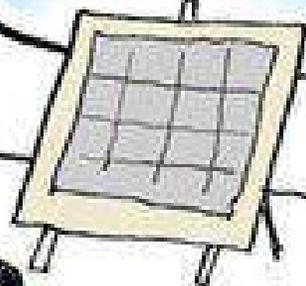
Climate Change Advisory Committee



CLIMATE SUMMIT

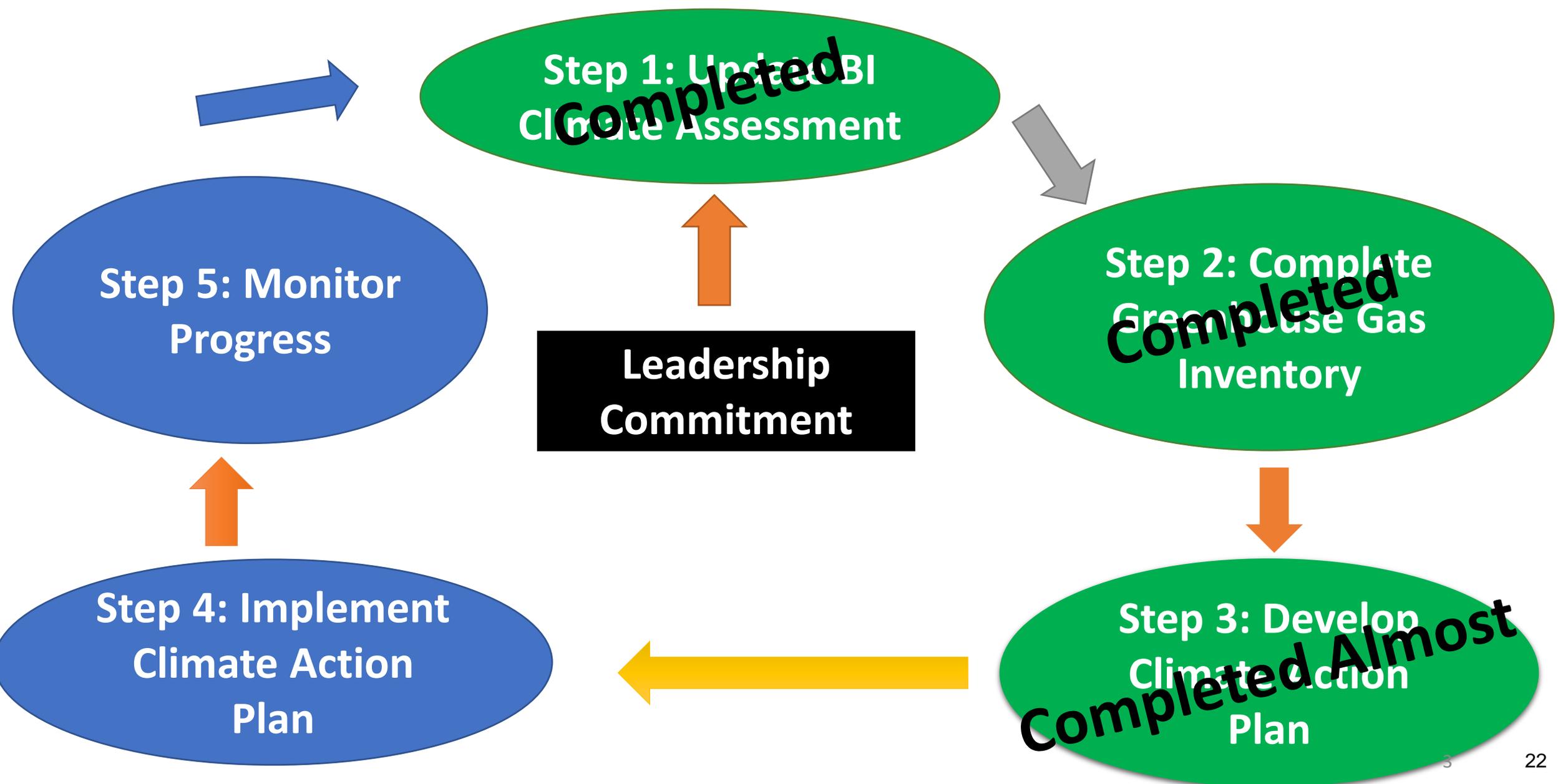
WHAT IF IT'S A BIG HOAX AND WE CREATE A BETTER WORLD FOR NOTHING?

- ENERGY INDEPENDENCE
- PRESERVE RAINFORESTS
- SUSTAINABILITY
- GREEN JOBS
- LIVABLE CITIES
- RENEWABLES
- CLEAN WATER, AIR
- HEALTHY CHILDREN
- etc. etc.

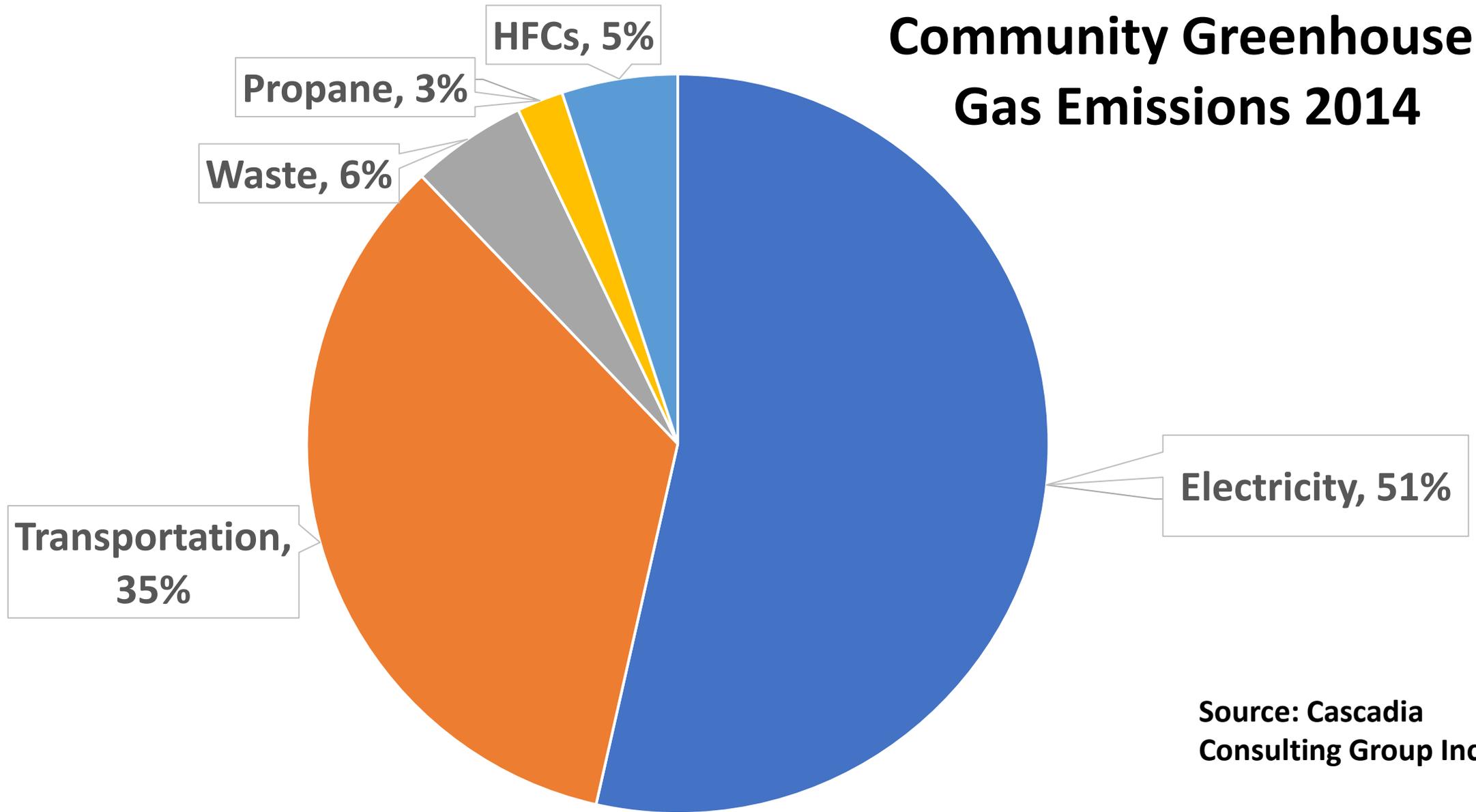


10/19 USA TODAY
YUL PITT

Climate Action Plan Process



Community Greenhouse Gas Emissions 2014



Source: Cascadia Consulting Group Inc

■ Electricity ■ Transportation ■ Waste ■ Propane ■ HFCs

Community and Staff Input

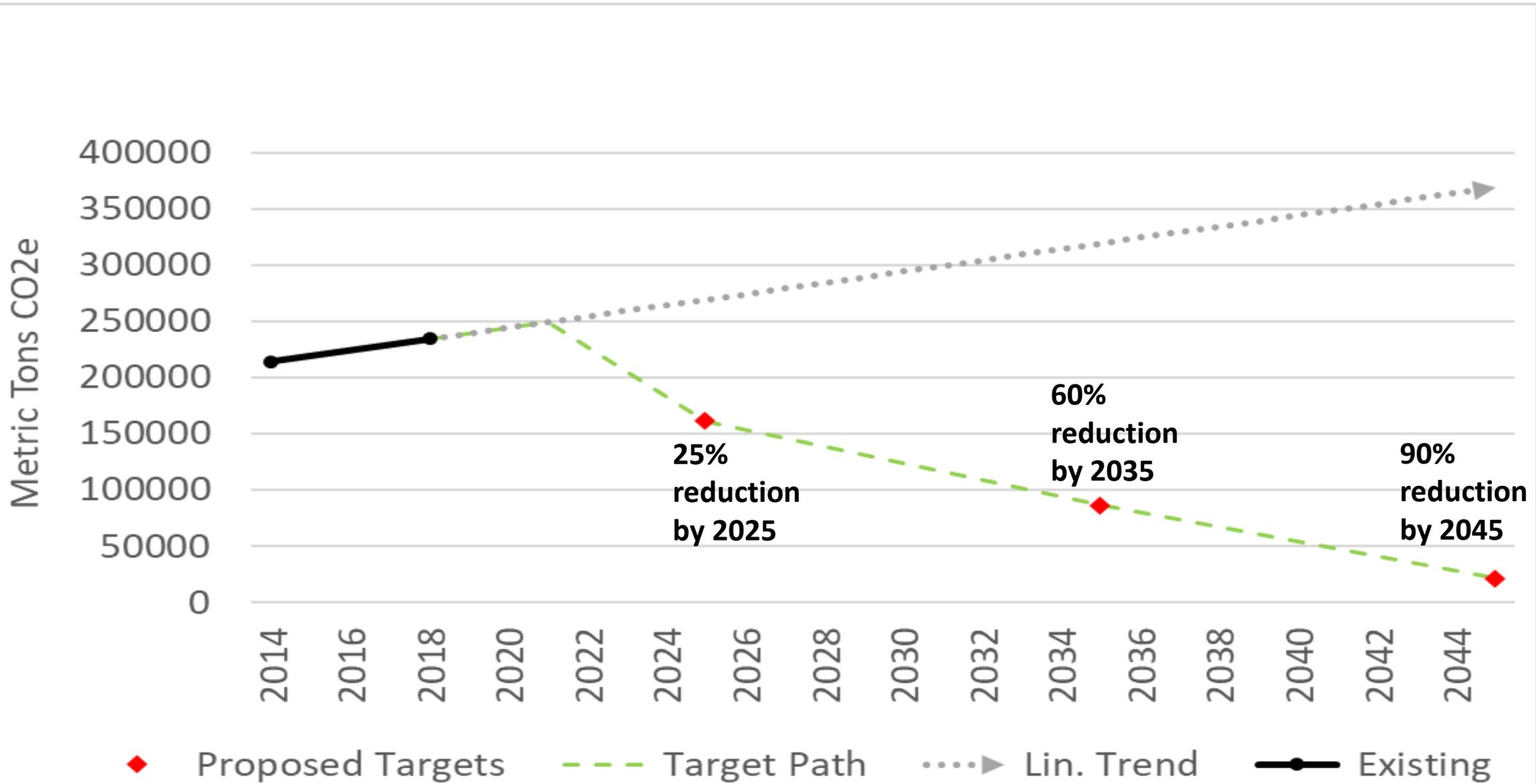


BI Community Climate Survey
450 Respondents

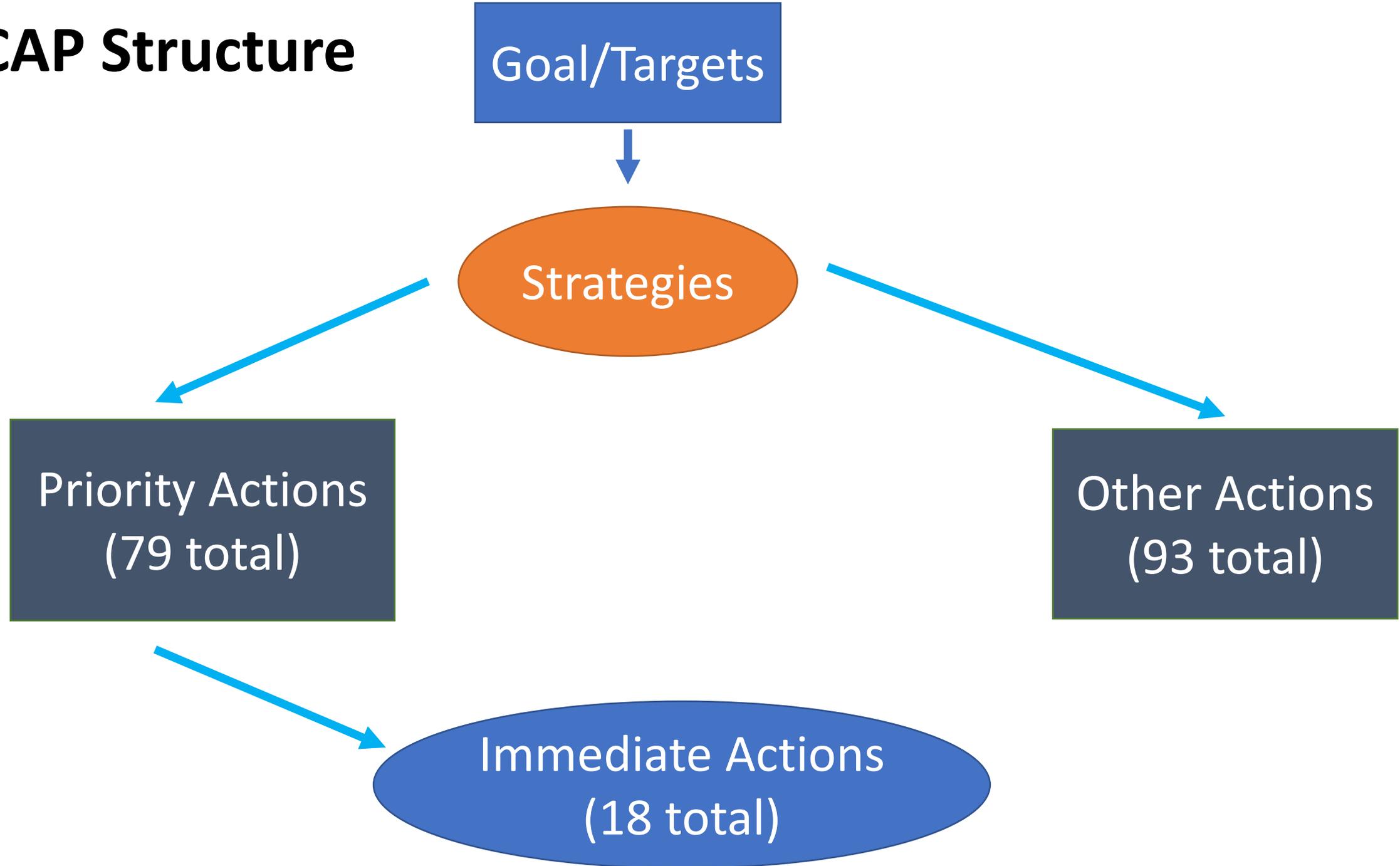


Area	Overarching Goals
Mitigation	By 2045 reduce GHG emissions by 90% compared to 2014 levels Interim goals: Reduce GHG emissions 25% by 2025 and 60% by 2035 compared to 2014 levels.
Adaptation	Bainbridge Island is climate savvy and can withstand the impacts of climate change.
Community Engagement	COBI inspires action across the community and partners with local/regional organizations to take meaningful and equitable climate change mitigation and adaptation actions.

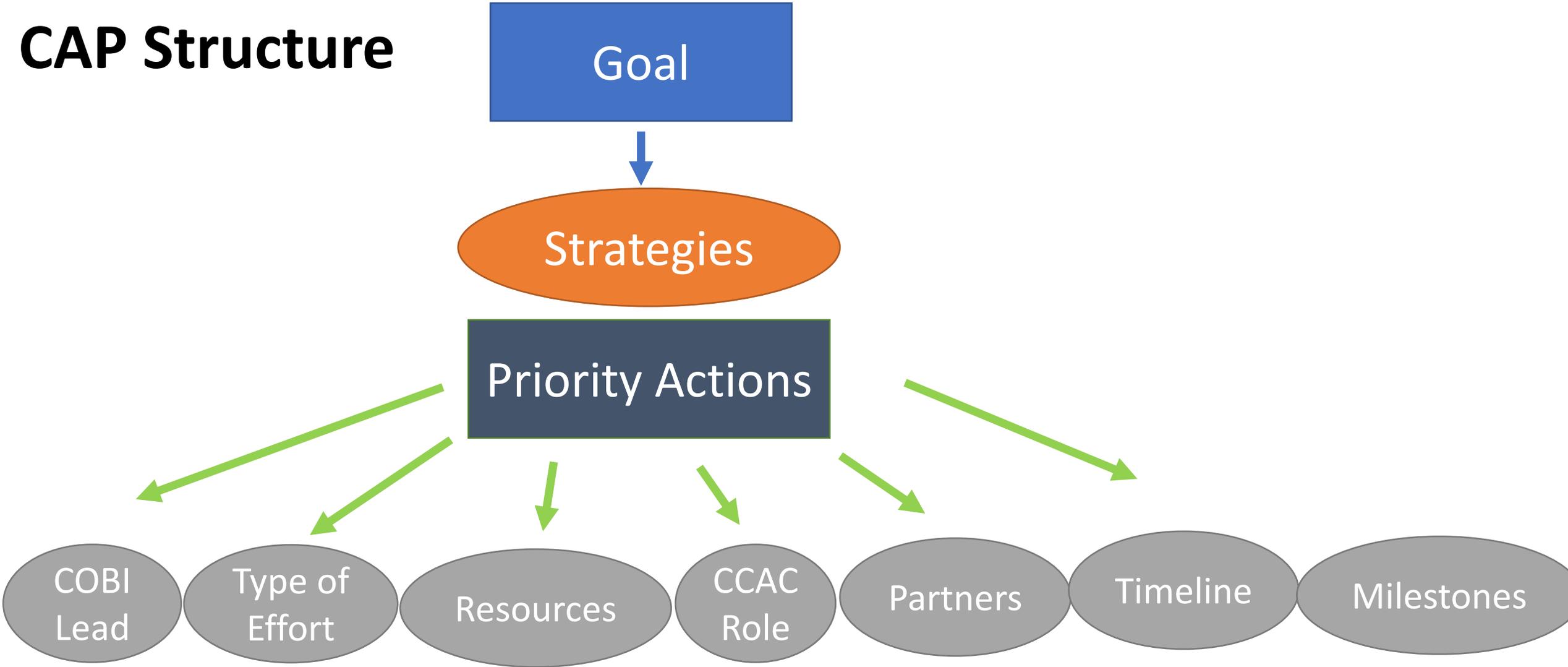
Reductions in GHG Emissions Needed to Meet Targets



CAP Structure



CAP Structure



Kickstart Implementation (next 9-12 months)



CCAC identified 18 immediate actions (not in priority order).

Climate and Equity Lens

#1: Use the EcoAdapt Climate Change Adaptation Certification Tool in COBI decision making (memo in Council package).

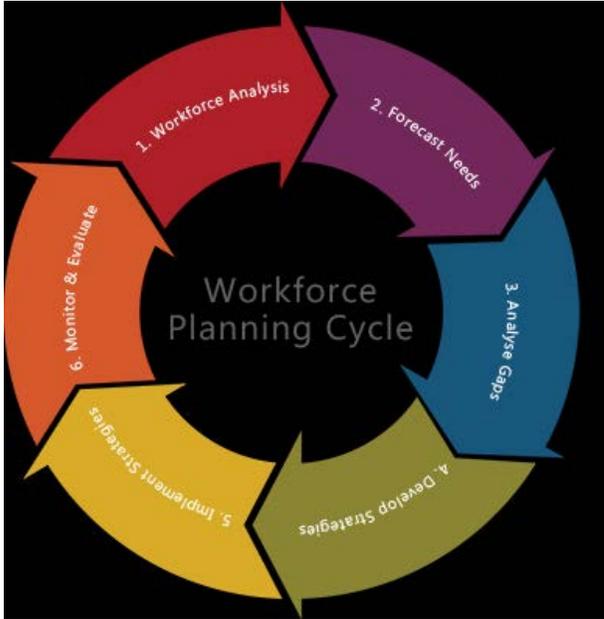
#2: Equity implications are addressed in all actions (work with RETF and others).



Adding Equity and Health Considerations

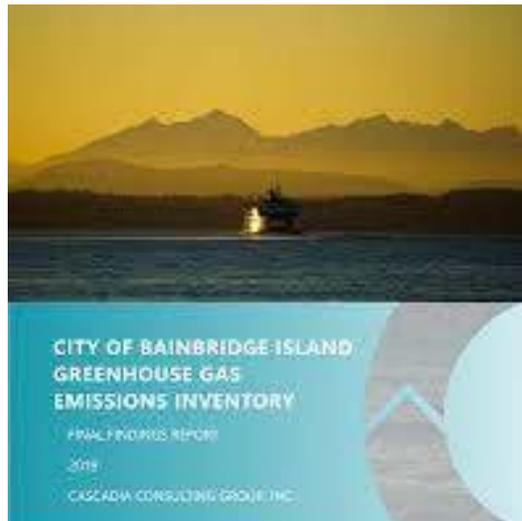


Staffing



#3: Hire City staff to coordinate and lead climate efforts (includes GBTF and STTF).

#4: Develop cost estimates/staffing needs **for priority actions.**



#5: Improve accuracy of **GHG Inventory.**

Energy/Buildings

#6: Work with PSE (e.g., Franchise Agreement) and others to green our energy supply (memo in Council package).



#7: Work with PSE and others to reduce our energy demand (started).



#8: Prohibit combustible fuels (e.g., propane) as primary fuel for heating in new development.



Energy/Buildings

#9: Support the recommendations from the **Green Building Task Force**.



CCAC coordinating with **GBTf**
(comparison in Council package)

#10: Initiate discussion on establishing a **Green Energy and Building Fund**.



#11: Build on preliminary **sea-level risk assessment**.



Transportation

#12: Support recommendations from **STTF** & ensure all options consider **GHG** reductions.



CCAC coordinating with **STTF** (comparison in **Council** package).

#13: Transition COBI's fleets to **primarily electric vehicles**; encourage other BI taxing districts to follow.



#14: Evaluate **current code** to **increase # of EV-charge-ready** for all new development.



Natural Environment, Waste, and Community Engagement

#15: **Create list of tree/plant species** expected to be favored by climate change.



#16: **Pass an ordinance** to reduce single-use plastics.



#17: **Develop City web presence** & ensure information is **available to all** Community members.



#18: **Prepare Community for outages** and provide **emergency assistance** during **wildfires**.



Timeline

- **Council Review**

- October 6th: City Council Session.
- Late-October?: City Council Approval.

- **Outreach**

- Possible public outreach in November/December?

- **Implementation**

- Start to implement the immediate actions in 2020/2021.

Questions

Bainbridge Island Community Emissions by Source, 2014 (MTCO₂e)

Total = 214,425 MTCO₂e

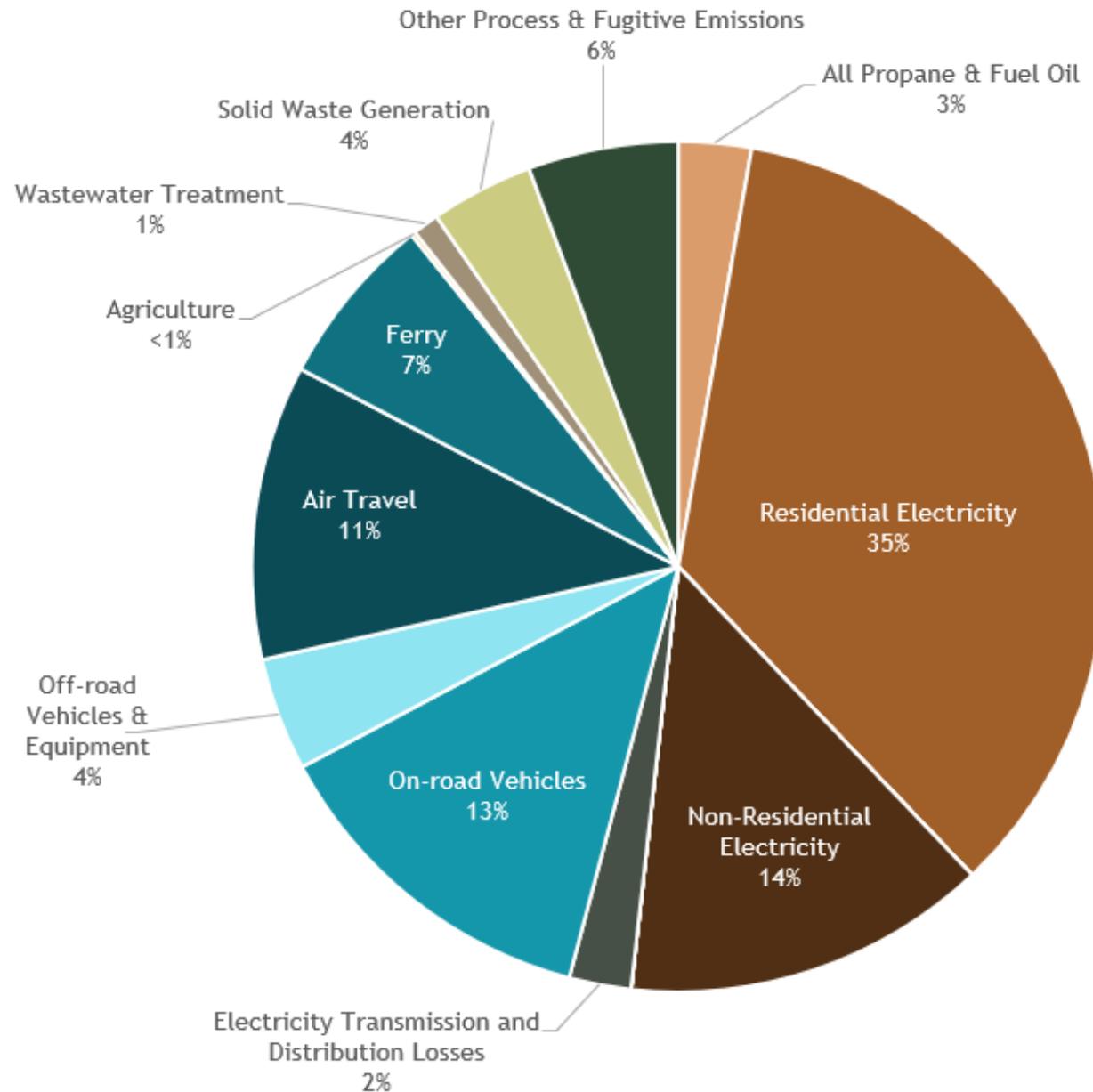
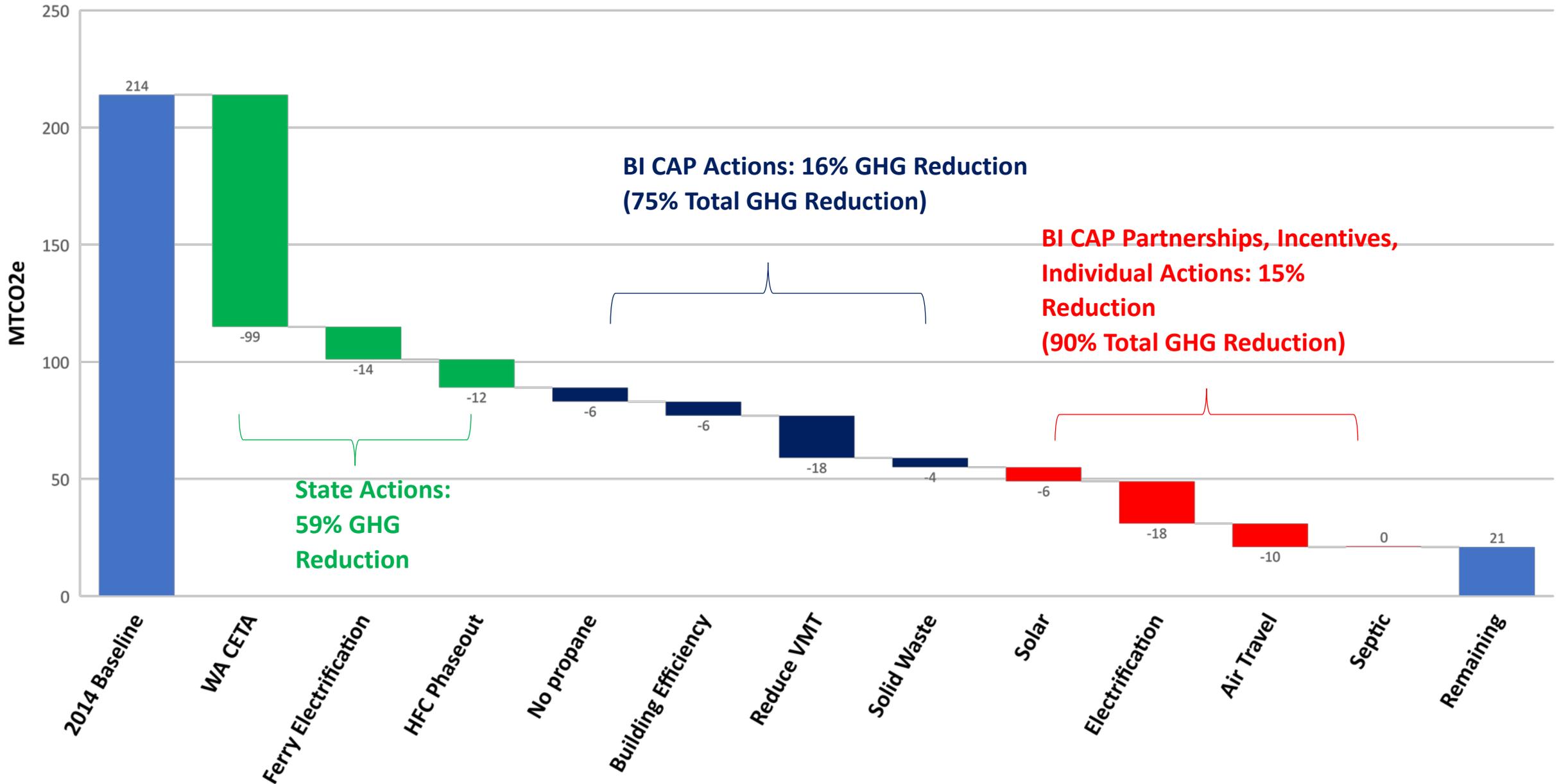


Figure ES2: Reductions in GHG from State and Local Policies



CAP Content

Sections	# Goals	# Targets	# Strategies	# Priority Actions	# Other Actions
Executive Summary	NA	NA	NA	NA	NA
1. Introduction	NA	NA	NA	NA	NA
2. GHG Emissions Inventory	2	3	3	3	4
3. Energy	3	4	6	11	4
4. Transportation	2	5	9	14	22
5. Buildings	2	3	4	10	9
6. Natural Environment	4	7	8	12	24
7. Waste	4	5	7	8	17
8. Community Engagement	3	4	6	12	13
9. Implementation	NA	NA	4	9	0
Total	20	31	47	79	93
10. Individual Actions	NA	NA	NA	6 categories and 60 actions	



CITY OF
BAINBRIDGE ISLAND

EXECUTIVE DEPARTMENT MEMORANDUM

DATE: October 6, 2020

TO: Morgan Smith, City Manager

FROM: Ellen Schroer, Deputy City Manager

SUBJECT: Draft Climate Action Plan Staff Review

This memo provides staff feedback to the climate action plan (CAP) drafted by the Climate Change Advisory Committee (CCAC) in 2020.

Executive Summary/Next Steps

A City CAP is the highest priority item of the CCAC's work plan as set by the City Council for this year. It also received the highest number of votes in the Council 2021-2022 budget priorities exercise conducted in March and affirmed in June. In recognition of the importance of the CAP, even at this time of budget contraction, the Proposed Budget includes \$300,000 in new one-time funding for actions recommended by the CAP. Because the CAP hasn't been reviewed and approved by Council, the Proposed Budget doesn't identify specific actions.

The CCAC drafted the CAP in 2020 at the request of the City Council. The CCAC put significant time and effort into the draft plan, which is over 100 pages long and includes roughly 170 identified actions (of which roughly 18 are identified to be completed over the next 9-12 months). City staff from the Public Works, Planning and Executive Departments reviewed the CAP and discussed each section with the CCAC.

Fully implementing the plan will take several years; starting to implement the plan will take dedication of time, effort and resources which can begin immediately.

Next steps include:

1. Supporting Council consideration of the draft CAP which will be presented in October.
2. Working with Council and the CCAC to determine the best use of the funding currently included in the proposed budget.
3. Working internally to assign new roles and responsibilities to City staff.

A key recommendation of the CAP is to hire a Climate Mitigation Officer to address citywide policy and implementation issues and to ensure that this new area of focus is worked into existing staff responsibilities. The Proposed Budget does not include this new position due to ongoing budget constraints.

City Staff Draft Plan Review

The draft plan was delivered to City staff at the beginning of June 2020. Since that time, staff carefully reviewed each section of the plan and annotated the document to provide feedback, ask questions, and clarify the intent of various items. After this initial review, City staff met with the drafting subcommittees of the CCAC to discuss each section individually and offer feedback. In one case, a second meeting was held to complete the discussion. The meetings were collaborative, respectful and productive, indicative of the shared goals of the staff and committee members participating in the meetings. The meetings included both staff and the CCAC members providing background information, thinking through the logistics of implementing change, and drawing on professional experience.

Positions at the City with responsibilities included in the CAP review include:

- Planning and Community Development – Senior Planner (Peter Best), Associate Planner (Annie Hillier), Arborist (Nick Snyder), Director (Heather Wright)
- Public Works – Water Resources Specialist (Christian Berg), Engineering Project Manager (Mark Epstein), Hydrogeologist (vacant, hiring scheduled for Q4 2020), Director (Chris Wierzbicki)
- Finance – Senior Financial Analyst (Ron Logghe), Director (DeWayne Pitts)
- Executive – Emergency Management Coordinator (Anne LeSage), Communications Coordinator (Kristen Drew), Deputy City Manager (Ellen Schroer)

Staff has not yet begun to implement any of the recommendations in the CAP, pending Council review and decisions about how to include these new ideas and actions in the City work plan.

Climate Action Plan Development:

In 2016, the City of Bainbridge Island (COBI) incorporated climate change into its updated Comprehensive Plan. The Comprehensive Plan has seven guiding principles, with #7 specifically related to climate change: *Reduce greenhouse gas emissions and increase the Island's climate resilience.*

The City Council established the Climate Change Advisory Committee (CCAC) in the fall of 2017. The CCAC was established to serve as a technical and planning advisory committee to the City Council, City Manager, and City staff on issues related to climate change. In 2019, the City obtained its first community and organizational Greenhouse Gas Emissions Inventory. Concurrent with the GHG effort, the City Council tasked the CCAC to develop a Climate Action Plan (CAP) for the Island. The CCAC used information from the City's Greenhouse Gas Emissions Inventory, completed in 2019, as a key input to the CAP, held two well-attended community workshops, and drew from extensive professional experience of its members to draft the CAP.

The CAP is over 100 pages long and contains eight sections with itemized actions and recommendations. It is divided as follows:

- Energy
- Transportation
- Buildings
- Natural Environment
- Waste
- Community Engagement

- Implementation

Each section includes goals, targets and strategies. The CCAC has been careful to ensure that the CAP includes concrete steps towards the various aspects of the plan.

Conclusion

The next pages show the immediate actions, with an initial attempt to indicate level of effort. As we move through the fall and the 2021-2022 budget adoption process, staff can support City leadership's consideration of this plan. Next steps could include more work on costing (for either consultants, or understanding staff time demands and tradeoffs), and/or additional detail about which recommendations might require changes to local or state regulations.

I welcome your questions and thoughts about next steps.

Attachments –

- Immediate Actions Table (from CAP draft)
- Immediate Actions Table (with complexity and cost indications)

Table ES.2 Immediate Actions for Next 9-12 Months

Area	Action
Implementation	5.A.1.b/6.A.1.c/7.D.1.a: Use the EcoAdapt Climate Change Adaptation Certification Tool in COBI decision making.
	9.B.1.a: Equity implications are addressed in all actions
	8.C.1.b/8.C.1.a: Hire City staff to coordinate and lead climate efforts and review existing authorities.
	9.D.1.a: Develop cost estimates and staffing needs for priority actions.
GHG Inventory	2.A.1.a: Improve accuracy of GHG Inventory.
Energy	3.A.1.b: Work with PSE to reduce our energy demand.
	3.B.1.a: Work collaboratively with PSE, via the PSE Franchise to green our energy supply.
	3.B.1.c: Prohibit propane, fuel oil, and wood stoves for primary heating in new buildings.
	3.A.2.a: Initiate discussions on establishing a Green Building and Energy Fund
Transportation	4.A.1.a: Support the recommendations from the Sustainable Transportation Task Force and ensure potential GHG emission reductions are considered in all options considered by Task Force.
	4.B.1.a. Transition COBI’s fleets to primarily electric vehicles, use biofuels where not an option, and encourage other Bainbridge Island taxing districts to also develop a plan.
	4.B.2.a. Evaluate current code to see if a need to increase the number of EV-charge-ready for all new development/major renovations and multifamily units/commercial development include EV charging infrastructure.
Buildings	5.A.1.a: Support the recommendations from the Green Building Task Force.
	5.B.1.a., b., and c: Build on preliminary sea-level rise assessment endorsed by CCAC.
Natural Environment	6.A.2.a: Create list of tree and plant species expected to be favored by climate change that can be used for forest management and restoration actions.
Waste	7.A.2.a: Pass an ordinance to reduce single-use plastics.
Community Engagement	8.A.1.a. and b: Develop a web presence for climate change on City website and make climate information widely and easily available to all community members.
	8.C.2.a: Establish equitable access to recharging generators and cell phones during outages, and provide emergency food/water/filtered air during poor air quality due to wildfires.

This table was developed by the CCAC to highlight actions that they recommend be addressed as soon as possible, and within the next 9-12 months (2020 and 2021).

On the next pages, I have added columns to the right to indicate estimated complexity and cost.

Immediate Actions for Next 9-12 Months – Annotated

Staff have performed an initial, high level review to provide a first look at the expected complexity and cost of implementation of the actions identified in the draft CAP for immediate action.

Key:

- High level of complexity or cost – boxes shaded in orange
- Medium level of complexity or cost – boxes shaded in yellow
- Low level of complexity or cost – boxes shaded in green

Area	Action	Complexity	Cost	Dependencies
Implementation	5.A.1.b/6.A.1.c/7.D.1.a: Use the EcoAdapt Climate Change Adaptation Certification Tool in COBI decision making.	High – includes legal assessment and code changes	Medium – includes staff training and application to all projects	Council approval Staff training Changes to BIMC
	9.B.1.a: Equity implications are addressed in all actions	Medium - includes development of tool for this analysis	Low	Development or identification of appropriate tool
	8.C.1.b/8.C.1.a: Hire City staff to coordinate and lead climate efforts and review existing authorities.	Low	High - Ongoing estimate of \$150,000/year	Council approval
	9.D.1.a: Develop cost estimates and staffing needs for priority actions.	Medium	Low	Detailed description of actions
GHG Inv.	2.A.1.a: Improve accuracy of GHG Inventory.	High – identify new data source; gather specific community info	Medium	Requires collection/ analysis of local data

Immediate Actions for Next 9-12 Months – Continued

Area	Action	Complexity	Cost	Dependencies
Energy	3.A.1.b: Work with PSE to reduce our energy demand.	Medium	Medium	Three-part goal, from communication to local solar regulations
	3.B.1.a: Work collaboratively with PSE, via the PSE Franchise to green our energy supply.	High	Medium	PSE franchise agreement
	3.B.1.c: Prohibit propane, fuel oil, and wood stoves for primary heating in new buildings.	High	Low	BIMC update May require State code update
	3.A.2.a: Initiate discussions on establishing a Green Building and Energy Fund	High – PSE not currently offering localized funding options.	Low	Cost would depend on City participation or contribution to the proposed new fund. Low cost assumes no City funding.
Transportation	4.A.1.a: Support the recommendations from the Sustainable Transportation Task Force and ensure potential GHG emission reductions are considered in all options considered by Task Force.	High – recommendations are wide ranging	High	Final set of recommendations
	4.B.1.a. Transition COBI’s fleets to primarily electric vehicles, use biofuels where not an option, and encourage other Bainbridge Island taxing districts to also develop a plan.	High – fleet includes many different types of vehicles	High	Not all fleet currently available for biofuel or electric options. As more options come to market, complexity and cost may be reduced
	4.B.2.a. Evaluate current code to see if a need to increase the number of EV-charge-ready for all new development/major renovations and multifamily units/commercial development include EV charging infrastructure.	Medium	Low	Requires target for level of increase

Immediate Actions for Next 9-12 Months – Continued

Area	Action	Complexity	Cost	Dependencies
Buildings	5.A.1.a: Support the recommendations from the Green Building Task Force.	High – recommendations are wide ranging	Medium	Final set of recommendations
	5.B.1.a: conduct a systematic, high-resolution analysis of exposure of City assets to sea level rise	Low	Low	
	5.B.1.b: create a prioritized list for addressing COBI assets at high risk of sea level rise	Medium	Medium	Definition of high risk
	5.B.1.c: integrate sea level rise analysis into all City planning	Medium	Medium	Will require training
Nat. Env.	6.A.2.a: Create list of tree and plant species expected to be favored by climate change that can be used for forest management and restoration actions.	Low	Low	
Waste	7.A.2.a: Pass an ordinance to reduce single-use plastics.	Medium	Low	
Com. Engagement	8.A.1.a. and b: Develop a web presence for climate change on City website and make climate information widely and easily available to all community members.	Low	Low	Requires approved information for posting.
	8.C.2.a: Establish equitable access to recharging generators and cell phones during outages, and provide emergency food/water/filtered air during poor air quality due to wildfires.	Medium	Medium	

Draft Climate Action Plan

A Plan for Mitigating and Adapting to Climate Change on Bainbridge Island

October 1st, 2020

LETTER FROM YOUR CITY COUNCIL

To the Bainbridge Island Community

The time for collective action on climate change has arrived. In recent years, we have seen the impacts of climate change in our region and right here on our Island, from warmer temperatures and wildfire smoke to rising seas and flooding. Scientists tell us that these impacts will only increase and intensify in the future. If we wait, the changes will be irreversible, and coping with them will be enormously costly.

In order to combat climate change, actions are needed at all levels of government - federal, state, and local. That means that the City of Bainbridge needs to step up. The City Council recognizes the urgency and in June 2020 passed a resolution declaring a climate emergency for the Island and reaffirmed the City's commitment to climate action now.

But we can't do it alone. We need to work hand-in-hand with businesses, community organizations, faith communities, local schools, individuals and families across our Island community if we are to meet this global challenge.

We have established an aggressive goal of reducing our community greenhouse gas emissions by 90% by 2045 compared to 2014 levels. The City and City Council are committed to putting in the time, energy, and resources needed to be successful, and to protect this Island and our community for future generations.

This Climate Action Plan provides a roadmap for how we can address climate change in City operations and our community. We have already initiated a few of the highest priority actions, including the establishment of the Green Building and Sustainable Transportation Task Forces, which have already begun their work toward guiding us in reducing energy use in buildings and developing options to get people out of their cars.

The Plan also recognizes the need to adjust to our changing climate and prepare for more frequent and intense climate change impacts. It provides a pathway to enhance our community resilience and infrastructure to be climate ready.

This Climate Action Plan is a call to action for the City, local businesses, and community members. Now it is time that we join together and do our part to make the only planet we have a better one for our present and future generations.

We ask that you join us in this journey to a carbon-free future.

Sign Off from Mayor on behalf of council or something else.

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Acronyms

- BARN - Bainbridge Artisan Resources Network
- BD – Bainbridge Disposal
- BIFP – Bainbridge Island Fire and Police
- BILT – Bainbridge Island Land Trust
- BIMA - Bainbridge Island Museum of Art
- BIMPRD - Bainbridge Island Metro Park and Recreation District
- BIPF – Bainbridge Island Park Foundation
- BISD – Bainbridge Island School District
- BIZW – Bainbridge Island Zero Waste
- CAP – Climate Action Plan
- CETA - Clean Energy Transformation Act
- CH₄ - Methane
- CCAC - Climate Change Advisory Committee
- COBI – City of Bainbridge Island
- CTR – Commute Trip Reduction
- EV – Electric Vehicle
- FOTF – Friends of the Farm
- GHG – Greenhouse Gas
- IWTP – Island-Wide Transportation Plan
- LEED - Leadership in Energy and Environmental Design
- MTCO₂e - Metric Tons of Carbon Dioxide Equivalent
- MW - Megawatt

N₂O - Nitrous Oxide
NOAA – National Oceanic and Atmospheric Administration
PSE – Puget Sound Energy
PSRC - Puget Sound Regional Council
PV - Photovoltaic
SLR – Sea Level Rise
WSF – Washington State Ferries
WWTP - Wastewater Treatment Plant

Acknowledgements

This is the first Climate Action Plan ever prepared for Bainbridge Island and required the effort of many people in our community. Thanks to all those who assisted in this process.

Climate Change Advisory Committee (Former and Present)

David McCaughey, Deborah Rudnick, Derik Broekhoff, Gary Lagerloef, James Rufo-Hill, Jane Sberstein, Jens C. Boemer, Julie Matthews, Lara Hansen, Michelle McClure, Nora Ferm Nickum, Michael Cox, Joe Deets (City Council Liaison), Kirsten Hytopolous (City Council Liaison), and Kol Medina (City Council Liaison).

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Additional thanks to the 450 people that responded to the Climate Survey, the 150 people that attended our Community Workshops, and those that attended the CCAC monthly meetings.

Cascadia Consulting Group

Andrea Martin
Britain Richardson

Executive Summary



Executive Summary

The climate is changing. We know this and we need to take action now. It is urgent that we dramatically reduce our greenhouse gas (GHG) emissions and make our community more resilient to the related impacts we will experience.

In 2016, the City of Bainbridge Island (COBI) incorporated climate change into its updated Comprehensive Plan. The Comprehensive Plan has seven guiding principles, with #7 specifically related to climate change:

Reduce greenhouse gas emissions and increase the Island's climate resilience.

The City Council established the Climate Change Advisory Committee (CCAC) in the fall of 2017. The CCAC was established to serve as a technical and planning advisory committee to the City Council, City Manager, and City staff on issues related to climate change. In 2019, the City Council tasked the CCAC to develop a Climate Action Plan (CAP) for the Island.

ES.1. Why do we Need a Climate Action Plan?

The CAP is a comprehensive roadmap that outlines specific actions that COBI and the community can undertake to reduce GHG emissions and increase our resilience as the climate changes. The CAP supports City policies already in place, including the Comprehensive Plan, Shoreline Master Plan, and Critical Areas Ordinance, and provides guidance on how principles and objectives outlined in those programs can be implemented to mitigate and adapt to the impacts of climate change on Bainbridge Island.

ES.2. What are the Anticipated Climate Change Impacts on Bainbridge Island?

Bainbridge Island is expected to experience a wide range of changes and associated impacts from climate change on our hydrology, vegetation, shorelines and surrounding waters (Table ES1).

Table ES.1 Projected Changes and Associated Impacts from Climate Change

Area	Impacts
Rising Sea Levels	<ul style="list-style-type: none">● Damage to or loss of City assets such as roads● Damage to or loss of private property● Erosion● Salt water intrusion
Extreme Weather Events	<ul style="list-style-type: none">● Increased flooding of roads and private property● Potential for slope instability and erosion● Increase in power outages
Increasing Temperatures	<ul style="list-style-type: none">● Increased risk of heat-related illness● Increase in drought conditions● Changes in disease vectors
Vegetation Change	<ul style="list-style-type: none">● Changes in dominant vegetation.

Area	Impacts
	<ul style="list-style-type: none"> ● Decreased tree growth and increased fire risk for Summer water stress ● Changes in pest distribution and type of pest
Hydrologic Changes	<ul style="list-style-type: none"> ● Changes to surface and groundwater availability, quality, and timing ● Changes to extent of stream discharge ● Drought stress on vegetation
Ocean Acidification	<ul style="list-style-type: none"> ● Decreased pH in ocean waters ● Damage to marine organisms (e.g., oysters) and related economic impacts. ● Implications from sewage and septic discharge.

ES.3. Bainbridge Island’s Greenhouse Gas (GHG) Emissions Inventory

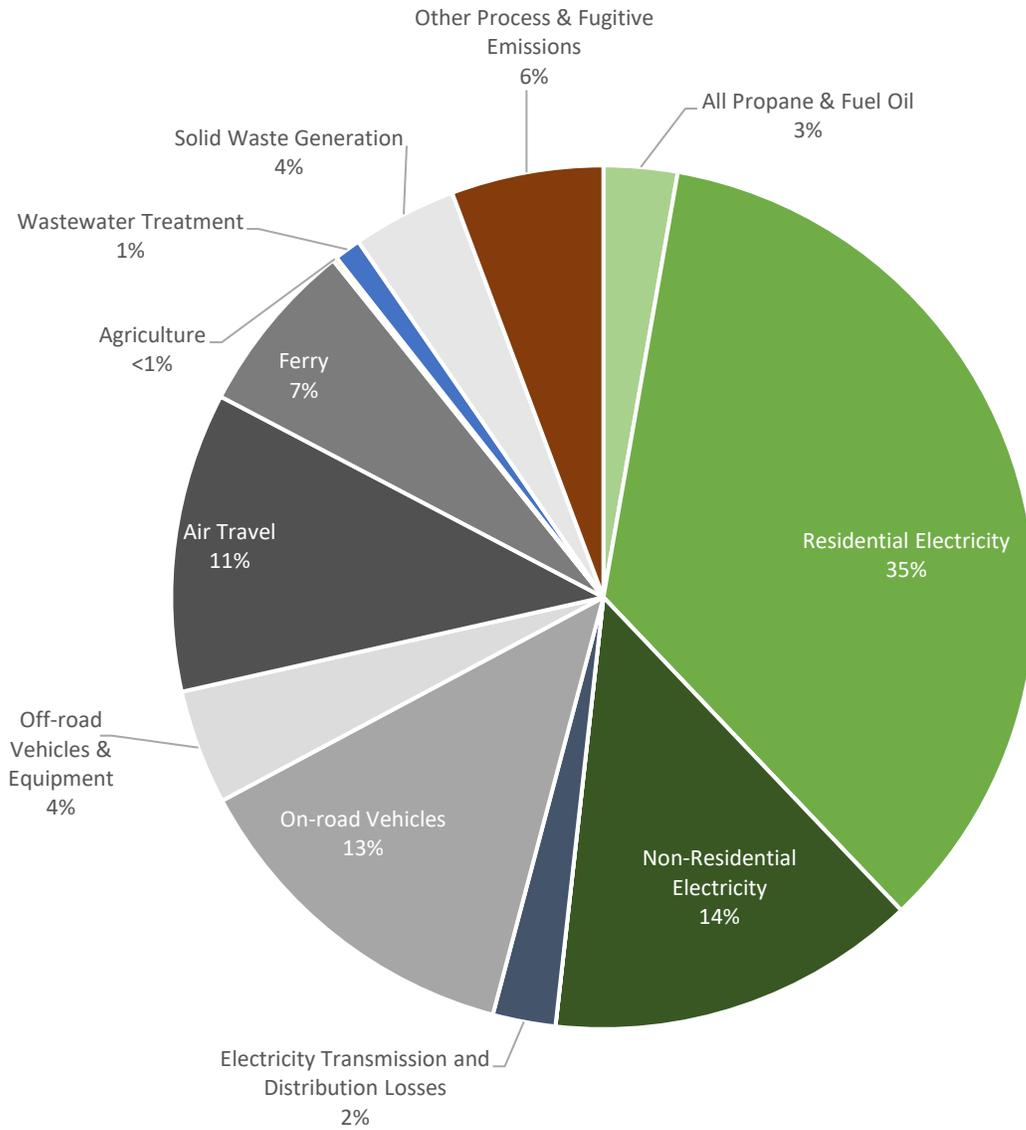
COBI completed a GHG emissions inventory in October 2019¹ that quantified emissions produced by the Bainbridge Island community (the community inventory) and COBI operations (the municipal inventory). A consumption-based inventory was also developed to estimate GHG emissions from the goods and services we consume.

The inventory accounts for human-caused emissions of the most prominent and typical GHG emissions for communities: carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). To account for the differences in potency among these gases, all emissions are calculated and reported in units of metric tons of carbon dioxide equivalent (MTCO₂e). Bainbridge Island’s estimated total community emissions for 2014 were 214,425 MTCO₂e or 9.3 MTCO₂e per person. In comparison, Seattle has an estimated per person emissions of about 5 MTCO₂e, Bellevue about 12 MTCO₂e, and Washington State 13 MTCO₂e.

In 2014, the majority of GHG emissions on Bainbridge Island came from residential and commercial electrical use (51%), while transportation contributed about 35%, and with other sources contributing about 14% (Figure ES.1).

As COBI and the community take action to reduce GHG emissions, these inventories will serve as tools for tracking progress and making improvements along the way.

Figure ES.1 Bainbridge Island Community Emissions by Source, 2014 (Total = 214,425 MTCO_{2e})



ES.4. Development of the Climate Action Plan

The CCAC and COBI gathered community input on what we should do to reduce GHG emissions and prepare our Island for the impacts from climate change. Community engagement activities included:

- An on-line survey taken by over 450 community members.
- Two community meetings attended by over 150 people.
- Monthly Climate Change Advisory Committee meetings open to the public to provide input.



ES.5. Climate Action Plan Goals

The CAP has three goals (see inset): one for mitigation, one for adaptation, and one for community engagement. The CAP identifies actions designed to achieve those goals. It will be important to conduct periodic updates to the GHG emission inventory to determine progress in meeting these goals.

The CCAC has conducted an analysis of pathways to reduce our community emissions to meet our mitigation goal. Reductions are grouped into three action areas that need to occur to meet the 2045 mitigation goal (Figure ES.2).

In Figure ES.2, the value of the bar indicates the percent reduction associated with a particular action area. For example, State policies are estimated to reduce emissions from a 2014 baseline of approximately 214 MtCO_{2e} to approximately 89 MtCO_{2e} when fully implemented by 2045 (59% GHG reduction from 2014 levels). Primary CAP-identified actions could bring us down to 55 MtCO_{2e} if fully implemented (an additional 16% or 75% total GHG reduction). Finally, partnerships and other actions could take us down to about 21 MtCO_{2e} or 90% total GHG reduction by 2045 from 2014 levels.

BI Climate Action Plan Goals

Mitigation: Reduce greenhouse gas emissions by 90% by 2045 compared to 2014 levels with interim milestones of 25% reduction by 2025 and 60% by 2035 compared to 2014 levels.

Adaptation: Bainbridge Island is climate savvy, and can withstand the impacts of climate change.

Community Engagement: COBI inspires community action and partners with local and regional organizations to take meaningful and equitable climate change mitigation and

1. State Actions

In 2019, the Washington State legislature passed the Clean Energy Transformation Act (CETA)². CETA requires the State's electrical supply to be free of coal by 2025, carbon neutral³ by 2030 and 100% carbon-free by 2045. They also passed legislation that requires the phase-out of

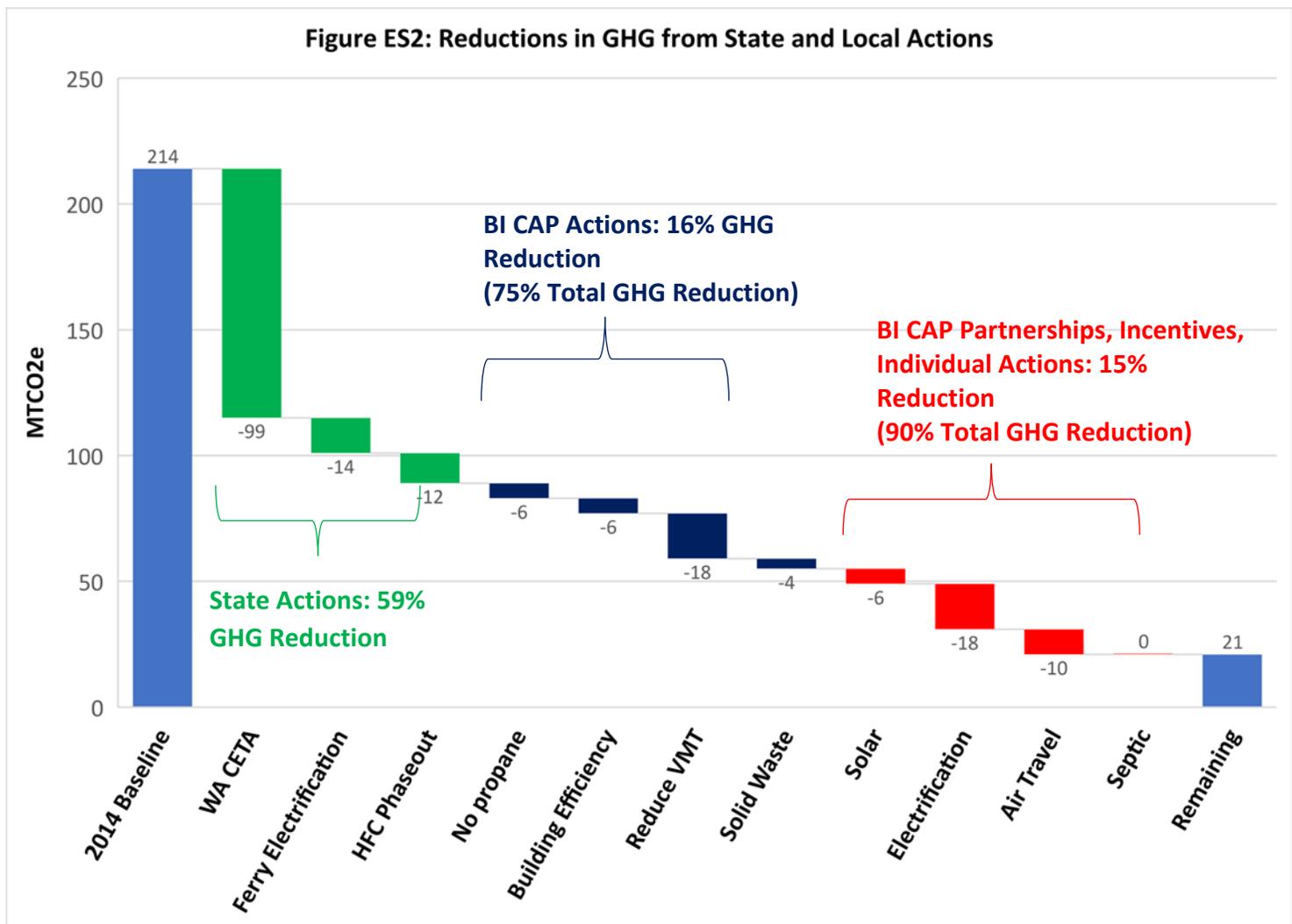
hydrofluorocarbons.⁴ In addition, the ferries from Bainbridge Island to Seattle will be able to run on 100% electric power as of 2022. These actions will contribute about 59% of the 90% GHG reductions needed to meet the 2045 mitigation goals.

2. Bainbridge Island Actions

These actions are related to specific actions such as: not allowing propane or fuel oil as a primary fuel in new developments; adopting a green building code, reducing vehicle miles traveled, and reducing amount of waste landfilled. These actions will contribute about 16% of additional GHG reductions. In combination with State policies, they will contribute about 75% of the 90% of GHG reductions needed to meet the 2045 mitigation goals.

3. Partnerships, Incentives, and Individual Actions: About 15% of GHG reductions will come from community and individual actions such as: installing community solar projects; replacing internal combustion transit with electric cars, bikes, and buses; and reducing the amount of air travel.

Figure ES2: Reductions in GHG from State and Local Actions



ES.6 Recommended, Priority and Immediate Actions

The CAP includes over 180 recommended actions to reduce GHG emissions and prepare our community from the impacts of climate change. The CCAC identified about 75 “priority actions” from the total recommended actions. Priority actions were determined based on a ranking process that include five criteria.

- **Mitigation or adaptation:** Potential for the action to reduce GHG emissions (mitigation) and/or potential for the action to reduce vulnerability to effects of climate change (adaptation).
- **Implementable:** The action is both technically and logistically feasible and has been implemented in other jurisdictions.
- **Duration of benefits:** The length of time over which the benefits of the action will persist.
- **Equity:** The action will contribute to or support social justice, equity, diversity and inclusion within our community.
- **Co-benefits:** The action will produce co-benefits (e.g., air pollution reduction; economic opportunities; improved transit; preserve natural resources).

All of the recommended actions are included in the CAP below. A more detailed description of the priority actions with milestones and timeframe are included in Appendix A.

In addition, the CCAC recognized it was important to identify a smaller subset of the priority actions as immediate actions that can help jump start implementation of the CAP and provide the biggest near-term reductions in GHG emissions.

Table ES.2 provides a list of those immediate actions that can be initiated, and in some cases completed, over the next 9-12 months. The actions identified on Table ES.2 are a mix of actions. Some can be completed quickly and others need to be initiated now as they will take multiple years to complete. Identifying this smaller subset of immediate actions enables the CCAC to better support COBI as it starts to implement the CAP and provides a clear and transparent road map for our Community on what are the immediate steps, we need to take to start reducing our GHG emissions.

Table ES.2 Immediate Actions for Next 9-12 Months

Area	Action
Implementation	5.A.1.b/6.A.1.c/7.D.1.a: Use the EcoAdapt Climate Change Adaptation Certification Tool in COBI decision making.
	9.B.1.a: Equity implications are addressed in all actions
	8.C.1.b/8.C.1.a: Hire City staff to coordinate and lead climate efforts and review existing authorities.
	9.D.1.a: Develop cost estimates and staffing needs for priority actions.
GHG Inventory	2.A.1.a: Improve accuracy of GHG Inventory.
Energy	3.A.1.b: Work with PSE to reduce our energy demand.
	3.B.1.a: Work collaboratively with PSE, via the PSE Franchise to green our energy supply.
	3.B.1.c: Prohibit propane, fuel oil, and wood stoves for primary heating in new buildings.
	3.A.2.a: Initiate discussions on establishing a Green Building and Energy Fund
Transportation	4.A.1.a: Support the recommendations from the Sustainable Transportation Task Force and ensure potential GHG emission reductions are considered in all options considered by Task Force.
	4.B.1.a. Transition COBI’s fleets to primarily electric vehicles, use biofuels where not an option, and encourage other Bainbridge Island taxing districts to also develop a plan.
	4.B.2.a. Evaluate current code to see if a need to increase the number of EV-charge-ready for all new development/major renovations and multifamily units/commercial development include EV charging infrastructure.
Buildings	5.A.1.a: Support the recommendations from the Green Building Task Force.
	5.B.1.a., b., and c: Build on preliminary sea-level rise assessment endorsed by CCAC.
Natural Environment	6.A.2.a: Create list of tree and plant species expected to be favored by climate change that can be used for forest management and restoration actions.
Waste	7.A.2.a: Pass an ordinance to reduce single-use plastics.
Community Engagement	8.A.1.a. and b: Develop a web presence for climate change on City website and make climate information widely and easily available to all community members.
	8.C.2.a: Establish equitable access to recharging generators and cell phones during outages, and provide emergency food/water/filtered air during poor air quality due to wildfires.

ES.7. Individual Actions

In addition to the actions identified above, that the City is responsible for implementing, there are numerous actions individuals can take to reduce GHG emissions and prepare our Island for current and future climate impacts. These actions fall into six categories:

- Participate in Community Climate Action
- Reduce Energy Use
- Reduce Waste
- Reduce Water Use
- Reduce Use of Internal Combustion Vehicles
- Reduce Vulnerability to Climate Change.

Section 10: Individual Actions – What Can We Do to Make a Difference, identifies examples of actions that individuals throughout our community can take.

ES.8. Implementation and Future Updates

The Bainbridge Island City Council will be responsible for oversight and making policy decisions to support implementation of the CAP. COBI staff will integrate CAP goals and strategies into City operations and decision-making and report back on progress.

Achievement of the climate goals will require that COBI staff, community members, business leaders, and institutions all take actions. COBI staff will work to support community members in taking climate action and involve residents in implementation decisions.

Because climate change most negatively affects vulnerable communities, implementation of the CAP should advance equity while addressing climate change. COBI staff will work to establish partnerships with underserved communities, build capacity for climate leadership across the community, and involve diverse community voices from the start of any program. The priority actions for Implementation are described in detail in Section 9 below.

The 2020 CAP represents the beginning of an ongoing and iterative conversation between COBI and the community it serves. COBI will work with the community, local partners, and technical experts to update the CAP every three to five years, so that we can respond to changing circumstances and learn from implementation challenges and successes. The next GHG emissions inventory will be completed by 2022 for the year 2021. The GHG emissions inventory after that will be completed by 2026 for the year 2025 and then they will be completed every 5 years.

Section 1: Introduction



Section 1: Introduction

We are in a climate crisis of our own making to which we must respond. Climate change will impact Bainbridge Island in multiple ways, including sea level rise resulting in loss of land (including homes, roads and habitat) and altered precipitation patterns resulting in less groundwater recharge, increased potential for wildfire, and changes in vegetation.⁵

The urgency to substantially reduce our greenhouse gas (GHG) emissions and make our community more resilient to climate change requires that we take significant action now. Waiting puts our community, economy and our children's future in peril.

A 2018 report from the Intergovernmental Panel on Climate Change⁶ stated that to keep global temperatures below 1.5°C compared to pre-industrial levels will require net zero global carbon emissions by approximately 2050. This conclusion is also supported by the 4th National Climate Assessment⁷ and many other scientific publications^{8,9} and entities.

In 2016 the City of Bainbridge Island (COBI) demonstrated its concern for climate change when it incorporated climate change into the updated Bainbridge Island Comprehensive Plan.¹⁰ The Comprehensive Plan has seven guiding principles, one of which explicitly addresses climate change (see side bar).

In 2017, COBI again showed its commitment to address climate change when it established the Climate Change Advisory Committee (CCAC), with a mandate to provide the City with recommendations for a Climate Action Plan.

In developing the Climate Action Plan (CAP), the CCAC followed the five milestones approach suggested by ICLEI¹¹, a global organization which has been working for more than 20 years to assist local governments in reducing their GHG emissions and preparing communities for the impacts of climate change.

The five milestones below offer a systematic approach to dealing with climate change. The specific actions the City has taken, or intends to take, for each milestone are summarized below.

BI Comprehensive Plan Guiding Principle #7: Reduce greenhouse gas emissions and increase the Island's climate resilience.

Guiding Policy 7.1: Participate with state, regional and local partners to reduce greenhouse gas emissions consistent with the 1990 benchmark and future year targets set forth in state law, educate the public about climate change and incentivize Island activities including land use patterns and building practices that reduce greenhouse gas emissions.

Guiding Policy 7.2: Minimize or ameliorate the impacts of climate change on our community and our Island's ecosystems through climate-informed policies, programs and development regulations.

Guiding Policy 7.3: Evaluate the climate vulnerabilities and implications of City actions and identify policies that alleviate those vulnerabilities. Consider the effects of shifting conditions (sea level rise, changing rainfall patterns, increasing temperatures and more extreme weather events) and the effects they cause (altered vegetation, changing water demands, economic shifts).

- **Milestone 1:** A GHG emissions inventory was completed by Cascadia Consulting Group for COBI. The inventory covered emissions from City operations and from the Community as a whole. A summary of the results is included in Section 2.

- **Milestone 2:** The CCAC recommended a reduction target for GHG emissions. The target is discussed below.

- **Milestone 3:** The CAP was developed over a 12-month period after significant input from the Community and interaction with the City Council and COBI staff. The CAP includes a number of goals necessary to meet the reduction targets. The specific strategies and actions needed to meet the goals are discussed in Sections 3-8.

- **Milestone 4:** The next step is to implement the actions identified in the CAP. This is discussed in Section 9.

- **Milestone 5:** The evaluation and monitoring of progress is critical to ensure the actions identified are effective in reducing GHG emissions and preparing the Island for the impacts of climate change.



It will also be important to use the information from the evaluation and monitoring to make changes to the CAP as needed and adaptively manage those changes over time.

1.1. Why develop a Climate Action Plan?

The CAP is a comprehensive roadmap that outlines the specific activities that COBI and the community can undertake to reduce GHG emissions and increase our resilience to the climate changes that are occurring now and will intensify in the future.

The CAP considers both mitigation and adaptation strategies and actions. **Mitigation** responses reduce GHG emissions, while **adaptation** responses increase resilience and/or decrease vulnerability. Combined, these two approaches create a comprehensive, integrated strategy for addressing climate change.¹²

Mitigation can be achieved through approaches such as more sustainable development, higher-density development, fewer vehicle miles traveled, more use of non-motorized transportation, more electric vehicles, green building standards, and renewable energy sourcing.

Adaptation addresses the effects of climate change, including sea level rise, altered precipitation patterns with related flood and drought impacts, and increased temperatures. Approaches include: low-impact development; retreat of buildings and infrastructure from rising seas; climate certified zoning, permitting and procurement; and climate-savvy hazard mitigation and resource management.

1.2. Federal, State, and Local Climate Policy

In June 2013, President Obama presented a Federal Climate Action Plan setting forth a plan and policies to cut carbon emissions, prepare for climate change impacts, and lead international climate protection efforts.¹³

In December 2015, all but two countries (who have since joined) in the world signed on to the Paris Climate Agreement to limit global warming to less than 2° C (3.6° F) above pre-industrial levels. They also agreed to stop the rise of GHG emissions as quickly as possible, with an aspiration to limit warming to 1.5° C (2.7° F).

On June 1, 2017, President Trump initiated the process to remove the United States federal government from the Paris Climate Agreement and is seeking to nullify the obligation to contribute aid to less developed countries. When this change takes effect in 2020, the U.S. will be the only National government not participating in the Paris Agreement as the original two holdouts, Syria and Nicaragua, subsequently joined in November 2017.

Responding to President Trump's announcement, hundreds of cities - including Bainbridge Island (see Resolution 2017-20)¹⁴ -, 10 states, and thousands of U.S. corporations and institutions joined the "We Are Still In"¹⁵ campaign, declaring their continued commitment to meeting the reduction goals of the Paris Agreement.

Currently, the Federal government is not taking an active role in climate change issues. Given the lack of federal action, many city and state governments along with a number of corporations are now leading U.S. efforts to reduce emissions and prevent catastrophic climate change.

Washington State enacted several measures during the 2019 legislative session to reduce GHG emissions. They mandated GHG reductions from energy generation, put in place incentives for electric cars, provided resources to electrify the State's ferry fleet, required higher efficiency standards for appliances, and mandated a phase out of the very potent greenhouse gases, hydrofluorocarbons.¹⁶

In 2016, the City of Bainbridge Island incorporated climate change into its Comprehensive Plan. The City Council has also passed several resolutions in support of climate change actions. And in

2017, the City Council established the CCAC.¹⁷ The CCAC was established to serve as a technical and planning advisory committee to the City Council, city manager, and COBI staff on issues related to climate change. The Council requested that the CCAC develop a Climate Action Plan (CAP) for the Island.¹⁸

The development of the CAP is an important milestone on the path to reducing GHG emissions and preparing our Island for the effects of climate change. However, the real work starts now: **implementation of the CAP recommendations.**

Implementation will require the City to make difficult decisions on priorities and identify the funding and/or staffing for the critical actions. Success will also depend on the Bainbridge community's involvement and individuals' taking meaningful personal action to respond to this climate crisis.

The CAP is intended to be a living document, modified over time to adapt to the City's and community's changing conditions. The many contributors to this document hope the CAP can provide clear guidance in helping Bainbridge Island do its part in combating climate change.

BI: Recent climate related City proclamations, resolutions, and ordinances

- Relating to Climate Emergency (Resolution 2020-05)
- National Drive Electric Week 2019 (Proclamation).
- Supporting Green New Deal (Resolution 2019-14).
- Endorsing Clean Air Energy Initiative 1631 (Resolution 2018-27).
- Affirming Support for Paris Climate Agreement (Resolution 2017-20).
- Supporting a carbon pricing policy for Washington State (Resolution 2017-04).
- Establishing a Climate Change Advisory Committee (Ordinance 2017-03).
- Integrated climate change into the Comprehensive Plan (Ordinance 2017-01).

1.3. Bainbridge Island Climate Impact Assessment

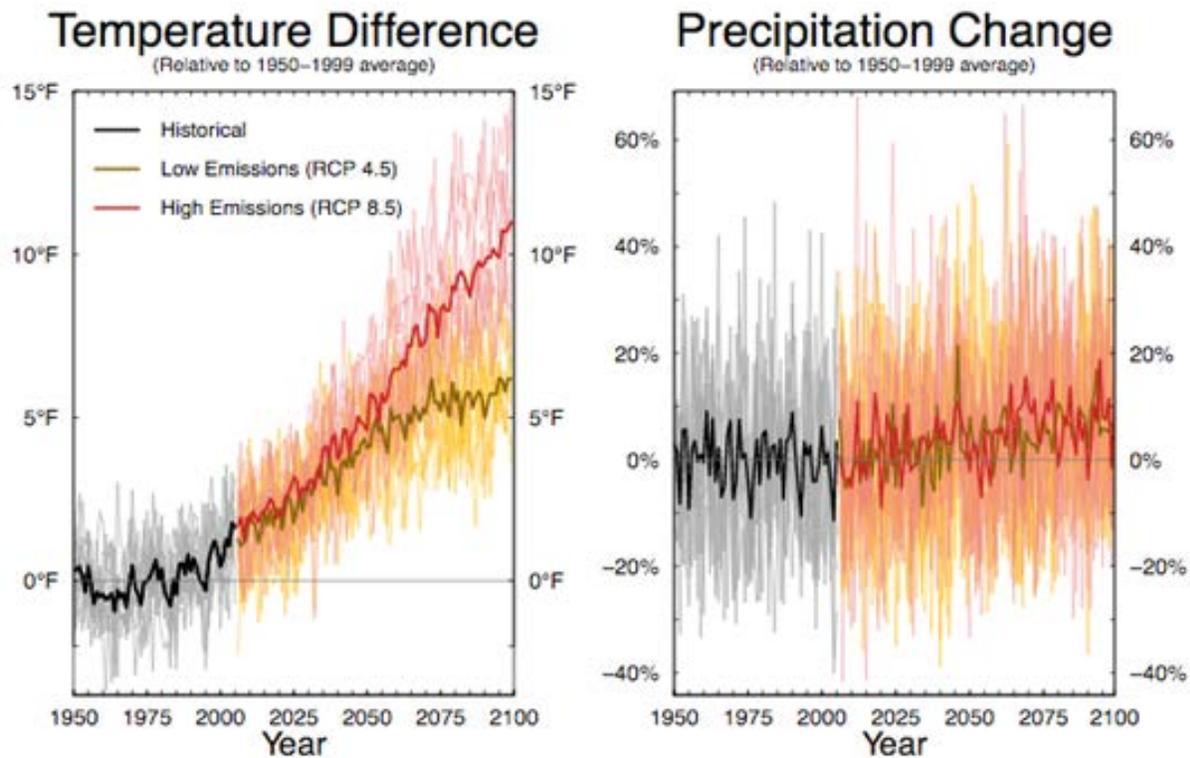
The effects of climate change relevant to Bainbridge Island can be categorized in terms of six impact areas: temperature, precipitation/extreme weather, sea level rise, vegetation change, ocean acidification and slope stability.

Temperature

Our climate has warmed over the past century and temperatures are expected to continue to increase over the 21st century.¹⁹ We have already experienced about 1.3° F (0.7° C) of warming by 2014 and the frost-free season has lengthened by 30 days. The projections are represented in Figure 1.1 as historical temperature and with two potential future trends based on either Low Emission (RCP 4.5) or High Emissions (RCP 8.5) scenarios.

RCP stands for 'Representative Concentration Pathway.'²⁰ RCPs were used in the latest IPCC report to make projections of how human activities will affect concentrations of GHG in the atmosphere and the resulting increase in temperatures. The four RCPs range from very high (RCP 8.5) through to very low (RCP 2.6) future concentrations. The numerical values of the RCPs (2.6, 4.5, 6.0, and 8.5) refer to the concentrations in 2100.

Figure 1.1 Regional Projections for Changes in Temperature and Precipitation²¹



Between now and mid-century, average annual air temperatures are projected to increase between 4 to 5.5° F (2.2 to 3.1° C), with even greater warming projected in the years thereafter.

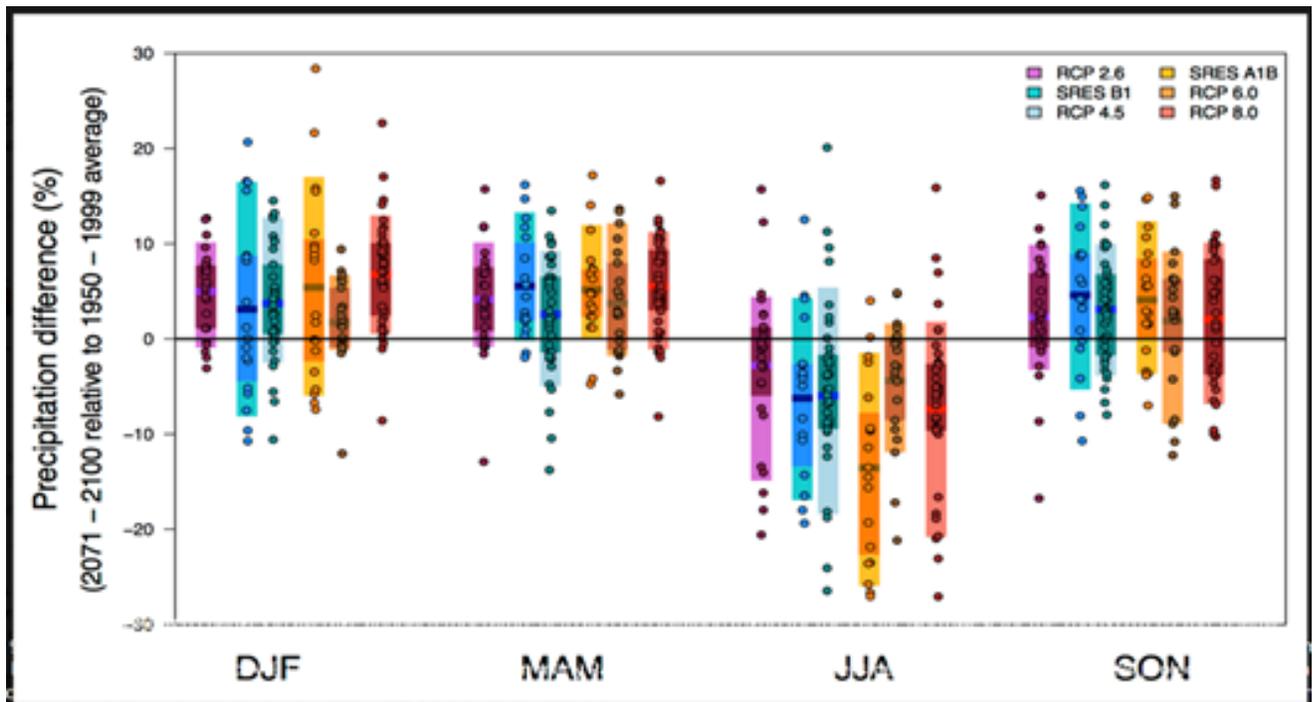
This warming, unlike warming observed to date, which has not yet substantially affected spring temperatures, is expected to affect all seasons, with the greatest increase in summer months.

Increasing temperatures can affect our human demand for water and will increase the water requirements of Island vegetation (natural systems, agriculture and landscaping). Increasing temperatures will also affect our terrestrial, freshwater and marine ecosystems. In addition, this will impact human health by increasing the likelihood of heat-related illness and diminished air quality.

Precipitation/Extreme Weather

There has not been a long-term change in total regional precipitation (Figure 1.1). However, there has been a “modest increase” in heavy rainfall events. It is projected that year-to-year variation in precipitation is expected to increase for all seasons except summer, which is expected to see declining precipitation²² (Figure 1.2). Additionally, extreme winter precipitation events are expected to be more intense (+22%) and more frequent (seven events per year, up from two events per year historically).

Figure 1.2 Projected Difference in Precipitation by Season for the Pacific Northwest Based on Six Climate Scenarios ²³



Increasingly intense winter precipitation events have significant implications for all things affected by episodic flooding, including homes, businesses and critical infrastructure as well as marine and terrestrial species and their habitats. For example, increasing numbers of extreme weather events may overwhelm stormwater infrastructure that was designed to handle lower peak flows. Intense precipitation also negatively affects groundwater recharge rates (faster-moving water has less time to infiltrate) and surface water quality (more intense rainfall picks up more contaminants, nutrients and sediments).

Declining precipitation during the summer, already our dry season, may result in decreased groundwater recharge rates as well, which may not be offset by more intense winter precipitation when more water runs off into the Sound. Decreased precipitation will also change the types of vegetation that can thrive on our Island. The mix of increased temperatures, water-stressed vegetation and above ground power lines (which are the majority of our transmission and distribution lines on Bainbridge Island) may increase our fire hazard as experienced in California, which has had catastrophic fires over the past several years.

Sea Level Rise

Central Puget Sound waters have risen by more than 8 inches during the past century.²⁴ Continued warming is expected to accelerate rising sea levels over the next century and beyond. The most likely projections (i.e., central estimates for RCP 8.5 scenario) indicate that relative to average sea level during the period 1991-2009, Bainbridge Island will experience additional sea level rise of about:

- 5 inches by 2030;
- 10 inches by 2050;
- 28 inches by 2100: and
- 46 inches by 2150.²⁵

Projections vary widely according to different emissions scenarios and other factors, but again, each of the above amounts are projected to eventually occur.

A limited number of public assets, primarily related to sewer service in and around Eagle Harbor and some low-lying streets, have already experienced or will soon experience inundation from sea level rise, especially during king tides.²⁶ Other vulnerable assets include Washington State Ferries terminal and maintenance facilities, the Wyckoff Superfund site, Fay Bainbridge Park, and to a lesser extent, the Winslow Wastewater Treatment Plant.

The most significant impact will be to private property owners around the Island, many of whom currently experience occasional nuisance flooding, although some coastal habitats such as coastal wetlands, accretion beaches, and forage fish spawning areas will also be impacted.²⁷

By the middle of this century, many waterfront residences will face severe flooding, and in some cases, permanent inundation. High risk areas include Hedley Spit/Point Monroe, Manitou Beach, and Schel Chelb Estuary/Point White Drive (see Figure 1.3). Figure 1.3 represents today's extreme high tide. According to central estimates it will occur annually by the 2060's and monthly by 2090's. Accelerated bluff erosion will threaten high-bank properties and many septic systems Island-wide. Increased saltwater intrusion will stress ground water resources, marine riparian vegetation, and low laying septic systems near the shoreline.

Figure 1.3 Hedley Spit/Point Monroe, Lynwood Center and Eagle Harbor with Annual Projected Sea Level Rise by 2060²⁸



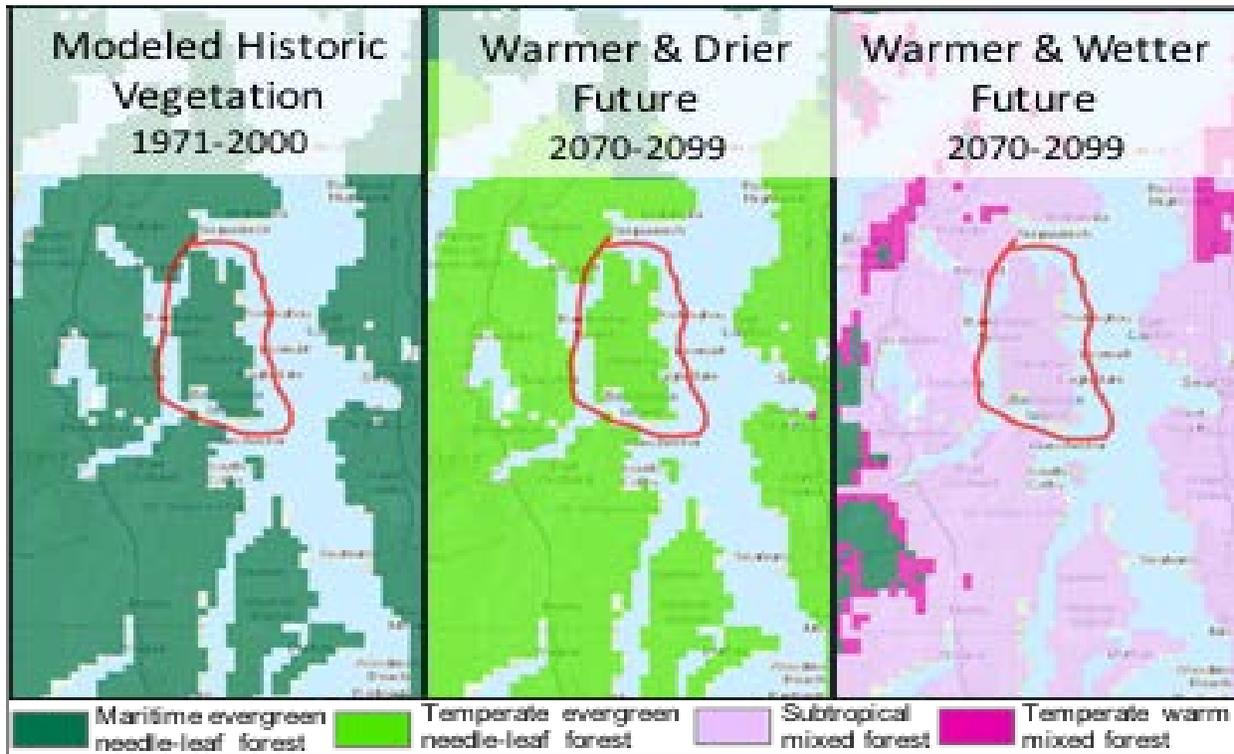
Vegetation Changes

Changes in our local climate (e.g., increasing temperatures, decreasing summer precipitation) are anticipated to affect local vegetation — forests, other natural habitat, horticulture and agriculture.

Washington's forests are likely to experience significant changes in the establishment, growth, and distribution of tree species as a result of increasing temperatures, declining snowpack, and changes in soil moisture. A rise in forest mortality is also expected due to increasing wildfire, insect outbreaks, and diseases. The projected changes could affect both the spatial distribution and overall productivity of many ecologically and economically important Pacific Northwest tree species, including Douglas-fir, ponderosa pine, lodgepole pine, and whitebark pine.²⁹

Summer water stress will decrease tree growth and increase fire risk. These changing conditions (e.g. climatological, heat and water stressed plants) are also likely to cause changes in pests. Therefore, although the length of our growing season may increase, more extreme stressful conditions (heat, drought, flooding) coupled with pest pressure from new species and altered seasonality may adversely affect agriculture, landscaping, forests, and associated wildlife.

Figure 1.4 Projected Vegetation Changes for Bainbridge Island Based on MC1 Models of A2 SRES Emission Scenarios ³⁰



Currently Bainbridge Island has a maritime evergreen needle leaf forest. While there is considerable uncertainty in the compositional change in forests, Figure 1.4 shows a potential transition to a temperate evergreen needle leaf forest or subtropical mixed forest by the end of the century. This will depend on the changes in temperature and precipitation in our area. If it is warmer and drier then the type of forest is projected to transition to a temperate forest. However, if it is warmer and wetter than a more subtropical mixed forest is projected

Local marine habitat will also see changes in flora and fauna. Issues of particular concern include increasing magnitude and frequency of harmful algal blooms. Algal blooms can adversely affect shellfish, finfish, submerged aquatic vegetation (e.g. eelgrass), marine food webs and air quality, due to increasing temperature and altered pH and diminished dissolved oxygen (hypoxia) in the water column as a result of warmer temperatures.³¹

Ocean Acidification

As carbon dioxide levels increase in the atmosphere, more carbon dioxide is absorbed by the world’s oceans, resulting in ocean acidification. This phenomenon is reflected in Puget Sound. Measurable declines in pH have already occurred and are expected to continue.³²

The impacts of ocean acidification on Puget Sound may be further compounded by changes in circulation and salinity due to several factors: changing runoff (heavy precipitation, declining snowpack); increasing water temperatures; and declining oxygen (hypoxia). These impacts have

implications for activities that affect or rely on water quality, including aquaculture and municipal sewage discharge compliance. Our understanding of the ramifications of ocean acidification is just beginning, with new revelations being made regularly.

An important concept to consider is blue carbon. Blue carbon is the carbon stored in coastal and marine ecosystems. Coastal ecosystems such as tidal marshes and seagrass meadows sequester and store more carbon per unit area than terrestrial forests and are now being recognized for its role in mitigating climate change.³³

Slope Stability

Climate change produces several conditions likely to affect slope stability. It increases soil saturation due to altered precipitation intensity and timing; changes the vegetation that holds slopes together, due to altered precipitation and increased temperatures; increases erosion, due to sea level rise and altered precipitation; and undermines hillsides, due to sea level rise and flooding.

1.4. Results from Community Survey and Workshops

As part of developing the CAP, the CCAC conducted a web-based survey to help inform the CCAC on Bainbridge Island residents’ existing knowledge of local impacts from climate change, their level of concern, and their willingness to support local action by the City and broader community. The CCAC considered the responses from the survey when planning the community workshops and developing the CAP.

There were 443 responses to the web-based survey. In comparison to the general demographics of Bainbridge Island the respondents were generally older, female, from the Central part of the Island and have no children at home (Table 1.1).

Table 1.1 Demographics of Respondents to Community Climate Survey

	Survey	Bainbridge ³⁴
Age:		
Under 18	<1%	25%
18-24	1%	3%
25-44	16%	17%
45-64	40%	31%
>64	43%	24%
Gender		
Female	59%	51%
Male	35%	49%
Other	6%	Not reported
Children at Home		
Yes	31%	32%
No	69%	68%

Figure 1.5 Knowledge of Climate Change Impacts in General and on Bainbridge Island

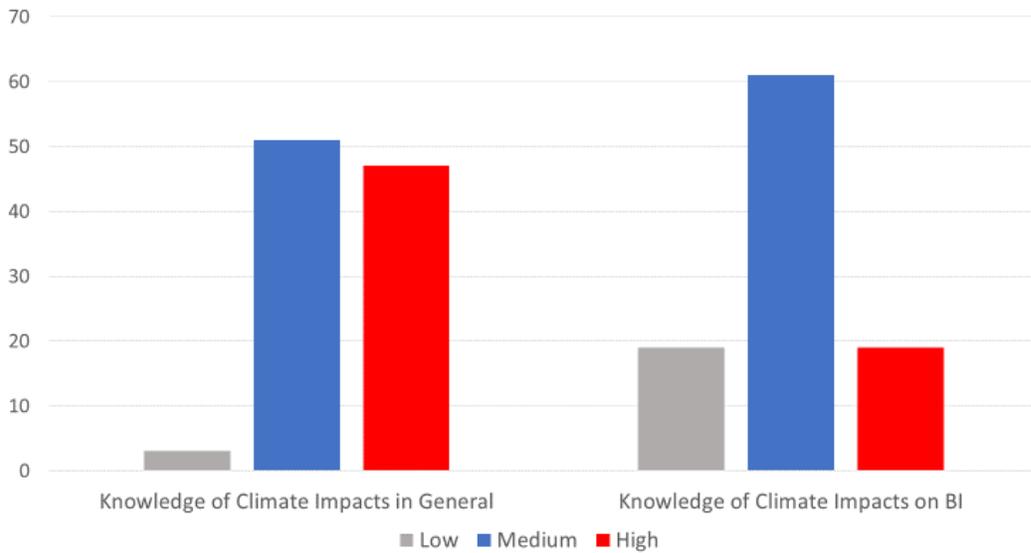
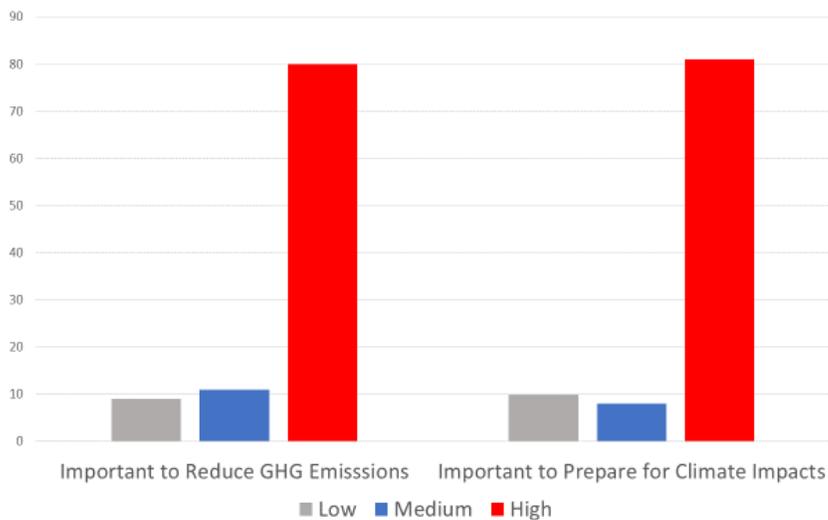
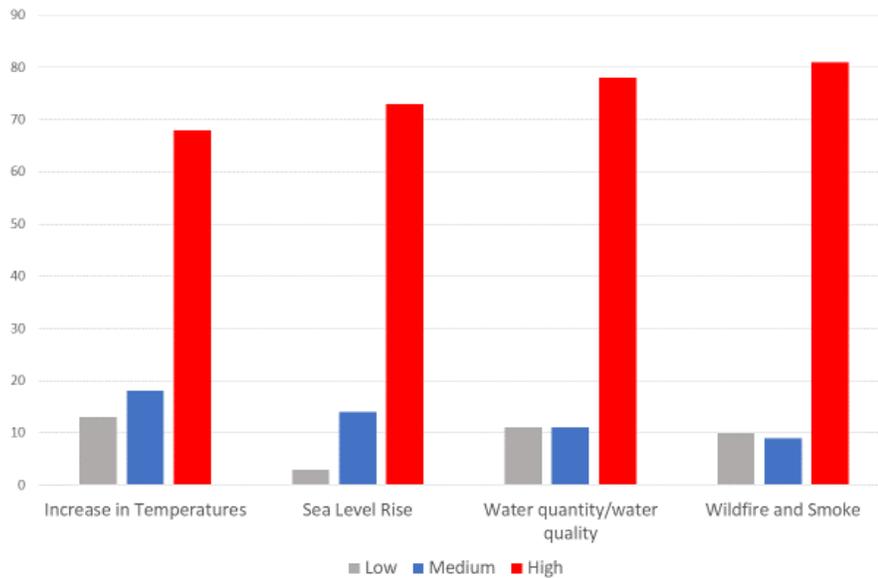


Figure 1.6 Importance of Reducing GHG Emissions and Preparing for Climate Impacts on Bainbridge Island



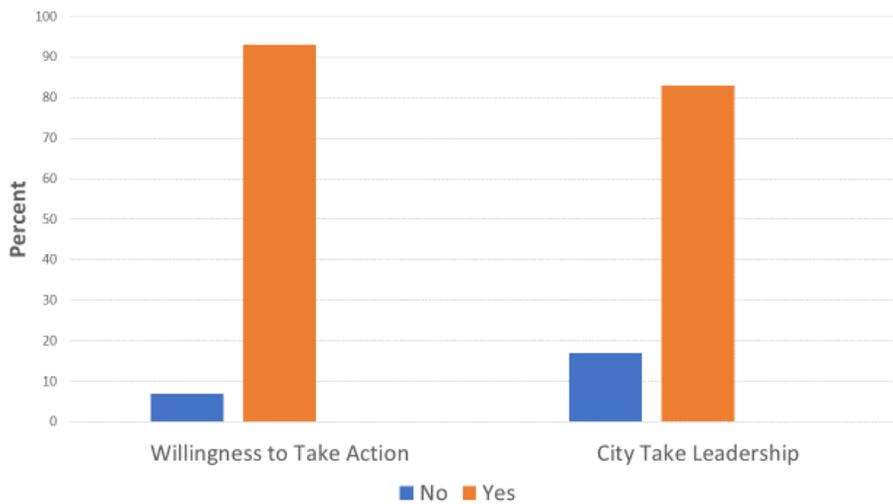
Over 70% of respondents were either extremely or very concerned about all the impacts described in the survey (Figure 1.7). Issues that ranked highest in terms of level of concern were increasing temperature, sea level rise, water quality and quantity, and wildfires and smoke.

Figure 1.7 Concern about Climate Impacts



The vast majority of respondents are willing to take action on climate change and believe COBI should take a leadership role in addressing climate change (Figure 1.8).

Figure 1.8 Taking Action on Climate Change



In addition to the survey, the CCAC hosted two Community Workshops in 2019 (Saturday December 7th and Wednesday December 11th) with over 150 people in attendance. The

purpose of the workshops was to provide participants with the opportunity to learn about the climate impacts to Bainbridge Island and provide input to the CAP.



Participants were provided with an introduction to the CCAC’s objectives and the current state of knowledge about climate change impacts, focused on impacts to our region. Participants then broke out into hour-long working sessions to brainstorm ideas for each of the major sections of the CAP (e.g., energy, transportation, and buildings). CCAC members led each breakout group and a volunteer was assigned to each group to take notes. Ideas from each breakout group were compiled and written up into formalized notes and, as appropriate, the CCAC incorporated many of these ideas into the CAP.

1.5. Goals for Climate Action Plan

This plan provides the guidance needed for COBI to achieve three goals:

- Reduce Bainbridge Island’s contribution to climate change by reducing our GHG emissions (mitigation).
- Increase our Island’s resilience to climate change impacts (adaptation).
- Engage the community to make climate change actions equitable.

1.6. Challenges with Addressing Climate Change on Bainbridge Island

We Have a Complex Ecosystem

Bainbridge Island is an ecologically diverse Island shaped by its pre-glacial, glacial and post-glacial history, as well as its more recent human influences. Overlaying climate change on these already complex systems is a challenge to the stewardship of the health of our natural resources and landscapes.

BI Climate Action Plan Goals

Mitigation: By 2045 Bainbridge Island will reduce its greenhouse gas emissions by 90% compared to 2014 levels with interim goals of reducing greenhouse gases by 25% by 2025 and 60% by 2035 compared to 2014 levels.

Adaptation: Bainbridge Island citizens are climate savvy and can withstand the impacts of climate change (e.g., sea level rise, warming temperatures, changing precipitation patterns, and changing vegetation).

Community Engagement: COBI inspires action across the community and partners with local and regional organizations to take meaningful and equitable climate change mitigation and adaptation actions.

The Majority of our Shoreline is Developed

Bainbridge contains 53 miles of diverse shoreline with a wide variety of human uses, ecological functions, and ecosystem-wide processes. Approximately half of the shoreline of Bainbridge Island has some form of shoreline armoring, and the vast majority of the shoreline is developed to some extent for human use. Managing the shoreline for human use as well as ecological health is a challenge even without the added impacts of climate change, such as sea level rise, habitat loss, erosion, slope stability, risk to infrastructure, ocean acidification, and changes to the shoreline vegetative community.

Water Resources will be Stressed

Bainbridge has a complex array of surface water and groundwater resources that are sensitive to the impacts climate change will bring. Our small streams, many of which are seasonal, are likely to experience greater extremes in hydrology and runoff, with longer dry periods and higher stormwater flows. Species like salmonids that are already stressed by many local and regional factors will face additional challenges as more extreme conditions cause habitat loss and changes to the timing and return of flows in our small streams and wetlands.

Bainbridge Island is a sole source aquifer community, with the vast majority of its water coming from precipitation that falls on the Island's surface and infiltrates the ground. Human development has already substantially altered groundwater resources. Such development has changed the permeability of the ground and runoff patterns and resulted in groundwater from multiple Island aquifers being withdrawn in some cases at rates greater than those of replenishment.

Climate change will layer additional stressors on our groundwater resources. These stressors include, but are not limited to: increased runoff and decreased recharge due to more extreme precipitation events; dryer summer periods, which will particularly stress shallow groundwater sources; warmer temperatures, which will result in increased water demand; and sea level rise, which will increase the possibility of saltwater intrusion into our sea level aquifers.

Forest Management is Complex

Bainbridge Island's forests have a significant history of human modification. Harvesting for timber and shipbuilding resulted in much of the Island being deforested. This was followed by agricultural activities that cleared and plowed areas of land for decades, many of which have been reseeded or reclaimed by young forests. Bainbridge's forested lands are currently a patchwork of private and public ownership, including stewarded ownership by the City, the Bainbridge Island Parks District (BIPD), the Bainbridge Island Land Trust (BILT), and IslandWood.

Finding a clear path towards managing lands under such a wide variety of ownership is no small task, especially in the face of climate change impacts that include increased wildfire risk, risk of forest pathogens, and changes in forest community composition. Managing forest health will require significantly increased cooperation, stewardship, outreach and education to ensure that our vegetated communities continue to provide their essential ecological functions: a diverse

and healthy natural habitat; stormwater regulation; aquifer recharge; local climate moderation; and air quality, as well as aesthetic and recreational functions.

Agricultural Lands will be Stressed

The native Salish peoples and later immigrant arrivals had a long, rich tradition of harvest and agriculture on and around the Island, including harvesting camas, shellfish, salmon and other resources. The current agricultural landscape is a relatively small but diverse mosaic of public farmlands, private vineyards, pastures and farms, community pea patches and backyard gardens. Climate change can be expected to influence and challenge fundamental aspects of agricultural systems including water availability, growing seasons, invasive plants and pests, and soil health.

1.7 Organization of the CAP

The CAP builds on the Island’s Comprehensive Plan, the Bainbridge Island Climate Impact Assessment³⁵ developed for the Comprehensive Plan (summarized above), a GHG emissions inventory (summarized in section 2)³⁶, and community input. This document is organized as follows:

Section 2 summarizes the results of the GHG emissions inventory conducted by Cascadia Consulting Group for COBI.

Sections 3 through 8 provide the specific goals, targets, strategies, and actions around six focus areas:

- Energy (Section 3).
- Transportation (Section 4).
- Buildings (Section 5).
- Natural Environment (Section 6).
- Waste (Section 7).
- Community Engagement (Section 8).

The following information is provided for each focus area:

- Goals and targets
- Challenges to meeting those goals and targets
- Current actions by COBI and the Community to achieve those goals
- Strategies, prioritized actions, and other actions COBI and the Community need to take to meet those goals
- For each prioritized actions the following is included in Appendix A:
 - Description
 - Milestones
 - Years when action will be initiated, completed, and implemented.

Section 9 provides a roadmap of needed actions for implementing the CAP. This final section details the steps COBI and the Community need to take to ensure successful CAP

implementation, which in turn will create a climate savvy Bainbridge Island. Section 10 provides a list of individual actions residents can take to reduce their GHG emissions and prepare for the impacts of climate change.

1.8. Prioritizing Actions and Identifying Immediate Actions

The CCAC decided that it was important to prioritize the recommended actions to facilitate the review of the CAP by COBI staff and the City Council. The CCAC identified each action as a high, medium, or low priority. Ranks were determined based on five criteria:

- 1. Mitigation or adaptation:** Potential for the action to reduce GHG emissions (mitigation) and/or potential for the action to reduce vulnerability to effects of climate change (adaptation).
- 2. Implementable:** The action is both technically and logistically feasible and has been implemented in other jurisdictions.
- 3. Duration of benefits:** The length of time over which the benefits of the action will persist.
- 4. Equity:** The action will contribute to or support social justice, equity, diversity and inclusion within our community.
- 5. Co-benefits:** The action will produce co-benefits (e.g., air pollution reduction; economic opportunities; improved transit; preserve natural resources).

Each action was evaluated as having a high potential (5 points), medium potential (3 points) or low potential (0 or 1 point) for achieving the stated criteria. The points for each action were then totaled. These values were used to assist in determining the highest priority actions.

In addition, the CCAC recognized it was important to identify a smaller subset of immediate actions that can help jump start implementation and provide the biggest near-term reductions in GHG emissions (Table 1.2). Identifying this smaller subset of actions enables the CCAC to better support COBI as it starts to implement the CAP. In addition, it will provide a clear and transparent road map for our Community on what are the immediate steps we need to take to start reducing our GHG emissions. The timeframe for implementing these immediate actions is over the next 9-12 months.

Table 1.2: Immediate Actions for Next 9-12 Months

Area	Action
Implementation	5.A.1.b/6.A.1.c/7.D.1.a: Use the EcoAdapt Climate Change Adaptation Certification Tool in COBI decision making.
	9.B.1.a: Equity implications are addressed in all actions
	8.C.1.b/8.C.1.a: Hire City staff to coordinate and lead climate efforts and review existing authorities.
	9.D.1.a: Develop cost estimates and staffing needs for priority actions.
GHG Inventory	2.A.1.a: Improve accuracy of GHG Inventory.
Energy	3.A.1.b: Work with PSE to reduce our energy demand.
	3.B.1.a: Work collaboratively with PSE, via the PSE Franchise, to green our energy supply.
	3.B.1.c: Prohibit propane, fuel oil, and wood stoves for primary heating in new buildings.
	3.A.2.a: Initiate discussions on establishing a Green Building and Energy Fund
Transportation	4.A.1.a: Support the recommendations from the Sustainable Transportation Task Force and ensure potential GHG emission reductions are considered in all options considered by Task Force.
	4.B.1.a. Transition COBI’s fleets to primarily electric vehicles, use biofuels where not an option, and encourage other Bainbridge Island taxing districts to also develop a plan.
	4.B.2.a. Evaluate current code to see if a need to increase the number of EV-charge-ready for all new development/major renovations and multifamily units/commercial development include EV charging infrastructure.
Buildings	5.A.1.a: Support the recommendations from the Green Building Task Force.
	5.B.1.a., b., and c: Build on preliminary sea-level rise assessment endorsed by CCAC.
Natural Environment	6.A.2.a: Create list of tree and plant species expected to be favored by climate change that can be used for forest management and restoration actions.
Waste	7.A.2.a: Pass an ordinance to reduce single-use plastics.
Community Engagement	8.A.1.a. and b: Develop a web presence for climate change on City website and make climate information widely and easily available to all community members.
	8.C.2.a: Establish equitable access to recharging generators and cell phones during outages, and provide emergency food/water/filtered air during poor air quality due to fires across the west.

Section 2: GHG Inventory

Bainbridge Island
Greenhouse Gas
Emissions Inventory



Section 2: Greenhouse Gas Emissions Inventory

One of the first steps in developing the CAP was to complete a comprehensive GHG emissions inventory.³⁷ The inventory described the amount of GHG emissions produced by the Bainbridge Island community and COBI operations in various sectors (e.g., transportation, energy, and waste). In addition, a consumption-based inventory was also developed to estimate GHG emissions from the goods and services we consume. As COBI and the community act to reduce GHG emissions, such inventories must be periodically updated to monitor progress and make improvements in the methodology along the way.

This section of the CAP summarizes the key findings of the initial GHG emissions inventory and outlines the CAP goals, targets, strategies and actions to monitor GHG emissions as the community works toward our stated reduction goals.

2.1. Inventory Approaches and Methodology

The final GHG emissions inventory report was issued October 2019. It evaluated the years 2014 and 2018. Cascadia Consulting Inc. developed three inventories for COBI (see Figure 2.1):

- A **community inventory** that estimated GHG emissions produced by the activities of the Bainbridge Island community, including residents and businesses.
- A **municipal inventory** that estimated the GHG emissions produced by COBI operations, including from the operation of municipal buildings and facilities, transportation, solid waste, wastewater, and refrigerant leakage.
- A **consumption-based inventory** that estimated GHG emissions associated with the consumption of food, goods, and services within the community, regardless of their origin. This includes emissions associated with the production of goods manufactured in other locations but consumed by Bainbridge Island residents, visitors, or businesses.

Figure 2.1 Conceptual Relationship Among Community, Municipal and Consumption-Based Inventories for Bainbridge Island



Inventory Methodology

The inventory accounts for human-caused emissions of the most prominent and typical greenhouse gases for communities: carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). To account for the differences in potency among these gases, all emissions are calculated and reported in units of metric tons of carbon dioxide equivalent (MTCO₂e). The inventories were conducted using widely accepted tools and protocols, including the *Local Government Operations Protocol* and *U.S. Community Protocol for Accounting and Reporting of Greenhouse Gas Emissions*.³⁸

GHG emissions are inventoried by multiplying annual activity data (e.g. electricity consumption) by emission factors (GHG emissions produced per kWh of electricity). Data was obtained from City staff and local documentation such as Puget Sound Energy's (PSE) billing records, records from local wastewater treatment facilities, and municipal fleet vehicle fuel use records.

For the community inventory, key data sources included electricity consumption from PSE, modeling outputs for vehicle miles traveled by fuel type from Puget Sound Regional Council

(PSRC) tonnage records from Bainbridge Disposal and estimates of agricultural landowners and acreage from the Kitsap County Conservation District. Where local data were not available, downscaled national data sources such as from the Federal Transit Administration, U.S. Census Bureau, and the U.S. Department of Agriculture were used.

The activities and sectors included in GHG emission inventories are often classified into three “scopes,” which represent relative levels of control over an emissions source:

- **Scope 1** emission sources include those directly caused by an organization’s actions, such as from owned equipment and facilities the organization owns.³⁹
- **Scope 2** emissions are those indirectly associated with purchased electricity, steam, heating, or cooling.
- **Scope 3** includes all other indirect emissions that are not covered in Scope 2.

The community and municipal inventories for Bainbridge Island included emissions sources from all three scopes. The inventories included all sources required by the consulted protocols and additional sources, as relevant.

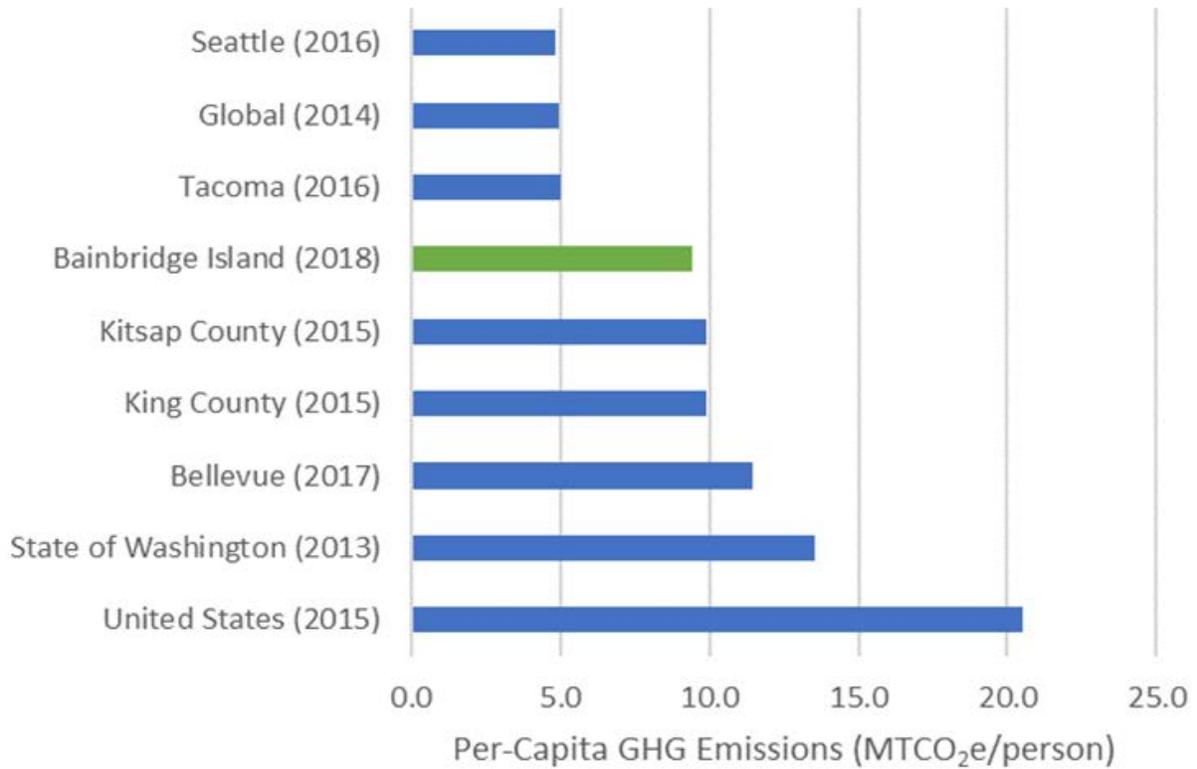
The inventories cover two representative years, **2014** and **2018**. 2018 was the most recent year with the most comprehensive, consistent, and relevant information on community GHG emissions. For a comparison year, 2014 had no major differences in organizational structure or infrastructure from 2018, and all the needed data was available and derived using methodologies consistent with 2018.

2.2. Inventory Results

Community Emissions

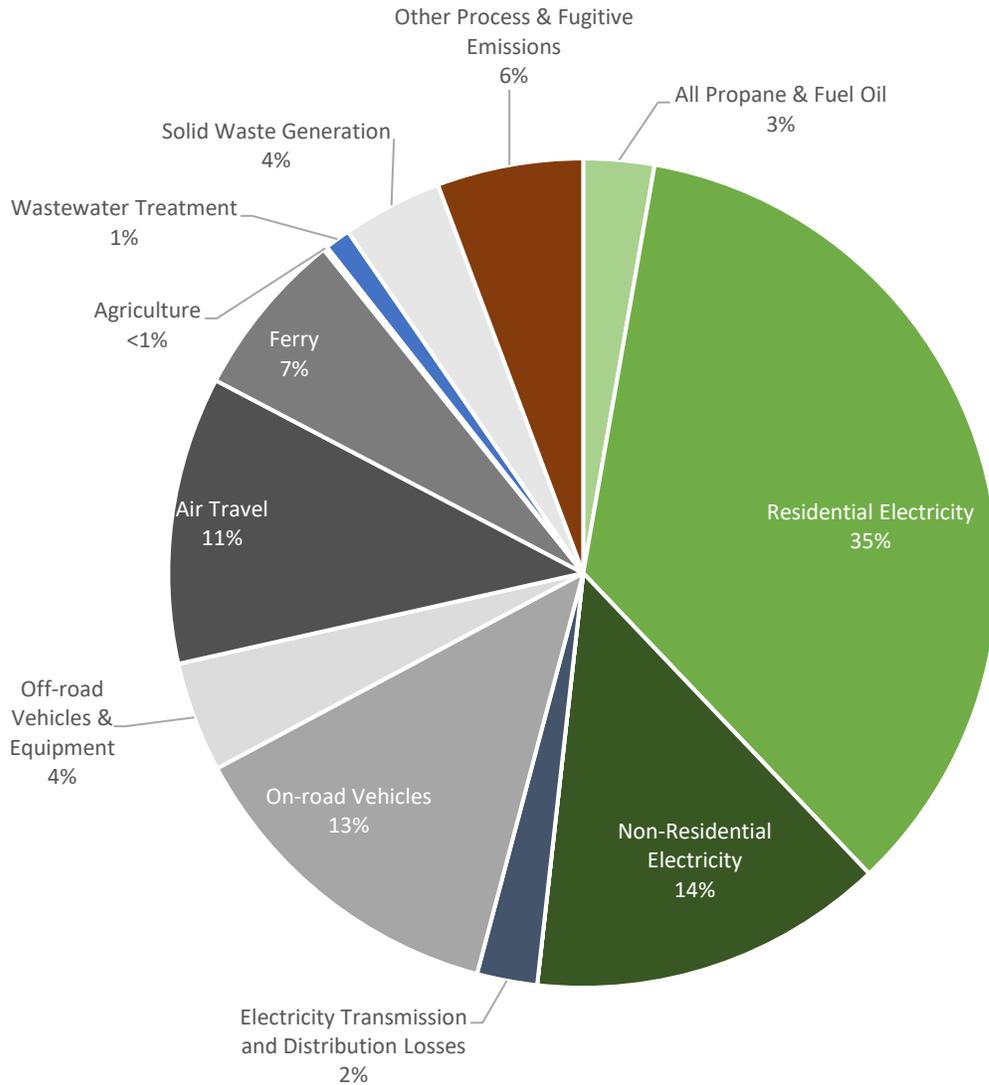
The Bainbridge Island community emitted about 214,425 MTCO₂e in 2014 (9.3 MTCO₂e per Bainbridge Island resident) and 233,998 MTCO₂e in 2018 (9.4 MTCO₂e per Bainbridge Island resident). A high-level comparison suggests that this per-capita estimate is consistent with that of Kitsap County (9.9 MTCO₂e per person), and lower than per-capita estimates for the U.S., Washington State, King County, and Bellevue. However, Bainbridge Island’s estimated per-capita emissions are almost twice those of Seattle and Tacoma (Figure 2.2) based on the Community-based inventory.

Figure 2.2 Per Capita GHG Emissions Comparison ⁴⁰



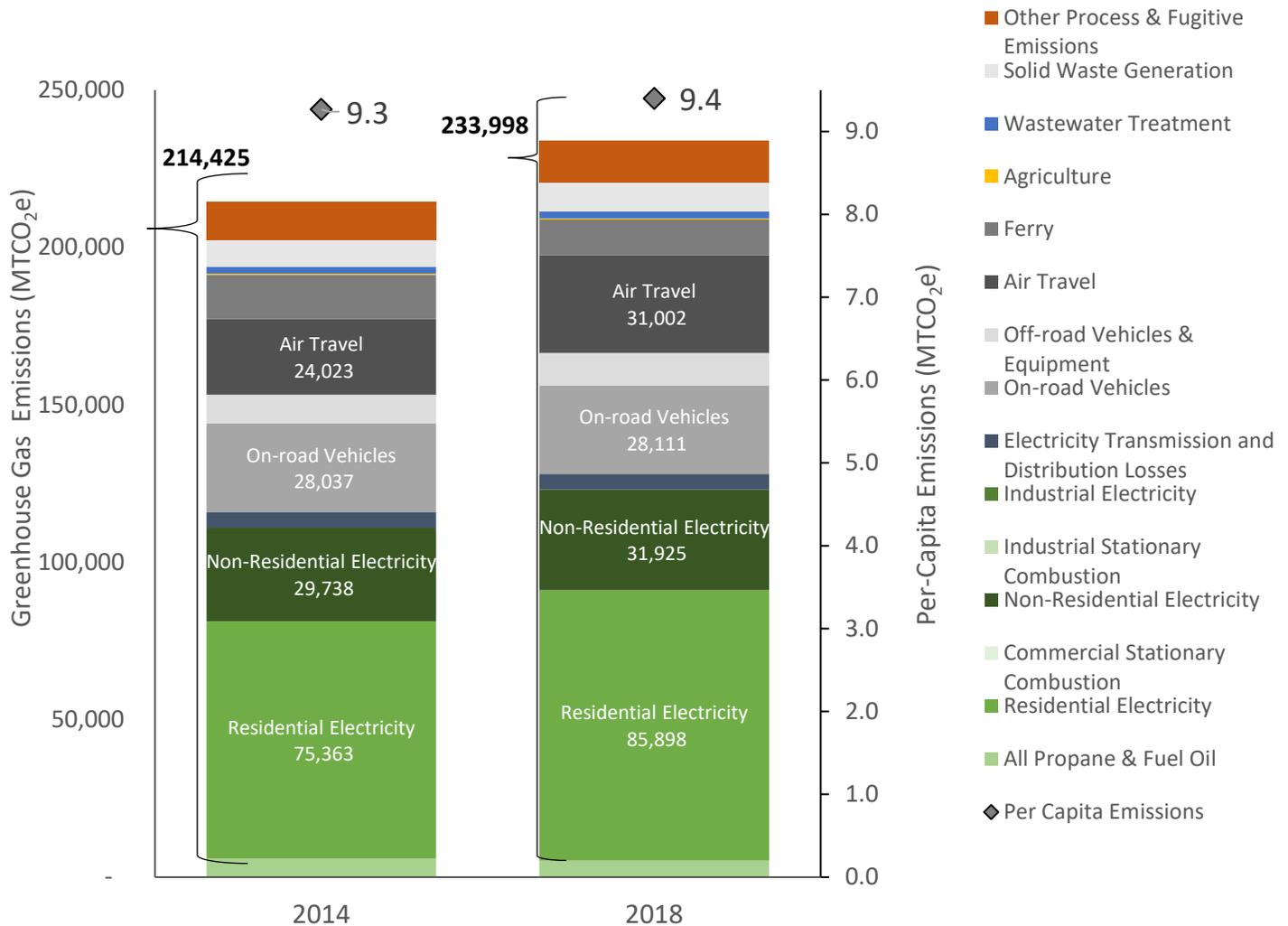
The majority of Bainbridge Island community emissions stems from consumption of electricity in homes and commercial buildings (about 53%). Transportation makes up another one-third (about 35%) and other sources like solid waste generation and refrigerant loss accounting for another 11% (Figure 2.3).

Figure 2.3 Bainbridge Island Community Wide Emissions in 2014 (Total = 214,425 MTCO₂e)



Overall, communitywide emissions in 2018 increased by 9% since 2014 (Figure 2.4). The largest increases were from air travel (23% increase), residential electricity (12% increase), and non-residential electricity (7%). Per-capita emissions, however, only increased 1% over that period.

Figure 2.4 Bainbridge Island Community Emission Trends by Year and Source

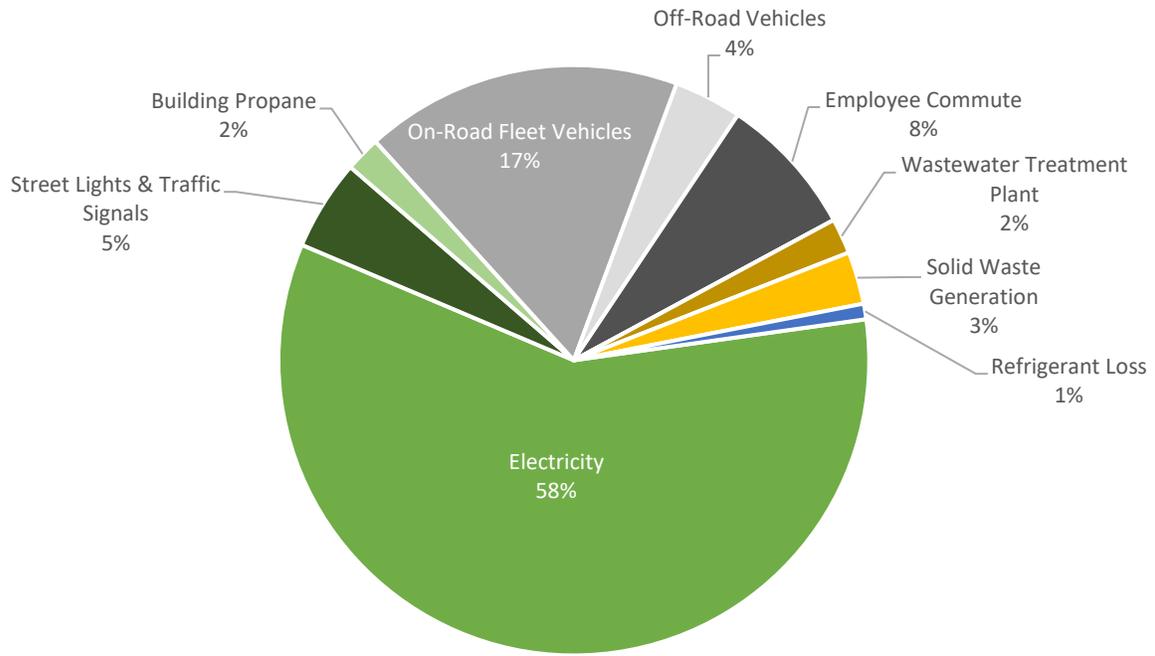


City Government Emissions

Emissions from COBI activities—which make up about 1% of the total community emissions—increased 11% from 2014 to 2018 (2067 to 2291 MTCO₂e). Major emissions sources included facility electricity consumption (60%) and on-road fleet vehicles (17%) (see Figure 2.5).

Emissions from municipal facility electricity and on-road fleet vehicles increased 14% and 7%, respectively. Just four facilities accounted for 80% of all facility electricity use in 2018: Bainbridge Island Wastewater Treatment Plant (WWTP), City Hall, Fletcher Bay Well Field, and Bainbridge Island Public Works Operations and Maintenance Yard.

Figure 2.5 Bainbridge Island City Operations GHG Emissions in 2014 (Total = 2.067 MTCO₂e)

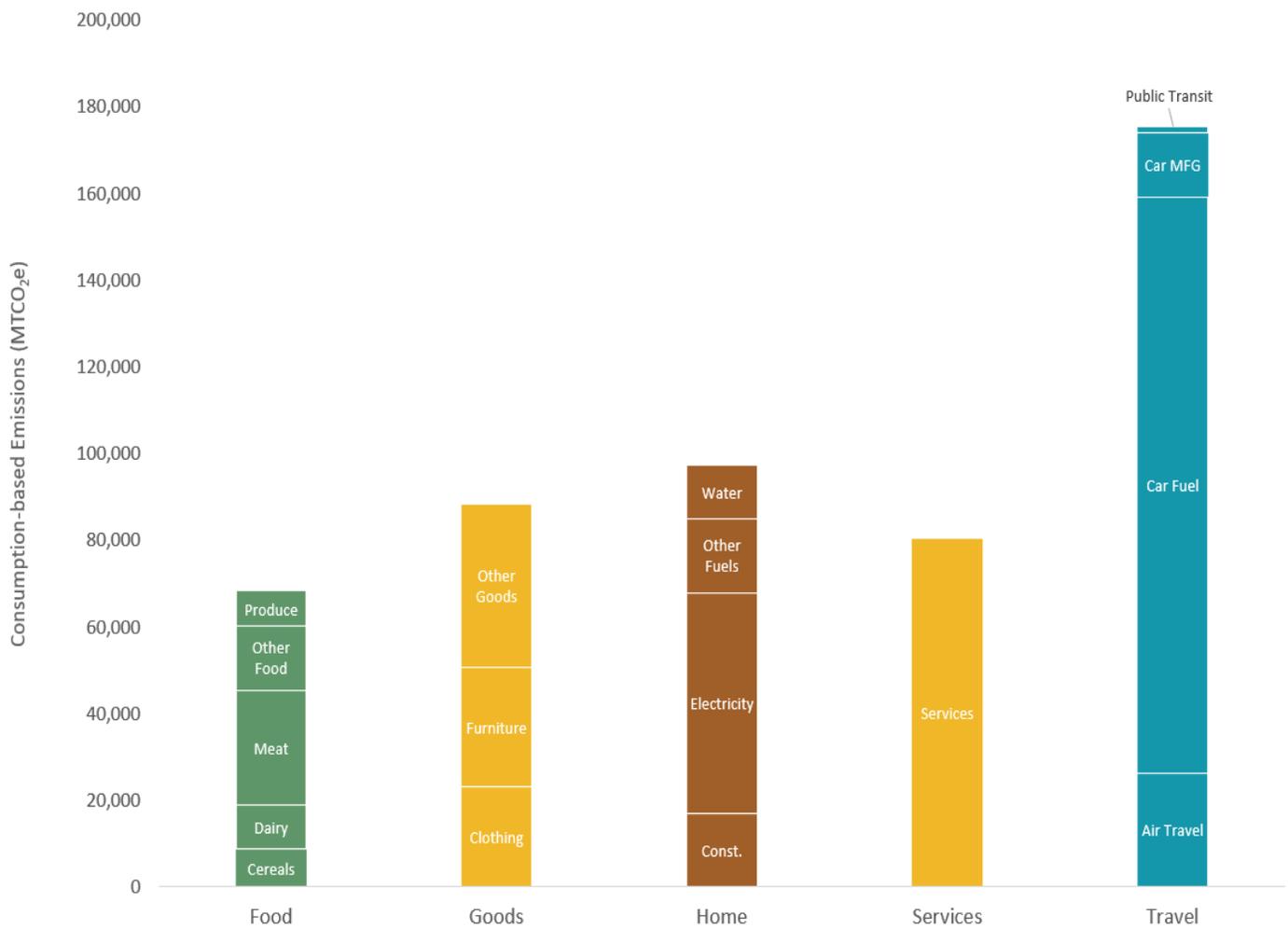


Consumption-based Emissions

The purchasing decisions we make impact the environment. Some types of foods and materials, such as meat and furniture, can carry a significant GHG emissions burden. For example, meat and dairy cows emit methane—a potent GHG. Residents on Bainbridge Island who consume beef contribute to the emissions from these cows—even if the cows are raised outside the Island.

Results from a household-based economic modeling tool suggest that purchasing behaviors of the average Bainbridge Island household contributes 52 MTCO₂e a year (see Figure 2.6).⁴¹ There were an estimated 9,404 and 9,798 households on Bainbridge Island in 2014 and 2018, respectively, indicating that total consumption-based emissions from all households on Bainbridge Island could have reached approximately 510,000 MTCO₂e in 2018. Major drivers include the purchase of meat, furniture, clothing, home energy, and travel-related expenses such as car fuel and air travel.

Figure 2.6 Consumption-Based Emissions per Bainbridge Island Household



2.3. GHG Inventory Conclusions

The GHG emissions inventory provides an informative starting point for the community’s current GHG emissions status. Key findings are:

1. More than half of the community GHG emissions are from fossil fuel emissions by the Island’s sole energy provider, PSE. The contribution from electrical generation will decline in the future in line with the requirements of the Washington State Clean Energy Transformation Act (CETA) targets (see Section 1), although there are actions the City can take to support and even accelerate this transition (See Section 3 and Section 5).
2. On-road motor vehicle transportation and air travel together accounted for another 24% of community emissions. Reducing air travel and motor vehicle emissions will require both actions at the state level and private citizen action. The air travel and motor vehicle transportation sectors analysis relied on regional models. Future inventories will need to take into account locally tracked data, if possible.

3. Emissions from ferry travel (7%) should be reduced in the future because all of the Bainbridge ferries are scheduled to transition from diesel to hybrid-electric propulsion by 2022.
4. The contributions from hydrofluorocarbons (~6%) will be reduced as the State of Washington phases out their use over the next several years.
5. The report indicates that community emissions increased 9% from 2014 to 2018 while per-capita emissions increased only 1%.

The initial GHG emissions inventory provides the basis for an **informed foundation** for taking climate action. The inventory identifies the sectors at both community and municipal operation scales that contribute the largest relative amounts of GHG emissions. Regular inventories will continue to be needed and incorporate into future decision-making. This will be critical for evaluating progress toward emissions reductions targets and for identifying cost-saving opportunities.

2.4. Goals/Targets

A. Implement a GHG emission tracking plan to monitor the CAP GHG emissions reduction goals.

- By 2021, select software (e.g., ICLEI Clear Path) that can be used to obtain community-wide data for the next GHG emissions inventory.
- By 2022, complete a new GHG emissions inventory, followed by an inventory in 2026 and every 5 years thereafter.

B. Re-evaluate the forest sequestration analysis.

- By 2023, complete a new forest sequestration analysis for the Island and prepare a plan to reanalyze the forest sequestration analysis periodically.

2.5. Challenges

- **Community Engagement:** Sufficient community engagement is needed to provide statistically reliable GHG emissions inventory results.
- **City Training:** The City received some training from Cascadia to continue inventories using the same methods in the GHG emissions inventory. Additional training is needed.
- **Conducting Valid Surveys:** Conducting voluntary community-wide surveys is challenging to avoid selection biases and to get a statistically valid sampling of participants.
- **Developing Metrics:** Measuring the reduction in GHG emissions from a specific action is challenging as the data many times are not available. One option may be to fine tune the Clear Path tool used in the original inventory. This is important to getting accurate metrics for CAP action responses among the resident behavior.

2.6. Current Actions

- **Carbon Footprint Calculators:** Several groups are using different software to calculate their organizations carbon footprint such as *Taming Bigfoot*⁴², *CoolClimate*⁴³ and *Energy Star*.⁴⁴
- **Bainbridge High School:** CCAC members are working with Eagle Harbor High School to develop curriculum that will enable students to conduct individual/district GHG inventories.

2.7. Strategies/Actions

Goal A: Implement a GHG emission tracking plan to monitor the CAP GHG emissions reduction goals

Strategy A.1. Refine the software tool used for the 2019 GHG emissions Inventory (i.e., Clearpath).⁴⁵

Priority Action(s)

- 2.A.1.a COBI will work with the CCAC to improve the accuracy and site-specificity of data for GHG emission categories that are currently based on regional models (particularly vehicles and air travel).

Other Action(s):

- 2. A.1.b. COBI will work with the CCAC to customize the tool as needed to distinguish electric vehicle (EV) from gasoline/diesel-powered motor vehicle use and other criteria.
- 2.A.1.c COBI will work with the CCAC to develop a protocol for measuring uncertainty.
- 2.A.2.d. COBI will work with the CCAC to conduct validation and verification assessments of any future updates to regional consumption-based models.

Strategy A.2. Complete updates to the GHG inventory.

Priority Action(s)

- 2.A.2.a. COBI will complete the next GHG emissions inventory by 2022 for the year 2021. Complete the next GHG emissions inventory by 2026 for the year 2025 and then complete a GHG emissions inventory every 5 years thereafter.

Goal B: Re-evaluate the forest sequestration analysis

Strategy B.1. Explore more rigorous analysis methods, including ground-truthing tree inventories and soil sequestration analysis.

Priority Action(s)

- 2.B.1.a. COBI, working with the CCAC, will approach academic institutions for assistance to plan more rigorous analysis methods, including ground-truthing of tree inventories.

Collaborations may include student apprenticeships, student thesis research opportunities, or collaborative research grant proposals. Consider also joint studies with BILT.

Other Action(s)

- 2.B.1.b. COBI, working with the CCAC and academic and local environmental and agricultural organizations, will explore expanding the forest sequestration analysis to include carbon sequestration from agricultural lands, shorelines, open meadows and parks.

2.8. Reductions Needed to Meet 2045 Reduction Goals

As discussed in Section 1, the CAP establishes a mitigation goal of reducing GHG emissions by 90% by 2045 compared to 2014 levels, with interim goals of 25% by 2025 and 60% by 2035 compared to 2014 GHG emission levels.

Figure 2.7 shows the GHG emission reductions needed in order to meet those targets. The figure provides a linear trend in GHG emissions of 9% per year. This is what the increase in GHG emissions were from 2014 to 2018. As can be seen, there will need to be substantial decreases in GHG emissions to meet our interim targets in 2025 and 2035 and our final targets in 2045.

Figure 2.7 Reductions in GHG Emissions Needed to Meet Targets

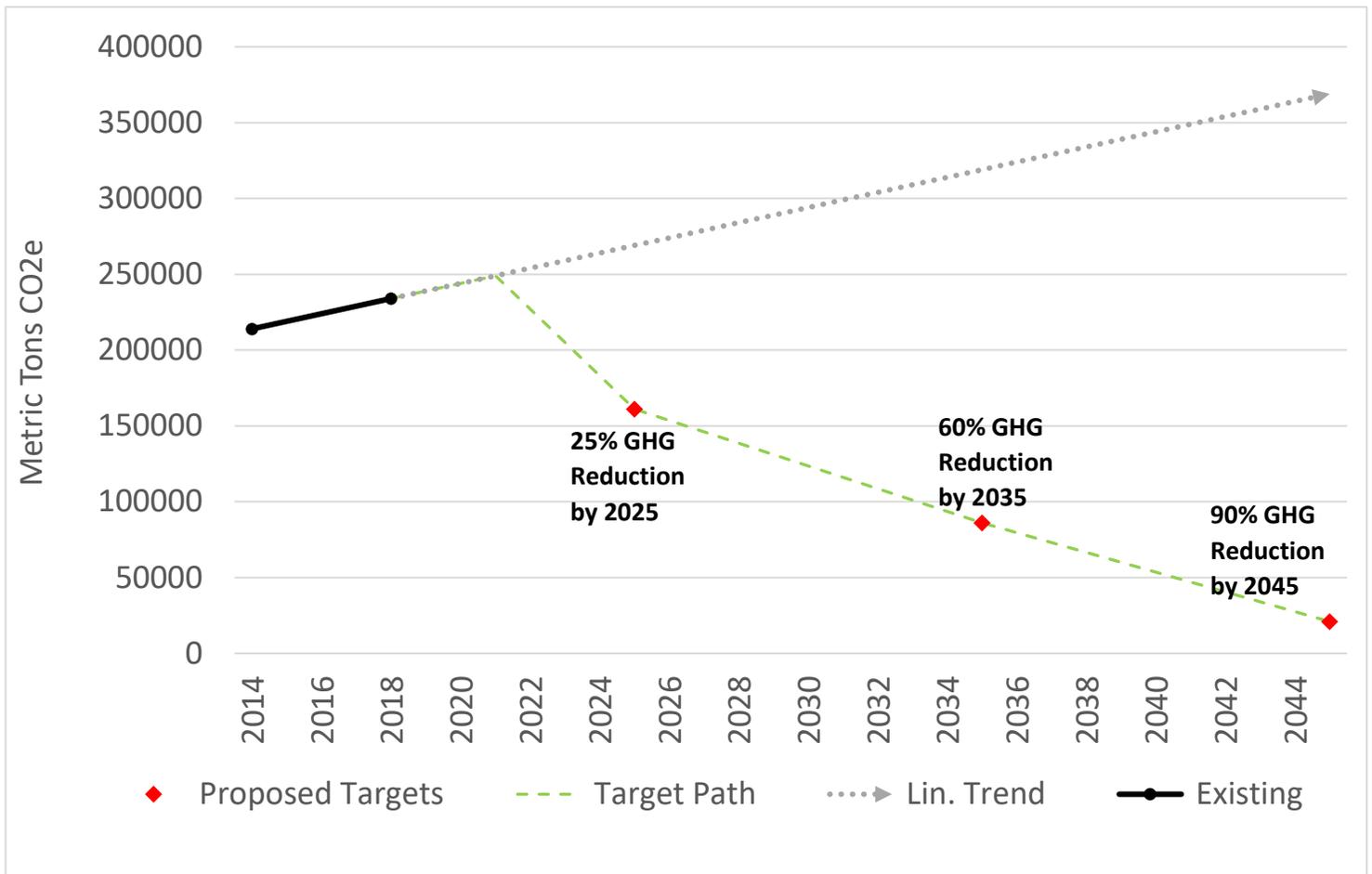


Figure 2.8 illustrates the potential reductions in GHG emissions from different areas of action. There are four areas where reductions will take place as described below. For each of these areas, the CCAC used the best available information and also made some best professional judgements on what might occur in the future.

In Figure 2.8, the value of the bar indicates the percent reduction associated with a particular action area. For example, State policies are estimated to reduce emissions from a 2014 baseline of approximately 214 MtCO₂e to approximately 89 MtCO₂e when fully implemented by 2045 (59% GHG reduction from 2014 levels). Recommended CAP-identified actions could bring us down to 55 MtCO₂e if fully implemented (an additional 16% or 75 total GHG reduction). Finally, partnerships and other actions could take us down to about 21 MtCO₂e or 90% total GHG reduction by 2045 from 2014 levels.

State Actions

In 2019, the Washington State legislature passed the Clean Energy Transformation Act (CETA)⁴⁶ requiring the State's electrical supply to be free of coal by 2025, carbon neutral⁴⁷ by 2030 and 100% carbon-free by 2045. They also passed legislation that requires the phase-out of hydrofluorocarbons.⁴⁸ In addition, the ferries from Bainbridge Island to Seattle will be able to run on 100% electric power as of 2022. These actions will contribute about 59% of the 90% GHG reductions needed to meet the 2045 mitigation goals.

Bainbridge Island Climate Actions

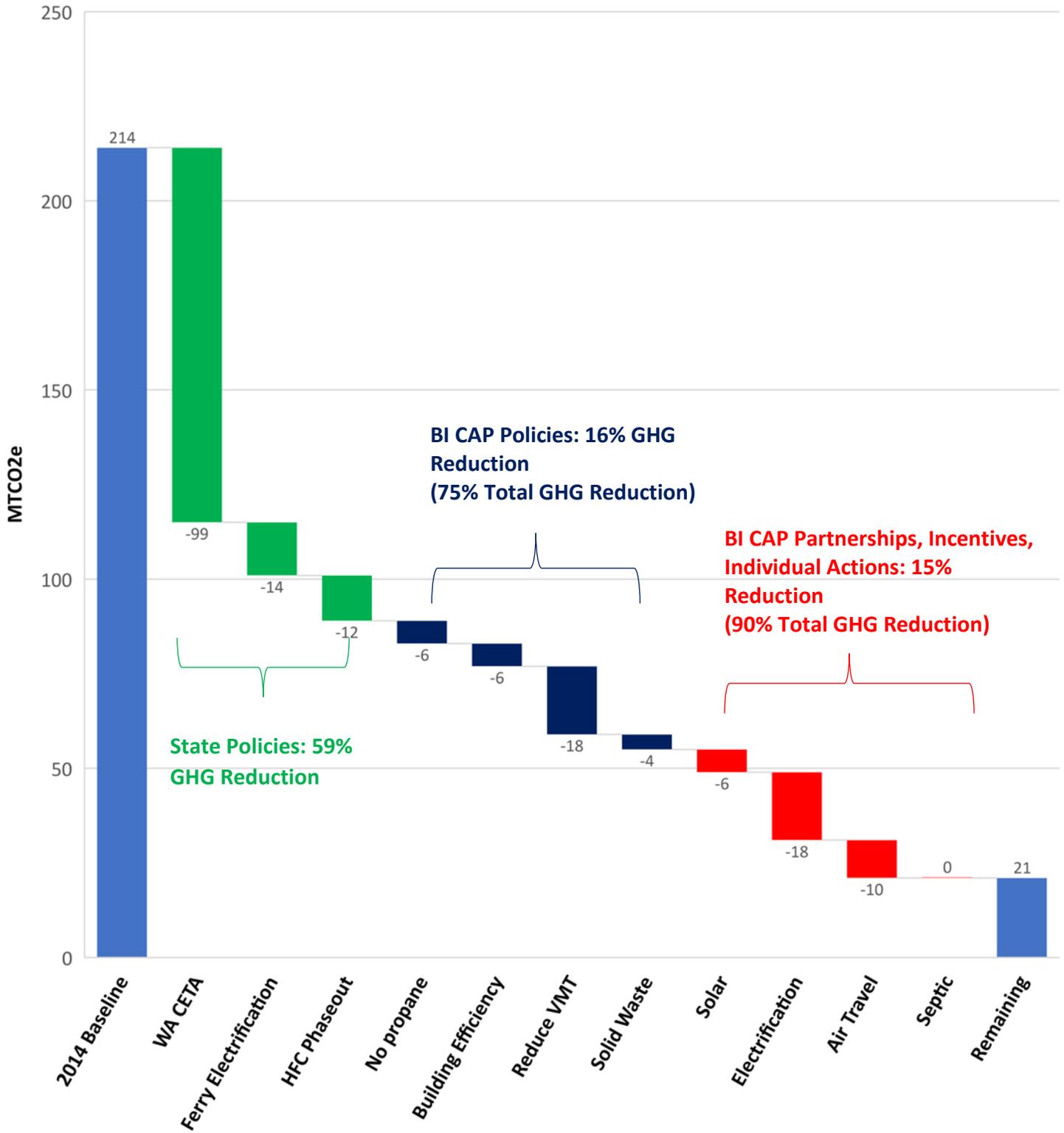
These actions are related to specific actions (e.g., prohibiting propane as a primary heating source in new developments; adopting a green building code; implementing recommendations from Sustainable Transportation Task Force; reducing vehicle miles traveled, and reduce amount of waste landfilled). These actions will contribute about another 16% of GHG reductions.

In total, State and local actions will contribute about 75% of the 90% of GHG reductions needed to meet the 2045 mitigation goals.

Partnerships, Incentives, and Individual Actions

About 15% of GHG reductions will come from community and individual actions such as: installing community solar projects; buying electric cars, bikes, and buses; and reducing the amount of air travel.

Figure 2.8: Reductions in GHG from State and Local Policies



Section 3: Energy



Section 3: Energy

Energy use is the largest source of Community emissions on Bainbridge Island. The GHG emissions inventory for Bainbridge Island indicates that about 53% of the community's GHG emissions come from electricity generation. In Washington State electricity generation contributes about 20% of the State's greenhouse gases.⁴⁹ Bainbridge Island's GHG emissions from electricity generation are higher than the State average because PSE, the Island's electricity provider has an energy mix containing over 56% fossil fuels.⁵⁰

The Washington State legislature passed a bill in the 2019 legislative session⁵¹ requiring the State's electrical supply to be free of coal by 2025, carbon neutral⁵² by 2030 and 100% carbon-free by 2045.

Across the U.S., over 90 cities, more than ten counties and two states have adopted 100% clean energy goals. Six cities in the U.S.--Aspen, Colorado; Burlington, Vermont; Georgetown, Texas; Greensburg, Kansas; Rock Port, Missouri; and Kodiak Island, Alaska--have already hit their targets.⁵³

Bainbridge Island should strive to achieve 100% clean, renewable energy, and should evaluate timelines to achieve this goal sooner than 2045 in order to do our part to keep global temperatures below 1.5 degrees Celsius compared to pre-industrial levels.

3.1. Goals/Targets

A. Increase energy conservation and efficiency throughout the planned and existing built environment, including customer-owned generation.

- By 2022, COBI will have established a Green Energy and Building Fund to assist with conversions and efficiency upgrades for homes, with a focus on low-income housing.

B. Eliminate carbon-based energy sources from all energy sectors.

- By 2022, COBI adopts policies that prohibit propane, fuel oil, and wood stoves as the primary source of heating in all new residential, commercial, industrial, and municipal buildings.
- By 2040, all of Bainbridge Island's sources of electricity are carbon-free.

BI Comprehensive Plan: Energy

Goal CF-4: Public facilities constructed on BI meet appropriate safety, construction, energy conservation, durability and sustainability standards.

CF 4.4: Require public facilities to incorporate energy generation when and where possible.

EN 10.9: Maintain and improve Island air quality, by promoting the development of carbon free infrastructure.

EN 12.6: Promote energy conservation measures by all government entities.

EN12.7: Promote the installation of residential solar panels and the adoption of other energy saving technologies such as LED lights, heat pumps, and insulation.

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.

U14.5: Encourage the electric service providers and electricity users to use carbon neutral electricity generation, local electricity generation and innovative technologies such as solar power.

U14.7: New taxpayer-funded buildings shall use carbon-neutral energy for heating, cooling and operational use.

U14.9: Explore ways to obtain 100% green electricity including investing in new renewable energy projects.

C. Create energy self-sufficiency for emergency preparedness and increase energy infrastructure reliability and resilience in light of the changing climate.

- By 2023, half of the Bainbridge Prepares disaster hubs have installed 6-20kW solar arrays and storage for resilience.

3.2. Challenges

- **Energy efficiency of existing building stock is unknown:** While many buildings around the Island are energy-efficient (e.g., Grow Community and individually green-built homes) the overall energy efficiency of the Island building stock is unknown.
- **Lack of understanding of non-electric fuel sources:** Although the primary form of energy use on Bainbridge Island is electricity, there are an unknown but likely substantial number of other sources used for heating homes and powering appliances including: wood-burning stoves; propane generators, furnaces, fireplaces and appliances; and fuel oil in older units.
- **Emergency preparedness:** Bainbridge Island is susceptible to significant weather and natural disasters such as flooding in some areas as a result of climate change. The emergency preparedness and infrastructure resilience of the Island needs significant additional investment and coordination.

3.3. Current Actions

- **City Hall's community solar system:** City Hall has a system that generates more than 71 kilowatts of energy with a solar system composed of 297 panels. This is the largest solar system on the Island. The City Hall system had investments from 25 local Islanders totaling \$450,000. COBI will plan to operate, maintain, and expand through 2045.
- **Energy Efficiency improvements:** Recent energy efficiency improvements were made to the Wastewater Treatment Plant (WWTP) operations.⁵⁴
- **PSE Franchises Agreement:** COBI's current franchise with PSE took effect on April 23, 2007, and will expire on April 23, 2022, unless extended. The work to renew an electric utility franchise agreement is typically a multi-year effort that incorporates legal requirements, economic aspects, and community priorities. Prior to the pandemic, COBI workplans anticipated that tasks related to this negotiation would begin in Q1-2020 and continue throughout 2020 and into 2021 as needed.
- **Community PSE's Green Power program:** PSE's voluntary renewable electric energy programs include: Solar Choice, Green Power, and Customer Connected Solar.⁵⁵
- **Solar at Sakai:** The Solar for Sakai school project, installed in 2009, has 30-solar panels with a 5.1-kilowatt array.
- **Green buildings:** There are several buildings on the Island that were constructed using a Green Building Certification Program (e.g., Living Building Challenge or Leadership in Energy and Environmental Design (LEED)⁵⁶) such as the Grow Community, Ericksen Urban Cottages, Heron Hall, Bainbridge Artisan Resource Network (BARN), and Bainbridge Island Museum of Art (BIMA).
- **PSE biodigester pilot project:** A biodigester pilot project was started with the Harbor Public House (the Pub) and PSE as a proof of concept.

- **PSE proposals for improving reliability:** PSE’s proposal to increase reliability by undergrounding overhead lines in risk corridors⁵⁷ and by a proposed tripling of: a) new transmission infrastructure (including a link between the Murden Cove and Winslow substations); b) a new 3.3-megawatt (MW) battery energy storage system; and c) targeted conservation, demand response tools, and customer-owned generation.⁵⁸

3.4. Strategies/Actions

Goal A. Increase energy conservation and efficiency throughout the planned and existing built environment, including customer-owned generation.

Strategy A.1. Promote energy efficiency through existing and potential newly funded City and PSE programs.

Priority Action(s)

- 3.A.1.a. All COBI projects (e.g., Police Station, WWTP improvements) adopt requirements to maximize energy efficiency and reduce total energy demand whenever feasible (e.g., variable frequency drives in HVAC systems, heat recovery systems, and dedicated outdoor air systems).
- 3.A.1.b Work with PSE to: 1) raise awareness about existing rebate and assistance programs that will increase access to energy conservation and efficiency programs, focusing on low-income households and nonprofit organizations,⁵⁹ and 2) explore creating new incentive/rebate programs.

Other Actions

- 3.A.1.c. Encourage, and assist when possible, other taxing entities (e.g., BISD, BIMPRD, and BIFP) to adopt requirements to use high-performance retrofit technologies in all their projects.

Strategy A.2. Establish a Green Energy and Building Fund.

Priority Action(s)

- 3.A.2.a. Establish and use the Green Energy and Building Fund to provide incentives to building owners and residents to increase electrification conversions and battery storage and to assist in energy audits for residential home projects, including affordable housing (e.g., install energy conservation measures, provide financial incentives for existing building owners to transition from propane, fuel oil, and wood stoves to all electric buildings). Possible funding sources are included in end note.⁶⁰

Other Action(s)

- 3.A.2.b. Identify and apply for grants and subsidies for energy efficiency improvements for low-income residents to address equity concerns.

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

Strategy B.1. Partner with energy providers and local businesses on programs that will reduce carbon-based energy sources.

Priority Action(s)

- 3.B.1.a. Work collaboratively with PSE, via the PSE Franchise agreement update and other mechanisms, to move towards a 100% carbon-free electrical supply, preferably sooner than the Washington State mandated goals.
- 3.B.1.b. Work with PSE and others to develop incentive programs to increase installation of renewable energy, wind, and passive photovoltaic (PV) solar or other technologies on new and existing buildings.⁶¹
- 3.B.1.c. Adopt a policy that prohibits propane, fuel oil, and wood stoves as the primary energy source for all new municipal, commercial, industrial, and residential buildings and in renovations and additions over a certain size.
- 3.B.1.d. Develop incentives for existing commercial, industrial, and residential buildings to replace propane, fuel oil, and wood stoves as their primary heating sources.

Other Action(s)

- 3.B.1.e. Explore opportunities to 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.

Strategy B.2. Partner with neighboring communities (e.g., Puget Sound area in general with focus on Kitsap County and unincorporated areas in Kitsap County) on programs that will reduce GHG emissions.

Priority Action(s)

- 3.B.2.a. Develop and hold trainings/workshops for Island and neighboring communities' builders, contractors, architects and homeowners that can help Bainbridge Island and neighboring communities to implement the fuel-switch from carbon-based to electrification of the building stock.

Other Action(s)

- 3.B.2.b. Collaborate with neighboring communities to learn from each other on programs to reduce GHG emissions.

Goal C. Create energy self-sufficiency for emergency preparedness and increase energy infrastructure reliability and resilience in light of changing climate.

Strategy C.1. Create microgrids for critical infrastructure throughout the community.⁶²

Priority Action(s)

- 3.C.1.a. Work with PSE to develop a local program to encourage homeowners, businesses, and other entities like BISD, BIMPRD, and BIFP to acquire customer-owned generation like roof-top solar and small wind turbines as well as customer-owned storage.
- 3.C.1.b. Research and develop microgrids for community disaster hubs (City Hall, Seniors Center, Bainbridge Island School District (BISD), Island Wood) in partnership with PSE and Bainbridge Prepares and possibly using Washington Clean Energy Fund (CEF) funding.⁶³⁶⁴ See also Section 8 Community Engagement Action 8.C.2.a.

Strategy C.2. Create large-scale neighborhood microgrids with distributed energy resources.

Priority Action(s)

- 3.C.2.a. Work with partners (e.g., PSE) to determine the feasibility of developing large-scale neighborhood microgrids with customer-based storage or utility-scale storage, or a combined heat and power biodigester sited adjacent to the community pool.

Section 4: Transportation



Section 4: Transportation

On- and off-road vehicles, ferries, and air travel account for 35% of Bainbridge Island’s GHG emissions. Motorized vehicles also contribute to localized air pollution and can impact public and environmental health and safety. Increasing the use of alternative modes of transportation, including walking, biking, and public transit, can help alleviate these impacts.

Greater use of electric vehicles can reduce local pollution along with overall GHG emissions, especially as our grid moves toward cleaner energy sources. Greater housing density when sustainably located, together with greater availability of electric vehicle (EV) charging and public transit infrastructure, could facilitate all of these shifts towards a more sustainable community. Finally, COBI may be able to facilitate adoption of infrastructure to help electrify ferry travel, and take steps to educate the community about the impacts of air travel.

4.1. Goals/Targets

A. Reduce motorized⁶⁵ vehicle miles traveled (VMT)⁶⁶ per capita

- By 2030, reduce VMT per capita by 25% (currently 3,000 VMT/capita), and by 50% by 2045. To support this goal, at a minimum:
 - By 2030, increase the mode share⁶⁷ of active transportation (biking and walking) to 25%, and to 50% by 2045.
 - By 2030, increase the mode share of public transit⁶⁸ to 5% (currently 2%) and to 10% by 2045.

B. Reduce GHG emissions from motorized transportation, including through electrification of all modes (on-road, off-road, and ferries) and encourage reduction of air travel.

- By 2025, transition COBI’s fleet to 75% electric vehicles and the remainder to biofuels.
- By 2045, 80% of registered vehicles on Bainbridge Island will be either electric vehicles or plug-in hybrid electric vehicles.

BI Comprehensive Plan: Transportation

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.

TR 3.4: Support WSF and other providers to create and incorporate best practices into ferry service that reduce greenhouse gas emissions and vulnerability of ferry transit from climate change.

TR 7.2: Develop a master plan for the SR 305 corridor as a green and scenic highway balancing the objectives of maintaining its character, and providing safe visibility. Incorporate best practices into highway improvements that reduce greenhouse gas emissions and transit vulnerabilities from climate change.

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.

4.2. Challenges

- **Barriers to increasing cycling and walking:**

Experience in other communities and countries shows that safe, convenient and attractive networks of cycling and walking pathways for all ages and abilities – well-linked from residential areas to employment, school, and shopping – are required to significantly increase biking and walking. Such networks must include separated or protected bike lanes. Bainbridge Island currently lacks such networks and currently has an assortment of disconnected off road trails in need of enhancement and connections. Much of the Island’s transportation infrastructure is designed around automobile travel (e.g., roads with no shoulders or sidewalks, free and abundant parking), which further discourages cycling and walking.

- **Historical development patterns:**

Walking and bicycling are easiest within compact, mixed-use neighborhoods that actively accommodate these modes through well-designed roads, trails, and other pedestrian- and cycling-specific infrastructure. This mode of development may conflict in some cases with residents’ preferences and with extant infrastructure. Outside of core areas, the majority of Island residences are spread out and separate from commercial destinations, which presents barriers to walking and biking to accomplish many activities.

- **Constraints to using public transit:**

A combination of physical, cost, and behavioral barriers can inhibit the availability and use of public transit. Increased service, along with transit-oriented development, which might include increased housing density in Winslow and the three service areas could help overcome these barriers.

- **Barriers to electric modes of transport:**

Although electric vehicles are increasingly popular, there are still cost, physical and psychological barriers to widespread adoption. Providing adequate public charging infrastructure, along with greater education and outreach, can help reduce these barriers. Alternative transportation modes – like e-bikes and scooters – can be promoted through measures to encourage non-motorized travel.

- **Island geography:**

Bainbridge Island has lower average vehicle-miles traveled per capita than other communities in Washington and the rest of the country. This could be simply because we have fewer road miles to drive on (e.g., compared to Seattle), and the vast majority of trips on the Island are under 5 miles. It likely also reflects the fact that a greater share of resident vehicle-miles occurs outside community boundaries (e.g., shopping trips and other engagements that are off Island). Thus, a significant component of travel emissions from Island residents may be occurring in other jurisdictions, which makes it harder for the community to influence them.

Related Targets from Other Locations

Vehicle Miles Traveled (VMT)

- Washington State: Reduce VMT by 30% by 2035 and 50% by 2050.
- Los Angeles, CA: Reduce VMT by at least 13% by 2025; 39% by 2035; and 45% by 2050.
- Minneapolis, MN: Reduce motorized VMT by 40% by 2040

Mode Share

- Vancouver BC: Their goal of 50% of trips by motor vehicle by 2020 was reached ahead of schedule. Current goal is 33% of all trips by motor vehicle by 2040.
- Portland, OR: In 2008, 66% of trips were drive alone. By 2030, aim to achieve 30% of trips be drive alone.
- Orlando, FL: Goal is to achieve less than 50% of trips by motor vehicle by 2040.

- **Air travel emissions:** The GHG emissions inventory indicated that air travel constitutes 13% of our GHG emissions. Actions to address air travel emissions are generally beyond the reach of any individual municipal government. However, there are actions COBI can take to help reduce air travel by Bainbridge Island residents and COBI employees. COBI can work with the BI Chamber of Commerce, KPUD, and internet service providers to encourage employees and residents to reduce air travel by using technology that makes virtual meetings more effective and affordable.

4.3. Current Actions

Municipal

- **Current COBI Policies:** COBI has multiple policies and incentives in place to encourage employees to reduce their single occupancy driving miles. These include:
 - The Commute Trip Reduction (CTR) program: if employees of COBI get to work without a single occupancy vehicle trip more than 60% of the time, they receive \$50 a month.
 - The Scoot Car: a Kitsap transit program that allows employees to use a car from City Hall for free during the day.
 - Employees may use City ORCA cards for city business to encourage bus and light rail trips.
 - For the past few years COBI's Green Team has promoted Bike-to-Work day for employees and intends to continue this promotion.
- **State code requirements:** State code requires electric transition for municipalities: RCW 43.19.648 directs municipalities to transition "to the extent practicable, to satisfy 100% of their fuel usage for operating publicly owned vehicles, vessels and construction equipment from electricity or biofuel, effective June 1, 2018."⁶⁹
- **Island-wide transportation plan:** In 2017, COBI adopted an Island-wide transportation plan (IWTP)⁷⁰ that has non-motorized elements (see Chapter 6) which the City can implement and thereby address some of these goals.
- **Sustainable transportation initiative:** COBI is working on a sustainable transportation plan and has hired a consultant to advise the City on potential options along with forming a Sustainable Transportation Task Force. This plan is expected to set higher targets than the 2017 IWTP, recognizing the need to reduce greenhouse gases.

Community

- **Community outreach:** The Climate and Energy Forum, a collaborative of Bainbridge community environmental groups, has hosted multiple events over the past few years addressing impacts of internal combustion vehicles and the opportunities for electrification and reduced motor vehicle use.
- **Bainbridge Greenways:** Bainbridge Greenways is a coalition of community groups promoting and advocating sustainable transportation modes on the Island, particularly safe biking and walking for all ages and abilities. In 2018, this group (then called the Bainbridge Mobility Alliance) conducted an extensive survey of the community regarding non-

motorized transportation opportunities, in which they found that Islanders felt our biking and walking infrastructure is generally unsafe.⁷¹

- **Kitsap Transit:** On Bainbridge Island, Kitsap Transit is working with the state on the expansion of the Day Road Park & Ride to add capacity. At this time, there are 122 stalls of leased park and ride space on the Island; the expansion of Day Road could add between 75-90 new stalls. Just off the Island at the Clearwater Casino, Kitsap Transit has leased 96 stalls to gather commuters prior to driving on the Island.
- **Electric bus:** For the past year, Kitsap Transit has been operating a 40-foot, 100% electric bus in its fleet as a pilot program to evaluate the technology and is planning on a second electric bus.
- **Cleaner diesel buses:** For the last five years, Kitsap Transit has been retiring older diesel ACCESS buses, replacing them with cleaner, propane-powered small buses which can reduce black carbon and also contribute to improved air quality.
- **Transit infrastructure:** Kitsap Transit is currently preparing a study on infrastructure requirements so that the conversion to electric buses is planned and it has the infrastructure in place to support an electric fleet.
- **Washington State Ferries (WSF):** WSF is planning to transition the three boats servicing Bainbridge Island to hybrid boats (diesel/electric) that can run on 100% electric power by 2022.

4.4. Strategies/Actions

Goal A. Reduce motorized vehicle miles traveled per capita⁷²

Strategy A.1: Develop interconnected networks of safe, convenient, and attractive biking and walking pathways for use by people of all ages and abilities to allow for potential increases of non-motorized transportation on the Island.

Priority Action(s)

- 4.A.1 a. Through the Sustainable Transportation Planning Process and other means, develop an ambitious plan to create networks of pathways required to achieve a substantial mode shift to biking and walking, including separated or protected biking and walking lanes.⁷³
- 4.A.1.b. Increase COBI staff time or hire a consultant to enhance COBI's capacity to identify and apply for sources of funding (such as federal grants for Safe Routes to Schools and public private partnerships for the needed infrastructure).
- 4.A.1.c. Explicitly consider climate change mitigation (e.g., greenhouse gas reductions) when evaluating options as COBI develops its Sustainable Transportation plan.

Other Action(s)

- 4.A.1.d. Explicitly consider non-motorized transportation options in all appropriate Capital Improvement Plans.
- 4.A.1.e. Work with BISD and BIMPRD to increase the Island's network of separated or protected routes for walking and biking.

- 4.A.1.f. Work with BSD to offer incentives for commuting to school and activities by bicycle or non-motorized alternatives.
- 4.A.1.g. Develop policies to support usage of electric bikes (e.g., invest in public charging infrastructure, and work with community organizations like Helpline House to provide subsidies for low-income residents).
- 4.A.1.h. Develop a complete sidewalk system, where appropriate, along with improved safety features to encourage walking.
- 4.A.1.i. Review current bike parking requirement in COBI code for commercial and multi-family projects to see if there is a need to increase the number of safe spaces to park bikes for their customers, employees, and residents.

Strategy A.2: Promote mixed use development and multi-family housing in core areas that enables greater use of non-motorized transportation options and prioritize transit-oriented new development.

Priority Action(s)

- 4.A.2.a. Require incorporation of non-motorized transportation options into all new development (e.g., include sidewalks or pedestrian trails linked to existing and planned trail/sidewalk networks; incorporating bicycle lanes and trails; etc.).
- 4.A.2.b. Require all new development and improve existing connections between developments to accommodate non-motorized and public transit transportation options (including incorporation of bus shelters and other amenities).

Other Action(s)

- 4.A.2.c. Require land use planning that explicitly incorporates walking and bicycling networks, promotes greater density, and optimizes space to minimize the distance people have to travel by car.
- 4.A.2.d. Evaluate increasing Transportation Impact Fees, and possible other fees, to generate revenue to expand non-motorized transportation on the Island.
- 4.A.2.e. Use COBI budgets and other sources to provide significant funding for non-motorized transportation options throughout the Island (e.g., pedestrian and bicycling infrastructure, pathways, bicycle parking, etc.) in existing and new development.
- 4.A.2.f. Provide education and outreach to developers and contractors on incorporating non-motorized transportation options in development, including targeted training to Island and neighboring communities' architects, landscape architects, builders, and related construction professionals.
- 4.A.2.g. Limit incentives for driving (e.g., limit expansion of commercial parking where possible, increase charge for parking at Island commercial centers, provide more convenient parking for EVs) to encourage greater use of biking, walking, and public transportation.

Strategy A.3. Work with Kitsap Transit to encourage the use of existing transit and expanding service on the Island.

Priority Action(s)

- 4.A.3.a. In consultation with Kitsap Transit, develop a robust marketing, outreach, and educational program to inform Island residents and those who traverse the Island from outside about public transit options, including park and rides (e.g., information for Island visitors on bus/transit routes & options).

Other Action(s)

- 4.A.3.b. Work with Kitsap Transit to expand on-Island transit service, with greater frequency and coverage, including service on Sundays and during evenings and increase the number of electric buses in the Kitsap Transit fleet.
- 4.A.3.c. Work with Kitsap Transit to expand options and service for people commuting to work on the Island and to the ferry from off Island.
- 4.A.3.d. Work with WSF to provide incentives for people to use a bike for traveling to and from the ferry (e.g., expanding the bike barn, surface-level bike racks (especially important for electric bikes), and provide better space on the ferry).
- 4.A.3.e. Evaluate increasing the price of parking at the ferry to encourage people to take public transportation, bike or walk.

Strategy A.4. Encourage greater use of school buses and carpooling for student transportation.

Priority Action(s)

- 4.A.4.a. Work with BISD on measures to discourage private-vehicle drop-offs and pick-ups, encourage car-pooling, biking and walking and promote greater use of school buses.

Other Action(s)

- 4.A.4.b. Work with BISD to develop an anti-idling program for school buses and drop-off areas.
- 4.A.4.c. Work with BISD to explore options beyond biking and walking for helping move students to and from after-school activities, such as partnerships with BI Ride or other entities that could help reduce single student transportation.
- 4.A.4.d. Work with BISD to offer incentives to students for carpooling or riding the bus to/from school.

Goal B. Reduce emissions from motorized transportation, including through electrification of all modes (on-road, off-road, and ferries) and encourage reduction in air travel.

Strategy B.1: Convert COBI vehicle fleet to electric or biofuels and encourage other Bainbridge Island taxing districts (i.e., BISD, BIMPRD, and BIFD) to convert their fleets to electric or biofuels.

Priority Action(s)

- 4.B.1.a. Transition COBI's fleets to primarily electric vehicles and using biofuels where electric vehicles are not an option and encourage other Bainbridge Island taxing districts to also develop a plan.

Other Action(s)

- 4.B.1.b. Install charging infrastructure across municipal locations (City Hall, Public Works, Police Department) and encourage the installation at the BISD Bus Barn.
- 4.B.1.c. Require justification for COBI to purchase a conventional vehicle.

Strategy B.2: Develop infrastructure to support electric vehicles, electric bikes and other personal electric transport options, and off-road transportation.

Priority Action(s)

- 4.B.2.a. Evaluate current code to see if there is a need to increase the number of EV-charge-ready for all new development and major renovations and that multifamily units and commercial development include EV charging infrastructure and secure storage options.
- 4.B.2.b. Install additional charging stations in commercial centers, including Island Village, Coppertop, Lynwood Center.

Other Action(s)

- 4.B.2.c. Explore municipal grants and public-private partnerships, such as working with PSE, to develop grants for EV infrastructure adoption.
- 4.B.2.d. Work with PSE to facilitate and promote adoption of charging infrastructure.

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

Priority Action(s)

- 4.B.3.a. 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.

Strategy B.4: Encourage reduced vehicle GHG emissions and improved fuel economy.

Priority Action(s)

- 4.B.4.a. Adopt a city-wide anti-idling ordinance that includes an enforcement component and work with the WSF and State Patrol to reduce idling at the ferry parking lots.

Strategy B.5: Encourage reduction of air travel by COBI staff and local residents.

Priority Action(s)

- 4.B.5.a. Work with partners (e.g., Climate Action Bainbridge and Puget Sound Clean Air Agency) to provide public information on benefits of sustainable travel, including reducing air travel.
- 4.B.5.b. Work with service providers to help our community develop and maintain the digital infrastructure it needs to enable more virtual meetings.

Section 5: Buildings



Section 5: Buildings

The energy to heat, light, and power buildings and other workspaces is a major source of GHG emissions. Building-related emissions are the state's fastest growing source of GHG emissions and account for 27% of the carbon pollution in Washington.⁷⁴

Additional environmental impacts from buildings include: stormwater runoff; loss and fragmentation of natural areas and wildlife habitat; increased use of limited resources including groundwater; and burdens on existing landfill space, particularly from construction and demolition debris. In addition, results of climate change such as sea level rise, flooding and slope stability may increase the vulnerability of the Island's housing stock.

Green building techniques, coupled with upgrades, proper maintenance and efficiency improvements for existing buildings, can help reduce these impacts. It will also be important to provide incentives and resources to assist low income households in making the necessary changes to reduce their carbon footprint.

5.1. Goals/Targets

A. Reduce GHG emissions from all municipal, commercial, industrial and residential buildings.⁷⁵

- By 2021, COBI has adopted green building standards and practices for all new municipal, residential, commercial, and industrial buildings, including affordable housing and all renovations and additions⁷⁶ of a certain size.

B. Establish procedures to ensure buildings and infrastructure are resilient to climate change impacts (e.g., higher precipitation, sea level rise, wildfire risk and temperatures).

- By 2025, COBI will complete an analysis, develop a plan, and design a process for regularly updating the plan to ensure all City-owned assets will be resilient from sea level rise over the lifespan of the infrastructure.
- By 2025, COBI will complete an analysis, conduct public outreach activities, and identify those properties at highest risk from sea level rise impacts over the next 50 years.

5.2. Challenges

- **Lack of familiarity with green building programs:** Many residents and builders lack familiarity with green building programs and certification approaches. This makes it harder

BI Comprehensive Plan: Buildings

EC 3.1: Encourage use of green building materials and techniques in all types of construction, as well as design approaches that are responsive to changing conditions.

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.

EN 10.4: Ensure beneficial indoor air quality in all renovations and new construction of City-owned facilities

U 14.5: New taxpayer-funded buildings shall use carbon-neutral energy for heating, cooling, and operational use to the maximum extent practical.

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.

to adopt and incorporate green building practices. Also, city staff involved in planning, building and public works lack familiarity with green building codes and what they can accomplish.

- **Lack of information on the cost-effectiveness of green building programs:** There is a lack of information on the cost effectiveness of adopting green building standards. This makes it difficult to convince developers, builders and homeowners to adopt green building practices. It also provides challenges for municipalities looking to justify the programs.
- **Need to include life-cycle costs:** Sometimes, there is a higher upfront cost for green building and this is viewed as a lost cost instead of an investment. More information on and integration of the life-cycle costs for a project is needed during the planning and permitting process⁷⁷ and for the maintenance and operation of the buildings.
- **More information on green building materials:** There is a lack of familiarity among developers, contractors, builders and homeowners about green materials used in green building and the demolition and recycling of materials.

5.3. Current Actions

Municipal

- **Comprehensive Plan:** The Comprehensive Plan highlights the need to develop and implement green building strategies.
- **Green building task force:** COBI initiated a process for developing a green building code and formed a Green Building Task Force to provide recommendations to the City on the direction for green building on the Island.
- **City Green Team:** COBI has a Green Team that is working to implement green practices for municipal purchasing and internal operations such as waste diversion and energy conservation actions.
- **Community Solar:** COBI enabled a community-funded solar project to be installed on the roof of City Hall in 2012.

Community

- **Green building certified buildings:** Several buildings on Bainbridge Island are certified as LEED Gold⁷⁸ or better, and some are part of the Living Building Challenge.⁷⁹
- **PSE services:** PSE provides free home energy audits and rebates for retrofits to cleaner/more efficient energy systems.⁸⁰

5.4. Strategies/Actions

Goal A: Reduce GHG emissions from all municipal, commercial, industrial and residential buildings.

Strategy A.1: Adopt green building practices and standards for all new municipal, commercial, industrial and residential buildings and all renovations or additions of a certain size⁸¹.

Priority Action(s)

- 5.A.1.a. Adopt Green Building Task Force recommendations on green building practices and standards for all new municipal, commercial, industrial and residential building and all renovations and additions over a certain size.⁸²
- 5.A.1.b. Require all new and renovated buildings to apply the EcoAdapt Climate Change Adaptation Certification Tool⁸³, or similar tool, to identify and avoid climate risks as part of the permitting process.

Other Action(s)

- 5.A.1.c. Require a life cycle cost/benefit analysis for all new and renovated municipal buildings that includes a GHG emissions analysis.
- 5.A.1.d. Establish a Green Building team within the City that consists of staff from planning and community development and public works that would be responsible for overseeing the implementation of any green building code.
- 5.A.1.e. Join the Regional Code Collaborative to leverage economies of scale in developing and updating green codes.⁸⁴
- 5.A.1.f. Work with the Green Building Task Force to develop guidelines for green affordable housing and provide green design assistance for affordable housing projects.
- 5.A.1.g. Explore using Washington State's Evergreen Sustainable Development Program for the development of green affordable housing.
- 5.A.1.h. Ensure that water-dependent permits include plans for sea level rise.

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

Priority Action(s)

- 5.A.2.a. Develop training and outreach programs to provide technical assistance to developers, contractors, architects, landscape architects, city employees, and homeowners on green building that includes the cost/benefit to occupants of green building, use of reused and recycled materials, and the health benefits from green buildings to occupants.
- 5.A.2.b. Work with the BISD, BIMP, and BIFD to ensure any new buildings they build consider green building standards and practices adopted by COBI.

Other Action(s)

- 5.A.2.c. Host a workshop with neighboring communities (e.g., Poulsbo, Silverdale, Bremerton, and Port Orchard) and other Puget Sound communities to learn from about their green building programs.

Goal B. Establish procedures to ensure buildings and infrastructure are protected from climate change impacts (e.g., higher precipitation, sea level rise, and increased temperatures).

Strategy B.1: Identify and protect City assets at risk due to sea level rise.

Priority Action(s)

- 5.B.1.a. As recommended by the 2019 CCAC Report on Sea Level Rise conduct a systematic, high-resolution analysis of exposure of City assets to sea level rise.
- 5.B.1.b. As recommended by the 2019 CCAC Report on Sea Level Rise create a prioritized list for addressing COBI assets at high risk of sea level rise (e.g., roadways that are expected in the coming decades to be sufficiently flooded that they will not be functional for motorized transit.)
- 5.B.1.c. As recommended by the 2019 CCAC Report on Sea Level Rise, integrate sea level rise analysis into all City planning to identify and avoid or minimize risk to planned infrastructure and development.

Other Action(s)

- 5.B.1.d. Create a tiered strategy for assets at longer-term risk (beyond 2030 but within infrastructure lifespan) and identify solutions for their management

Strategy B.2. Assist property owners in identifying risks to existing and planned infrastructure from sea level rise and other climate change impacts.

Priority Action(s)

- 5.B.2.a. Conduct a high-resolution analysis of all shoreline properties to inform landowners of exposure to sea level rises, make this information widely available for property owners to use in decision-making, and provide guidance on possible solutions and regulatory requirements.
- 5.B.2.b. COBI integrates sea-level rise analysis into all City permitting to help applicants identify and avoid or minimize risk to existing infrastructure and land uses and planned infrastructure and development from sea level rise or other climate impacts.
- 5.B.2.c COBI hosts community workshops on climate impacts, how they might impact buildings, and how to prepare properties for these impacts.

Other Action(s)

- 5.B.2.d. Conduct similar analysis for other climate change impacts (e.g., higher precipitation and increased temperatures) and provide guidance on possible solutions and regulatory requirements.

Section 6: Natural Environment



Section 6: The Natural Environment

Our actions today will affect the future of our Island’s natural resources as the climate changes. COBI’s Comprehensive Plan identifies the importance of continuing to protect our open spaces and environmentally sensitive areas, while affirming that climate change will create significant changes to many of these resources. Therefore, the goals, policies and approaches that COBI and other landowners and managers use to protect and sustain these landscapes will also need to shift in order to maintain their effectiveness under these new conditions.

6.1. Goals/Targets

A. Steward Bainbridge Island’s natural resources to function as healthy, resilient ecosystems that can continue to serve multiple ecological functions including providing habitat, maintaining the hydrologic cycle and storing carbon in the face of the added stresses of climate change.

- By 2021, COBI is using the EcoAdapt Climate Change Adaptation Certification (or a similar tool) to evaluate land acquisition and development proposals to ensure decisions are climate informed.
- By 2023, COBI will complete a forest stocking density evaluation of City-owned lands to inform its forest management practices.
- By 2025, COBI will develop a comprehensive plan to control and reduce invasive plant species across Bainbridge Island in partnership with relevant stakeholders.
- By 2025, COBI will evaluate and as necessary revise the Community Forest Management Plan adopted in 2017 to ensure that it incorporates adaptation to climate change risk factors including wildfire and drought and pathogens, and will work 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.

B. Protect and maintain the integrity of our Island’s surface and groundwater resources in the face of climate change.

- By 2023, COBI will adopt a Groundwater Management Plan that accounts for climate change in its projections, policies, and guidance.

BI Comprehensive Plan: Natural Environment

EN 1.1: A primary goal of the Comprehensive Plan is protecting the Island’s natural environment; land use decisions implement this goal.

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 1.5: 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 5.10: Consider climate change and its impacts in all decisions related to wildlife, fish resources and natural systems.

C. Steward our Island’s shorelines to allow for resilience in the face of climate impacts including sea level rise.

- By 2025, COBI 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 work collaboratively with all stakeholders that manage shoreline resources to establish consistency in priorities and planning for sea level rise across jurisdictions and ownership. The City should consider explicitly incorporating flood risk projection updates into its 2021 periodic review of the SMP.

D. Support an agricultural system that prioritizes climate change resilience, local food production, and ecosystem services including soil carbon storage and water management.

- By 2023, agricultural uses will be incorporated into groundwater planning via the Groundwater Management Plan (see goal B).

6.2. Challenges

- **No one-size-fits-all approach:** The complexity of our Island’s ecology and geomorphology means that there is no one-size-fits-all approach to climate mitigation and adaptation. Different systems and areas of the Island will require site-specific decision making.
- **Complex forest management history:** Bainbridge has a complex history of forest management, including major deforestation events and a current patchwork of suburban-rural interface and, in some areas, little to no management of dense secondary regrowth. These factors present wildfire and disease risks that are likely to increase under climate change.
- **High level of shoreline modification:** Adaptation to sea level rise is complicated by a high degree of human shoreline modification, as well as significant financial and emotional investments in properties and infrastructure.
- **Low adaptive capacity for streams and wetlands:** Many of our Island’s small streams and wetlands are already seasonal in nature, subject to extremes of dry and wet, and have little buffering capacity to withstand additional stresses such as longer periods of drought, more extreme runoff, and/or increasing input of nutrients or pollutants.
- **Sole source aquifer:** Bainbridge Island is a sole source aquifer community, with the vast majority of its groundwater coming from precipitation that falls on the surface of the Island, some of which infiltrates the ground. Our stewardship of this limited resource is likely to be further stressed by lower rates of aquifer recharge expected under climate change along with increasing demand for water with increasing temperatures.
- **Potential saltwater intrusion:** Sea level rise can be expected to increase the possibility of saltwater intrusion into our sea-level aquifer, with repercussions for homeowners who obtain their water from those areas. Septic systems will likely be impacted, diminishing their function and increasing release of nutrients and pathogens into surrounding water and soils. Septic systems, such as on Point Monroe, are already threatened by seawater intrusion.
- **Balance agriculture with growth:** Bainbridge has a rich agricultural history with community and municipal commitments to agriculture that are complicated by high property values and development pressures. Our community faces difficult choices in how to maintain

agricultural values in balance with these competing pressures. We can expect climate change to add challenges to our agricultural activities in several ways including new pests and pathogens, altered water availability, increased water demand and diminished soil health.

6.3. Current Actions

Municipal

- **Updated Comprehensive Plan:** COBI's Comprehensive Plan is a powerful guide for addressing climate change mitigation and adaptation in our open spaces and ecosystems (see inset boxes in Strategies highlighting this guidance).
- **Developing Groundwater Management Plan Under Development:** COBI is working towards a comprehensive groundwater management plan that can lay the foundation for monitoring and adapting groundwater management under climate change.
- **Community Forest Management Plan:** in 2017 the City adopted this management plan that sets canopy coverage and forest management goals.
- **Periodic review of the SMP:** review of the Shoreline Master Plan is currently underway and presents opportunities to include issues including flood risk.
- **Addressing climate risks to some COBI infrastructure:** current efforts include the incorporation of sea level rise into the head of Eagle Harbor culvert replacement and moving sewer lines out of the intertidal zone in Eagle Harbor.

Community

- **Stakeholders already considering climate change:** The Bainbridge Island Metropolitan Parks and Recreation District (BIMPRD), and Bainbridge Island Land Trust (BILT) are two of the largest owners and managers of open spaces on the Island, each managing approximately 1500 acres of land. Both entities recognize the importance and risks of climate change to their holdings. BILT is actively pursuing identification of climate risks in its conservation easements and owned lands and is working with multiple entities on the Island and throughout the region to understand how to manage their easements and properties under climate change.
- **Many groups active on Island:** Bainbridge Island is very fortunate to have a wide range of groups⁸⁵ committed to education and active stewardship that are and will be essential to

BI Comprehensive Plan: Forests

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 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-14: 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.

EN-18: 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.

our ability to mitigate and adapt our natural resource management for climate change. For example, both BILT and BIMPRD have active volunteer and paid teen programs that help with invasive species removal, native planting, monitoring and other activities to build the health and resilience of our ecosystems in the face of climate change.

6.4. Strategies/Actions

Goal A. Steward Bainbridge Island’s natural resources to function as healthy, resilient ecosystems that can continue to provide multiple ecological functions including providing habitat, maintaining the hydrologic cycle, and storing carbon in the face of the added stresses of climate change.

Strategy A.1. Steward Bainbridge Island’s natural areas using the best available scientific knowledge about local ecology and climate change.

Priority Action(s)

- 6.A.1.a. 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.⁸⁶ If data sources are missing, identify how to obtain needed information.
- 6.A.1.b. Develop and adopt a comprehensive strategy for addressing invasive species on City lands to reduce these significant stressors on ecosystems.
- 6.A.1.c. Evaluate all COBI land acquisition and development decisions for City lands or in City review of private development using the EcoAdapt Climate Change Adaptation Certification Tool⁸⁷ (or other similar tool) to ensure decisions are climate informed.

Other Action(s)

- 6.A.1.d. Partner with community organizations to leverage additional data sources and monitoring efforts that contribute to well informed natural resource management. For example, update mapping resources of key wildlife habitat in interior forest cores and connective networks.
- 6.A.1.e. Incorporate ecological functions and ecosystem processes contributed by forested landscapes into COBI land use decisions and permitting.
- 6.A.1.f. Add staff training about climate change and its impacts on natural resources in order to build institutional knowledge and integrate climate-savvy thinking into planning decisions. Consider contracting with or adding a wildlife biologist or ecologist to COBI staff who is knowledgeable about climate change and would apply that knowledge and relevant tools to proactively manage natural resources and be a resource for staff and the community.

Strategy A.2. Proactively manage Bainbridge forests for anticipated vegetational composition shifts projected under climate change.

Priority Action(s)

- 6.A.2.a. Work with COBI 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.

Other Action(s)

- 6.A.2.b. Collaborate with community groups to proactively foster climate savvy forest management through information sharing and partnering on education, outreach and stewardship.
- 6.A.2.c. Investigate and integrate best practices for maintaining and where possible improving soil and biomass carbon storage into COBI and other stakeholders’ forest management plans.

Strategy A.3. Reduce wildfire and forest disease risk through proactive forest management.

Priority Action(s)

- 6.A.3.a. Conduct an assessment of stocking densities on COBI owned lands and evaluate forest health improvements and wildfire risk reduction.
- 6.A.3.b. Ensure that COBI policies prioritize wildfire risk reduction in proximity to homes consistent with FireWise guidelines⁸⁸ and strengthen wildfire risk-reduction design guidelines for Island construction (residential and business) using approaches such as reviewing new subdivision standards for opportunities to integrate wildfire risk reduction.

Other Action(s)

- 6.A.3.c. Work with partnering agencies, including the Bainbridge Island Fire Department, to help communicate to private land owners’ techniques and resources for reducing wildfire risk while maintaining forest health and wildlife habitat values.
- 6.A.3.d. Work with public agencies (e.g., Kitsap Transit, BIMPRD) and utilities (PSE) to design and maintain infrastructure and land use to reduce wildfire risk.
- 6.A.3.e. Prioritize the control and elimination of invasive species such as scotch broom and holly that are known to have additional wildfire risk (flammability).
- 6.A.3.f. Work with community organizations including BIMPRD and BILT to proactively identify, treat and contain plant pathogens, as well as invasive species.

Goal B. Protect and maintain the integrity of our Island’s surface and groundwater resources in the face of climate change.

BI Comprehensive Plan: Water Resources

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.

Strategy B.1. Maximize protections for intact hydrologic processes including aquifer recharge, groundwater-surface water interactions, and stormwater runoff.

Priority Action(s)

- 6.B.1.a. Incentivize and maximize opportunities for incorporating water conservation features in Green Design and Building Codes (see Buildings Section Goal A).
- 6.B.1.b. 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 into monitoring climate change-sensitive parameters as appropriate.

Other Action(s)

- 6.B.1.c. Prioritize evaluation and adaptive management (e.g., ARPA implementation) of the Critical Areas Ordinance to maintain the integrity of streams, wetlands and their buffers.
- 6.B.1.d Evaluate and revise stormwater code through the lens of likely increases in storm intensity and rainfall
- 6.b.1.e Evaluate and support opportunities to increase aquifer recharge, e.g. through upland discharge or infiltration of tertiary sewage effluent.
- 6.B.1.f. Protect water rights for natural systems, assessing hydrological human/nature conflict potential as part of land use planning, including evaluation of projected water scarcity and over abundance.
- 6.B.1.g. Partner with community organizations such as Sustainable Bainbridge, Washington State University Extension, and BILT to conduct education and outreach with the public about their role in protecting hydrologic processes given the realities of climate change via protecting intact functioning streams and wetlands, as well as incorporating rain gardens and other low impact development techniques into their properties.

Strategy B.2. Identify and implement targets that will balance aquifer discharge and recharge, incorporating climate change projections.

Priority Action(s)

- 6.B.2.a. Complete and implement COBI's Groundwater Management Plan, including incorporation of expected changes to groundwater inputs and outputs under climate change.

Other Action(s)

- 6.B.2.b. Work collaboratively with the Utility Advisory Committee and all Island drinking water systems on ways to maintain sustainable yields in the face of climate change, including outreach and communication about water conservation.

Goal C. Steward our Island's shorelines to allow for resilience in the face of climate impacts including sea level rise.⁸⁹

Strategy C.1. Incorporate sea level rise and changes in shoreline stability and erosion into the shoreline master program and other shoreline management planning decisions.

Priority Action(s)

- 6.C.1.a. Ensure that planning for sea level rise on the timeframe relevant to any proposed action’s lifetime impact is explicitly incorporated into the Shoreline Master Plan, including incorporating capacity for inundation and change to natural shoreline features, such as planting for shifting vegetative communities, infrastructure movement or abandonment to adapt to habitat loss at shoreline.

BI Comprehensive Plan: Agriculture

EN15.9: Work with the Conservation District and nonprofits to encourage farming that accounts for changing Island conditions with regard to hydrology, temperature and other climatologically influenced factors.

EN15.10: Improve public information and creating new programs to promote agriculture while advocating for farming practices that protect water quality and quantity.

Other Action(s)

- 6.C.1.b. Ensure that ecosystem concerns are included in any plans for potential transitions to open space or living shorelines for properties that will be inundated by sea level rise or degraded by coastal erosion and/or slope instability. Begin community conversations regarding our desired outcomes related to sea level rise, coastal erosion and slope instability (see Buildings Section Goal B for other actions).
- 6.C.1.c. Work with Island stakeholders with publicly accessible properties and properties held in trust for natural resource values, including the Bainbridge Island Land Trust and the Bainbridge Island Metropolitan Parks and Recreation District to collaboratively identify and integrate sea level rise changes into planning for shoreline resources.
- 6.C.1.d. Partner with community organizations such as Puget Sound Restoration Fund and Bainbridge Beach Naturalists to monitor local effects of ocean acidification on shellfish resources.

Goal D. Support an agricultural system that prioritizes climate change resilient, local food production and ecosystem services, including soil carbon storage and water management.

Strategy D.1. Maximize opportunities for agricultural practices that mitigate climate change, including lower energy intensive practices, carbon storage, aquifer recharge, and smaller foodsheds.⁹⁰

Priority Action(s)

- 6.D.1.a. Work collaboratively with individual farmers and community groups including Friends of the Farms, Master Gardeners, and Kitsap Conservation District to identify and promote agricultural policies that increase carbon storage (e.g., soil sequestration) and hydrologic integrity, and reduce emissions including permaculture and reduced energy inputs (e.g., fertilizer, fossil fuels).

Other Action(s)

- 6.D.1.b. Work with partnering entities to promote and facilitate the equitable adoption of non-traditional agricultural opportunities (e.g., community gardens, urban agriculture,

vertical agriculture, public food forests) to promote local food production throughout the community.

- 6.D.1.c. Support opportunities for energy production co-located with agricultural activities (e.g., biodigester and solar projects).
- 6.D.1.d. Ensure that water use-related permits include plans for future water conditions.
- 6.D.1.e. Collaborate with Public Farmland partners and resource agencies (e.g., Kitsap Conservation District) to ensure water conservation efforts are integrated into public farmland management.
- 6.D.1.f. Work with partnering organizations including the Kitsap Conservation District to bring resources for water conservation to private and other community farming efforts.

Strategy D.2. Improve manure management to reduce emissions associated with livestock waste and fertilizer delivery.

Priority Action(s)

- 6.D.2.a. Work collaboratively with Kitsap Conservation District to offer technical resources to livestock owners for manure management. Consider development of a memorandum of understanding and funding to support additional manure management efforts.

Other Action(s)

- 6.D.2.b. Work with community groups and other entities to identify additional opportunities for manure management (e.g., community composting systems, digesters, or other resources that reduce manure emissions; see Chapter 7 for more on this topic) and code changes that could facilitate the implementation of local green waste management.

Section 7: Waste



Section 7: Waste

The GHG Community emissions inventory indicated that less than 1% of current greenhouse gases are from wastewater treatment and about 4% are from solid waste generation.

In addition, the consumption-based GHG inventory indicated that our purchasing decisions result in an estimated 52 MTCO₂e per year per household, confirming that consumption is a significant contributor to emissions.

The choices we make about the food we eat, our driving habits and vehicle selections, consumer purchases, and the type of housing we choose, all have a large impact on GHG emissions. The waste and disposal of materials during and at the end of these consumption choices can be a substantive component of those emissions.

There has arguably never been more urgency around the need to reduce our collective waste footprint. Reasons for the urgency include:

- The climate impacts of transporting and landfilling our waste.
- The land use impacts of landfilling.
- The substantial problem of food waste wherein 40% of food grown in the US is wasted along the entire pathway from producer to consumer.
- The substantive impacts of single-use plastics on their production, landfilling and improper release into our environment.
- The substantial impacts of excess packaging, particularly non-recyclable packaging, on our carbon and waste footprints.

BI Comprehensive Plan: Waste

E.C.3.3: Encourage local enterprises to participate in programs such as Kitsap County Waste Wise and Green Community Initiative.

E.C.3.4: Encourage public sector solid waste reduction, reuse and recycling.

E.C. 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

E.C. 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.

7.1. Goals/Targets

A. Reduce Island residential, commercial, and industrial waste generation.

- By 2021, COBI's approved sustainable procurement plan⁹¹ is applied across all departments for 100% of purchases.
- By 2021, COBI establishes policies to substantially reduce the use of single-use disposable food service ware by Island businesses.

B. Increase diversion of waste from the landfill

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

C. Optimize collection and disposal systems to minimize GHG emissions

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

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

7.2. Challenges

- **Lack of markets:** Un-recyclable packaging and overabundance of disposable plastics is a massive, global problem. The US recycling market is facing severe challenges in terms of tightened restrictions on what is accepted overseas. This causes real strains on waste management. Domestically, we are not prepared for the flood of materials that do not have places to go. These large issues translate to direct impacts on our local community. These impacts include a glut of non-recyclable, fossil-fuel based materials, increases in recycling costs, and reduction in what materials can be accepted for recycling locally.
- **Location:** We face specific challenges in waste reduction as a small Island community in Puget Sound. Our solid waste is trucked and shipped by rail to be landfilled in eastern Oregon, which represents a large carbon footprint in terms of both transportation and landfilling.
- **Lack of composting facilities:** The vast majority of our green waste is trucked off Island to Belfair in Mason County. We do not currently capture for composting an unknown, but likely substantial, portion of our green waste (particularly food and compostable materials) that is generated from residential, commercial and agricultural activities.
- **Lack of infrastructure:** Infrastructure barriers need to be overcome to address these issues: for example, no current commercial food waste service is provided for businesses, and narrow access points in some commercial areas (especially downtown) create obstacles to additional waste bins and pickup service.
- **Lack of understanding:** The public does not have a clear understanding of the different types of compostable materials, such as plant-based plastics and packaging alternatives, and which can be accepted by Island composting services. Some “compostable” packaging is compostable by commercial facilities in King County but not in Kitsap County.

These challenges also represent an opportunity to achieve meaningful emissions reductions and environmental impacts if we can find ways to reduce the amount of materials that are sent to landfills, divert more waste to compost, and reduce the transportation footprint of green waste.

7.3. Current Actions

Municipal

- **Sustainable Procurement Plan:** COBI has an approved sustainable procurement plan, which states that staff should buy sustainable alternatives if the price is comparable.

- **Staff in place:** COBI has oversight staff in each department to check on internal composting and recycling within the facility.

Community

- **Bainbridge Disposal (BD) Yard Waste Service:** The public has an option to purchase residential curbside recycling and/or yard waste services through BD. The latter allows for composting of both green and food waste.
- **BISD:** BISD has formed a District green team to address waste reduction and conservation. This entity has worked with district-wide and campus policies to pursue changes including the elimination of disposable flatware at many schools; the implementation of recycling waste streams including for plastic film, Styrofoam, markers and more; and 3-bin compost/recycle/landfill with educational programs and monitoring at multiple campuses.
- **Bainbridge Island Zero Waste (BIZW):** BIZW is a program of the nonprofit organization Sustainable Bainbridge. Its website⁹² provides many resources to guide local waste reduction, reuse and recycling. Its volunteers undertake a wide variety of efforts including, but not limited to, education and waste sorting at major community events, Styrofoam recycling events twice a year at Bay Hay and Feed, and a lending library of reusable dinnerware and other items available for free to the public.
- **Buy Nothing Bainbridge:** This, and other similar groups on social media such as “Free on the Rock,” disseminate free items throughout the community from individuals who want to dispose of an item to individuals who want the item. These groups likely keep thousands of items circulating in the local economy and prolong their life out of the landfill. As such they contribute to community waste reduction.
- **The Bainbridge Island Rotary Auction and Rummage sale:** The Rotary Auction can reasonably be called one of the largest reuse and recycling events on the Island, not only because of all the materials that are resold for reuse, but also because the Rotary Green Team works tirelessly to reduce and divert literally tons of landfill waste through proper recycling and through partnerships with dozens of nonprofits to take materials that might otherwise go to the landfill.
- **Kitsap County:** The County is charged with education outreach for all of Kitsap County, including Bainbridge. Resources include:
 - Fliers and corrugated posters (for posting at outdoor multifamily residences) that Kitsap Solid Waste and Bainbridge Disposal (BD) give out, although this past year BD created their own fliers for the transfer station and commercial recycling.
 - EnviroStars green business program.
 - Outreach materials for BIZW as requested, including fliers, corrugated posters, compost buckets, bags.
 - A "What Do I Do with It?" web page with recycling and reuse information (<http://recycle.kitsapgov.com/Pages/Home.aspx>).
 - A Kitsap County Recycling and Garbage News email newsletter.
 - The Kitsap County Solid Waste Advisory Committee. A BIZW member is currently the City’s representative on the Kitsap County Solid Waste Advisory Committee, and as such serves as a liaison for our community.

- A resource and waste reduction specialist who will come speak to any Island group, and has spoken at multiple City and nonprofit events.

7.4. Strategies/Actions

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

Strategy A.1. In collaboration with COBI's Green Team, promote sustainable consumption within COBI operations.

Priority Action(s)

- 7.A.1.a. Centralize purchasing within COBI to increase adherence to COBI's sustainable procurement policy.

Other Action(s)

- 7.A.1.b. Install hydration stations in all municipal facilities to allow refills of reusable water bottles.
- 7.A.1.c. Require an annual audit of the COBI sustainable procurement policy to ensure compliance.

Strategy A.2 Promote sustainable consumption in the community.

Priority Action(s)

- 7.A.2.a. Adopt an ordinance to reduce the use of single-use plastic food service ware, including utensils and take-out containers, by all Island food service establishments.

Other Action(s)

- 7.A.2.b. Support efforts to make hydration stations available throughout the community including parks.
- 7.A.2.c. Consider a COBI small grants program (e.g., Neighborhood Matching Grants program) to support BIZW and similar efforts to provide community services that reduce the use of single-use plastics (e.g., through lending libraries, consumer education, etc.).
- 7.A.2.d. Work with partnering organizations to identify opportunities for providing space for the implementation of sustainability events and programs (e.g., fix-it fairs and lending libraries).
- 7.A.2.e. Consider creating a forum or platform whereby local businesses can share their ideas and problem-solve issues related to sustainable consumption (e.g., reducing packaging, increasing waste diversion, reducing single-use items, sourcing materials more sustainably).

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

Priority Action(s)

- 7.A.3.a. 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.

Other Action(s)

- 7.A.3.b. Work with partnering organizations such as Kitsap Harvest to increase collection of excess fresh food (i.e., gleaned, or harvesting excess or unwanted crops for distribution to those in need) at private and public farmlands.
- 7.A.3.c. Provide small grants to BIZW to partner with community/youth/sports groups that can volunteer to do waste diversion efforts at community events.
- 7.A.3.d. Urge WSF to renew on-ferry composting service and provide good signage.

Goal B. Increase diversion of waste from the landfill

Strategy B.1 Expand municipal, residential and commercial recycling and composting participation.

Priority Action(s)

- 7.B.1.a. Work with Bainbridge Disposal (BD) to offer curbside compost pickup for all commercial facilities as a weekly service.
- 7.B.1.b. Require that all commercial entities participate in recycling and, once established, in the green waste program.

Other Action(s)

- 7.B.1.c. Consistently pair and provide clear signage for all compost and recycling bins in all meeting rooms in COBI facilities.
- 7.B.1.d. Evaluate the adoption of a program to require community-wide diversion of organic waste from the landfill.
- 7.B.1.e. Facilitate and support education and outreach to consumers about green waste options and what materials are acceptable for composting.
- 7.B.1.f. Recognize/award businesses that are taking voluntary and meaningful steps to reduce their waste (e.g., composting).
- 7.B.1.g. Encourage businesses to receive green certification from their respective certifying organizations (e.g., Green Circle Salons, Green Restaurant Association, etc.).
- 7.B.1.h. Work with BD to add specialized recycling streams at the Transfer Station (e.g., expanded polystyrene—aka Styrofoam).
- 7.B.1.i. Support state policies that decrease/eliminate the use of non-sustainable, non-recyclable packaging materials such as Styrofoam and single-use plastics.
- 7.B.1.j. Require that organizers and vendors of festivals, sporting events, and official gatherings on the Island provide and fund composting and recycling services for their events to maximize waste diversion from landfills. 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.2 Increase the collection and diversion of construction, renovation, and demolition waste.

Priority Action(s)

- 7.B.2.a. Require, and where appropriate provide incentives for, the reduction, collection and diversion of construction and demolition waste. Seek specific recommendation from the City's Green Building Task Force on this action.

Goal C: Optimize collection and disposal systems to minimize GHG emissions

Strategy C.1 Reduce GHG emissions associated with off-Island transportation of green waste.

Priority Action(s)

- 7.C.1.a. Evaluate and support opportunities to better accommodate on-Island or more local processing of green waste (e.g., through amendments to municipal code and allowed uses).

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

Strategy D.1 Consider projected climate change impacts and explicitly factor these projections into site selection for waste-related infrastructure.

Priority Action(s)

- 7.D.1.a. Apply the EcoAdapt Climate Change Adaptation Certification Tool⁹³ to any new waste-related infrastructure projects.

Section 8: Community Engagement



Section 8: Community Engagement

Community engagement and community buy-in is essential to effectively implement actions throughout the CAP and to achieve the overarching mitigation and adaptation goals. The starting point is providing the community with information on the observed and projected impacts from climate change and then provide information on how we as an Island can adapt to those changes.

While action by COBI and other organizations such as BISD and BIMPRD, are important, individual actions can also make a large difference in meeting our goals for reducing GHG emissions Island-wide and successfully adapting to the coming changes. Finally, we need to incorporate climate change in our discussions about how to prepare our Island for emergencies.

8.1. Goals/Targets

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

- By 2021, a majority of the Bainbridge community has ready access to current climate change information, is aware of climate change issues, and understands what COBI and what they as individuals can do about it.

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

- By 2021, COBI and committees like the CCAC meet regularly with other advisory committees, community groups and have established relationships with other jurisdictions to share, support and exchange climate change information and strategies.

C. Empower and prepare COBI, Bainbridge Island residents, and Bainbridge Island businesses for climate impacts and emergencies.

BI Comprehensive Plan: Community Engagement

EC7.8: Support and make Bainbridge Island a model community for climate change preparedness and sustainability practices to ensure long-term viability while attracting and protecting visitors, businesses, and residents.

EN1.8: Consider the potential impacts of climate change and its impacts in all decisions related to natural systems and environmental quality.

EN5:10: Consider climate change and its impacts in all decisions related to wildlife, fish resources, and natural systems.

EN7.1: Consider the implications of sea level rise in all relevant decision-making by using regional sea level rise projections and shoreline instability maps.

EN7.2: Coordinate with Tribal, Federal, State and local agencies to address issues related to sea level rise.

EN12.1: Support and implement climate pledges and commitments undertaken by the City and other multi-jurisdictional efforts to reduce GHG emissions, address climate change, sea level risk, ocean acidification, and other impacts of changing global conditions.

EN12.3: Strive for reduced GHG 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 GHG emission reduction goals a component of city decision-making.

EN12.5: Support the development of a public education program which informs all citizens on the methods and progress for meeting the Island's GHG emission goals, and ways citizens can assist in reaching the reduction goals.

- By 2022, COBI’s existing authority, budget and capacity is sufficient to address and respond to climate change related issues.
- By 2022, COBI will have incorporated climate change into its emergency preparedness programs.

8.2. Challenges

- **Results of actions are not readily apparent:** Addressing climate change impacts and preparing for mitigation or adaptation often requires nonspecific long-range effort without immediate results.
- **Skepticism:** Some people are skeptical that climate change needs to be addressed.
- **Perceived futility:** Some people do not feel that their individual actions can really make a difference given the scale of the climate crisis.
- **Inadequate funding:** Lack of capacity in the City’s budget to support CCAC efforts – materials for outreach, dedicated staff support etc.
- **Coordination with outside entities required:** Addressing climate change in a meaningful way requires coordination and support from entities outside of the City’s control (e.g.WSF, PSE, Washington Department of Transportation). To an extent, it also is dependent on the State and national level conversations about climate action.

8.3. Current Actions

Municipal

- **Several resolutions or ordinances are already on the books:** The City has taken a number of actions that support climate change over the past several years such as National Drive Electric Week 2019 (Proclamation); supporting Green New Deal (Resolution 2019-14); endorsing Clean Air Energy Initiative 1631 (Resolution 2018-27); supporting a carbon pricing policy for Washington State (Resolution 2017-04; establishing a Climate Change Advisory Committee (Ordinance 2017-03); affirming Support for Paris Climate Agreement (Resolution 2017-20); and integrating climate change into the 2016 Comprehensive Plan.
- **New plans are in the works:** COBI has formed a Green Building Task Force and a Sustainable Transportation Task Force. These task forces will consider ways to encourage or require GHG emission reductions and recognize the role that buildings and transportation related GHG emissions play in impacting climate change.

Community

- **Existing community groups:** There are a number of existing community groups on Bainbridge Island which acknowledge the need to address climate change (e.g. Climate Action Bainbridge, Sustainable Bainbridge, Citizens Climate Lobby, and Indivisible), nonprofits such as the BILT, Friends of the Farm (FOTF) and Bainbridge Island Parks Foundation (BIPF) and faith-based organizations.
- **Public entities recognize climate crisis:** Other public entities on Bainbridge Island are starting to recognize and take actions related to climate change (e.g. BIMPRD)

- **Ongoing educational opportunities:** Existing groups provide regular educational forums such as the Climate and Energy Forum and Movies that Matter.

8.4. Strategies/Actions

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

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

Priority Action(s)

- 8.A.1.a. Develop a dedicated climate change webpage on the City’s website including links to climate mitigation/adaptation resources on the CCAC website and make the CAP widely and easily available to all in the community on-line and in print formats (copies at the library along with GHG inventory, Sea Level Rise analysis and Bainbridge Island Climate Impact Assessment that will be updated periodically by members of the CCAC).
- 8.A.1.b. Consult with the Equity Task Force to ensure outreach efforts and education materials are designed and implemented to reach all segments of the Bainbridge community. See also Section 9: Implementation Action 9.B.1.a.

Other Action(s)

- 8.A.1.c. Convene semi-annual events to communicate what City and City committees are doing on climate change (e.g., Saturday morning event in City Hall at the same time as the Farmers Market)
- 8.A.1.d. Actively support educational forums and opportunities provided by other community groups including digital and on-line information and activities.
- 8.A.1.e. Evaluate the vulnerability of COBI and non-COBI assets to climate change starting with a sea level rise assessment; See Section 6, Strategy C.1.
- 8.A.1.f. Hold community discussions around vulnerability of COBI and non-COBI sites from climate change.
- 8A.1.g. Incorporate vulnerability evaluations into COBI decision-making for all projects.

Strategy A.2. Increase community knowledge of actions that individuals can take to reduce their GHG emissions and prepare for current and future climate impacts.

Priority Action(s)

- 8.A.2.a. Include a climate change tip of the [month] as a regular feature in the City Manager’s report and on social media.

Other Action(s)

- 8.A.2.b. Hold neighborhood meetings to discuss climate change impacts, including impacts on human and environmental health, and what individuals can do (e.g., hold meetings in the three different wards or work with the Map Your Neighborhood groups.).
- 8.A.2.c. Create Bainbridge Island Climate Change Week in conjunction with Earth Month or Arbor Day.

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

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

Priority Action(s)

- 8.B.1.a. Declare a climate emergency.⁹⁴
- 8.B.1.b. Be a regional leader in recognizing the important role that municipal governments can play in taking action to respond to climate change.
- 8.B.1.c. Work cooperatively with other jurisdictions in Kitsap and King Counties (e.g., Poulsbo, Silverdale, Kingston, Bremerton, Seattle) and throughout Puget Sound to find regional solutions including mitigation and adaptation actions that would benefit from economies of scale or the sharing of lessons learned.

Other Action(s)

- 8.B.1.c. Encourage increased coordination/collaboration with other City Advisory Committees such as the Utilities Advisory Committee, Race Equity Task Force, Green Building Task Forces, Sustainable Transportation Task Force, Design Review Board and Bainbridge Island taxing entities.
- 8.B.1.d. Partner with BSD to conduct regular updates to the GHG emissions inventory using their developed high school curriculum and access to ICLEI resources via a memorandum of understanding with the City.
- 8.B.1.e. Work collaboratively with and actively support work by existing community groups to disseminate information (Climate Action Bainbridge, Sustainable Bainbridge, Citizens Climate Lobby, Indivisible, BILT, FOTF, Bainbridge Island Woman’s Club, BIPF and faith-based organizations).

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

Priority Action(s)

- 8.B.2.a. Host workshops with hands-on demonstrations for community members to learn how to take specific actions (e.g., 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).
- 8.B.2.b. Host events for community project(s) to bring people together to work towards mitigation and adaptation (e.g., building a community rain garden, working on a trail,

making signs for bike/pedestrian routes, pulling ivy, planting climate resilient plants, and constructing community pea patch).

Goal C. Empower and prepare COBI, Bainbridge Island residents, and Bainbridge Island businesses for climate impacts and emergencies.

Strategy C.1. Ensure the City is empowered and has the necessary authority and capability/capacity to plan and implement actions to mitigate and adapt to climate change impacts.

Priority Action(s)

- 8.C.1.a. In coordination with the COBI attorney, review existing laws, regulations and policies and revise as needed by asking the following sorts of questions.
 - Are they adequate to require, or at least encourage, GHG 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?
- 8.C.1.b. Hire a COBI Climate Mitigation/Adaptation Officer to coordinate activities between and among the various city offices, inspect for compliance with climate related code compliance, and serve as a City staff liaison with the CCAC.
- 8.C.1.c. Include Climate Change related expenditures in the City budget for education, code compliance, mitigation and adaptation action items identified in the CAP. See Implementation Section 9.5 Funding for general discussion of funding needs.

Strategy C.2. Establish programs or networks to ensure COBI, businesses, and residents are prepared to effectively adapt to climate change impacts and emergencies.

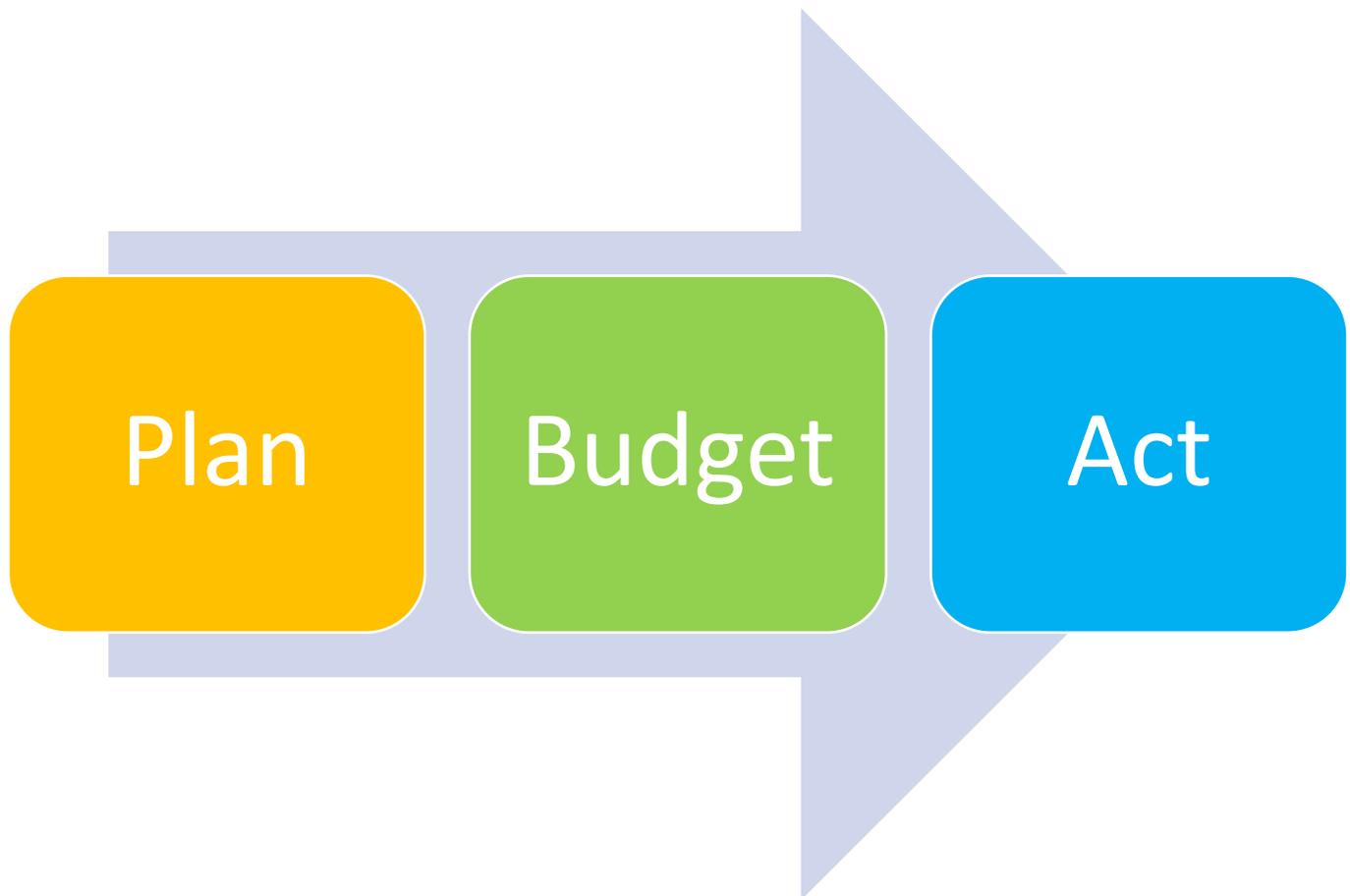
Priority Action(s)

- 8.C.2.a. Work with Bainbridge Prepares, the Bainbridge Island Fire Department, and others, to establish equitable access to community centers for recharging generators and cell phones during outages, and providing emergency food/water/filtered air during poor air quality due to fires across the west. Develop strategies to provide these services during a pandemic or other emergency that does not allow for close quarters.

Other Action(s)

- 8.C.2.b. Incorporate climate change into COBI emergency preparedness programs. COBI works with the Emergency Preparedness group, the CCAC and others to develop materials on the climate change impacts to include in their emergency preparedness outreach. 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.
- 8.C.2.c. Help develop and support food resilience networks.
- 8.C.2.d. Work with PSE and others to develop neighborhood microgrids with local generation and storage. See Section 3 (Energy) Action 3.C.2.a.

Section 9: Implementation



Section 9: Implementation

This section describes the steps that need to be taken to ensure that the CAP is successfully implemented and that the community is regularly informed about progress toward achieving the CAP goals. It is critical that COBI tracks progress in achieving the CAP goals, with the help of the CCAC, and modifies those actions as needed over time if needed. It is especially important to provide transparency and accountability to move our Island forward in reducing GHG emissions and preparing for current and future climate change impacts.

Implementation details for all of the priority actions in this CAP, including those listed in this chapter, can be found in the appendix.

9.1. Kickstarting Implementation

In the first year after CAP adoption, COBI needs to put in place critical foundational elements for CAP implementation and begin to implement the highest-priority actions with available resources. Specifically, no later than January 30, 2021, COBI will implement the following actions related to kick-starting implementation.

Strategy A.1. Initiating implementation

Priority Action(s)

- 9.A.1.a Confirm COBI staff person to liaise with the CCAC until a dedicated Climate Change Mitigation/Adaptation Officer is hired. See Section 8 Community Engagement Action 8.C.1.b.
- 9.A.1.b Identify a COBI staff person in each department who will provide information to the City staff liaison (Climate Change Officer) identified in Action 9.A.1.a. This person will provide department-specific information on timelines for completing actions and report on progress on CAP actions led by that department.

9.2. Leadership

Successful CAP implementation will require strong, long-term commitments from the City Council, engagement of COBI staff, ongoing operation of the CCAC, and community support for climate action.

The Bainbridge Island City Council is responsible for the oversight of implementing the CAP. They need to make policy decisions and budget decisions that advance CAP implementation and review updates on CAP progress.

As directed by the City Council, the CCAC will provide ongoing assistance to the Council and actively participate in Plan implementation by:

- Advising on methods for monitoring and tracking progress towards meeting CAP goals.
- Making recommendations to the Council on policies that further the goals of the CAP.
- Reviewing COBI's brief annual CAP progress report each year and considering new recommendations to the Council.

- Supporting—and in some cases leading—public engagement efforts.

The City Manager will actively support the Council’s climate commitment by requiring the involvement of all City divisions, as needed and appropriate, in CAP implementation and requiring consideration of mitigation and adaptation goals when doing budgeting, strategic planning and work planning.

9.3. Equity

The City Council, City Manager, City departments, and CCAC are responsible for considering the potential for unforeseen and/or inequitable impacts to members of our Island community from the implementation of CAP strategies and actions. They will be responsible for identifying ways to address or reduce any such impacts or burdens, and to seek to implement actions in ways that advance social equity.

The CCAC used equity as one of the key criteria for evaluating actions in order to determine which to prioritize. We sought to ensure that CAP actions would contribute to or support social justice, equity, diversity, and inclusion. Actions received higher scores if they would directly support populations of concern (e.g., low income, children and pregnant women, older adults, communities of color) in our community to reduce GHG emissions, if they would improve these populations’ ability to adapt to climate change impacts, and if they would not create an inequitable burden.

City staff will work to involve diverse community voices from the start of any new initiative. Engagement efforts will include meaningful actions aimed at informing and being informed by community members from all income levels, races and ethnicities, political persuasions, genders, age groups and neighborhoods. The City will also engage people who may work on the Island, or send children to school or daycare on the Island, but who do not live on the Island.

Strategy B.1. Consistently consider equity in all CAP implementation and engagement efforts.

Priority Action(s)

- 9.B.1.a. Consider and minimize the potential for unintended and/or inequitable impacts from each action prior to implementation.

9.4. Accountability, Reporting, and Future Updates

COBI will update the municipal GHG emissions inventory annually and community GHG emissions inventory approximately every three years and no less frequently than once every five years.

At this time, we expect to complete updated community GHG emissions inventories in 2022, 2026, 2031, 2036, 2041, and 2046, which will allow us to analyze emissions in our target years (2025, 2035, 2045) to determine if we are meeting our targets.

The hope is that the greenhouse gas inventories can be done through a partnership with BISD and the involvement of local high school students. Alternatively, COBI could hire consultants.

The CCAC will work with COBI to produce a brief CAP progress report every year. This report will summarize the progress of each CAP action. The CCAC will rely on the collaboration and input of City staff to gather all the necessary information. The CAP progress report will be made publicly available through COBI's website, and will be presented at a City Council session open to the public.

COBI will work with the CCAC, community members, and the Council to update the CAP every five years. This process will include updating the GHG emissions inventory information, updating CAP goals, re-prioritizing actions based on changing local circumstances and new technologies, and adding new strategies and actions as needed and based on community input.

Evaluations of effectiveness will also be essential to inform adaptive management. To make it more manageable, the evaluation effort could be distributed over time, such as by tackling strategies under a subset of sectors each year, ensuring that all have been reviewed prior to the five-year CAP update. If urgent corrections are needed based on evaluation findings, the City should implement those in a timely manner rather than waiting for the next update cycle.

Strategy C.1 Update information and plans on a regular basis.

Priority Actions

- 9.C.1.a. Produce a CAP progress report every year that includes a review of actions undertaken during the year and additional actions needed (including those currently listed as "other" rather than "priority" actions) to meet the CAP goals for reducing GHG emissions and preparing the Island for climate impacts.
- 9.C.1.b. Update the GHG emissions inventory every three to five years.
- 9.C.1.c. Update the CAP every five years.
- 9.C.1.d. Prior to the five-year CAP update, evaluate the effectiveness of implemented actions in terms of progress towards goals and targets, in order to inform adaptive management. Consider creating a dashboard of key metrics as a tool for the evaluation and associated communications.

9.5. Funding

Some of the strategies and actions in this CAP can be done with existing COBI staff and resources while others will require new funding. These investments are motivated by the goal of avoiding the costly long-term consequences of inaction. The actions in this CAP also align with the Island's Comprehensive Plan; implementing these actions will have benefits well beyond climate mitigation or adaptation.

Funding for the implementation of CAP actions will need to come from within COBI's budget, external grants, and new revenue sources. The annual COBI budget must signal and support the City's commitment to climate action. The table below summarizes ideas from the recent publication *Playbook 1.0: How Cities Are Paying for Climate Resilience*.⁹⁵ Not all the actions can be implemented immediately. The CAP identifies the highest-priority actions and the Council and COBI staff will work to fund implementation of those actions first. It will also be important to anticipate and take advantage of windows of opportunity when costs are lower (e.g., during design and construction rather than after). Some actions, such as energy efficiency retrofits, can lead to significant savings for COBI operations; these savings could be allocated to a fund for reinvestment into other mitigation and adaptation actions.

**Playbook 1.0 ideas for financing
(Plastrik, Coffee & Cleveland, 2019)**

- **Generate Local Revenue.** Produce revenue for government climate-resilience public infrastructure by taxing local property owners and charging utility ratepayers.
- **Impose Land-Use Costs.** Adopt land-use and building regulations and policies that place undetermined future resilience-building costs on property owners and developers, rather than on government.
- **Embed Resilience Standards into Future Infrastructure Investments.** Ensure that all future capital spending for public infrastructure will be designed to strengthen climate resilience as much as possible.
- **Leverage Development Opportunities.** Link resilience-building projects with real estate development opportunities to generate public-private partnerships that invest in both public infrastructure and private development.
- **Tap State Government.** Mine existing state programs, or seek to modify them, to obtain funds for local climate-resilience efforts.
- **Pursue Equity in Resilience.** Factor social and economic equity into funding and financing actions by serving economic development, housing, and other needs while investing in climate resilience.

Strategy D.1 Identify costs and funding opportunities for CAP implementation.

Priority Actions

- 9.D.1.a. Develop cost estimates for the highest priority CAP actions and staffing requirements and list potential funding sources (in year 1).
- 9.D.1.b. Include a description in the City Manager's proposed budget of existing and proposed projects that relate to CAP strategies and actions. See Section 8 Community Engagement Action 8.C.1.c.

Section 10: Individual Actions



Section 10: Individual Actions - What can we each do to make a difference?

10.1. Participate in Community Climate Action

- Attend community discussions, forums and events about climate change.
- Let City Council members know that addressing climate change is imperative and articulate what you think should be prioritized.
- Vote for candidates and issues that help address climate change.
- Talk with neighbors about climate resilience and emissions reductions.
- Start conversations in your schools, faith groups, and community groups about climate action.
- Support implementation of the updated Comprehensive Plan's climate smart elements.
- Attend community meetings (e.g., governmental, community group, homeowners' associations) and ask climate questions to better understand and act on the vulnerabilities and responsibilities of our community in relation to climate change.
- Support climate curriculum in our schools so we can become knowledgeable citizens about the issue of climate change--its problems and solutions.

10.2. Reduce Individual Energy Use

- Get an energy audit to find ways to increase energy efficiency at home and at work. Learn about rebates. Call PSE Energy Advisor at 1 800 562-1483.
- Install energy conserving appliances and fixtures, such as on-demand tankless water heaters, higher energy efficiency Energy Star appliances, and LED light bulbs.
- Install energy efficient electric heat pumps, water heaters, dryers, stoves and more.
- Voice support for City policies and proposed code changes that reduce greenhouse gas emissions and help reduce climate change risks.
- Install solar power and storage at your home or business.
- Replace a wood-burning fireplace with an efficient electric system (such as a heat pump).
- Install alternatives to air conditioning when renovating your home or business.
- Use energy efficient lights (including holiday lights) and reduce the amount of time they are on.
- Use local, sustainable, carbon neutral building materials where possible.
- When purchasing, remodeling or building a home or commercial building, choose a smaller building footprint.
- Use a clothes line instead of a dryer.
- Improve insulation in your house or business.

10.3. Reduce My Waste

- Reduce your food waste.
- Reduce your meat and dairy consumption and choose more locally produced foods to reduce your climate impact.
- Compost waste in your backyard or use Bainbridge Disposal compost pick-up service.
- Review and follow Bainbridge Disposal guidelines for what is recyclable, and use that information to guide packaging choices when possible.

- Fix things that are broken instead of buying new. Fix-it-Fairs are coming to Kitsap County!
- Use the Hazardous Products Center and bulky item pick-up programs to properly dispose of old refrigerators, e-waste, and air-conditioning units. Go to <https://www.kitsapgov.com/pw/Pages/HHWFacility.aspx> for more information.
- Talk with a contractor about alternatives to traditional building demolition, such as relocation, deconstruction, and salvage.
- Buy used, borrow or reuse instead of buying new. Use organizations such as Bainbridge freecycle, BI Online Yard Sale, Buy Nothing Bainbridge, Rotary Auction, The Bainbridge Library of Things (coming soon!)
- Support efforts to reduce and limit single-use disposable plastics.
- Bring your own coffee cups, containers (for bulk foods and produce) and grocery bags.
- Select options with less packaging, then reuse packaging and wrapping paper.

10.4. Reduce Individual Water Use and Take Steps to Protect Our Natural Resources

- Conduct a water audit at your home, and replace inefficient toilets and fixtures.
- Reduce your household’s water use.
- Consider efficient alternatives to traditional water heaters, such as electric heat pump or solar thermal hot water heaters.
- Install a rain barrel or cistern to harvest rainwater for outdoor use.
- Explore grey water reuse/recapture.
- Use local sustainable building materials.
- When landscaping, select low impact, water efficient, native plants.
- Avoid creating impermeable surfaces around your house.
- Support City policies that encourage creative solutions to water conservation, such as a green building code that allows for greywater reuse or alternatives to traditional sewerage.

10.5. Reduce Use of Internal Combustion Vehicles

- Increase the number of trips you make by mass transit, carpooling, walking, or biking.
- Reduce the number of airplane flights by utilizing telecommuting technologies and take direct flights as takeoff and landing utilize the most fuel.
- If a traditional bike is not appropriate for you, use an electric bike instead of a car for your commute.
- Organize a “walking school-bus” to walk a group of kids to school, seek out carpools for getting to after-school activities, discourage parent drop off and pickup, and encourage high school students to use the school bus, bike or walk.
- Delay or forgo your next purchase of a new vehicle, if it’s possible to get more life out of your current car; or stop using one.
- When you decide to make a vehicle purchase, select the best fuel efficiency with an electric or hybrid vehicle.
- Support centrally located development that creates vibrant, higher density, mixed-use areas to reduce the need for driving.

- Make commuting by bike or walking a part of your regular routine, and have flashlights, reflective gear, and raingear handy.
- Shop locally and support local businesses to reduce your transportation footprint.

10.6. Reduce Your Vulnerability to Climate Change and Create a Climate Savvy Community

- Employ FireWise and other fire protection measures around your home and business.
- Landscape and design your property for drier summers and wetter winters.
- Plant a garden, and/or encourage the creation of community gardens on public and private lands including school campuses, City lands, and church properties.
- Evaluate all projects (development, business design, property acquisition) with a Climate Change Adaptation Checklist to understand and reduce your risk.
- Use passive heating and cooling to ensure functionality, reduce energy costs and eliminate greenhouse gas emissions.
- Read the Bainbridge Island Climate Impact Assessment to learn more about how to reduce your risk of specific climate stresses for specific areas of interest such as how sea level rise might impact your property.

Appendix A: Priority Actions

Section 2: GHG Inventory: Goals, Priority Actions, Milestones and Timelines

Initiate Action: Light Green

Complete Action: Dark Green

Implement Action: Blue



Section	Action #	Description	Milestones	2020	2021	2022	2023	2024	2025-2030	2031-2045
Goal A: Implement a GHG emission tracking plan to monitor the CAP GHG emissions reduction goals										
GHG Inventory	2.A.1.a	COBI will work with the CCAC to improve the accuracy and site-specificity of data for GHG emission categories that are currently based on regional models (particularly vehicles and air travel).	Identify possible avenues to collect more local data for next inventory and start local data collection	Light Green	Dark Green	Blue	Blue	Blue	Blue	Blue
GHG Inventory	2.A.2.a	COBI will complete the next GHG emissions inventory by 2022 for the year 2021. Complete the next GHG emissions inventory for the year 2025 by 2026 and then complete a GHG emissions inventory every 5 years thereafter.	Begin next GHG inventory and then every 5 years		Light Green	Dark Green			Dark Green	Dark Green
Goal B: Re-evaluate the forest sequestration analysis										
GHG Inventory	2.B.1.a	COBI, working with the CCAC, will approach academic institutions for assistance to plan more rigorous analysis methods, including ground-truthing of tree inventories. Collaborations may include student apprenticeships, student thesis research opportunities, or collaborative research grant proposals. Consider also joint studies with BILT.	Discuss possible strategies at CCAC meetings and decide on action.		Light Green	Dark Green	Blue	Blue	Blue	Blue

Section 3: Energy: Goals, Priority Actions, Milestones and Timelines

Initiate Action: Light Green

Complete Action: Dark Green

Implement Action: Blue



Section	Action #	Description	Milestones	2020	2021	2022	2023	2024	2025-2030	2031-2045
Goal A. Increase energy conservation and efficiency throughout the planned and existing built environment, including customer-owned generation.										
Energy	3.A.1.a	All COBI projects (e.g., Police Station, WWTP improvements) adopt requirements to maximize energy efficiency and reduce total energy demand whenever feasible (e.g., variable frequency drives in HVAC systems, heat recovery systems, and dedicated outdoor air systems).	Council accepted terms	Initiate	Complete	Implement	Implement	Implement	Implement	Implement
Energy	3.A.1.b	Work with PSE to: 1) raise awareness about existing rebate and assistance programs that will increase access to energy conservation and efficiency programs, focusing on low-income households and nonprofit organizations; and 2) explore creating new incentive/rebate programs.	Establish new programs and raise awareness of existing programs.	Initiate	Complete	Implement	Implement	Implement	Implement	Implement
Energy	3.A.2.a	Establish and use the Green Energy and Building Fund to provide incentives to building owners and residents to increase electrification conversions and battery storage and to assist in energy audits for residential home projects, including affordable housing (e.g., install energy conservation measures, provide financial incentives for existing building owners to transition from propane, fuel oil, and wood stoves to all electric buildings).	Development of committee and eligibility and scoring criteria		Initiate	Complete	Implement	Implement	Implement	Implement
Goal B. Eliminate carbon-based energy sources from all energy sectors.										
Energy	3.B.1.a	Work collaboratively with PSE, via the PSE Franchise agreement update and other mechanisms, to move towards a 100% carbon-free electrical supply, preferably sooner than the Washington State mandated goals.	Begin to compile relevant options/approaches and complete by 2021	Initiate	Complete	Implement	Implement	Implement	Implement	Implement

Section	Action #	Description	Milestones	2020	2021	2022	2023	2024	2025-2030	2031-2045
Energy	3.B.1.b	Work with PSE and others to develop incentive programs to increase installation of renewable energy and passive photovoltaic (PV) solar, wind, or other technologies on new and existing buildings.	Begin to compile relevant options and approaches	Light Green	Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green
Energy	3.B.1.c	Adopt a policy that prohibits propane, fuel oil, and wood stoves as the primary energy source for all new municipal, commercial, industrial, and residential buildings and in renovations and additions over a certain size.	All new buildings all electric			Light Green	Green	Dark Green	Dark Green	Dark Green
Energy	3.B.1.d	Develop incentives for existing commercial, industrial, and residential buildings to replace propane, fuel oil, and wood stoves as their primary heating sources.	Program developed and implemented.			Light Green	Green	Dark Green	Dark Green	Dark Green
Energy	3.B.2.a	Develop and hold trainings/workshops for Island and neighboring communities' builders, contractors, architects, and homeowners that can help Bainbridge Island to implement the fuel-switch from carbon-based to electrification of the building stock.	Work with Green Building Task Force to develop trainings and workshops.		Light Green	Green	Dark Green	Dark Green	Dark Green	Dark Green

Goal C. Create energy self-sufficiency for emergency preparedness and increase energy infrastructure reliability and resilience in light of changing climate.

Energy	3.C.1.a	Work with PSE to develop a local program to encourage homeowners, businesses, and other entities like BISD, BIMPRD, and BIFP to acquire customer-owned generation like roof-top solar and small wind turbines as well as customer-owned storage.	Local program established.			Light Green	Green	Dark Green	Dark Green	Dark Green
Energy	3.C.1.b	Research and develop microgrids for community Bainbridge Disaster Hubs (City Hall, Seniors Center, Bainbridge Island School District (BISD), Island Wood) in partnership with PSE and Bainbridge Prepares and possibly using Washington Clean Energy Fund (CEF) funding.	Half of the hubs resilient				Light Green	Green	Dark Green	Dark Green
Energy	3.C.2.a	Work with partners (e.g., PSE) to determine the feasibility of developing large-scale neighborhood microgrids with customer-based storage or utility-scale energy storage, or a combined heat and power biodigester sited adjacent to the community pool.	Strong examples established and documented					Light Green	Green	Dark Green

Section 4: Transportation: Goals, Priority Actions, Milestones and Timelines

Initiate Action: Light Green

Complete Action: Dark Green

Implement Action: Blue



Section	Action #	Description	Milestones	2020	2021	2022	2023	2024	2025-2030	2031-2045
Goal A. Reduce motorized vehicle miles traveled per capita										
Transportation	4.A.1.a	Through the Sustainable Transportation Planning Process and other means, develop an ambitious plan to create networks of pathways required to achieve a substantial mode shift to biking and walking, including separated or protected biking and walking lanes	Work with STTF to develop plan	Light Green	Dark Green	Blue	Blue	Blue	Blue	Blue
Transportation	4.A.1.b	Increase City staff time or hire a consultant to enhance the City's capacity to identify and apply for sources of funding (such as federal grants for Safe Routes to Schools and public private partnerships for the needed infrastructure).	Identify sources of funds for position and advertise.			Light Green	Dark Green			
Transportation	4.A.1.c	Explicitly consider climate change mitigation (e.g., greenhouse gas reductions) when evaluating options as the City develops its Sustainable Transportation plan.	Ensure climate change is considered as part of STTF.	Dark Green						
Transportation	4.A.2.a	Require incorporation of non-motorized transportation options into all new development, e.g., by including sidewalks or pedestrian trails linked to existing and planned trail/sidewalk networks; incorporating bicycle lanes and trails; etc.	Incorporate non-motorized requirements in to permitting process.			Light Green	Dark Green	Blue	Blue	Blue
Transportation	4.A.2.b	Require all new development, and improve existing connections between developments, to accommodate non-motorized and public transit transportation options (including incorporation of bus shelters and other amenities).	Incorporate non-motorized requirements in to permitting process.			Light Green	Dark Green	Blue	Blue	Blue

Section	Action #	Description	Milestones	Timeline								
				2020	2021	2022	2023	2024	2025-2030	2031-2045		
Transportation	4.A.3.a	In consultation with Kitsap Transit, develop a robust marketing/outreach/educational program to inform Island residents and those who traverse the Island from outside about public transit options, including park and rides (including, for example, information for Island visitors on bus/transit routes & options).	Work with Kitsap Transit to develop plan.									
Transportation	4.A.4.a	Work with BISD on measures to discourage private-vehicle drop-offs and pick-ups, encourage car-pooling, biking and walking and promote greater use of school buses.	Develop plan with BISD									
Goal B. Reduce emissions from motorized transportation, including through electrification of all modes (on-road, off-road, and ferries) and encourage reduction in air travel.												
Transportation	4.B.1.a	Transition COBI's fleets to primarily electric vehicles and using biofuels where electric vehicles are not an option and encourage other Bainbridge Island taxing districts to also develop a plan.	Develop long-term strategy for transitioning to all electric fleet.									
Transportation	4.B.2.a	Evaluate current code to see if need to modify to increase the number of EV-charge stations ready for all new development, major renovations and that multifamily units and commercial development include EV charging infrastructure.	Establish requirements in permitting for EV charging stations.									
Transportation	4.B.2.b	Install additional charging stations in commercial centers, including Island Village, Coppertop, Lynwood Center.	Work with PSE and others to add charging stations.									
Transportation	4.B.3.a	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.	Develop plan with WSF to ensure infrastructure for charging ferries.									

Section 5: Buildings: Goals, Priority Actions, Milestones and Timelines

Initiate Action: Light Green

Complete Action: Dark Green

Implement Action: Blue



Section	Action #	Description	Milestones	2020	2021	2022	2023	2024	2025-2030	2031-2045
Goal A: Reduce GHG emissions from all municipal, commercial, industrial and residential buildings.										
Buildings	5.A.1.a	Adopt Green Building Task Force recommendations on green building practices and standards for all new municipal, commercial, industrial and residential building and all renovations and additions over a certain size	Green Building Task Force recommendations to adopt green building standards for all new buildings	Light Green	Dark Green	Blue	Blue	Blue	Blue	Blue
Buildings	5.A.1.b	Require all new and renovated buildings to apply the EcoAdapt Climate Change Adaptation Certification Tool , or similar tool, to identify and avoid climate risks as part of the permitting process.	Apply tool to all building projects		Light Green	Dark Green	Blue	Blue	Blue	Blue
Buildings	5.A.2.a	Develop training and outreach programs to provide technical assistance to developers, contractors, architects, landscape architects, city employees, and homeowners on green building that includes the cost/benefit to occupants of green building, use of reused and recycled materials, and the health benefits from green buildings to occupants.	Work with Green Building Task Force and others to develop program and implement.		Light Green	Dark Green	Blue	Blue	Blue	Blue
Buildings	5.A.2.b	Work with the BISD, BIMPD, and BIFD to ensure any new buildings they build consider green building standards and practices adopted by COBI.	Initiate discussions.			Light Green				
Goal B. Establish procedures to ensure buildings and infrastructure are protected from climate change impacts (e.g., higher precipitation, sea level rise, and increased temperatures).										
Buildings	5.B.1.a	As recommended by the 2019 CCAC Report on Sea Level Rise, conduct a systematic, high-resolution analysis of exposure of City assets to sea level rise; assets at risk from sea level rise.	Complete an analysis for all COBI		Light Green	Dark Green				

Section	Action #	Description	Milestones	2025- 2031-									
				2020	2021	2022	2023	2024	2030	2045			
Buildings	5.B.1.b	As recommended by the 2019 CCAC Report on Sea Level Rise create a prioritized list for addressing COBI assets at high risk of sea level rise (e.g., roadways that are expected in the coming decades to be sufficiently flooded that they will not be functional for motorized transit.)	Complete a prioritized list for COBI assets.										
Buildings	5.B.1.c	As recommended by the 2019 CCAC Report on Sea Level Rise integrate sea level rise analysis into all City planning to identify and avoid or minimize risk to planned infrastructure and development.	Integrate sea level analysis into City planning decisions as part of the SMP updates.										
Buildings	5.B.2.a	Conduct a high-resolution analysis of all shoreline properties to inform landowners of exposure to sea level rises, make this information widely available for property owners to use in decision-making, and provide guidance on possible solutions and regulatory requirements.	Initiate analysis and complete for SMP updates										
Buildings	5.B.2.b	COBI integrates sea-level rise analysis into all City permitting to help applicants identify and avoid or minimize risk to existing infrastructure and land uses and planned infrastructure and development from sea level rise or other climate impacts.	Complete an analysis of vulnerable properties and hold community workshops.										
Buildings	5.B.2.c	COBI hosts community workshops on climate impacts, how they might impact buildings, and how to prepare buildings for these impacts.	Initiate and host workshops.										

Section 6: Natural Environment: Goals, Priority Actions, Milestones and Timelines

Initiate Action: Light Green

Complete Action: Dark Green

Implement Action: Blue



Section	Action #	Description	Milestones	2021	2022	2023	2024	2025	2026-2030	2031-2045
Goal A. Steward Bainbridge Island’s natural resources to function as healthy, resilient ecosystems that can continue to provide multiple ecological functions including providing habitat, maintaining the hydrologic cycle, and storing carbon in the face of the added stresses of climate change.										
Natural Env.	6.A.1.a	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. If data sources are missing, identify how to obtain needed information.	Partners identified, once data gaps identified, timeline for addressing data gaps	Light Green	Dark Green					Blue
Natural Env.	6.A.1.b	Develop and adopt a comprehensive strategy for addressing invasive species on City lands to reduce these significant stressors on ecosystems.	Partners identified				Light Green	Dark Green		Blue
Natural Env.	6.A.1.c	Evaluate all COBI land acquisition and development decisions for City lands or in City review of private development using the EcoAdapt Climate Change Adaptation Certification Tool (or other similar tool) to ensure decisions are climate informed.	At time of inventory updates, conduct permit and development review to evaluate compliance	Dark Green						Blue
Natural Env.	6.A.2.a	Work with COBI 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.	Completed list that is updated at regular intervals. List is available on City website, from partnering organizations, and as a brochure	Light Green	Dark Green					Blue
Natural Env.	6.A.3.a	Conduct an assessment of stocking densities on COBI owned lands and evaluate forest health improvements and wildfire risk reduction.	All City owned lands have been assessed and plans for management established and funded						Light Green	Dark Green

Section	Action #	Description	Milestones	2021	2022	2023	2024	2025	2026-2030	2031-2045
Natural Env.	6.A.3.b	Ensure that COBI policies prioritize wildfire risk reduction in proximity to homes consistent with FireWise guidelines and strengthen wildfire risk-reduction design guidelines for Island construction (residential and business) using approaches such as reviewing new subdivision standards for opportunities to integrate wildfire risk reduction.	Code review and update to ensure design guidelines are up to date and strengthened to reduce wildfire risk							

Goal B. Protect and maintain the integrity of our Island’s surface and groundwater resources in the face of climate change.

Natural Env.	6.B.1.a	Incentivize and maximize opportunities for incorporating water conservation features in Green Design and Building Codes (see Buildings Section Goal A).	Code review and update to ensure design guidelines are up to date and strengthened to identify water conservation opportunities							
Natural Env.	6.B.1.b	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 into monitoring climate change-sensitive parameters as appropriate.	SW monitoring program is reviewed and identified climate parameters are added to ongoing monitoring							
Natural Env.	6.B.2.a	Complete and implement COBI’s Groundwater Management Plan, including incorporation of expected changes to groundwater inputs and outputs under climate change.	Completed GW management plan has been adopted by the City							

Goal C. Steward our Island’s shorelines to allow for resilience in the face of climate impacts including sea level rise

Natural Env.	6.C.1.a	Ensure that planning for sea level rise on the timeframe relevant to any proposed action’s lifetime impact is explicitly incorporated into the SMP, including incorporating capacity for inundation and change to natural shoreline features, such as planting for shifting vegetative communities, infrastructure movement or abandonment to adapt to habitat loss at shoreline.	SMP review and update has explicitly incorporated sea level rise into document							
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Goal D. Support an agricultural system that prioritizes climate change resilience, local food production, and ecosystem services including soil carbon storage and water management.

Natural Env.	6.D.1.a	<p>Work collaboratively with individual farmers and community groups including Friends of the Farms, Master Gardeners, and Kitsap Conservation District to identify and promote agricultural policies that increase carbon storage (e.g., soil sequestration) and hydrologic integrity, and reduce emissions including permaculture and reduced energy inputs (e.g., fertilizer, fossil fuels).</p>	<p>Code review and update to ensure design guidelines are up to date and strengthened to support sustainability of agricultural activities</p>	
Natural Env.	6.D.2.a	<p>Work collaboratively with Kitsap Conservation District to offer technical resources to livestock owners for manure management. Consider development of a memorandum of understanding and funding to support additional manure management efforts.</p>	<p>Manure management is written in to City Code</p>	

Section 7: Waste: Goals, Priority Actions, Milestones and Timelines

Initiate Action: Light Green
 Complete Action: Dark Green
 Implement Action: Blue



Section	Action #	Description	Milestones	2020	2021	2022	2023	2024	2025-2030	2031-2045
Goal A. Reduce Island residential, commercial, and industrial waste generation										
Waste	7.A.1.a	Centralize purchasing within COBI to increase consistent adherence to COBI’s sustainable procurement policy.	Purchasing centralized and review of policy to ensure adherence.	Light Green	Dark Green	Blue	Blue	Blue	Blue	Blue
Waste	7.A.2.a	Adopt an ordinance to reduce the use of single-use plastic food service ware, including utensils and take-out containers, by all Island food service establishments.	Adopt ordinance and implement	Dark Green	Blue	Blue	Blue	Blue	Blue	Blue
Waste	7.A.3.a	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.	Host a workshop with Climate and Energy Forum on food and food waste.		Dark Green					
Goal B. Increase diversion of waste from the landfill										
Waste	7.B.1.a	Work with BD to offer curbside compost pickup for all commercial facilities as a weekly service.	Formal discussions with BD and work to develop plan.		Light Green	Dark Green	Blue	Blue	Blue	Blue
Waste	7.B.1.b	Require that all commercial entities participate in the green waste program once established and participate in recycling.	Participate within 3 months after service established and ordinance passed			Light Green	Dark Green	Blue	Blue	Blue
Waste	7.B.2.a	Require, and where appropriate provide incentives for, the reduction, collection and diversion of construction and demolition waste. Seek specific recommendation from the City’s Green Building Task Force on this action.	Consultant with the Green Building Task Force on timeline.		Light Green					
Goal C: Optimize collection and disposal systems to minimize GHG emissions										
Waste	7.C.1.a	Evaluate and support opportunities to better accommodate on-island or more local processing of green waste (e.g., through amendments to municipal code and allowed uses).	Location for infrastructure up and running.				Light Green	Dark Green	Blue	Blue

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

Waste **7.D.1.a** Apply the EcoAdapt Climate Change Adaptation Certification Tool to any new waste-related infrastructure projects.

Certification applied to any new waste-related infrastructure projects



Section 8: Community Engagement: Goals, Priority Actions, Milestones and Timelines

Initiate Action: Light Green

Complete Action: Dark Green

Implement Action: Blue



Section	Action #	Description	Milestones	2020	2021	2022	2023	2024	2025-2030	2031-2045
Goal A: Increase the Bainbridge community's awareness and knowledge about current and future climate change related impacts and ways to reduce those impacts.										
Community Engagement	8.A.1.a	Develop a dedicated climate change webpage on the City's website including links to climate mitigation/adaptation resources on the CCAC website and make the CAP widely and easily available to all in the community on-line and in print formats (copies at the library along with GHG inventory, Sea Level Rise analysis and Bainbridge Island Climate Impact Assessment that will be updated periodically by members of the CCAC).	Within one month of CAP approval and maintained thereafter	Complete						
Community Engagement	8.A.1.b	Consult with the Equity Task Force to ensure outreach efforts and education materials are designed and implemented to reach all segments of the Bainbridge community. See also Section 9: Implementation Action 9.B.1.a.	Completion of outreach materials and materials distributed.	Initiate	Complete					
Community Engagement	8.A.2.a	Include a climate change tip of the [month] as a regular feature in the City Manager's report and on social media.	Begin late 2020 and continuing thereafter	Complete						
Goal B: Inspire action across the community and partner with local and regional organizations to take meaningful climate change mitigation and adaptation actions.										
Community Engagement	8.B.1.a	Declare a climate emergency.	Completed	Complete						
Community Engagement	8.A.1.b	Be a regional leader in recognizing the important role that municipal governments can play in taking action to respond to climate change.	Initiate 2020 and ongoing	Initiate						
Community Engagement	8.B.1.c	Work cooperatively with other jurisdictions in Kitsap and King Counties (e.g., Poulsbo, Silverdale, Kingston, Bremerton, Seattle) and throughout Puget Sound to find regional solutions including mitigation and adaptation actions that would benefit from economies of scale or the sharing of lessons learned.	Initiate in 2021 and ongoing thereafter		Initiate					

Community Engagement	8.B.2.a	Host workshops with hands-on demonstrations for community members to learn how to take specific actions (e.g., 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).	Begin early 2021 and ongoing thereafter									
Section	Action #	Description	Milestones	2020	2021	2022	2023	2024	2025-2030	2031-2045		
Community Engagement	8.B.2.b	Host events for community project(s) to bring people together to work towards mitigation and adaptation (e.g., building a community rain garden, working on a trail, making signs for bike/pedestrian routes, pulling ivy, planting climate resilient plants, and constructing community pea patch).	Begin early 2021 and ongoing thereafter									

Goal C. Empower and prepare COBI, Bainbridge Island residents, and Bainbridge Island businesses for climate impacts and emergencies.

Community Engagement	8.C.1.a	In coordination with the COBI attorney, review existing laws, regulations and policies and revise as needed by asking the following sorts of questions. <ul style="list-style-type: none"> • Are current City laws adequate to require, or at least encourage, GHG 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? 	Complete review by Spring 2021 and revise authorities as needed by 2022									
Community Engagement	8.C.1.b	Hire a COBI Climate Mitigation/Adaptation Officer to coordinate activities between and among the various city offices, inspect for compliance with climate related code compliance, and serve as a City staff liaison with the CCAC.	Hire by end of 2020 retain permanent staff in this position thereafter									
Community Engagement	8.C.1.c	Include Climate Change related expenditures in the City budget for education, code compliance, mitigation and adaptation action items identified in the CAP.	Include in 2021 budget if possible and maintain sufficient budget thereafter									

**Community
Engagement**

8.C.2.a

Work with Bainbridge Prepares, the Bainbridge Island Fire Department, and others, to establish equitable access to community centers for recharging generators and cell phones during outages, and providing emergency food/water/filtered air during poor air quality due to fires across the west. Develop strategies to provide these services during a pandemic or other emergency that does not allow for close quarters.

Initiate 2021,
complete by 2022
and maintain
thereafter



Section 9: Implementation: Priority Actions, Milestones and Timelines

Initiate Action: Light Green

Complete Action: Dark Green

Implement Action: Blue



Section	Action #	Description	Milestones	2020	2021	2022	2023	2024	2025-2030	2031-2045
Implementation	9.A.1.a	Confirm COBI staff person to liaise with the CCAC until a dedicated Climate Change Mitigation/Adaptation Officer is hired. See Section 8, Action 8.C.1.b.	Confirm climate liaison among current staff	Dark Green						
Implementation	9.A.1.b	Identify a COBI staff person in each department who will provide information to the City staff liaison (Climate Change Officer) identified in Action 9.A.1.a. This person will provide department-specific information on timelines for completing actions and report on progress on CAP actions led by that department.	Work with Climate Change Officer	Light Green	Dark Green					
Implementation	9.B.1.a	Consider and minimize the potential for unintended and/or inequitable impacts from each action prior to implementation.	Develop a decision tool that can be used to evaluate actions in the CAP.	Light Green	Dark Green	Blue	Blue	Blue	Blue	Blue
Implementation	9.C.1.a	Produce a CAP progress report every year that includes a review of actions undertaken during the year and additional actions needed (including those currently listed as “other” rather than “priority” actions) to meet the CAP goals for reducing GHG emissions and preparing the Island for climate impacts.	Yearly report		Blue	Blue	Blue	Blue	Blue	Blue
Implementation	9.C.1.b	Update the GHG emissions inventory every three to five years.	Begin next GHG inventory and then every 5 years		Light Green	Dark Green			Light Green	
Implementation	9.C.1.c	Update the CAP every five years.	Update 2025 and then every 5 years after						Dark Green	
Implementation	9.C.1.d	Prior to the five-year CAP update, evaluate the effectiveness of implemented actions in terms of progress towards goals and targets, in order to inform adaptive management. Consider creating a dashboard	Develop dashboard of metrics to assist in evaluating progress.	Light Green	Blue	Blue	Blue	Blue	Blue	Blue

of key metrics as a tool for the evaluation and associated communications.

Implementation 9.D.1.a

Develop cost estimates for the highest priority CAP actions and staffing requirements and list potential funding sources (in year 1).

Initiate development for immediate actions and then for priority actions in CAP.

Implementation 9.D.1.b

Include a description in the City Manager's proposed budget of existing and proposed projects that relate to CAP strategies and actions.

Complete for each budget.



Appendix B: Comments from Community Workshops

3.1 Energy

First Session Dec 7 10-12 PM City Hall

Facilitator: David McCaughey Note Taker: Mike Kelly and Steve Johnson

Input from approximately 20 people and finally resulted in a smaller group of 5 people for a group discussion

Broad comments:

- What's the most common energy source used for electricity?
 - PSE is now 59% fossil fuels for their entire load
- SB 5116 sets out to decarbonize our electric grid by 2025
- Wind generation on Bainbridge?
 - - not a good wind resource
- Low hanging fruit is using less energy - have to cut our individual usage in half
- Fewer outdoor lights
 - Eliminate Christmas lights or limit the time they can be on
- Should we be thinking about a specific direction for reducing energy consumption? Is there research out there?
- Solar Perovskites - alternative to silicon PV. Creates solar panels that are thinner
 - Better solar - only been on the market for a short term
- Local energy production - community solar projects like what Joe has done for Sakai and the roof of City Hall. Got a lot of roofs on BI
- If home energy is low efficiency - advice on how to improve them
- What does efficiency mean for individuals - how do you measure that? Where do people fit?
- What's the role of offsets until we can get to renewables?
- Measuring the electrical reduction - should you count the agreement signed in 2013 regarding shutting down Coalstrip?
- Have to not overestimate reductions that we did (Scope 1; e.g. city controls what fuel their vehicles used)
- Require solar on all new construction on the Island - for those where it doesn't work, require investment in others
- Schools have solar capacity - should they have to implement them?
- Residential - need more obvious EE incentives
- All public funded buildings should have a fossil fuel reduction plan - we've done schools, we've done fire stations but don't even follow what's in our comp plan today. Make them all geo-thermal or solar powered or something
- For grants awarded by the City -
- Other jurisdictions (Seattle, Tacoma) have lower emissions - they are 100% clean energy. Seattle City Light is all Hydro and we are not.
- Starting negotiations with PSE
- Costs could be a big incentive - still new tech solar panels will cost less, only pay once a year. Even if it looks cheaper initially - will be cheaper in the long run.
- More public education on solar.
- Efficiency first
- Aggregate demand - we're a well to do community - represent the fact that there are a lot of people who want solar, group purchase option?
- How do you get the word out - tell everyone how cost effective it is
- Schools should request solar from PSE (RFI Q4 2019)

- Micro grids
- Demand management technology deployed across the Island
- Criteria for measuring is not based on reducing the amount of electricity - with electrical ferries, electric cars - electric usage will go up
 - Want green power
 - Not necessarily reducing electricity but making it carbon neutral
- Library and schools and fire department need to be role models on energy usage. Even though beyond City jurisdiction
- Electrified BI Transit system that is on a regular schedule during the day as opposed to erratic service for commuters only.
 - Have certain hubs they would run out of - Lynwood, Bay Hay, Battlepoint. Do a shorter commute on your end, have a reliable pickup
- Resurrect Repower Bainbridge concept of home energy audits

Breakout Session:

Goals

1. Energy efficiency first - before generating clean, reduce demand
 - a. Least expensive
 - b. Awareness is key
2. Decarbonize the energy you do generate
 - a. PSE will be doing this because of state mandate
 - b. Could we do it faster and not just rely on PSE
 - c. Also have diesel, gasoline, propane that PSE is not responsible for
3. Resilience
 - a. Brownouts, blackouts, subjection zone event, earthquake/fire
 - b. What happens if you have no power - have elderly, sick, ADA for one reason or another

Within each bucket - what are the various ideas?

- CA is doing a great job of forecasting what may happen
- 8-year drought here - even though trees look green could have a real wildfire risk
- With PG&Es mandatory outages - need to look at undergrounding our wires to avoid sparks that trigger fires
- Could run closer to road so could have shoulder / pedestrian
- Cost is high - will take 10-15 years to do it - but cost of fires also very high
- Opportunity with the new lines PSE is proposing for reliability
- About half of the distribution system on BI is already underground
- Could UTC require undergrounding so it is part of the base cost.
- UTC would look at all the things they balance
- Climate impacts are going to play a larger role in regulatory decisions
- Local communities can set their own regulations for development - PSE infrastructure is a kind of development and some communities do require that. If those are the local rules, have to follow them.
- Opportunities for BI to work with PSE to do undergrounding projects on existing wires with a cost-sharing arrangement. That's available to communities now.
- Evaluate all projects to see where it makes sense to put things underground.

- If we don't think people will allow tree cutting to make a section more reliable, might make the choice to underground or harden the existing overhead system
 - PSE to provide real-time price feedback.
 - PSE tested out a time of use rate schedule. What they learned is people didn't change behavior much. If anything, some people paid more. A lot more capability today to monitor and adjust.
 - One of the proposals is to make available more demand side management from PSE. More opportunities to control how energy is used and when, recognizing that they need to be things that the consumer will tolerate.
 - Tiers for excessive users? Rates that are in place is what the commission is willing to accept
 - Internet of Things - all energy using devices become smart devices. Looking at marginal spot cost.
 - Will see newer applications try to drive how much energy is used when, not just how much is it costing but also to have a positive effect.
 - Is there a role for a larger utility system demand management system that would be effective at reducing overall usage?
 - Bringing in smart meters - a meter that could communicate two ways
 - One advantage is PSE knows for certain that your house has no power
 - Residents could take control back if needed
 - Mostly need more wires
 - Advanced metering infrastructure
 - Not just the meters but also the infrastructure for transmitting information between meters and the utility.
 - Receive points for using energy efficient measures - participating in demand management
 - PR Idea - explain that the blackouts in CA are the crudest form of demand management. They are doing that because they have to. We don't want to get to that point on BI, so here's what we have to do now to avoid that....
 - Term "battery" needs to be expanded to include all forms of energy storage (Thermal, Li batteries, Flow batteries (Vanadium))

Second Session Dec 11 6:30-8:30 PM BHS Library

Facilitator: David McCaughey Note Takers: Jane Lindley and Steve Johnson

Input from ~15 people and finally resulted in a smaller group of 5 people for a group discussion

Broad comments:

- Smart meters and Demand Management
- Carbon tax on all vehicles with MPG below 25 mpg
- Many "vacant homes" that are contributing to unnecessary kWh increases to the electric system, these are homes utilized as 2nd homes but have both lights and heating at high levels when vacant.
- All public buildings (schools, fire stations) to have solar PV (if properly sited and designed) and allow individuals to invest in these systems - community solar
- EV charging infrastructure for apartment buildings
- Encourage a "Home Share" program
- Better ventilation in homes - like heat exchangers

- Get an electric car with an inverter instead of a generator
- With increasing temps and lower H2O flows, be very scientific when analyzing dam removal (vs. emotional)
- Reduce tax-based energy emissions, increase income-based taxes
- Sidewalks
- Carbon tax increase on gasoline - to encourage conversion to electric
- Subsidize residential solar installs
- Group purchase of panels for residents to reduce capital costs
- Nuclear power - small scale plus in series
- Green Direct purchased for City operations
- Harnessing the heat released in the decomposition of organic matter?
- Develop solar infrastructure using Germany as a model
- Support for solar panels in the form of Community Solar (i.e. Harbor Square)
- Have community purchase programs to make it easier to purchase solar panels, batteries, electric cars and electric bikes
- Implementation of solar battery usage to phase out generators (charged during sunny months)
- Microgrids that would serve “Bainbridge Prepares” hub sites for warming/cooling sites
- Require smaller houses, demand public buildings follow State of WA standards (i.e. must be LEED)
- Bring back “Repower Bainbridge” with help from PSE
- Solar incentives
- Reduce fares on ferries for electric cars
- Harbor Square - Building Captains to implement warming/cooling center and community solar on roofs
 - Adaptive Load Management to allow for EV charging in similar buildings with common electrical infrastructure (condos, apartments)
- Contribute to a continental wide system of fast trains to reduce air travel
- Public Works projects - should encourage community sustainable development
- Lobby locally to be a test site/early adopter for electric driverless vehicle fleets
 - Proactively plan electric and parking infrastructure these vehicles
- Investing in sea-power (tidal, current)
- Solar panels on every appropriate roof-top/site

3.2 Transportation

First Session 1: December 7th

Facilitator: Mike Cox Note takers: Bobbie Morgan and Fran Korten

There were six general categories of comments:

Pk-Parking (especially for bikes)

I - Infrastructure (for safe walking, biking)

BC - Behavior Change (including incentives, enforcement, education)

PS - Partnerships (with various agencies and businesses)

PL - Planning (City code)

F -Fuels

PARKING

- Have secure biking option for Park and Ride sites

- Provide convenient, safe bike parking at all businesses and schools (free)
- Provide ground mounts for bike parking

INFRASTRUCTURE

- Make bus stops safer
- Make biking and walking safer for all ages
- Prioritize biking and pedestrian improvements that connect well-traveled locations
- Establish more developed, safe routes to school throughout the Island
- Make it very clear where to pick up a bus (poor signage currently) and leverage ___ to be more than commute trips
- In prioritization for bike/walk infrastructure, note populations based on #'s that use this, monitor kids and safety
- Bike lanes themselves must be safer ones
- Keep rural look and feel of transportation system
- Make walking, cycling comfortable, convenient and safe (protected but still direct)
- Make biking safer, shoulders, off road trails, lower speed limits for cars
- Walk-bike safety need to be targeted (i.e., charge parents to drop off kids)
- Create mobility hubs at neighborhood service centers to connect 'first and last mile'
- Trails are great if they can be direct
- People need safety and convenience

BEHAVIOR CHANGE

- Implement "library of things" to reduce off-Island trips and reduce deliveries
- Enforce "no-idling", especially at ferry, schools, municipal vehicles
- Consider charging for on-street parking
- Establish a baseline for car use on Island (count cars on roads)
- Incentivize EV use on Island
- Incentivize commuter trip reductions for employers (motivate)
- Create a website for ride-sharing and signed locations (a la San Juan Islands and Gulf Islands)
- Understand and educate parent about pick-up and drop-off kids at school (increased costs of driving to school)
- Fund via impact fees (increase) on development
- Encourage hitch-hiking (on-line approval of participants)
- Localize our lives (in context of higher education, travel for pleasure, family visits, etc.)
- Incentivize bus use by making car use expensive
- Utilize social media to build momentum for change
- Engage youth in relevant games, etc.
- Promote carbon offsets
- Incentivize telecommuting
- Use Public Service Announcements and publicity to promote these ideas
- Establish targets (specific: reductions of individual car use, etc.)
- Use tokens as rewards for positive transportation (i.e., Kitsap Transit gives them out for 'frequent riders')
- Encourage community events to promote clean ways of transit
- Incentivize employees for their travel
- Help people carpool to large public events

- Support local merchants to minimize off Island driving

PARTNERSHIPS

- Have BI Ride electric bus on regular schedule
- U-pass for Island (bus, ferry, etc.) with monetary incentive to make this cheaper
- Incentivize walk-ons at ferry and mobility hubs at neighborhood service centers
- Try to get City of Seattle to have 1st Ave bus back in service
- Raise the fee for cars on ferry and reduce for walk-on and bike
- Find ways to bring back essential local businesses (i.e., co-op?)
- Use tokens as rewards for positive transportation choices (i.e. Kitsap Transit 'frequent rider')
- Increase public transportation on weekends and evenings
- Amazing: use electric vehicles
- Provide public transportation especially to ferry, esp. weekends and broader geographic locations
- Promise to pressure airlines to go electric
- Create a local electric airport
- Engage schools in bike-walk planning (there is \$!)
- Implement a 'library of things' to reduce off-Island trips and deliveries
- Encourage smaller ferries for various trips
- Make bus stops safer (i.e., locations)
- Fund grant writer to fund expansion of bike-walk infrastructure
- Work with Kitsap County to expand E-V infrastructure
- BI Ride to Silverdale 3x week

PLANNING

- Put a climate lens on all transportation projects
- Clarify 'single use' vehicles miles traveled (per capita)
- Clarify alternatives to include walking and biking
- Make pedestrians the focus of goals to show paradigm shift
- Take away levels of service (infrastructure) for cars
- Reduce speed limits for cars
- 1st and last mile connections to transit (i.e. mobility on demand, some examples around the country)
- Find sources to expand funding for walk/bike projects
- Raise priority of walkability on city projects
- Increase parking fees at ferry and increase cost to take car on ferry
- Make this plan concrete with clear targets and dates for completion
- Research best practices for transit in small, rural communities
- Don't encourage multiple cars by allowing/requiring multiple parking spaces per household (i.e., 3-car garages)
- Increase density in core to make transit more feasible
- Multi-modal LOS to fund improvements
- Prioritize pedestrians and cyclists in city street standards
- Integrate an equity lens in how we plan for transportation (what works for everyone not only those who can afford) Consider community assets, access, cost.
- Require EV charging for all new developments as well as bike parking and increased bike parking all over the Island (i.e., schools, make it covered...)

- Public transportation requires 4,500 people/square mile (we are only 850/square mile), so we need to find out if people want to pay for what it would take?
- Be mindful that not all planning should be anti-car: self-driving electric cars will help.

FUELS

- Include various kinds of non-pollution fuels (i.e. biofuel, etc.)

Second Session: December 11th, BHS Library

Facilitator: Derik Broekhoff Note taker: Sandy Spears

Transportation ideas directly to CCAC member during the workshops

- Leverage non-motorized trails/sidewalks into or with one unified system
- Expand transit service during non-commuter times
- Start an electric bike ride share program

3.3 Buildings

First Session: Saturday December 7th: City Hall

Facilitator: Jens Boemer Note Taker: Brian Anderson and Sandy Spears

Suggestions climate mitigation and adaptation of buildings on Bainbridge Island

- In the BI carbon inventory, make estimates of energy consumption for BI more accurate.
- o People are concerned that our estimates based on state averages are not specific enough to BI

NEW BUILDINGS

- o Make sure the city uses transparent processes/best practices in determining any new building codes. They need to focus on resilience and sustainability.
- o Require Net Zero building standard for all new construction
 - Our code should encourage/require 'net zero energy homes' – homes that are so air-tight, well-insulated, and energy efficient that they produce as much renewable energy as they consume over the course of a year, leaving occupants with a net zero energy bill and a carbon-free home. Whole, integrated homes. Look at buildings as systems.
 - Build with 'Advanced Framing' (<https://www.energy.gov/energysaver/energy-efficient-home-design/advanced-house-framing>) 'Advanced house framing, sometimes called optimum value engineering (OVE), refers to framing techniques designed to reduce the amount of lumber used and waste generated in the construction of a wood-framed house. These techniques boost energy efficiency by replacing lumber with insulation material while maintaining the structural integrity of the home.'
 - Full lifecycle of materials taken into account.
 - CA every new residence has to be net zero by January 1. Focus on building enclosure. Can't have swiss cheese air sealing, more recycled materials less raw material, sustainable buildings, transparencies, how many carcinogens. Transparencies in materials.
 - Living Building Challenge <https://living-future.org/lbc/>
- o Solar ready homes.
- o City could provide marketing support for building net zero energy homes.
- o Encourage people to live in smaller homes. Discourage building larger homes.
- o Use local building materials
- o Use carbon neutral building materials

- o Reduce use of cement/concrete in construction because of its very high carbon footprint.
- o Permeable surfaces in surrounding areas
- o Encourage non-flammable roofs due to increased fire risk from global heating in the future
- o Don't build near shorelines
- o Capture rainwater
- o Allow subdivision of existing extra-large houses into separate residences
- o Preserve our forest cover. Discourage lawn installations. Encourage replacing disturbed construction sites with grass.

EXISTING BUILDINGS

- The city and/or private entities on Bainbridge, should apply for grants and subsidies for energy efficiency improvements for low-income residents
- The city could publicize best practices and tips for retrofitting homes to be more energy efficient
- City could fund energy audits for private residences
- Encourage commercial buildings to self-benchmark their carbon footprints. Building owners can compare costs with other building owners through databases like this.
<https://www.energy.gov/eere/buildings/building-performance-database-bpd>
- Assess energy use and conservation for every household. Many households can't/won't afford such a service. Find a way to facilitate household level energy inventories as input for retrofit prioritization.
- Train workforce around efficiency skills.
- PACE financing of energy efficiency upgrades- means of financing energy efficiency upgrades, disaster resiliency improvements, water conservation measures, or renewable energy installations of residential, commercial, and industrial property owners.
- Try to get PSE to provide monetary incentives for rooftop solar, efficient water heating, & heat pumps.
- Remove those that are on shorelines.
- For energy efficiency renovations we voted on whether we would prefer prioritizing mandates vs. incentives. The vote was about 50-50. Some suggested with use both
- Ask people to disclose their energy bills during the sale/purchase of a home. Publish benchmarks for home efficiency for buyers to compare against.

BOTH NEW AND EXISTING

- o BI can in fact set stricter energy efficiency guidelines than the state. (commenter is a former building contractor, RePower BI energy assessor, and seems to be all-around expert in building efficiency)
- o Encourage residents to use lighter colored roof surfaces when next replacing their roofs
- o Require new and retrofitted residences to be built electric vehicle ready
- o Require new and retrofitted residences to be built solar ready
- o Encourage use of a landscaping standard called SITES (<https://www.asla.org/sites/>). "The Sustainable SITES Initiative is a set of comprehensive, voluntary guidelines together with a rating system that assesses the sustainable design, construction, and maintenance of landscapes."
- o Take equity and affordability into consideration in the plan.
 - Use grants to provide funds to support low income retrofits
 - City should provide an energy efficiency fund for low income residents
 - Investigate county and state as a source of funds
 - Hire professional grant writers and fund raisers to get money for this.

- Study the Bloomberg City Climate Action Playbook Brief (10/19) for ideas that have been implemented in major US cities. <https://data.bloomberglp.com/dotorg/sites/2/2019/10/American-Cities-Climate-Challenge-Climate-Action-Playbook.pdf>

NEIGHBORHOODS

- Implement Community Solar projects, use open space on the Island for local solar power generation
- Build more walkable infrastructure within the city
- Coordinate planning with neighboring jurisdictions
- Build more affordable housing on the Island, have ambitious targets
- Building density
- Our plan should have targets relative to planning dates – not sure what this means other than possibly have more interim targets.
- Encourage people to use less stuff ala ‘Library of Things’, which is ‘collections of things other than books that are being loaned like books, for no charge. A library of things can loan out kitchen appliances, tools, gardening equipment and seeds, electronics, toys and games, art, science kits, craft supplies, musical instruments, recreational equipment, and more.’.
- Energy Star appliances
- Encourage people to not rent storage spaces.
- We need impact fees that reflect carbon generation (should be commensurate with what Poulsbo is doing).
- Break out energy efficiency targets by Residential, Commercial, and Industrial so we can have different target dates for each.

FUNDING

- o Kick off another energy Repower BI Program- federal grant program?
- o Involve non-profits and get grants
- o Better Bainbridge- TARP money was American Resource and Recovery ACT. ARRA funded weatherization programs. \$5 million grant. Pile of retrofits
- o PACE

Second session Weds December 11, 2019

Facilitator: Mike Cox Note Taker: Herb Hethcote

Energy Conservation

- Start a new Repower Bainbridge energy audits program to encourage energy conservation (insulation etc.)
- Introduce plants inside buildings for better air quality, decoration, and calming
- Encourage thermal shades and drapes to reduce heat loss through windows
- Use batteries to store power for later use in a home or community
- Build solar farms in sunny areas such as eastern Washington to generate power for use on Bainbridge
 - Encourage shared homes
 - Explore building underground to take advantage of geothermal and energy efficiency
 - Remodel large homes by pooling resources
 - Is the new building at the High School being built green?
 - Encourage geothermal heat pumps

- Use rooftop systems to heat liquids for heating homes and shower water
- Provide community resources for learning about energy efficient methods
- Encourage the use of clothes lines for drying clothes

Green Construction suggestions

- Provide incentives for building smaller homes
 - Build a database for benchmarking an Energy Star Portfolio
 - Have a depot of recyclable materials that can be reused by others
 - Encourage places for recycling building materials
 - Encourage use of low carbon materials (engineered wood, CLT, etc.)
 - Promote simple ideas for energy efficient homes (smaller homes, lower ceilings, more insulation)
 - Create a public list of builders who are good at renewable construction and remodeling
 - Publish the environmental impacts of construction choices such as concrete patio vs. gravel or pavers
 - Encourage geothermal designs for hot water and heating
 - Utilize black-body radiation from sun to heat water and buildings
- :
- Plant trees around athletic fields for shading/heat mitigation.
 - Educate property owners about use of low-impact lawn and landscape management like mulching over fertilizers, pesticides.
 - Realtors should be required to disclose risks of flooding due to SLR and other exacerbated hazards associated with climate change
 - No rebuilding in zones at high risk of inundation, hazard

City Code suggestions

- Stop granting waivers for buildings on steep slopes
- No rebuilding in areas of flooding (once and you are out) (flood insurance)
- expand vertically, not horizontally, “up, not out,” leaves more room for trees as carbon offsets
- Require 100% passive design for all new structures
- Require all new buildings to be in tune with the site and the environment
- Require new homes to be built green (LEED etc.)
- Require solar power on all new construction (residential, commercial, government)
- Require all new construction to be carbon neutral
- Require new buildings to be 100% electric (no propane) with induction cooking and limited connected load
- Require better air tightness and heat recovery ventilation in buildings
- Require garden spaces and walking paths in all new developments
- Require trees cut on building sites to be used for construction lumber
 - Require energy efficient windows in new buildings
 - Require LED lighting in all public buildings
 - Create incentives and requirements for green construction and use of low carbon materials
 - Require new homes to have solar panels (or an investment in community solar projects)
 - Allow gray water plumbing and composting toilets in homes

Offer classes

- Offer classes for builders and contractors to learn green building techniques
- Offer classes for homeowners to learn to manage septic systems

Miscellaneous

- Bainbridge should install Island wide car chargers to encourage electric cars
- Allow solar communities such as Grow to pool their excess power into community car chargers
- Put trees and vegetation on every story of a building as in Italian “tree buildings”

Building ideas given directly to CCAC member during the workshops

- Partner with local roofing contractors to provide information to home owners about solar options whenever a roof is replaced or significantly repaired
- Require the orientation of new home and commercial building design to be able to accommodate or be consistent with the use of solar panels
- Create and make easily accessible lots of information about how and where to consider home solar panels
- Help home owners do less resource intensive landscaping- provide information and incentives (water, chemicals, native plants, resilience to climate change...)

3.4 Waste

First session Dec 7: City Hall

Facilitator: Nora Nickum Note taker: Barbara Zimmer

Waste reduction action ideas from 12/7 workshop

- Encourage people to bring own containers for takeout at restaurants
- Regulate take-out containers
- Zero packaging at stores, including grocery stores
- Biodegradable and compostable alternatives
- Create a place to do commercial composting of compostable plastics
- Put a fee on single-use plastics
- Eliminate bottles and cups
- Reduce packaging
- Contact companies to reduce packaging
- Use methane digesters at transfer station
- Animal and food wastes compost station - support ordinance and help identify site
- Work with Zero Waste group
- Fine people who put trash into compost or recycling bins
- Conserve water
- Mandate composting of food waste
- Restaurants/stores/events compost
- Adding climate change/sustainability/green practices as a factor in City grantmaking decisions
- Support state policies to decrease/ban Styrofoam, packaging, single-use plastics
- Develop single-stream waste sorting of all waste
- Encourage re-use stores for furniture, clothes, etc.
- Work with Friends of the Farm to offer classes on composting at home
- Make recycling simpler/clearer
- Increase community education on recycling, composting, etc.
- Encourage BI disposal to provide more accurate info on their website
- Educate raise community awareness on reducing water use

- Educate/promote knowledge of % of cost for packaging/transportation – carbon labeling on products
- Support/expand programs like lending library and fix-it fairs
- Create a fibershed for clothing/fabric to repurpose older clothing
- Support creation of local businesses that eliminate need for Amazon, Office Depot, other big box stores. Bring back and use Paper Products shop, clothing for basics.
- Meet with local businesses to hear their hurdles and ideas, and encourage sharing ideas and lessons
- Fund/invest in a county/state plastic recycling industry
- Provide city space for things like lending libraries
- Funding for pickup of food waste from restaurants
- Involve local orgs and faith groups and encourage them to use zero waste resources like lending library
- Library of things for lending to individuals
- Urge WSF to renew on-ferry compost and make consistent with good signage
- Hydration stations at all parks to encourage use of reusable bottles
- More frequent opportunities to recycle Styrofoam
- Individual actions
 - Do comments on social media to urge companies to change
 - Patronize stores that have sustainable alternatives
 - Choose paper-wrapped products (or those with no packaging) rather than those with plastic packaging
 - Buy local

Second session Dec 11, BHS Library

Facilitator: Lara Hansen Note taker: Oona Bill

Input from ~8 people who passed through and an additional sustained group of 6 who stayed for the discussion

Waste reduction action ideas from 12/11 workshop

- Have more “rotary auction” type events throughout the year
- Work with state, regional to minimize the amount of wasteful shipping (planes and trucks divert small orders of small items)
- Work with shops/grocery stores to reduce packaging to zero waste; no single use items and all of it should be recyclable
- Renegotiate Bainbridge Disposal to allow unlimited recycle drop offs.
- Have Amazon take their boxes back or use drop-off locker so that we don’t have to use boxes
- Tax Amazon for online shipping, shopping and consumption.
- Local compost facility with biogas digester
- Tag items sold on Bainbridge Island with “Carbon Labeling”
- Create incentives for recycling our own trash
- Develop our own recycling plant so that we don’t have to ship waste elsewhere
- More sites on Bainbridge Island for home composting
- Have a lending library or a library of things
- Better education on recycling. For example, what our facilities accept and what waste they do not accept.



- Turn Waste into electricity
- Facilitate the use of reusable containers
- Encourage people to buy less new stuff
- Teach about safe composting
- “Repair Cafes”
- When developers or homeowners cut down trees, there should be a set location for all of the lumber to go and be re-used or buried to keep carbon from being oxidized.
- The community needs to be 100% responsible for its own waste (right now we are 0% responsible for the disposal of it)
- Requirements for compostable packaging in restaurants as well as grocery and retail stores.
- Encourage people to use their own containers for take-out food.
- Impress upon people that trash has costs that are not accounted for. Charge more for things that produce waste/trash and thereby incentivize people to reduce their consumption.
- Turn waste into building blocks for building
- Have restaurant composting
- Offer bi-weekly pick-up options for waste
- Division of material waste bins in public places sorted by color. The division of these materials should be in the following categories; glass, organic, paper, metal, general waste
- Ban all single use plastics on the Island
- Eschew packaging
- Offer cooking classes that teach people how to use the food they buy
- Compost bins on Winslow
- Encourage grocery stores to purchase more bulk items
- Capture methane from landfills to use as fuel

Additional waste reduction ideas **given directly to CCAC member during the workshops**

- Promote Zero Waste Bainbridge
- Develop a citizen guide for making climate smart choices on Bainbridge (based on science and facts- with specific reasons/explanation provided for why a particular choice is good)
- Provide more education/information about how to recycle properly

3.5 Forests, Agriculture, and Shorelines

First session Dec 7: City Hall

Facilitator: Deb Rudnick Note Taker: Stephanie Rose

input from ~10 people passing through and engaging in smaller group discussion

Second Session Dec 11: BHS

Facilitator Deb Rudnick Note-taker: Clair Paige

Input from approx. 8 people in dedicated group session- whole group stayed and engaged.

Broad comments:

- Consider using the word “manage” carefully. Nature can provide functions on its own without human “management”. A natural landscape is a more resilient one, one that can change over time.
- Land protection in relation to water resources protection and reduction of use can be mitigating.

- Are there carbon sequestration techniques we can bring to bear in land use policy and practice?
- The City could use a wildlife biologist on staff who could help respond to, address natural resource questions
- This isn't and shouldn't all be on the city- too much capacity, and to pay for- partnerships with community organizations needed
- Homeowners and citizens need more education on why natural resources are so important to climate change resilience. Egg, small wetlands.
- Population is an overarching driver of climate change- how do we address this as an Island? Population grows, impacts grow- as we saw in our greenhouse gas inventory.
- Need to protect limited water resources- more is needed on water conservation education.
- Create a strategy that property owners can participate in.
- Several comments spoke to lack of enforcement of extant city policies as a major issue for achieving objectives for both mitigation and adaptation. E.g., stop allowing waivers of setbacks on steep slopes;
- Recognize interconnectivity of sea level rise, water table, groundwater fluctuations, forest health, shoreline erosion, drowning of beaches and retreat of beachfront
- Help pollinators pollinate- important for all our natural systems and for agriculture
- Encourage and educate landowners about leaving wild areas wild
- Ban the selling of toxic products like Roundup

Forests and vegetation:

- Recognize the importance of the role of the landscape and natural vegetation in maintaining water quality and quantity in the face of climate change
- Provide a list of trees that will thrive in 2050-2100. Identify and educate about trees that may be of risk of near-term decline, like Douglas fir and cedar
- Leave city-owned open space open for serving ecosystem functions
- Maintain healthy forest ecosystems with a critical eye towards mitigating wildfire risk
- Need better systems for fighting forest fires- most of BI is on small wells, cannot handle water needs?
- Ecological services provided by forest should be considered in permitting, development process
- Concern about the impacts of herbicides and pesticides and their impacts on wildlife as a threat multiplier with climate change
- Thinking forward in terms of plant and tree selection, being proactive on pathogens and drought. Avoiding "flammable" species like scotch broom.
- What actions should the city take to reduce wildfire threat? One example- firework ban.
- Balancing firewise protection with protecting trees around the home.
- Develop incentives to improve forest management on Island, particularly poorly managed, dense regrowth stands that are high fire risk and low health.
- A tree planting or other forest conservation requirement for all students? Graduation requirement?
- More trees along Winslow Way

Shorelines:

- Seriously consider that some shoreline may need to change/inundate rather than assuming we must armor/fight it
- What resources do we have in place to measure and monitor shoreline erosion rates?
- What are the legal constraints of the Shoreline Management Act on reacting to climate change?

- How do we compensate individuals when shoreline retreat becomes necessary?
- Start a shoreline structure buy-out program to abandon, remove structures at risk from SLR. Look to King County and Vashon programs that address this.
- Help with advising for shore-friendly methods- how do we get this information to homeowners? City website, other social media.
- Learn from other communities facing sea level rise
- Hard armoring is not a long-term solution in the face of inevitable SLR
- Question/limit/restrict industrial aquaculture as a threat multiplier to shorelines

Agriculture

- Involve farmers and gardeners in climate change solutions
- Increase local food production to decrease energy, carbon footprint of food being transported to the Island: both commercial scale and personal
- Innovative thinking for small-scale agriculture that can localize food production- e.g., crops on roofs?
- Better manure management to reduce emissions from this sector
- Give homeowners ideas of what they can do in their own gardens
- Do we understand our current amount of local food production- can and should we have quantitative goals? Work with Friends of Farms.
- Land uses including agriculture, horticulture, farming are vulnerable - zoning changes may be needed
- Biochar and other techniques for sequestering carbon in soils should be researched, incentivized
- Emphasize regenerative agriculture not only for commercial farms but also for pea patches and gardens
- Investigate biogas production for co-location with ag

2.6 Other Ideas

Water Resources:

- Promoting grey water systems
- Raingardens, LID should be emphasized, encouraged, incentivized. Maybe a community award/recognition for these extra steps taken?
- Classes on septic health
- Public and private well ownership: focus on conservation measures, incentives to conserve
- Continue prioritizing groundwater development plan

City actions- not topic specific

- The City should declare a climate emergency and take more immediate and meaningful action
- City needs to make more systemic, structural changes to the way it conducts business to address climate change
- Change city codes and regulations so that the City can require rather than just encourage emission reductions and adaptation measures
- City should focus more on environmental destruction component
- Incorporate climate change into emergency preparedness
- Recognize the Rights of Nature and ecological impacts of [city and individual] decisions rather than just the present-day fiscal considerations. Acknowledge it is not just all about people

- Include key climate change data and sea level rise examples as part of the annual emergency preparedness exercise

No Specific Topic/General

- Have a volunteer High School youth member on the CCAC- maybe a one-year term
- Water should be a separate focus area in the CAP rather than buried in among the others
- Start a CAP day event annually
- Partner with the Bainbridge Island Women's Club to spread information.
- Bring the “heart” aspect into the discussion
- Add "Web of Life" as a sixth focus area in the Plan
- Promote sense of community in addressing climate change issues- for example encourage involvement through community work projects like building a rain garden.

Appendix C: Endnotes

Executive Summary

¹ City of Bainbridge Island GHG Emissions Inventory. [Final Findings Report, Cascadia Consulting Group Inc. 2019](#)

² Clean Energy Transformation Act, May 7th 2019. <https://www.commerce.wa.gov/growing-the-economy/energy/ceta/>

³ “carbon neutral” is not the same as carbon free—this transitional goal allows for a mix of fuels including natural gas, and also allows for 20% of the portfolio to be addressed by a combination of taxes, energy credits, and innovation in new energy technologies to offset carbon in the utility’s portfolio.

⁴ Reducing GHG emissions from Hydrofluorocarbons.

<https://app.leg.wa.gov/billssummary?BillNumber=1112&Year=2019&Initiative=false>

Section 1: Introduction

⁵ Hansen, L., S. Justus Nordgran and E. Mielbrecht. 2016. Bainbridge Island Climate Impact Assessment. EcoAdapt, Bainbridge Island. <https://www.cakex.org/documents/bainbridge-island-climate-impact-assessment>

⁶ IPCC, 2018: Summary for Policymakers. In: Global warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty. <https://www.ipcc.ch/sr15/>

⁷ Fourth National Climate Assessment. Volume 11: Impacts, Risks, and Adaptation in the United States. 2018. <https://nca2018.globalchange.gov/>

⁸ Mauger, G.S., J.H. Casola, H.A. Morgan, R.L. Strauch, B. Jones, B. Curry, T.M. Busch Isaksen, L. Whitely Binder, M.B. Krosby, and A.K. Snover. 2015. State of Knowledge: Climate Change in Puget Sound. Report prepared for the Puget Sound Partnership and the National Oceanic and Atmospheric Administration. Climate Impacts Group, University of Washington, Seattle. doi:10.7915/CIG93777D

⁹ <http://nas-sites.org/climate-change/summary.html#.XQPYt4hKi71>

¹⁰ Bainbridge Island Comprehensive Plan. <https://www.bainbridgewa.gov/162/Comprehensive-Plan>

¹¹ <http://icleiusa.org/programs/emissions-management/5-milestones>

¹² Central Puget Sound Regional Open Space Strategy 2015

<https://openspacepugetsound.org/sites/default/files/final-report/Regional-Open-Space-Strategy.pdf>

¹³ <https://obamawhitehouse.archives.gov/president-obama-climate-action-plan>

¹⁴ Affirming Bainbridge Island commitment to meet the our exceed the goals in the Paris Climate Agreement <http://apps.bainbridgewa.gov/webLink8/0/doc/70588/Electronic.aspx>

¹⁵ <https://www.wearestillin.com>

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- ¹⁶ <https://www.governor.wa.gov/issues/issues/energy-environment>
- ¹⁷ <https://www.bainbridgewa.gov/922/Climate-Change-Advisory-Committee>
- ¹⁸ https://www.bainbridgewa.gov/DocumentCenter/View/8183/Ord-2017_03--Ch-1519-Site-Assessment-Review?bidId=
- ¹⁹ *Supra* note 3, p. 21
- ²⁰ What are the RCPs? <https://coastadapt.com.au/sites/default/files/infographics/15-117-NCCARFINFOGRAPHICS-01-UPLOADED-WEB%2827Feb%29.pdf>
- ²¹ Mauger, G.S., J.H. Casola, H.A. Morgan, R.L. Strauch, B. Jones, B. Curry, T.M. Busch Isaksen, L. Whitely Binder, M.B. Krosby, and A.K. Snover. 2015. State of Knowledge: Climate Change in Puget Sound. Report prepared for the Puget Sound Partnership and the National Oceanic and Atmospheric Administration. Climate Impacts Group, University of Washington, Seattle. doi:10.7915/CIG93777D
- ²² *Id*
- ²³ RCR 2.6, 4.5, 6.0 and 8.5 are explained above. The IPCC published a set of climate scenarios in 2000 for use in the Third Assessment Report (Special Report on Emissions Scenarios - SRES). The SRES scenarios were constructed to explore future developments in the global environment with special reference to the production of greenhouse gases and aerosol precursor emissions. <https://sedac.ciesin.columbia.edu/ddc/sres/>
- ²⁴ NOAA. 2019. Seattle, WA-Station ID: 9447130. Retrieved from <https://tidesandcurrents.noaa.gov/stationhome.html?id=9447130>
- ²⁵ Miller, I.M., H. Morgan, G. Mauger, T., Newton, R. Weldon, D. Schmidt, M. Welch and E. Grossman. 2018. Projected Sea Level Rise for Washington State – A 2018 Assessment. A collaboration of Washington Sea Grant,
- ²⁶ A king tide is the highest predicted high tide of the year at a coastal location. It is above the highest water level reached at high tide on an average day. King tides are a normal occurrence once or twice every year in coastal areas. <https://www.epa.gov/cre/king-tides-and-climate-change>
- ²⁷ EPA. 2019. Climate Change Indicators: Coastal Flooding, Retrieved from <https://www.epa.gov/climate-indicators/climate-change-indicators-coastal-flooding>.
- ²⁸ NOAA. 2015. Digital Coast Sea Level Rise and Coastal Flooding Impacts Viewer. <https://coast.noaa.gov/slr>.
- ²⁹ Mauger, *supra* note 3, page 9-4.
- ³⁰ Conservation Biology Institute. Databasin. <https://databasin.org>
- ³¹ Mauger, *supra* note 3, page 9-5.
- ³² *Supra* note 3, p. 6-4
- ³³ What is Blue Carbon. NOAA National Ocean Service. Accessed July 16th 2020. <https://oceanservice.noaa.gov/facts/bluecarbon.html>
- ³⁴ Data from 2010 Census
- ³⁵ *Supra* note 1
- ³⁶ City of Bainbridge Island Greenhouse Gas Emissions Inventory, Final Findings Report, 2019, Cascadia Consulting Group Inc. <https://www.bainbridgewa.gov/922/Climate-Change-Advisory-Committee>

Section 2: GHG Emissions Inventory

- ³⁷ City of Bainbridge Island GHG Emissions Inventory. [Final Findings Report, Cascadia Consulting Group Inc. 2019](#)
- ³⁸ The Climate Registry. (2010). *Local Government Operations Protocol: For the quantification and reporting of greenhouse gas emissions inventories*.
- ³⁹ Except direct carbon dioxide emissions from biogenic sources.
- ⁴⁰ Other jurisdictions may use different data sets, methods, and years for their GHG emission inventories.
- ⁴¹ As indicated from U.C. Berkeley's *CoolClimate* Calculator. Outcomes from the consumption-based inventory analysis are presented at the per-household level because purchasing behavior is typically examined and analyzed at the household—not individual—level.
- ⁴² *Taming Bigfoot* provides an easy interface with a carbon-footprint calculator designed to convert a number of common things you do to the amount of greenhouse gas they cause. The conversion factors used can be specified

for specific local regions so the results apply to that specific region, rather than a broad average, as much as possible.

⁴³ CoolClimate Network. <https://coolclimate.berkeley.edu/>

⁴⁴ Energy Star Carbon Calculator. <https://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager/understand-metrics/how>

⁴⁵ ICLEI. Clearpath. <https://icleiusa.org/clearpath/>

⁴⁶ Clean Energy Transformation Act, May 7th 2019. <https://www.commerce.wa.gov/growing-the-economy/energy/ceta/>

⁴⁷ “carbon neutral” is not the same as carbon free—this transitional goal allows for a mix of fuels including natural gas, and also allows for 20% of the portfolio to be addressed by a combination of taxes, energy credits, and innovation in new energy technologies to offset carbon in the utility’s portfolio.

⁴⁸ Reducing GHG emissions from Hydrofluorocarbons.

<https://app.leg.wa.gov/billsummary?BillNumber=1112&Year=2019&Initiative=false>

Section 3: Energy

⁴⁹ Washington State Greenhouse Gas Emissions Inventory: 1990-2015. Report to the Legislature. December 2018. Publication No. 18-02-043. <https://fortress.wa.gov/ecy/publications/documents/1802043.pdf>

⁵⁰ PSE: Our Diversified Electricity Supply. <https://www.pse.com/pages/energy-supply/electric-supply>

⁵¹ Clean Energy Transformation Act, May 7th 2019. <https://www.commerce.wa.gov/growing-the-economy/energy/ceta/>

⁵² “carbon neutral” is not the same as carbon free—this transitional goal allows for a mix of fuels including natural gas, and also allows for 20% of the portfolio to be addressed by a combination of taxes, energy credits, and innovation in new energy technologies to offset carbon in the utility’s portfolio.

⁵³ 100% Commitments in Cities, Counties, and States. Sierra Club Home Page. Accessed February 5th 2019. <https://www.sierraclub.org/ready-for-100/commitments>.

⁵⁴ https://www.bainbridgewa.gov/DocumentCenter/View/4949/COBI-General-Sewer-Plan-July-2015---TOC_Executive_Summary?bidId= page ES-15.

⁵⁵ For further details, visit <https://www.pse.com/green-options/Renewable-Energy-Programs/renewables-home>

⁵⁶ LEED (Leadership in Energy and Environmental Design) is an ecology-oriented building certification program run under the auspices of the U.S. Green Building Council (USGBC). Rating systems are available for new construction and major renovations as well as existing buildings. The four LEED certification level designations are Platinum, Gold, Silver and Certified. Regardless of the certification level achieved, all projects must meet mandated prerequisites and then choose from 110 available credit points to reach the desired certification level.

⁵⁷ For further details, visit <https://psebainbridge.com/current-projects>

⁵⁸ For further details, including PSE’s detailed needs assessment and solutions reports, visit <https://psebainbridge.participate.online/>

⁵⁹ Example of programs including: Real-time feedback on usage potentially leading to TOU (time of use) pilot program and Smart Meters and other forms of demand management (EVs, washing machines, hot water tanks, cooling).

⁶⁰ Possible funding mechanism for Green Energy and Building Fund:

- Captured as a function kWhs consumed, or calculated carbon generation with an industry standard price per ton (Carbon Balance assigns \$15/ton as the value on carbon)
- A propane tax (per gallon or CO₂ generation ~[12.75](#) pounds per gal)
- A fuel oil tax (per gallon or CO₂ generation ~[22.36](#) pounds per gal)
- Grants that might be applied for by the Fund, a non-profit community stakeholder
- Donations and bequests
- License Plate Tabs (voluntary opt-in, mandatory for ICE vehicles flat or tiered by weight)
- Fund raising events (hosted by the Fund; organized by community organizations, schools, businesses, etc.)

Fund would be a committee of people from city, citizen and utilities/trades a non-profit open [process modeled](#) from similar municipalities.

⁶¹Examples of such programs include: 1) Real-time feedback on usage potentially leading to TOU (time of use) pilot program; 2) Smart Meters and other forms of demand management (electric vehicles, washing machines, hot water tanks, cooling); 3) customer-owned generation like roof-top solar to include assistance for condo associations to be supported in organizing projects; 4) Strong marketing campaign with local whitepapers of success; 5) A subsidized home energy efficiency retrofit program for low-income housing; and 6) Develop a tool kit and provide resources for homeowners to reduce energy use.

⁶² The Department of Energy defines a microgrid as “a group of interconnected loads and distributed energy resources within clearly defined electrical boundaries that acts as a single controllable entity with respect to the grid. A microgrid can connect and disconnect from the grid to enable it to operate in both grid-connected or Island wide. <https://www.energycentral.com/c/ec/achieving-resilience-through-renewables-driven-community-microgrids>

⁶³ <https://bainbridgeprepares.org/>

⁶⁴ Washington Clean Energy Fund. <https://www.commerce.wa.gov/growing-the-economy/energy/clean-energy-fund/>.

Section 4: Transportation

⁶⁵ Motorized travel includes all travel by motor-using vehicles, including internal combustion engines, electric vehicles, and alternative-fuel vehicles (e.g., fuel cell or hydrogen powered) – excluding active transport (e.g., pedal-assisted) vehicles such as e-bikes.

⁶⁶ Vehicle miles traveled per capita is calculated as the total annual miles of vehicle travel divided by the total population in a geographic region over a given period of time, typically a one-year period.

⁶⁷ Mode share is a transportation term that describes the number of trips, or %age of travelers, using a particular type of transportation (car, transit, bicycling, walking).

⁶⁸ Public transit is used to broadly mean services to encourage alternatives to single occupancy vehicles, and may include public-private partnerships and other solutions to offer more efficient transportation.

⁶⁹ <https://www.commerce.wa.gov/about-us/rulemaking/electric-vehicle-policies-and-laws/>

⁷⁰ <https://www.bainbridgewa.gov/708/Island-wide-Transportation-Plan-IWTP-Upd>

⁷¹ <https://walkbikebainbridge.com/resources> 71% of respondents rated the biking environment on Bainbridge Island very or somewhat unsafe; and 48% rated the infrastructure for walking in the vicinity of their home as bad or very bad (though in-town got good ratings); 65% of parents of school-age kids said their kids would walk or bike to school more often if there were safe infrastructure between home and school.

⁷² This includes reducing vehicle-miles driven by residents and non-residents, as measured per Island resident.

⁷³ Data from other cities show that such networks must include separated or protected biking and walking lanes.

Section 5: Buildings

⁷⁴ <https://www.governor.wa.gov/sites/default/files/documents/clean-buildings-policy-brief-bill-signing.pdf>

⁷⁵ Municipal buildings include buildings used for government related activities such as city halls, libraries, police stations, and schools that are over 5000 square feet. Residential buildings include single family homes, apartments, and condominiums. Commercial buildings include office buildings, warehouses, and retail buildings. Industrial buildings include buildings where products or materials are fabricated, assembled, or processed.

⁷⁶ The definition of what constitutes remodels or additions that would be required to adopt green building standards should be discussed by the Green Building Task Force. As an example, the City of Santa Cruz requires all remodels and additions with a combined square footage greater than 350 to utilize a checklist <http://www.cityofsantacruz.com/government/city-departments/planning-and-community-development/services/building-safety/green-building-program>

⁷⁷ <https://aiua.aia.org/courses/power-zero-optimizing-value-next-generation-green>

⁷⁸ LEED (Leadership in Energy and Environmental Design) is an ecology-oriented building certification program run under the auspices of the U.S. Green Building Council (USGBC). Rating systems are available for new construction

and major renovations as well as existing buildings. The four LEED certification level designations are Platinum, Gold, Silver and Certified. Regardless of the certification level achieved, all projects must meet mandated prerequisites and then choose from 110 available credit points to reach the desired certification level.

⁷⁹The Living Building Challenge is an international sustainable building certification program created in 2006 by the non-profit International Living Future Institute. <https://living-future.org/lbc/>

⁸⁰ <https://www.pse.com/rebates/home-energy-assessment>
<https://www.pse.com/rebates>

⁸¹ IBID

⁸² Task Force shall consider at a minimum the following: 1) Upgrade building code to require “solar + storage readiness” of new buildings that have sufficient solar exposure including solar heating capacity; 2) Adopt a definition of what sized municipal projects and what residential and commercial remodels and additions would be required to adopt green building standards; 3) Amend the City’s land use and development codes to implement green building codes and adapt to climate impacts; 4) Change building code to include electric vehicle readiness; 5) Create “no net increase” water and energy standard to maximize water and energy efficiency and support improved water and energy efficiency of other projects such that there is no net increase Island-wide in water or energy use created by the new project; and 6) explore using low-carbon concrete and other low-carbon building materials.

⁸³ EcoAdapt Climate Change Adaptation Certification Tool: Moving Cities from Planning to Implementation: EcoAdapt and Foresight Partners Consulting. December 2018. Accessed July 16th 2020.

https://www.cakex.org/sites/default/files/2018EcoAdapt%20CCAC%20Tool%20FINAL_SPREADS.pdf

⁸⁴ The Regional Code Collaborative built on the success of King County’s award-winning Sustainable Cities Program, a multi-jurisdictional group of planners and code officials from both within and outside of King County came together to leverage economies of scale in developing and updating green codes.

<https://kingcounty.gov/~media/depts/dnrp/solid-waste/green-building/documents/regional-code-collaboration-white-paper.ashx?la=en>

⁸⁵ Additional community entities that are important partners include Master Gardeners, Fruit Club, Sustainable Bainbridge, Kitsap Conservation District, and Friends of the Farms. All of these groups are important partners that can help our community steward natural and agricultural resources under climate change.

⁸⁶ Information such as, but not limited to: 1) Streams and wetlands data (e.g., Wild Fish Conservancy Stream Typing Data, Fish Culvert Passability data); 2) Bainbridge Island Climate Impact Assessment, Climate Change Adaptation Certification and other local source suggested climate data (e.g., sea level rise, precipitation, flooding, temperature, wildfire, slope stability) including mapping; 3) Tree health data; and 4) Ongoing surface and groundwater quality monitoring by the City’s Water Resources program and consultants.

Section 6: Natural Environment

⁸⁷ <https://www.cakex.org/tools/climate-change-adaptation-certification-tool>

⁸⁸ <https://www.bifd.org/firewise>

⁸⁹ This goal is focused on shoreline natural resources: shoreline infrastructure and buildings are addressed in other sections.

⁹⁰ A **foodshed** is the geographic area that produces the food for a given community. Local foodsheds can contribute to smaller carbon footprints by decreasing the distance over which food must travel from producer to consumer. Foodsheds can have ancillary benefits in terms of the quality and nutrient value of the food produced, as well as the freshness, which can cut down on food waste which is an additional contributor to greenhouse gas emissions.

Section 7: Waste

⁹¹ <https://www.bainbridgewa.gov/DocumentCenter/View/6770/Procurement-Policy-Resolution-No-2019-10-?bidId=>. See section 4.5, Environmentally friendly purchasing.

⁹² <http://www.sustainablebainbridge.org/bainbridge-Island-zero-waste.aspx>

⁹³ <https://www.cakex.org/tools/climate-change-adaptation-certification-tool>

Section 8: Community Engagement

⁹⁴ This action item is now complete. On June 9th, 2020 the City Council approved - Relating to Climate Emergency Resolution 2020-05. <http://apps.bainbridgewa.gov/webLink8/0/doc/92181/Electronic.aspx>

Section 9: Implementation

⁹⁵ Peter Plastrik, Joyce Coffee and John Cleveland, Innovation Network for Communities and Climate Resilience Consulting (July 2019).

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Section	Action #	Description	Type of Action (e.g., funding, education, information/outreach, code change, community partnership)	Other action	Co-benefits (e.g., public health, equity, job creation, quality of life, biodiversity)	Mitigation, Adaptation, or Both	COBI Lead	Resources Needed	CCAC Role	Potential Partners	Timeframe	Milestones and Targets	Comment	original order
GHG Inventory	2.A.1.a	COBI will work with the CCAC to improve the accuracy and site-specificity of data for GHG emission categories that are currently based on regional models (particularly vehicles and air travel).	Data	Funding	NA	Provides information to establish mitigation targets.		Staff time and possible funding for consultant	Support and review	University of Washington.	Short-term	2021: Identify possible avenues to collect more local data for next inventory.		1
GHG Inventory	2.A.1.a		Data	Funding	NA	Provides information to establish mitigation targets.		Staff time and possible funding for consultant	Support and review	University of Washington.	Short-term	2021: Start any more local data collection.		2
GHG Inventory	2.A.2.a	COBI will complete the next GHG emissions inventory by 2022 for the year 2021. Complete the next GHG emissions inventory for the year 2025 by 2026 and then complete a GHG emissions inventory every 5 years thereafter.	Funding		NA	Provides information to establish mitigation targets.		Staff time and possible funding for consultant	Support and review	BISD	Medium-term	2021: Work with BISD on their efforts to collect data.	municipal inventory	3
GHG Inventory	2.A.2.a		Funding		NA	Provides information to establish mitigation targets.	TBD	Staff time and possible funding for consultant	Support and review	BISD	Medium-term	2021: Begin next GHG inventory.		4
GHG Inventory	2.B.1.a	COBI, working with the CCAC, will approach academic institutions for assistance to plan more rigorous analysis methods, including ground-truthing of tree inventories. Collaborations may include student apprenticeships, student thesis research opportunities, or collaborative research grant proposals. Consider also joint studies with BILT.	Data	Funding	NA	Provides information to establish mitigation targets.		staff time estimate	Support and review	BILT, BIMPD, University of Washington.	Long-term	2021: Discuss possible strategies at CCAC meetings.		5
GHG Inventory	2.B.1.a		Data	Funding	NA	Provides information to establish mitigation targets.	N Snyder	staff time estimate	Support and review	BILT, BIMPD, University of Washington.	Long-term	2022: Engage with other partners on conducting analysis.		6
Energy	3.A.1.a	All COBI projects (e.g., Police Station, WWTP improvements) adopt requirements to maximize energy efficiency and reduce total energy demand whenever feasible (e.g., variable frequency drives in HVAC systems, heat recovery systems, and dedicated outdoor air systems).	Code change	Funding	Air Quality	Mitigation	PW/PDC	Climate Crisis Proclamation	TBD	Shift Zero	2020	2021: Council accepted terms		7
Energy	3.A.1.b	Work with PSE to: 1) raise awareness about existing rebate and assistance programs that will increase access to energy conservation and efficiency programs, focusing on low-income households and nonprofit organizations; 2) explore creating new incentive/rebate programs; and 3) develop a local program to encourage homeowners that have sufficient potential to acquire customer-owned generation like roof-top solar and small wind turbines.	Community partnership	policy	Air quality and equity	Mitigation	TBD	Marketing and outreach from COBI	Work with PSE and COBI	PSE	Long-term	2020: Establish new programs and raise awareness of existing programs.		8
Energy	3.A.2.a	Use the Green Energy and Building Fund to provide incentives to building owners and residents to increase electrification conversions and battery storage and to assist in energy audits for residential home projects, including affordable housing (e.g., install energy conservation measures, provide financial incentives for existing building owners to transition from propane, fuel oil, and wood stoves to all electric buildings).	Funding	Education	Air quality and equity	Both	Finance	Determine source of funding, eligibility for use, tracking, etc.	facilitator, committee position	Creation of nine-person grant committee to build the grantmaking program and fund clean energy community benefits projects	2021	2020: Development of committee and eligibility and scoring criteria	Portland Fund, Minneapolis	9

Energy	3.B.1.a	Work collaboratively with PSE, via the PSE Franchise agreement update and other mechanisms, to move towards a 100% carbon-free electrical supply, preferably sooner than the Washington State mandated goals.	Outreach	Community partnership	Air quality and equity	Mitigation	Joe Levan/ Morgan Smith		Partner		2021	2020: Begin to compile relevant options/approaches	Minneapolis Experience	10
Energy	3.B.1.b	Work with PSE and others to develop incentive programs to increase installation of renewable energy and passive photovoltaic (PV) solar or other technologies on new and existing buildings.	Community partnership	Funding	Equity	Mitigation	Solar use - PCD		Lead	PSE	2021	2021 Q1: Develop comprehensive list of state and local programs	crosswalk other programs in US	11
Energy	3.B.1.c	Adopt a policy that prohibits propane, fuel oil, and wood stoves as the primary energy source for all new municipal, commercial, industrial, and residential buildings and in renovations and additions over a certain size.	Code change	Policy	Public health and air quality	Mitigation	Planning	Ordinance to amend BIMC	Attend GBTF and work with COBI staff.	Same as above	Long-term	2023: All new buildings all electric		12
Energy	3.B.1.c		Code change	Policy	Public health and air quality	Mitigation	Planning	Ordinance to amend BIMC	Attend GBTF and work with COBI staff.	Same as above	Long-term	2030: All existing buildings all electric		13
Energy	3.B.1.d	Develop incentives for existing commercial, industrial, and residential buildings to replace propane, fuel oil, and wood stoves as their primary heating sources.	Funding	Education	Equity	Mitigation	Planning	Depends on incentive - either new funding or staff	Work with COBI staff.	Same as above	Long-term	2023: Program developed and implemented.		14
Energy	3.B.2.a	Develop and hold trainings/workshops for Island and neighboring communities' builders, contractors, architects, and homeowners that can help Bainbridge Island to implement the fuel-switch from carbon-based to electrification of the building stock.	Outreach		Awareness	Both	PCD/Outreach	ASHRAE	Lead	Green Building Comm	2021	2021: Work with Green Building Task Force to develop trainings and workshops.		15
Energy	3.B.2.a		Outreach		Awareness	Both		minimal \$\$ for venue and supplies	Lead	Green Building Comm	2021	2022: Ready to rollout		16
Energy	3.C.1.a	Work with PSE to develop a local program to encourage homeowners, businesses, and other entities like BISS, BIMPRD, and BIFP to acquire customer-owned generation like roof-top solar and small wind turbines.	Outreach		Public health and air quality	Mitigation		in coordination with 3.B.1.b	Lead	PSE	2021	2022: Initiate discussions		17
Energy	3.C.1.b	Research and develop microgrids for community Bainbridge Disaster Hubs (City Hall, Seniors Center, Bainbridge Island School District (BISD), Island Wood) in partnership with PSE and Bainbridge Prepares	Task		Preparedness	Adaptation	Anne LeSage	WSU Energy Program	Facilitator	Bainbridge Prepares	2022	2025: Half of the hubs resilient		18
Energy	3.C.2.a	Work with partners (e.g., PSE) to determine the feasibility of developing large-scale neighborhood microgrids with customer-based storage or utility-scale energy storage, or a combined heat and power biodigester sited adjacent to the community pool.	Community partnership		Preparedness	Adaptation	PDC/ Communications	IDEA, UW, WSU	Lead	UW, WSU, Dept of Commerce	Medium-term	2030: Strong examples established and documented		19
Transportation	4.A.1.a	Through the Sustainable Transportation Planning Process and other means, develop an ambitious plan to create networks of pathways required to achieve a substantial mode shift to biking and walking, including separated or protected biking and walking lanes	Code change	Funding	Public health, equity, and quality of life	Both	Planning and Public Works if any City projects		Attend STTF meetings	Bainbridge Greenways, Squeaky wheels	Short-term	2021: Work with STTF to develop plan		20
Transportation	4.A.1.b	Increase City staff time or hire a consultant to enhance the City's capacity to identify and apply for sources of funding (such as federal grants for Safe Routes to Schools and public private partnerships for the needed infrastructure).	Funding		Public health, equity, and quality of life	Both	Finance & Admin	Will need to discuss with COBI staff			Ongoing	2022: Identify sources of funds for position and advertise.		21

Transportation	4.A.1.c	Explicitly consider climate change mitigation (e.g., greenhouse gas reductions) when evaluating options as the City develops its Sustainable Transportation plan.	Task		Public health, equity, and quality of life	Mitigation	Planning		Attend STTF meetings		Ongoing	2021: Ensure climate change is considered as part of STTF.		22
Transportation	4.A.2.a	Require incorporation of non-motorized transportation options into all new development, e.g., by including sidewalks or pedestrian trails linked to existing and planned trail/sidewalk networks; incorporating bicycle lanes and trails; etc.	Code change	Funding	Public health, equity, and quality of life	Adaptation	Council, Planning	Will need to discuss with COBI staff	Provide expertise when requested		Short-term	2022: Incorporate non-motorized requirements in to permitting process.		23
Transportation	4.A.2.b	Require all new development, and improve existing connections between developments, to accommodate non-motorized and public transit transportation options (including incorporation of bus shelters and other amenities).	Code change	Funding	Public health, equity, and quality of life	Adaptation	Council, Planning		Provide expertise when requested		Short-term	2022: Incorporate non-motorized requirements in to permitting process.		24
Transportation	4.A.3.a	In consultation with Kitsap Transit, develop a robust marketing/outreach/educational program to inform island residents and those who traverse the Island from outside about public transit options, including park and rides (including, for example, information for island visitors on bus/transit routes & options).	Outreach	Community partnership	Public health, equity, and quality of life	Adaptation	Community outreach coordinator	Will need to discuss with COBI staff	Participate in community workshops	Kitsap Transit	Ongoing	2021: Work with Kitsap Transit to develop plan.		25
Transportation	4.A.4.a	Work with BISD on measures to discourage private-vehicle drop-offs and pick-ups, encourage car-pooling, biking and walking and promote greater use of school buses.	Outreach	Community partnership	Public health, equity, and quality of life	Both	Community outreach coordinator		Support City in discussion with BISD	BISD, Climate Action Bainbridge	Short-term	2021: Develop plan with BISD		26
Transportation	4.B.1.a	Transition COBI's fleets to primarily electric vehicles and using biofuels where electric vehicles are not an option and encourage other Bainbridge Island taxing districts to also develop a plan.	Funding		Public health	Mitigation	Public Works	Will need to discuss with COBI staff	Provide expertise when requested		Long-term	2022: Develop long-term strategy for transitioning to all electric fleet.		27
Transportation	4.B.2.a	Evaluate current code to see if need to modify to increase the number of EV-charge stations ready for all new development, major renovations and that multifamily units and commercial development include EV charging infrastructure.	Code change		Public health	Both	Council, Planning		Provide expertise when requested	PSE	Short-term	2022: Establish requirements in permitting for EV charging stations.		28
Transportation	4.B.2.b	Install additional charging stations in commercial centers, including Island Village, Coppertop, Lynwood Center.	Code change	Funding	Public health	Both	Public Works	Will need to discuss with COBI staff		PSE	Medium-term	2022: Work with PSE and others to add charging stations.		29
Transportation	4.B.3.a	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.	Outreach	Community partnership	Public health	Both	Public Works?	Will need to discuss with COBI staff	Provide expertise when requested	WSF	Long-term	2022: Develop plan with WSF to ensure infrastructure for charging ferries.		30
Transportation	4.B.4.a	Adopt a city-wide anti-idling ordinance that includes an enforcement component and work with the WSF and State Patrol to reduce idling at the ferry parking lots.	Ordinance	Outreach	Public health	Both	Council	Support from legal	Support development of anti-idling ordinance,	WSF, State Patrol, BISD and Climate Action Bainbridge	Short-term	2021: Develop ordinance for city-wide anti-idling.		31
Transportation	4.B.4.a		Ordinance		Public health	Both	Council		Support development of anti-idling ordinance,	WSF, State Patrol, BISD and Climate Action Bainbridge	Short-term	2022: Develop ordinance with WSF for ferries.		32
Transportation	4.B.5.a	Work with partners (e.g., Climate Action Bainbridge and Puget Sound Clean Air Agency) to provide public information on benefits of reducing air travel.	Outreach	Community partnership	Public health	Both	Community outreach coordinator	Will need to discuss with COBI staff	Participate in community workshops	Climate Action Bainbridge and Sustainable Bainbridge	Ongoing	2021: Hold a forum on air travel in collaboration with the Climate and Energy Forum.		33
Transportation	4.B.5.b	Work with service providers to to help our community develop and maintain the digital infrastructure it needs to enable more virtual meetings.	Outreach	Community partnership	Equity	Adaptation			Work with UAC	Utility Advisory Committee	Ongoing	2022: Develop plan with UAC on improving digital infrastructure on the Island.		34
Buildings	5.A.1.a	Adopt Green Building Task Force recommendations on green building practices and standards for all new municipal, commercial, industrial and residential building and all renovations and additions over a certain size	Code change	policy	Air quality	Both	Planning and Public Works if any City projects.	Will need to discuss with COBI staff	Attend GBTF meetings.	Planning Commission, Design Review Board, Affordable Housing Task Force, Housing Resource Board and GBTF	Long-term	2020: Recommendations from GBTF		35

Buildings	5.A.1.a		Code change	policy	Air quality	Both	Planning and Public Works if any City projects.	Will need to discuss with COBI staff	Attend GBTF meetings.	Planning Commission, Design Review Board, Affordable Housing Task Force, Housing Resource Board and GBTF	2022	2022: Adopted Green building standards for all buildings.		36
Buildings	5.A.1.b	Require all new and renovated buildings to apply the EcoAdapt Climate Change Adaptation Certification Tool , or similar tool, to identify and avoid climate risks as part of the permitting process.	Code change	Education	Equity	Both	Planning	Same as above.	Attend GBTF and work with COBI staff	Same as above	Long-term	2023: Apply tool to all building projects		37
Buildings	5.A.2.a	Develop training and outreach programs to provide technical assistance to developers, contractors, architects, landscape architects, city employees, and homeowners on green building that includes the cost/benefit to occupants of green building, use of reused and recycled materials, and the health benefits from green buildings to occupants.	Staff time	Funding	NA	Both					Medium-term	2021: Work with Green Building Task Force and others to develop program and implement in 2022.		38
Buildings	5.A.2.b	Work with the BISD, BIMPD, and BIFD to ensure any new buildings they build consider green building standards and practices adopted by COBI.	Community partnership		Public health and equity	Both					Ongoing	2022: Initiative discussions.		39
Buildings	5.B.1.a	As recommended by the 2019 CCAC Report on Sea Level Rise, conduct a systematic, high-resolution analysis of exposure of City assets to sea level rise;	Task	Funding	Public health and equity	Adaptation	GIS, Planning and Public Works	Need to discuss with COBI staff	Provide expertise when requested	University of Washington, local experts.	Short-term	2022: Complete an analysis for all COBI assets at risk from sea level rise.		40
Buildings	5.B.1.b	As recommended by the 2019 CCAC Report on Sea Level Rise create a prioritized list for addressing COBI assets at high risk of sea level rise (e.g., roadways that are expected in the coming decades to be sufficiently flooded that they will not be functional for motorized transit.)	Task	Staffing	Public health and equity	Adaptation	GIS, Planning and Public Works	Need to discuss with COBI staff	Provide expertise when requested	University of Washington, local experts.	Short-term	2023: Complete a prioritized list for COBI assets.		40.1
Buildings	5.B.1.c	As recommended by the 2019 CCAC Report on Sea Level Rise integrate sea level rise analysis into all City planning to identify and avoid or minimize risk to planned infrastructure and development.	Policy		Public health and equity	Adaptation	GIS, Planning and Public Works	Need to discuss with COBI staff	Provide expertise when requested	University of Washington, local experts.	Short-term	2025: Integrate sea level analysis into City decision making as part of the SMP updates.		40.2
Buildings	5.B.2.a	Conduct a high-resolution analysis of all shoreline properties to inform landowners of exposure to sea level rises, make this information widely available for property owners to use in decision-making, and provide guidance on possible solutions and regulatory requirements.	Task		Public health	Adaption				Local experts		2024: Initiate analysis and complete for 2025 SMP updates		
Buildings	5.B.2.b	COBI integrates sea-level rise analysis into all City permitting to help applicants identify and avoid or minimize risk to existing infrastructure and land uses and planned infrastructure and development from sea level rise or other climate impacts.	Code change	Education	Public health and equity	Adaptation	GIS, Planning and Public Works	Need to discuss with COBI staff	Provided expertise when requested.	Local citizen groups.	Short-term	2023: Complete an analysis of vulnerable properties and hold community workshops.		41
Buildings	5.B.2.c	COBI hosts community workshops on climate impacts, how they might impact buildings, and how to prepare buildings for these impacts.	Outreach	Staffing	NA	Adaptation	Community outreach coordinator and Planning.	Need to discuss with COBI staff	Participate in community workshops.	Local citizen groups.	Short-term	2022: Initiate workshops.		42
Natural Env.	6.A.1.a	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. If data sources are missing, identify how to obtain needed information.	Data		biodiversity, conservation management	adaptation	Planning and public works	COBI staff allocation, partnering organizations	Advisory	BILT, BIMPRD, Islandwood, Sustainable Bainbridge	Ongoing	-Partners identified, once data gaps identified, timeline for addressing data gaps		43

Natural Env.	6.A.1.b	Develop and adopt a comprehensive strategy for addressing invasive species on City lands to reduce these significant stressors on ecosystems.	Policy	Funding	biodiversity, hydrologic integrity, conservtaion management	both	Public Works	GIS	Advisory	BILT, BIMPRD, Invasive Weed Collective[1]	Ongoing	Partners identified, once data gaps identified, timeline for addressing data gaps		44
Natural Env.	6.A.1.b	-Comprehensive strategy adopted with targets for eradication and control	Policy	Staffing	biodiversity, hydrologic integrity, conservtaion management	both	Public Works	MOUs with appropriate agencies	Advisory		Medium-term	-Comprehensive strategy adopted with targets for eradication and control		45
Natural Env.	6.A.1.b	-Mapping implemented	Staff time	Funding	biodiversity, hydrologic integrity, conservtaion management	both	Public Works		Advisory		Short-term	-Mapping implemented		46
Natural Env.	6.A.1.c	Evaluate all COBI land acquisition and development decisions for City lands or in City review of private development using the EcoAdapt Climate Change Adaptation Certification Tool (or other similar tool) to ensure decisions are climate informed.	Code change	policy	NA	Both	Exec/PCD	CCAC tool	Advisory	EcoAdapt	2021	-At time of inventory updates, conduct permit and development review to evaluate compliance		47
Natural Env.	6.A.2.a	Work with COBI 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.	Task		biodiversity, hydrologic integrity, conservtaion management	Adaptation	City Arborist	Marketing and dissemination of completed list	Advisory	BILT, BIMPRD, Sustainable Bainbridge	2021	-Completed list that is updated at regular intervals. -List is available on City website, from partnering organizations, and as a brochure		48
Natural Env.	6.A.3.a	Conduct an assessment of stocking densities on COBI owned lands and evaluate forest health improvements and wildfire risk reduction.	Funding		biodiversity, hydrologic integrity, conservtaion management	Adaptation	City Arborist	Professional contractor may be needed	Advisory	BIFD, BIMPRD, BILT	2025	-All City owned lands have been assessed and plans for management established and funded		49
Natural Env.	6.A.3.b	Ensure that COBI policies prioritize wildfire risk reduction in proximity to homes consistent with FireWise guidelines[i] and strengthen wildfire risk-reduction design guidelines for Island construction (residential and business) using approaches such as reviewing new subdivision standards for opportunities to integrate wildfire risk reduction.	Policy		NA	adaptation	Emergency Management/PCD		Advisory	BIFD	2022	-Code review and update to ensure design guidelines are up to date and strengthened to reduce wildfire risk		50
Natural Env.	6.B.1.a	Incentivize and maximize opportunities for incorporating water conservation features in Green Design and Building Codes (see Buildings Section Goal A).	Code change	Education	hydrologic integrity, water quantity	adaptation	PCD, Green Building Task Force, PCD, Public Works Water Resources		Advisory (secondary to Green Building Task Force)	Green Building Task Force	2022	-Code review and update to ensure design guidelines are up to date and strengthened to identify water conservation opportunities		51
Natural Env.	6.B.1.b	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 into monitoring climate change-sensitive parameters as appropriate.	Staff time		biodiversity, hydrologic integrity, conservation management	adaptation	Public Works Water Resources Program	Ongoing funding	Advisory	ETAC, public volunteers, BI Watershed Council	Ongoing	SW monitoring program is reviewed and identified climate paramaters are added to ongoing monitoring		52
Natural Env.	6.B.2.a	Complete and implement COBI's Groundwater Management Plan, including incorporation of expected changes to groundwater inputs and outputs under climate change.	Staff time	Funding	biodiversity, hydrologic integrity, conservation management	adaptation	Public Works	Ongoing funding	Advisory	ETAC	2023	-Completed GW management plan has been adopted by the City		53
Natural Env.	6.C.1.a	Ensure that planning for sea level rise on the timeframe relevant to any proposed action's lifetime impact is explicitly incorporated into the Shoreline Master Plan, including incorporating capacity for inundation and change to natural shoreline features, such as planting for shifting vegetative communities, infrastructure movement or abandonment to adapt to habitat loss at shoreline.	Code change	Community partnership	biodiversity, conservation management	adaptation	Planning staff		Advisory	ETAC, BILT, BIMPRD, Sustainable Bainbridge	2021	SMP review and update has explicitly incorporated sea level rise into document		54

Natural Env.	6.D.1.a	Work collaboratively with individual farmers and community groups including Friends of the Farms, Master Gardeners, and Kitsap Conservation District to identify and promote agricultural policies that increase carbon storage (e.g., soil sequestration) and hydrologic integrity, and reduce emissions including permaculture and reduced energy inputs (e.g., fertilizer, fossil fuels).	Staff time	Funding	Agricultural sustainability, quality of life, economic resilience, hydrologic integrity	Both	Executive, Planning		Advisory	Friends of the Farms, Sound Food, Farmers Market	Ongoing	-Code review and update to ensure design guidelines are up to date and strengthened to support sustainability of agricultural activities		55
Natural Env.	6.D.2.a	Work collaboratively with Kitsap Conservation District to offer technical resources to livestock owners for manure management. Consider development of a memorandum of understanding and funding to support additional manure management efforts.	Community partnership		water quality	Mitigation	Need to check jurisdiction			Kitsap Conservation District, Friends of the Farms	2021	-Manure management is written in to City Code		56
Waste	7.A.1.a	Centralize purchasing within COBI to increase consistent adherence to COBI's sustainable procurement policy.	Task		N/A	Mitigation	Executive	Will need to discuss with COBI staff	Advisory	BIZW	Short-term	2020: Clear communication to all staff about importance of adhering to sustainable procurement policy		57
Waste	7.A.1.a		Task	Staffing	N/A	Mitigation	Executive	Will need to discuss with COBI staff	Advisory	BIZW	Short-term	2021: Purchasing centralized		58
Waste	7.A.1.a		Task	Staffing	N/A	Mitigation	Executive	Will need to discuss with COBI staff	Advisory	BIZW	Short-term	2022: Review of compliance with sustainable procurement policy		59
Waste	7.A.2.a	Adopt an ordinance to reduce the use of single-use plastic food serviceware, including utensils and take-out containers, by all Island food service establishments.	Ordinance		Environment / litter reduction	Mitigation	Executive		Provide feedback on draft ordinance	BIZW	Short-term	2020: Adopt ordinance		60
Waste	7.A.2.a		Ordinance		Environment / litter reduction	Mitigation	Executive		Provide feedback on draft ordinance	BIZW	Short-term	2021: Ordinance takes effect		61
Waste	7.A.3.a	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.	Outreach		Public health	Mitigation	Executive	Funding for outreach materials	Support outreach efforts	BIZW	Short-term	2021: Host a workshop with Climate and Energy Forum on food and food waste.		62
Waste	7.B.1.a	Work with BD to offer curbside compost pickup for all commercial facilities as a weekly service.	Community partnership		Environment / litter reduction	Mitigation	Executive		NA	BD, Chamber of Commerce	Short-term	2021: Formal discussions with BD		63
Waste	7.B.1.a		Community partnership		Environment / litter reduction	Mitigation	Executive		NA	BD, Chamber of Commerce	Short-term	2021: Support BD in developing a plan for service offering		64
Waste	7.B.1.b	Require that all commercial entities participate in the green waste program once established and participate in recycling.	Ordinance		Environment / litter reduction	Mitigation	Executive			BD, Chamber of Commerce	Long-term	2022 or within 3 months after service established: Ordinance passed		65
Waste	7.B.2.a	Require, and where appropriate provide incentives for, the reduction, collection and diversion of construction and demolition waste. Seek specific recommendation from the City's Green Building Task Force on this action.	Code change		Environment / litter reduction	Mitigation	Executive/Finance			BD, BIZW	Ongoing	2021: Consultant with the Green Building Task Force on timeline.		66
Waste	7.C.1.a	Evaluate and support opportunities to better accommodate on-island or more local processing of green waste (e.g., through amendments to municipal code and allowed uses).	Code change		Job creation	Mitigation	Public Works, Executive		Assist in identifying potential opportunities and evaluating for mitigation and adaptation impacts	Private entities and BD	Long-term	2025: Location for infrastructure up and running.		67

Waste	7.D.1.a	Apply the EcoAdapt Climate Change Adaptation Certification Tool to any new waste-related infrastructure projects.	Task	Staffing	Public health	Adaptation	Public Works		Available to advise City staff on Certification process, as needed	EcoAdapt	Short-term	2020: Certification applied to any new waste-related infrastructure projects		68	
Community Engagement	8.A.1.a	Develop a dedicated climate change webpage on the City's website including links to climate mitigation/adaptation resources on the CCAC website and make the CAP widely and easily available to all in the community on-line and in print formats (copies at the library along with GHG inventory, Sea Level Rise analysis and Bainbridge Island Climate Impact Assessment that will be updated periodically by members of the CCAC).	Task		NA	Adaptation	Executive		Help provide content	Library, High School for distribution	Short-term	Within one month of CAP approval and maintained thereafter		69	
Community Engagement	8.A.1.b	Consult with the Equity Task Force to ensure outreach efforts and education materials are designed and implemented to reach all segments of the Bainbridge community. See also Section 9: Implementation Action 9.B.1.a.	Task	Materials	Equity	Both	Executive		Support		Short-term		Completion of outreach materials and materials distributed.		
Community Engagement	8.A.2.a	Include a climate change tip of the [month] as a regular feature in the City Manager's report and on social media.	Task		NA	Both	Executive		Help provide content		Ongoing		Begin late 2020 and continuing thereafter		70
Community Engagement	8.B.1.a	Declare a climate emergency.	Resolution		NA	Both	City Council		Helped draft		Short-term		Completed		71
Community Engagement	8.A.1.b	Be a regional leader in recognizing the important role that municipal governments can play in taking action to respond to climate change.	Outreach	Community partnership	NA	Both					Ongoing		Initiate 2020 and ongoing		72
Community Engagement	8.B.1.c	Work cooperatively with other jurisdictions in Kitsap and King Counties (e.g., Poulsbo, Silverdale, Kingston, Bremerton, Seattle) and throughout Puget Sound to find regional solutions including mitigation and adaptation actions that would benefit from economies of scale or the sharing of lessons learned.	Outreach	Community partnership	NA	Both	Executive		Provide expertise/advise when requested	Representatives from Kitsap and King Counties and Poulsbo, Silverdale, Kingston, Bremerton, Seattle	Ongoing		Initiate in 2021 and ongoing thereafter		73
Community Engagement	8.B.2.a	Host workshops with hands-on demonstrations for community members to learn how to take specific actions (e.g., 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).	Outreach	Staffing	Equity	Both	Executive, CCAC	Funding for outreach, staff time and materials	Provide expertise when requester, support outreach efforts	Local citizen groups	Short-term		Begin early 2021 and ongoing thereafter		74
Community Engagement	8.B.2.b	Host events for community project(s) to bring people together to work towards mitigation and adaptation (e.g., building a community rain garden, working on a trail, making signs for bike/pedestrian routes, pulling ivy, planting climate resilient plants, and constructing community pea patch).	Outreach	Staffing	Equity	Both	Executive, CCAC	Funding for outreach staff time and materials	Provide expertise when requester, support outreach efforts	Local Citizen groups	Short-term	Begin early 2021 and ongoing thereafter		75	
Community Engagement	8.C.1.a	In coordination with the COBI attorney, review existing laws, regulations and policies and revise as needed by asking the following sorts of questions.	Staff time	policy	NA	Both	TBD and City Attorney		Provide expertise if requested		Short-term	Complete review by Spring 2021 and revise authorities as needed by 2022		76	
		<ul style="list-style-type: none"> Are current City laws adequate to require, or at least encourage, GHG emission reductions from City regulated or endorsed activities as well as from individual activities? 	Staff time				Executive	Staff time			Short-term			77	
		<ul style="list-style-type: none"> Do they provide sufficient authority/flexibility to respond to impacts and emergencies? 	Staff time				Executive	Staff time			Short-term			78	

		• Are recommended mitigations/adaptations actions allowed?	Staff time				Executive	Staff time			Short-term			79
Community Engagement	8.C.1.b	Hire a COBI Climate Mitigation/Adaptation Officer to coordinate activities between and among the various city offices, inspect for compliance with climate related code compliance, and serve as a City staff liaison with the CCAC.	Funding		NA	Both	City Manager				Short-term	Hire by end of 2020 retain permanent staff in this position thereafter		80
Community Engagement	8.C.1.c	Include Climate Change related expenditures in the City budget for education, code compliance, mitigation and adaptation action items identified in the CAP.	Funding	Staffing	NA	Both	City Manager and Council				Ongoing	Include in 2021 budget if possible and maintain sufficient budget thereafter		81
Community Engagement	8.C.2.a	Work with Bainbridge Prepares, the Bainbridge Island Fire Department, and others, to establish equitable access to community centers for recharging generators and cell phones during outages, and providing emergency food/water/filtered air during poor air quality due to fires across the west. Develop strategies to provide these services during a pandemic or other emergency that does not allow for close quarters.	Staff time	Community partnership	NA	Both	Emergency Management	Provide expertise/support as requested	Bainbridge Prepares, PSE, BIFD		Long-term	Initiate 2021, complete by 2022 and maintain thereafter		82
Implementation	9.A.1.a	Confirm COBI staff person to liaise with the CCAC until a dedicated Climate Change Mitigation/Adaptation Officer is hired. See Section 8, Action 8.C.1.b.	Task	Staffing	NA	Both	City Manager/Executive	5% of COBI staff person's time?	Liaise with staff person		2020	2020: Confirm climate liaison among current staff		83
Implementation	9.A.1.a		Task	Funding	NA	Both	City Manager/Executive	5% of COBI staff person's time?	Liaise with staff person		2020	2021: Climate change officer hired		84
Implementation	9.A.1.b	Identify a COBI staff person in each department who will provide information to the City staff liaison (Climate Change Officer) identified in Action 9.A.1.a. This person will provide department-specific information on timelines for completing actions and report on progress on CAP actions led by that department.	Task	Staffing	NA	Both	Department heads	4 hours per quarter per department?			2020	2020: Work with Climate Change Officer		85
Implementation	9.B.1.a	Consider and minimize the potential for unintended and/or unequitable impacts from each action prior to implementation.	Policy		Equity	Both	Executive	Staff time	Advisory		Ongoing	2020: Initiate development of a decision tool that can be used to evaluate actions in the CAP.		86
Implementation	9.C.1.a	Produce a CAP progress report every year that includes a review of actions undertaken during the year and additional actions needed (including those currently listed as "other" rather than "priority" actions) to meet the CAP goals for reducing GHG emissions and preparing the Island for climate impacts.	Task		NA	Both	Executive, Public Works	Staff time	Advisory, review		Ongoing	Yearly report		87
Implementation	9.C.1.b	Update the GHG emissions inventory every three to five years.	Staff time		NA	Mitigation	Public Works	Minimal if partnering with BIRD; \$10-20k every 3-5 years if hiring consultants	Advisory; assist with BIRD partnership	BIRD & high school students, or consultants	Ongoing	2021: First update, then 2025, then every 5 years		88
Implementation	9.C.1.c	Update the CAP every five years.	Task		NA	Both	Executive, Public Works	Staff time; potential consultant time if CCAC is not still active	Advise on additional strategies and actions, assuming CCAC still active in 2025; help gather community input	Community members, community organizations, island businesses	Ongoing	2025: First update and then every 5 years after		89
Implementation	9.C.1.d	Prior to the five-year CAP update, evaluate the effectiveness of implemented actions in terms of progress towards goals and targets, in order to inform adaptive management. Consider creating a dashboard of key metrics as a tool for the evaluation and associated communications.	Staff time		NA	Both					Medium-term	2021: Initiate development of dashboard of metrics to assist in evaluating progress.		90

Implementation	9.D.1.a	Develop cost estimates for the highest priority CAP actions and staffing requirements and list potential funding sources (in year 1).	Staff time	Funding	NA	Both	Finance and Administrative Services with input from other departments	Staff time	Advisory		2020	2020: Initiate development for immediate actions and in 2021 for priority actions in CAP.		91
Implementation	9.D.1.b	Include a description in the City Manager’s proposed budget of existing and proposed projects that relate to CAP strategies and actions.	Staff time	Funding		Both	Finance, Executive		Advisory		Ongoing	2020: Complete for 2021 budget.		92

Comparison of Climate Action Plan and Green Building Task Force Recommendations (September 25th, 2020)

Element	Climate Action Plan	Green Building Task Force
New construction	<p>Adopt Green Building Task Force recommendations on green building practices and standards for all new municipal, commercial, industrial and residential building and all renovations and additions over a certain size¹.</p> <p>Require all new and renovated buildings to apply the EcoAdapt Climate Change Adaptation Certification Tool², or similar tool, to identify and avoid climate risks as part of the permitting process.</p>	International Living Futures Institutes Zero Carbon Certification for all new buildings including municipal buildings
Remodels and additions	Mandatory for all remodels and additions over a certain size. (rely on recommendations from GBTF on size of remodel and addition to include)	Mandatory for all larger remodels and additions over 500 square feet for the added square footage only.
Municipal buildings	<p>All COBI projects (e.g., Police Station, WWTP improvements) adopt requirements to maximize energy efficiency and reduce total energy demand whenever feasible (e.g., variable frequency drives in HVAC systems, heat recovery systems, and dedicated outdoor air systems).</p> <p>Require a life cycle cost/benefit analysis for all new and renovated municipal buildings that includes a GHG emissions analysis.</p>	City buildings should lead by example, including the police/court facility. Require more carbon offsets than what the City Council has already committed to and require the facility be certified to either the LEED Platinum standard or the Core Green Building standard.

¹ Task Force shall consider at a minimum the following: 1) Upgrade building code to require “solar + storage readiness” of new buildings that have sufficient solar exposure including solar heating capacity; 2) Adopt a definition of what sized municipal projects and what residential and commercial remodels and additions would be required to adopt green building standards; 3) Amend the City’s land use and development codes to implement green building codes and adapt to climate impacts; 4) Change building code to include electric vehicle readiness; 5) Create “no net increase” water and energy standard to maximize water and energy efficiency and support improved water and energy efficiency of other projects such that there is no net increase Island-wide in water or energy use created by the new project; and 6) explore using low-carbon concrete and other low-carbon building materials.

²EcoAdapt Climate Change Adaptation Certification Tool: Moving Cities from Planning to Implementation: EcoAdapt and Foresight Partners Consulting. December 2018. Accessed July 16th 2020. https://www.cakex.org/sites/default/files/2018EcoAdapt%20CCAC%20Tool%20FINAL_SPREADS.pdf

Element	Climate Action Plan	Green Building Task Force
Commercial and Institutional buildings over 5000 square feet	Encourage, and assist when possible, other taxing entities (e.g., BISD, BIMPRD, and BIFP) to adopt requirements to use high-performance retrofit technologies in all their projects.	Must also meet either: <ul style="list-style-type: none"> - International Living Future Institute's Core Green Building Certification - US Green Building Council's LEED Platinum Certification
Existing buildings	Work with PSE to: 1) raise awareness about existing rebate and assistance programs that will increase access to energy conservation and efficiency programs, focusing on low-income households and nonprofit organizations; ³ and 2) explore creating new incentive/rebate programs.	In Phase 2 provide incentives and assistance for retrofitting existing structures. <p>Phase 1 recommendations include:</p> <ul style="list-style-type: none"> - Refunding a portion of building permit fees at final certification. - Provide education and outreach to building professionals and the community. - Promote Puget Sound Energy incentives which may apply to new construction and remodels built to the recommended green building certifications.
Affordable housing	<p>Work with the Green Building Task Force to develop guidelines for green affordable housing and provide green design assistance for affordable housing projects.</p> <p>Explore using Washington State's Evergreen Sustainable Development Program for the development of green affordable housing.</p> <p>Identify and apply for grants and subsidies for energy efficiency improvements for low-income residents to address equity concerns</p>	<p>Affordable housing projects funded by the State Housing Trust Fund are required to already follow a green building certification program administered by the State Department of Commerce [see RCW 39.35D.080] and would be exempt from City Green Building requirements.</p> <p>However, other affordable housing projects and other state funded facilities subject to RCW 39.35D (high-performance public buildings) would be subject to the City's green building requirements.</p>

³ Example of programs including: Real-time feedback on usage potentially leading to TOU (time of use) pilot program and Smart Meters and other forms of demand management (EVs, washing machines, hot water tanks, cooling).

Element	Climate Action Plan	Green Building Task Force
Electric car and solar ready	GBTF should consider including in their recommendations (see footnote 1 above).	Phase 2.
Operational and embodied carbon ⁴	Not directly addressed.	The Zero Carbon Programs requires offsets for the operational energy use and the embodied carbon of new buildings or the area of the remodel or addition. The project would have some choices for how to achieve the offsets.
Local generation	<p>Work with PSE and others to develop incentive programs to increase installation of renewable energy, wind, and passive photovoltaic (PV) solar or other technologies on new and existing buildings.⁵</p> <p>Work with PSE to develop a local program to encourage homeowners, businesses, and other entities like BISD, BIMPRD, and BIFP to acquire customer-owned generation like roof-top solar and small wind turbines as well as customer-owned storage.</p>	<p>The Zero Carbon Certification requires operational energy use to be offset either on-site or off-site.</p> <p>PSE programs, such as community solar, would be suitable for off-site offsets when on-site renewable energy is not feasible.</p>
Use of combustible fuels (propane and fuel oil) for heating in new and existing buildings.	<p>Adopt a policy that prohibits propane, fuel oil, and wood stoves as the primary energy source for all new municipal, commercial, industrial, and residential buildings and in renovations and additions over a certain size.</p> <p>Develop incentives for existing commercial, industrial, and residential buildings to replace propane, fuel oil, and wood stoves as their primary heating sources.</p>	<p>Propane may be used as secondary backup heat, or where heat pumps are not capable of providing for the task (such as for tankless water heaters or high demand boiler systems)</p> <p>Do not allow electric resistance elements for space heating.</p>

⁴ Embodied carbon includes the greenhouse gas emissions associated with the raw material extraction, manufacturing and processing, transportation, and installation of a building material. Various approved calculators are available to estimate the amount of embedded carbon in a project.

⁵ Examples of such programs include: 1) Real-time feedback on usage potentially leading to TOU (time of use) pilot program; 2) Smart Meters and other forms of demand management (electric vehicles, washing machines, hot water tanks, cooling); 3) customer-owned generation like roof-top solar to include assistance for condo associations to be supported in organizing projects; 4) Strong marketing campaign with local whitepapers of success; 5) A subsidized home energy efficiency retrofit program for low-income housing; and 6) Develop a tool kit and provide resources for homeowners to reduce energy use.

Element	Climate Action Plan	Green Building Task Force
		The Zero Carbon Certification may be more restrictive.
Green Energy and Building Fund	Establish and use the Green Energy and Building Fund to provide incentives to building owners and residents to increase electrification conversions and battery storage and to assist in energy audits for residential home projects, including affordable housing. ⁶	If allowed under the Zero Carbon Certification program, the Fund may be an administrative tool for collecting and investing fee-in-leu payments in renewable energy projects when the market supply of off-site offsets is intermittent.
Training and outreach programs	<p>Develop training and outreach programs to provide technical assistance to developers, contractors, architects, landscape architects, city employees, and homeowners on green building that includes the cost/benefit to occupants of green building, use of reused and recycled materials, and the health benefits from green buildings to occupants.</p> <p>Host a workshop with neighboring communities (e.g., Poulsbo, Silverdale, Bremerton, and Port Orchard) and other Puget Sound communities to learn from about their green building programs.</p>	Education and outreach.
City staffing	Establish a Green Building team within the City that consists of staff from planning and community development and public works that would be responsible for overseeing the implementation of any green building code.	Training and/or certification for city building staff may be necessary for the implementation of any of these programs.

⁶ Possible funding mechanism for Green Energy and Building Fund:

- Captured as a function kWhs consumed, or calculated carbon generation with an industry standard price per ton (Carbon Balance assigns \$15/ton as the value on carbon)
- A propane tax (per gallon or CO2 generation ~[12.75](#) pounds per gal)
- A fuel oil tax (per gallon or CO2 generation ~[22.36](#) pounds per gal)
- Grants that might be applied for by the Fund, a non-profit community stakeholder
- Donations and bequests
- License Plate Tabs (voluntary opt-in, mandatory for ICE vehicles flat or tiered by weight)
- Fund raising events (hosted by the Fund; organized by community organizations, schools, businesses, etc.)

Fund would be a committee of people from city, citizen and utilities/trades a non-profit open [process modeled](#) from similar municipalities.

Element	Climate Action Plan	Green Building Task Force
	Join the Regional Code Collaborative to leverage economies of scale in developing and updating green codes	
Public Engagement	COBI hosts community workshops on climate impacts, how they might impact buildings, and how to prepare properties for these impacts.	Public engagement regarding a green building code has been limited to prior engagement during the 2016 Comprehensive Plan update and the Climate Action Plan as well as one anticipated public hearing on the First Steps interim green building ordinance. Additional public engagement is anticipated during Phase 2.
Sea Level Rise: COBI Assets	As recommended by the 2019 CCAC Report on Sea Level Rise conduct a systematic, high-resolution analysis of exposure of City assets to sea level rise; create a prioritized list for addressing COBI assets at high risk of sea level rise (e.g., roadways that are expected in the coming decades to be sufficiently flooded that they will not be functional for motorized transit.) and integrate sea level rise analysis into all City planning to identify and avoid or minimize risk to planned infrastructure and development.	
Sea Level Rise: Private property	<p>Conduct a high-resolution analysis of all shoreline properties to inform landowners of exposure to sea level rises, make this information widely available for property owners to use in decision-making, and provide guidance on possible solutions and regulatory requirements.</p> <p>COBI integrates sea-level rise analysis into all City permitting to help applicants identify and avoid or minimize risk to existing infrastructure and land uses and planned infrastructure and development from sea level rise or other climate impacts.</p>	

Comparison of Climate Action Plan and Sustainable Transportation Task Force Recommendations
(September 25th, 2020)

Element	Climate Action Plan	Sustainable Transportation Task Force
Climate Action	<p>Goal: Reduce GHG emissions by 90% by 2045 compared to 2014 levels.</p> <p>4.A.1.c. Explicitly consider climate change mitigation (e.g., GHG reductions) when evaluating options as COBI develops its Sustainable Transportation plan.</p>	<p>Goal: Reduce transportation-related emissions to help achieve the Island-wide goal of 90% greenhouse gas (GHG) emissions reduction by 2045, minimize environmental impact, and support the health of the Island’s natural systems.</p> <p>Desired Outcomes</p> <ul style="list-style-type: none"> Expand the urban canopy and green stormwater infrastructure Create adaptable and resilient infrastructure to respond to changing needs Create sustainable transportation corridors that function as native-habitat corridors
Safety	<p>4.A.1.h. Develop a complete sidewalk system, where appropriate, along with improved safety features to encourage walking.</p>	<p>Goal: Achieve zero fatalities and injuries</p> <p>Desired Outcomes</p> <ul style="list-style-type: none"> Improve safety for people walking and biking Set a bike facility standard of separated bikeways (protected bike lanes or multi-use paths) Provide Vision Zero education for all travelers to support safe mobility for all
Equity	<p>9.B.1.a. Consider and minimize the potential for unintended and/or unequitable impacts from each action prior to implementation.</p>	<p>Goal: Eliminate disproportionate burden in our mobility system, focusing on younger and older people and low-income people of color.</p>

Element	Climate Action Plan	Sustainable Transportation Task Force
		<p>Desired Outcomes</p> <p>Increase affordability and reduce overall household transportation costs</p> <p>Ensure that all students over the age of 8 can safely walk or bike from home to school</p> <p>Provide access to affordable non-drive-alone mobility options for all older adults on the island</p>
Mode Shift	<p>Target: By 2030, reduce VMT per capita by 25% (currently 3,000 VMT/capita), and by 50% by 2045. To support this goal, at a minimum:</p> <ul style="list-style-type: none"> • By 2030, increase the mode share¹ of active transportation (biking and walking) to 25%, and to 50% by 2045. • By 2030, increase the mode share of public transit² to 5% (currently 2%) and to 10% by 2045. <p>4.A.1.a: Through the Sustainable Transportation Planning Process and other means, develop an ambitious plan to create networks of pathways required to achieve a substantial mode shift to biking and walking, including separated or protected biking and walking lanes.</p> <p>4.A.2.g. Limit incentives for driving (e.g., limit expansion of commercial parking where possible, increase charge</p>	<p>Goal: Support behavior change to reduce drive-alone trips to 25% of the Island's mode share by 2045</p> <p>Desired Outcomes</p> <p>Create options for most short trips on the island to be taken by sustainable modes.</p> <p>Subsidize shared mobility and public transportation options to support access to jobs</p> <p>Create a living laboratory for innovative mobility systems accessible to all</p>

¹ Mode share is a transportation term that describes the number of trips, or %age of travelers, using a particular type of transportation (car, transit, bicycling, walking).

² Public transit is used to broadly mean services to encourage alternatives to single occupancy vehicles, and may include public-private partnerships and other solutions to offer more efficient transportation.

Element	Climate Action Plan	Sustainable Transportation Task Force
	<p>for parking at Island commercial centers, provide more convenient parking for EVs) to encourage greater use of biking, walking, and public transportation.</p> <p>4.A.3.e. Evaluate increasing the price of parking at the ferry to encourage people to take public transportation, bike or walk.</p>	
Comfortable and Accessible	<p>4.A.1.i. Review current bike parking requirement in COBI code for commercial and multi-family projects to see if there is a need to increase the number of safe spaces to park bikes for their customers, employees, and residents.</p> <p>4.A.2.a. Require incorporation of non-motorized transportation options into all new development (e.g., include sidewalks or pedestrian trails linked to existing and planned trail/sidewalk networks; incorporating bicycle lanes and trails; etc.).</p> <p>4.A.2.c. Require land use planning that explicitly incorporates walking and bicycling networks, promotes greater density, and optimizes space to minimize the distance people have to travel by car.</p>	<p>Goal: Create an all ages and abilities network tailored to Bainbridge Island that respects and enhances the Island's natural and rural character.</p> <p>Desired Outcomes Implement a low-level of traffic stress or family friendly bike network by 2045</p> <p>Create bike and pedestrian facilities standards that are comfortable for people of all ages and abilities and complement the Island's scenic and rural character</p>
Connected and Convenient	<p>4.A.2.b. Require all new development and improve existing connections between developments to accommodate non-motorized and public transit transportation options (including incorporation of bus shelters and other amenities).</p> <p>4.A.1.d. Explicitly consider non-motorized transportation options in all appropriate Capital Improvement Plans.</p>	<p>Goal: Develop an integrated mobility system that connects destinations with sustainable travel options.</p> <p>Desired Outcomes Increase street, trail/greenway, and sidewalk network connectivity for all ages and abilities.</p> <p>Improve access to schools, jobs, parks, essential services, affordable and senior housing, and basic life needs</p>
Implementation and Funding	4.A.1.b: Increase COBI staff time or hire a consultant to enhance COBI's capacity to identify and apply for sources	Goal: Align our values and decisions to maximize use of limited space and resources and build complete networks.

Element	Climate Action Plan	Sustainable Transportation Task Force
	<p>of funding (such as federal grants for Safe Routes to Schools and public private partnerships for the needed infrastructure).</p> <p>4.A.2.d. Evaluate increasing Transportation Impact Fees, and possible other fees, to generate revenue to expand non-motorized transportation on the Island.</p> <p>4.A.2.e. Use COBI budgets and other sources to provide significant funding for non-motorized transportation options throughout the Island (e.g., pedestrian and bicycling infrastructure, pathways, bicycle parking, etc.) in existing and new development.</p>	<p>Desired Outcomes</p> <p>Balance cost-effective, implementable projects with high-impact projects.</p> <p>Align street development and design standards with the plan’s vision and identified networks.</p> <p>Fund implementation using multimodal level of service and transportation impact fees</p>
Anti-Idling	<p>4.A.4.b. Work with BISD to develop an anti-idling program for school buses and drop-off areas.</p> <p>4.B.4.a. Adopt a city-wide anti-idling ordinance that includes an enforcement component and work with the WSF and State Patrol to reduce idling at the ferry parking lots.</p>	
Transit	<p>4.A.3.a. In consultation with Kitsap Transit, develop a robust marketing, outreach, and educational program to inform Island residents and those who traverse the Island from outside about public transit options, including park and rides (e.g., information for Island visitors on bus/transit routes & options).</p> <p>4.A.3.b. Work with Kitsap Transit to expand on-Island transit service, with greater frequency and coverage, including service on Sundays and during evenings and increase the number of electric buses in the Kitsap Transit fleet.</p>	

Element	Climate Action Plan	Sustainable Transportation Task Force
	4.A.3.c. Work with Kitsap Transit to expand options and service for people commuting to work on the Island and to the ferry from off Island.	
Ferry	<p>4.A.3.d. Work with WSF to provide incentives for people to use a bike for traveling to and from the ferry (e.g., expanding the bike barn, surface-level bike racks (especially important for electric bikes), and provide better space on the ferry).</p> <p>4.B.3.a. 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.</p>	
Island Partners (e.g., BIRD and BIMPRD)	<p>4.A.1.e. Work with BIRD and BIMPRD to increase the Island's network of separated or protected routes for walking and biking.</p> <p>4.A.1.f. Work with BIRD to offer incentives for commuting to school and activities by bicycle or non-motorized alternatives.</p> <p>4.A.4.a. Work with BIRD on measures to discourage private-vehicle drop-offs and pick-ups, encourage car-pooling, biking and walking and promote greater use of school buses.</p> <p>4.A.4.c. Work with BIRD to explore options beyond biking and walking for helping move students to and from after-school activities, such as partnerships with BI Ride or other entities that could help reduce single student transportation.</p>	

Element	Climate Action Plan	Sustainable Transportation Task Force
	4.A.4.d. Work with BISD to offer incentives to students for carpooling or riding the bus to/from school.	
Electrification	<p>Target: By 2045, 80% of registered vehicles on Bainbridge Island will be either electric vehicles or plug-in hybrid electric vehicles.</p> <p>4.A.1.g. Develop policies to support usage of electric bikes (e.g., invest in public charging infrastructure, and work with community organizations like Helpline House to provide subsidies for low-income residents).</p> <p>4.B.1.b. Install charging infrastructure across municipal locations (City Hall, Public Works, Police Department) and encourage the installation at the BISD Bus Barn.</p> <p>4.B.2.a. Evaluate current code to see if there is a need to increase the number of EV-charge-ready for all new development and major renovations and that multifamily units and commercial development include EV charging infrastructure and secure storage options.</p> <p>4.B.2.b. Install additional charging stations in commercial centers, including Island Village, Coppertop, Lynwood Center.</p> <p>4.B.2.c. Explore municipal grants and public-private partnerships, such as working with PSE, to develop grants for EV infrastructure adoption.</p> <p>4.B.2.d. Work with PSE to facilitate and promote adoption of charging infrastructure.</p>	
City Fleet	Target: By 2030, transition COBI's fleet to 75% electric vehicles and the remainder to biofuels.	

Element	Climate Action Plan	Sustainable Transportation Task Force
	<p>4.B.1.a. Transition COBI's fleets to primarily electric vehicles and using biofuels where electric vehicles are not an option and encourage other Bainbridge Island taxing districts to also develop a plan.</p> <p>4.B.1.c. Require justification for COBI to purchase a conventional vehicle.</p>	
Community Engagement	<p>8.B.2.a. Host workshops with hands-on demonstrations for community members to learn how to take <u>specific actions</u> (e.g., 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).</p> <p>8.B.2.b. Host events for <u>community project(s)</u> to bring people together to work towards mitigation and adaptation (e.g., building a community rain garden, working on a trail, making signs for bike/pedestrian routes, pulling ivy, planting climate resilient plants, and constructing community pea patch).</p>	
Training	<p>4.A.2.f. Provide education and outreach to developers and contractors on incorporating non-motorized transportation options in development, including targeted training to Island and neighboring communities' architects, landscape architects, builders, and related construction professionals.</p>	
Air travel	<p>4.B.5.a. Work with partners (e.g., Climate Action Bainbridge and Puget Sound Clean Air Agency) to provide public information on benefits of sustainable travel, including reducing air travel.</p>	

Element	Climate Action Plan	Sustainable Transportation Task Force
	4.B.5.b. Work with service providers to help our community develop and maintain the digital infrastructure it needs to enable more virtual meetings.	

Climate Change Lens: Recommendation from Climate Change Advisory Committee (August 20th, 2020)

On July 7th, the City Council asked the Climate Change Advisory Committee (CCAC) to provide their recommendation on the use of the EcoAdapt Climate Change Adaptation Certification Tool as the City's "Climate Lens".

The CCAC discussed this issue at its July 15th, 2020 and August 19th, 2020 meetings and recommends that the City use the EcoAdapt Climate Change Adaptation Certification Tool when evaluating projects. The background, discussion, and recommendation are included below.

Background

Climate Emergency Resolution 2020-05

On June 9th, 2020 the City Council passed a Climate Emergency Resolution (2020-05). The resolution contained one section that references the use of a "climate lens" for evaluating City approved plans and projects.

Section 3. The City commits to developing a procedure and process whereby the City's plans and City approved projects will be evaluated through a "Climate Lens", such as through a Climate Change Mitigation and Adaptation Certification, or similar process, prior to approval to ensure they are consistent with the City's adopted climate goals and policies to reduce greenhouse gas emissions and reduce our vulnerability to climate change.

City Councilmember Questions to CCAC members

On June 17th, Council Member Nassar sent two questions to CCAC members Lara Hansen and Julie Matthews and they subsequently forwarded those questions to CCAC member Michael Cox.

Question 1: Is the CCAC in agreement that the EcoAdapt Climate Change Adaptation Certification Tool should serve as the City's 'Climate Lens'? I assume so, but want to make sure that this is the tool that the CCAC is recommending Council adopt so as not to skip that formal committee approval to recommendation step.

Question 2: Would the CCAC support moving ahead with adoption/integration of the Climate Lens now, despite that the CAP hasn't yet been finalized/adopted?

EcoAdapt Climate Change Adaptation Certification Tool (Tool)

At the CCAC's July 15th meeting Stacey Justus Nordgren from Foresight Partners Consulting provided background on the Tool.

- The EcoAdapt Climate Change Adaptation Certification Tool (Tool) builds on the 2018 Bainbridge Island Climate Impact Assessment and the 2016 local Comprehensive Plan update, as well as the Guidance for Puget Sound Communities.
- The Tool was completed in December 2018.
- The Tool was developed by Lara Hansen (EcoAdapt) and Stacey Justus Nordgren (Foresight Partners Consulting).
- The Tool is designed to fit into existing City processes.
- The Tool walks a user through a series of questions to determine whether climate change impacts could affect a project's success.
- The result is an assessment of whether the project should be approved, denied, approved with conditions, redesigned, etc.
- Lara and Stacey had several meetings with COBI staff as the tool was being developed.
- While it was created as a model implementation tool, intended for broad use, it is based on Bainbridge Island plans, processes, and data and is ready to be applied here.
- Stacey was not aware that the Tool had been used by other jurisdictions.
- More info at <https://www.cakex.org/tools/climate-change-adaptation-certification-tool>

CCAC Committee Discussion

The CCAC members discussed the two questions posed by Council member Nassar. The highlights of that discussion were:

- There was interest in seeing some specific examples of how this tool works in practice and getting a sense of how long it takes to complete.
- A lot of decisions are made during design and construction that can't be changed later, so that is a key window of opportunity for applying a climate lens to reduce vulnerability to climate impacts as well as emissions.
- There was interest in moving forward with the Tool as it is already tailored for Bainbridge Island, rather than creating something new; we can tweak it as we see how it works.
- We can plan to reevaluate and update the tool as needed, potentially timed with future CAP evaluations or updates.

CCAC Recommendation

The CCAC believes the City should use this Tool for the following reasons.

- The Tool was developed as an outcome of the 2016 Comprehensive Plan update and the Bainbridge Island Climate Change Assessment.
- The work to develop both of these made it clear that COBI needed an implementation tool.
- This tool was created for Bainbridge Island (and as a model for everyone else) in direct response to identified needs of the City.
- There are no other Tools like this that the CCAC members are aware of.
- The Tool takes advantage of a window of opportunity that exists when projects are

proposed to do things that make them more resilient and lower emissions and it is a much more efficient use of time and resources than trying to make those changes later.

- The work to develop the Tool has been done already, with Bainbridge in mind.
- It would be a much bigger lift for the City or the CCAC us to develop something new, and the CCAC members don't see a need to start from scratch.

Proposed Next Steps

- The Tool is mentioned several times in the draft CAP. The CCAC will evaluate the draft CAP to ensure the actions where the Tool is identified are consistent in their content.
- Add new questions to the tool as needed (e.g., equity and health already completed).
- COBI staff and CCAC work to identify a pilot project that COBI staff and the CCAC can work together to evaluate the utility of the Tool and whether modifications to the Tool are necessary.
- Report back to the City Council on the outcome of the pilot project.

Proposal to Reconvene CCAC/UAC subgroup on PSE Franchise (9/25/20)

Background

The Climate Change Advisory Committee (CCAC) has established a goal of reducing our Communities greenhouse gas emissions by 90% by 2045 compared to 2014 levels. Given that over 50% of the carbon produced by our island is due to purchasing electricity from PSE, it is imperative that we work with PSE to increase generation of clean energy on and off the Island.

Currently, over 55% of the energy PSE generates comes from fossil fuels. Yet our power company is in a new position. Due to the new state Clean Energy Transformation Act (CETA) PSE is required to begin transitions off fossil fuels, and will ultimately, in terms of electric generation, be required to be carbon free by 2050.

The City will start to engage PSE on a new franchise agreement in 2021. This engagement provides a significant opportunity to focus our community's efforts to battle climate change.

Now is the time to use the opportunity of concluding a new franchise agreement for the island to make a bold move to become a national model of local action to protect the planet. Why not join, and even exceed the efforts of pioneering communities like Burlington VT and Georgetown TX which are already close to 100% carbon free.

Purpose of Subgroup

In 2019, a subgroup consisting of representatives from the Climate Change Advisory Committee (CCAC) and Utility Advisory Committee (UAC) was formed. We have not met for over a year.

We believe it is important to reconvene the subgroup now in order to provide information and recommendations that the City can use in its negotiations with PSE on the franchise agreement.

The subgroup recognizes the City has established a process for negotiating with PSE on the franchise agreement and that there will be an opportunity for input from City committees like the CCAC and UAC. Also, the subgroup recognizes that it is not the role of the CCAC or the UAC to negotiate with PSE on the franchise agreement.

However, we believe the subgroup can provide valuable information and recommendations for the City to use in its negotiations with PSE. We also believe it makes sense to collect this information prior to starting negotiations with PSE in order to better understand the options that are available for the City.

We believe the two committees have experts that are willing to volunteer their time to assist in providing information that will be valuable in the negotiations with PSE and hope the City would take advantage of this expertise.

Proposal

The subgroup proposes to do the following

- Collect information on how other cities have dealt with franchise agreements with electric utilities both within and outside Washington State.
- Provide information on elements of the Revised Code of Washington (RCW) that might have some bearing on the negotiations.
- Provide recommendations on strategies and elements needed in a franchise agreement to assist our community to achieve our stated greenhouse gas emission targets and to include increased wildfire risk mitigation.

Next Steps

- If requested by the Council, reconvene the CCAC and UAC subgroup in the context of the PSE Franchise agreement.
- Brief the City Council in December on status of information collection and any preliminary recommendations from subgroup.
- Engage with the City staff if requested by City Council.



CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 10 Minutes

AGENDA ITEM: (8:25 PM) Sustainable Transportation Plan Update - Public Works,

SUMMARY: City staff will provide an update on the Sustainable Transportation Project.

AGENDA CATEGORY: Discussion

PROPOSED BY: Public Works

RECOMMENDED MOTION: Information only.

STRATEGIC PRIORITY: Reliable Infrastructure and Connected Mobility

FISCAL IMPACT:

Amount:	N/A
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	Yes

BACKGROUND: City staff will provide an update on the Sustainable Transportation Project, including follow-up from the September 23rd Task Force/Technical Advisory Team meeting, and a look-ahead at the project work in October.

ATTACHMENTS:

FISCAL DETAILS: N/A

Fund Name(s):

Coding:



CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 10 Minutes

AGENDA ITEM: (8:35 PM) Update on the Development Moratorium - Planning,

SUMMARY: On September 22, 2020, the City Council approved Ordinance No. 2020-24 to extend the development moratorium "as is" for an additional six months through April 3, 2021. See attached Work Program Status Report, moratorium summary, and Ordinance No. 2020-24.

In extending the development moratorium, the Council removed affordable housing from the moratorium work program. Completing the integration of the Critical Area Ordinance (CAO) into the Shoreline Master Program (SMP) is the sole remaining item on the work program. The City expects to complete this work prior to April 3, 2021, and the Council has indicated that the development moratorium could be ended prior to that date, once the CAO/SMP amendment is approved by the Washington State Department of Ecology (which is required) and in effect. See attached moratorium work program status report for the status on this item.

Additionally, the Council requested that staff return with an ordinance that narrows the moratorium to the properties within the Winslow Master Plan Study Area and within the shoreline jurisdiction (200 feet from the Ordinary High Water Mark). Staff is scheduled to return to the Council with this draft ordinance on October 27, 2020.

AGENDA CATEGORY: Discussion

PROPOSED BY: Planning & Community Development

RECOMMENDED MOTION: Information only.

STRATEGIC PRIORITY: Green, Well-Planned Community

FISCAL IMPACT:

Amount:	
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	

BACKGROUND: City staff have been working to address the issues identified in the development moratorium (Ordinance No. 2018-02, amended by Ordinance Nos. 2018-03, 2018-05, 2018-09, 2018-14, 2018-23, 2018-41, 2018-43, 2019-10, 2019-26, 2020-09, and 2020-24). Additional background about the development moratorium can be viewed on the City's website:

<https://www.bainbridgewa.gov/968/Six-Month-Temporary-Building-Moratorium>.

ATTACHMENTS:

[20201001 Moratorium Work Program Status Report.docx](#)

[ORD NO. 2020-24 EXTENDING THE DEVELOPMENT MORATORIUM.pdf](#)

[Development Moratorium Summary Effective 20200930.pdf](#)

FISCAL DETAILS:

Fund Name(s):

Coding:

Moratorium on Accepting Certain Development Applications: Work Program Status Report – [October 1, 2020](#)

Moratorium Topic	Status	Timeline
<p>Integrate the Critical Areas Ordinance into the Shoreline Master Program</p>	<p>Incomplete.</p>	<p>Integrate the updated critical areas ordinance (CAO) into the Shoreline Master Program (SMP). The City sent a draft ordinance to the Dept. of Ecology (Ecology) and received their response on December 9, 2019. Ecology determined that the amendment is largely consistent but has identified elements that appear inconsistent with applicable laws and rules. Due to COVID-19, City staff held a rescheduled March 2020 City Council discussion about Ecology’s response during the June 23, 2020 Council meeting. At that meeting, the Council authorized staff to move forward with the preparation of an ordinance (Ordinance No. 2020-17) that incorporates Ecology’s required changes, staff’s recommended changes based on Ecology’s recommended changes, and staff’s own recommended changes.</p> <p>On September 8, 2020, the Council set a public hearing for Ordinance No. 2020-17, and on September 22 the Council conducted the public hearing but held off on adopting the ordinance to ensure that the SEPA process is complete.</p>
<p>Status on October 1, 2020:</p>	<p>Incomplete: A SEPA Determination of Nonsignificance (DNS) is to be reissued on October 2, 2020. After the SEPA process is complete, Ordinance No. 2020-17 will be considered for final adoption by the City Council at a future meeting. Once approved by the Council, City staff will transmit the SMP amendment to Ecology in accordance with WAC 173-26-110 and it will become effective 14 days after final approval by Ecology.</p>	

ORDINANCE NO. 2020-24

AN ORDINANCE of the City of Bainbridge Island, Washington, adopted pursuant to RCW 35A.63.220 and RCW 36.70A.390; amending Ordinance No. 2020-09; providing for severability; leaving the effective date of the moratorium unchanged; and extending the moratorium for six months to April 3, 2021.

WHEREAS, on January 9, 2018, the City Council enacted Ordinance No. 2018-02 and thereby established a temporary emergency moratorium on the acceptance and processing of certain Permit Applications, as defined in Section 2 of Ordinance No. 2018-02; and

WHEREAS, the City Council and City staff received feedback and comment from individuals related to the moratorium and, based partly on that feedback and comment, the Council determined that certain exclusions to the moratorium needed to be amended to clarify the Council's intent regarding such exclusions; and

WHEREAS, on January 16, 2018, the Council enacted Ordinance No. 2018-03, which amended Ordinance No. 2018-02 to clarify some of the exclusions; and

WHEREAS, the Council and City staff received additional feedback and comment from individuals related to the moratorium and, based partly on that feedback, the Council determined that further amendment was necessary to clarify which types of activities are subject to the moratorium, and which activities are excluded from the moratorium; and

WHEREAS, on February 15, 2018, the Council enacted Ordinance No. 2018-05, which amended and restated Ordinance No. 2018-02 and Ordinance No. 2018-03; and

WHEREAS, based on additional information and consideration related to educational facilities and preschools, as well as related to the applicability of the moratorium in the Mixed Use Town Center/Central Core Overlay District, on March 13, 2018, the Council approved Ordinance No. 2018-09 to further clarify which types of activities are subject to the moratorium, and which activities are excluded from the moratorium; and

WHEREAS, this moratorium was imposed, in part, to allow the City Council and City staff adequate time to complete the Critical Areas Ordinance Update process, and to address the Council's concerns about the City's development review process, standards, and guidelines, as well as regarding affordable housing related issues; and

WHEREAS, the Council adopted the Critical Areas Ordinance Update (Ordinance No. 2018-01) on February 27, 2018, and the updated Critical Areas Ordinance took effect on April 23, 2018; and

WHEREAS, critical areas within the City's shoreline jurisdiction are regulated by the City's shoreline master program (see, e.g., Chapter 16.12 BIMC, RCW 36.70A.480(3)(b)); and

WHEREAS, integration of applicable critical areas regulations into the shoreline master program is essential to ensuring adequate protection of critical areas within the shoreline jurisdiction and no net loss of shoreline ecological functions; and

WHEREAS, regulations for critical areas within the City's shoreline jurisdiction are in the process of being updated through an amendment of the City's shoreline master program consistent with the Shoreline Management Act and that amendment process was ongoing as of July 9, 2018, which was the original date that the moratorium was set to expire, and that process continues to be ongoing; and

WHEREAS, the City Council approved Ordinance No. 2018-14 on April 24, 2018, amending the development moratorium in order to have the provisions of Section 3.B. only apply within the City's shoreline jurisdiction areas (Chapter 16.12 BIMC); and

WHEREAS, a number of moratorium priorities were identified at a joint meeting of the City's Design Review Board and Planning Commission on February 22, 2018, including the following:

- (1) Revise review procedures for preliminary subdivisions to include the Design Review Board and Planning Commission in process; and
- (2) Analyze alternatives to decision-making authority for the Design Review Board, Planning Commission, and Hearing Examiner for subdivisions, conditional use permits, and site plan and design review; and
- (3) Identify specific development standards to review/revise in Chapters 18.12 and 18.15 of the Bainbridge Island Municipal Code; and
- (4) Initiate rewrite of subdivision design standards in Chapter 17.12 of the Bainbridge Island Municipal Code; and

WHEREAS, at the April 3, 2018, City Council study session, the City's Department of Planning and Community Development provided a briefing on the Design Review Board and Planning Commission joint meeting wherein the Council authorized staff to proceed with a work plan addressing the priorities identified at the joint meeting; and

WHEREAS, on April 2 and 23, May 7 and 21, June 4 and 18, August 6, 13, and 20, September 4 and 17, and October 15, 2018, the City's Design Review Board discussed alternatives for revisions to the City's land use review procedures and/or subdivision design guidelines; and

WHEREAS, on March 22, May 10, June 7, 14, and 21, July 12 and 26, August 9, 23, and 30, September 13 and 27, October 25, November 8 and 29, and December 13, 2018, as well as on January 10, and February 13 and 28, 2019, the City's Planning Commission discussed alternatives for revisions to the City's land use review procedures, subdivision design guidelines, and/or subdivision standards; and

WHEREAS, the City provided legal background on the roles of land use bodies, presented in a memorandum from attorney James E. Haney (outside legal counsel for the City) entitled, “*Roles of City Council, Planning Commission, Design Review Board, and Hearing Examiner in Land Use Permits*,” dated June 1, 2018, and the City Council had a special workshop related to land use review procedures on August 27, 2018; and

WHEREAS, the City’s Planning Commission completed their review of land use review procedures and forwarded their recommendations on those issues to the City Council, and on December 11, 2018, the Council enacted Ordinance No. 2018-20 related to revisions and updates to the City’s land use review procedures; and

WHEREAS, in addition to updating standards, guidelines, and land use procedures, another moratorium work plan item was to update the decision criteria for Site Plan and Design Review and Conditional Use Permits to ensure that future development is appropriately and thoroughly analyzed; and

WHEREAS, together with the land use review procedural changes approved by Ordinance No. 2018-20, amending the Site Plan and Design Review and Conditional Use Permits decision criteria implements Land Use Element Policies LU 6.5 and LU 6.8; and

WHEREAS, the Planning Commission discussed Ordinance No. 2019-24 modifying the decision criteria for Site Plan and Design Review during five meetings in 2019, including on March 14, August 8 and 22 (public hearing), September 5 and 26, and October 10, 2019, and recommended approval to the City Council; and

WHEREAS, the City Council discussed Ordinance No. 2019-24 on November 26, 2019 and again on December 10, 2019 and approved the ordinance on December 10, 2019; and

WHEREAS, as part of the Planning Commission’s review and consideration of the City’s subdivision review procedures, design guidelines, and standards, the Commission reviewed the proposed ordinance related to such regulations, Ordinance No. 2019-03; and

WHEREAS, on February 13, 2019, and continuing to February 28, 2019, the Planning Commission conducted a public hearing on Ordinance No. 2019-03, and subsequently forwarded the proposed ordinance and their recommendations to the City Council; and

WHEREAS, each of the multiple Design Review Board and Planning Commission meetings as described above included an opportunity for public comment on the alternatives for revisions to the City’s subdivision guidelines, standards, dimensional standards, and/or land use review procedures; and

WHEREAS, the City Council reviewed and considered proposed updates to the City’s subdivision regulations at regularly scheduled meetings on September 4 and 11, October 9, and December 4, 2018, and January 22, 2019; and

WHEREAS, the City Council considered the Planning Commission’s recommendations related to proposed updates to the City’s subdivision regulations as included in Ordinance No. 2019-03, including at Council meetings on March 19, April 2 and 16, May 28, and July 23, 2019;

WHEREAS, the City Council held a public hearing on Ordinance No. 2019-03 on August 27, 2019 and September 24, 2019; and

WHEREAS, the City Council approved Ordinance No. 2019-03 on September 24, 2019 related to updates to the City’s subdivision regulations, and the ordinance went into effect on October 24, 2019; and

WHEREAS, City staff worked with the Design Review Board and a consultant team related to updating the City’s Design Guidelines (BIMC 18.18.030) more generally (i.e., the design guidelines that aren’t included in the separate effort described above related to design guidelines for subdivisions), and that work was completed in August 2019; and

WHEREAS, on January 30 and May 22, 2019, the City hosted public meetings on the design review regulations update; and

WHEREAS, on March 18, April 1, May 6, June 17, and July 15, 2019, the City’s Design Review Board discussed the design review regulations update; and

WHEREAS, at the February 5 and June 4, 2019 City Council study sessions, the City’s consultant, Framework, provided briefings on the design review regulations update; and

WHEREAS, the Planning Commission held a public hearing on Ordinance No. 2019-25 (related to design review regulations) on September 5, 2019; and

WHEREAS, City staff provided the Planning Commission’s September 5, 2019 recommendations related to the design review regulations update to the City Council for consideration at the Council’s September 17, 2019 study session; and

WHEREAS, the City Council held a public hearing on Ordinance No. 2019-25 and subsequently approved the ordinance on September 24, 2019, after considering the input it received related to Ordinance No. 2019-25 prior to adopting the ordinance; and

WHEREAS, on June 12, 2018, the City Council authorized the execution of a professional services agreement to conduct an economic market analysis and feasibility study regarding a new inclusionary zoning program and updates to the City’s Transfer of Development Rights program, both of which address affordable housing related issues; and

WHEREAS, on July 24, 2018, the Affordable Housing Task Force (“AHTF”) presented its final report to the City Council and the Council discussed the recommendations more thoroughly on August 21, 2018; and

WHEREAS, on October 2 and December 4, 2018, the City Council received a project update on the economic market analysis from the consultant (ECONorthwest/Forterra) related to inclusionary zoning and possible updates to the City's Transfer of Development program; and

WHEREAS, on February 19, 2019, the City Council reviewed and provided direction to staff related to the ECONorthwest/Forterra final report and the AHTF report recommendations, and the Council discussed the status of the Council's Affordable Housing Ad Hoc Committee; and

WHEREAS, City staff members continue to work on prioritizing and organizing work on the inclusionary zoning and other AHTF report recommendations which were endorsed by the Council at its February 19, 2019, meeting and work is ongoing in this effort; and

WHEREAS, the City Council had policy discussions on September 17, 2019 and February 4, 2020 regarding inclusionary zoning or multifamily property tax exemption programs; and

WHEREAS, on February 27, 2018, the City Council was provided with a moratorium work program; and

WHEREAS, on April 10, May 22, June 5, June 19, July 17, August 21, September 4 and 18, October 2 and 16, November 6 and 20, and December 4, 2018, as well as on January 15, February 5 and 19, March 5 and 19, April 2 and 16, May 7 and 21, June 4 and 18, July 2 and 16, August 6 and 20, September 3 and 17, November 5, and December 3, 2019, and January 7, February 4, March 3, April 7, May 5, June 2, July 7, August 4, and September 1, 2020, the City Council was provided further moratorium work program status report updates; and

WHEREAS, on June 26, 2018, the City Council held a public hearing and approved Ordinance No. 2018-23, extending the development moratorium for another 90 days until October 9, 2018; and

WHEREAS, on September 25, 2018, the City Council held a public hearing and approved Ordinance No. 2018-41, and thereby extended the development moratorium for another six (6) months, and in so doing narrowed the moratorium to remove two-lot short subdivisions in which there is an existing single-family residence from the moratorium; and

WHEREAS, on October 16, 2018, the City Council discussed integrating critical area regulations into the Shoreline Master Program (Chapter 16.12 BIMC) and made the policy decision to not apply new Aquifer Recharge Protection Area regulations (BIMC 16.20.100) within the City's shoreline jurisdiction areas; and

WHEREAS, as a result of that policy decision, and the City Council's affirmation on October 23, 2018 that the moratorium should be narrowed in that manner, the Council directed staff to prepare an ordinance to entirely remove Section 3.B. (which, in effect, applied the Aquifer Recharge Protection Area regulations in the City's shoreline jurisdiction areas) from the moratorium; and

WHEREAS, on October 23, 2018, the City Council discussed additional revisions to the development moratorium, including related to excluding from the moratorium certain permit applications for development in the Business/Industrial zoning district, and the Council directed staff to prepare an ordinance to narrow the moratorium accordingly; and

WHEREAS, on October 23, 2018, the City Council also discussed potentially further narrowing provisions of the moratorium related to applications for new short subdivisions that the Council had previously narrowed, and the Council decided to not take such action at that time pending the Planning Commission's ongoing but not yet completed work related to subdivisions, including new subdivision design guidelines and revised subdivision standards and review procedures; and

WHEREAS, on October 23, 2018, the City Council also discussed issues related to making condominiums out of accessory dwelling units ("ADUs") and common ownership of ADUs, and the Council directed staff to work on possible revisions to the BIMC to allow the Council to further consider the common ownership issue related to ADUs; and

WHEREAS, the City Council discussed requiring common ownership for new ADUs at its meetings on June 18, July 23, September 10, and October 22, 2019, and directed staff to begin legislative review with the Planning Commission to adopt such regulations via draft Ordinance No. 2019-09; and

WHEREAS, the Planning Commission discussed Ordinance No. 2019-09 on December 12, 2019 and then held a public hearing on Ordinance No. 2020-02 (formerly Ordinance No. 2019-09) on January 9, 2020; and

WHEREAS, on January 9, 2020, the Planning Commission created a temporary subcommittee to further discuss these topics and other ADU regulations, and that subcommittee submitted recommended changes related to Ordinance No. 2020-02 to the Planning Commission at its February 13, 2020 meeting; and

WHEREAS, the Planning Commission endorsed the subcommittee recommendations on February 13, 2020, and reviewed amended Ordinance No. 2020-02 on February 27, 2020; and

WHEREAS, the Planning Commission held another public hearing on Ordinance No. 2020-02 on March 12, 2020, and after closing the public hearing, recommended approval of Ordinance No. 2020-02 to the City Council; and

WHEREAS, on November 13, 2018, the City Council approved Ordinance No. 2018-43, and thereby narrowed the moratorium as requested by the Council and described above related to entirely removing Section 3.B. (which, in effect, applied the Aquifer Recharge Protection Area regulations in the City's shoreline jurisdiction areas) from the moratorium, and broadening an exclusion related to certain Major Site Plan and Design Review and Major Conditional Use Permit proposals to include in that exclusion such proposals for properties located in the Business/Industrial District; and

WHEREAS, although the City has been working to address the land use issues identified in the development moratorium, as described above, the work is ongoing and not yet completed on affordable housing and some other moratorium work plan items; and

WHEREAS, on September 3 and 10, 2019, the City Council discussed the moratorium, including the option of extending it for two additional months (to December 3, 2019) to allow time for public outreach to educate the public about the new subdivision standards and design review regulations and to possibly extend a more narrow form of the moratorium beyond December 3, 2019, in order to adopt affordable housing requirements; and

WHEREAS, it was anticipated that an extended moratorium would be narrowed to apply only to certain types of development in the Winslow Master Plan Study Area, with some exceptions; and

WHEREAS, on September 24, 2019, the City Council enacted Ordinance No. 2019-26, which extended the moratorium in its then-current form until December 3, 2019, and in a more narrow form from December 4, 2019, until April 3, 2020; and

WHEREAS, the City Council had a policy discussion on February 4, 2020 regarding inclusionary zoning and multifamily property tax exemption programs, and on June 22, 2020 tasked a joint City Council/Planning Commission Ad Hoc Subcommittee to assist in prioritizing land use code changes, including related to affordable housing and accessory dwelling units; and

WHEREAS, on March 24, 2020, the City Council enacted Ordinance No. 2020-09, which extended the moratorium in its current form from April 3, 2020 to October 3, 2020; and

WHEREAS, the City submitted a draft ordinance integrating the updated Critical Areas Ordinance (“CAO”) regulations into the Shoreline Master Program (“SMP”) to the Washington State Department of Ecology (“Ecology”) and received Ecology’s response on December 9, 2019; and

WHEREAS, due to the COVID-19 public health emergency and pandemic, tens of thousands of persons in Washington State have contracted the virus and more than a thousand persons in the state have died due to the virus thus far and during the time period that this moratorium has been in effect, and the public health emergency is ongoing and is expected to continue for many months, and likely much longer; and

WHEREAS, due to the COVID-19 public health emergency and pandemic, the City has been engaged in essential work on a highest-priority basis related to the public health emergency, and as a result City staff and the City Council have had to significantly adjust work priorities accordingly to address the public health crisis, including related to work that the Council has been able to consider at modified Council meetings during this time period; and

WHEREAS, as a result of the public health emergency, the final review and public hearing in response to Ecology’s comments were delayed from March 2020 to June 23, 2020; and

WHEREAS, on June 23, 2020, the City Council directed staff to move forward with the preparation of an ordinance that incorporates Ecology’s required and recommended changes, and staff’s own recommended changes, and to schedule a public hearing for that ordinance at a future meeting; and

WHEREAS, on September 1, 2020, as part of the moratorium update, the City Council directed staff that due to the passage of time that has occurred regarding the variety of topics on the moratorium work plan related to affordable housing, and in that such work on affordable housing at this point is expected to continue in various ways, the Council’s expectation is that such work can continue outside of this moratorium and, as such, the Council directed staff to update the moratorium work plan to remove the affordable housing topic from the work plan; and

WHEREAS, on September 8, 2020, the City Council considered this Ordinance No. 2020-24, which is the ordinance that City staff prepared as directed by the Council at its September 1, 2020 meeting, including related to the revised work plan, and the Council set the public hearing on the ordinance for September 22, 2020; and

WHEREAS, regarding the remaining item on the moratorium work plan, on September 22, 2020, the City Council is scheduled to hold a public hearing on an ordinance related to integrating the CAO into the SMP; and

WHEREAS, the CAO/SMP integration ordinance must be approved by Ecology before it becomes effective, and if the City Council approves the CAO/SMP integration ordinance on September 22, 2020, it is expected, based on information provided by Ecology to the City, that the earliest the ordinance could be in effect would be in November 2020; and

WHEREAS, the City possesses land use jurisdiction and regulatory authority over the City’s incorporated lands; and

WHEREAS, the moratorium promotes the public good and is necessary for the protection of public health, property, safety, and welfare, and the public emergency on which this moratorium was imposed continues to exist and this ordinance does not change the basis for that declaration of emergency, except as described above, nor the effective date of the moratorium, which is January 9, 2018.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BAINBRIDGE ISLAND, WASHINGTON, DO ORDAIN AS FOLLOWS:

Section 1. Findings of Fact. The recitals set forth above are hereby adopted as additional and supplemental findings of fact to the City Council’s initial findings of fact in support of the moratorium, as established by Ordinance Nos. 2018-02, 2018-03, 2018-05, 2018-09, 2018-14, 2018-23, 2018-41, 2018-43, 2019-10, 2019-26, and 2020-09.

Section 2. Public Hearing. Pursuant to RCW 35A.63.220 and RCW 36.70A.390, the City Council conducted a public hearing on this extension of the moratorium at its meeting on September 22, 2020, and took public testimony and considered further findings of fact.

Section 3. Moratorium Amended. The moratorium is hereby amended, as also stated in Section 7 below, to extend the moratorium in its current form as described in Ordinance No. 2020-09 for six months until April 3, 2021, recognizing that the City Council may terminate the moratorium prior to that date depending on when the City completes the moratorium work plan.

Section 4. Moratorium Work Plan. As provided for under RCW 35A.63.220 and RCW 36.70A.390, the City may renew a moratorium for one or more six-month periods if a work plan has been developed, a public hearing has been held, and findings of fact have been made, and the City has thereby previously extended the moratorium as described herein based on the work plan that has been developed and the findings of fact that have been made in this ordinance and the previous ordinances related to this moratorium, and the City is hereby extending the moratorium for an additional six months based on an updated work plan (see attached Exhibit A), conducting another public hearing, and adopting additional findings of fact as stated in this ordinance. Exhibit A (Updated Work Plan) and Exhibit B (Winslow Master Plan Study Area) are incorporated herein to this ordinance.

Section 5. Severability. Should any section, paragraph, sentence, clause, or phrase of this ordinance, or its application to any person or circumstance, be declared unconstitutional or otherwise invalid for any reason, or should any portion of this ordinance be preempted by state or federal law or regulation, such decision or preemption shall not affect the validity of the remaining portions of this ordinance or its application to other persons or circumstances.

Section 6. No Change to Basis for Declaration of Emergency or Effective Date. This ordinance shall take effect and be in force five (5) days from and after its passage and publication as required by law. Provided, that this ordinance is not intended to change the basis of the emergency declarations stated in the moratorium ordinances which preceded this ordinance, Ordinance Nos. 2018-02, 2018-03, 2018-05, 2018-09, 2018-14, 2018-23, 2018-41, 2018-43, 2019-10, 2019-26, and 2020-09, except as described in the “Whereas” clauses of this ordinance. Pursuant to *Matson v. Clark County Board of Commissioners*, 79 Wn. App. 641 (1995), non-exhaustive underlying facts necessary to support the emergency declarations adopted as part of the enactment of this moratorium were included in the “Whereas” clauses of Ordinance No. 2018-02 and Ordinance No. 2018-03, and were restated and supplemented in Ordinance No. 2018-05 and Ordinance No. 2018-09, and Ordinance Nos. 2018-14, 2018-23, 2018-41, 2018-43, 2019-10, 2019-26, and 2020-09, as well as in this ordinance, and those “Whereas” clauses are adopted as findings of fact.

Section 7. Change to Duration to April 3, 2021. This ordinance amends Ordinance No. 2020-09 and hereby extends the current moratorium, and this ordinance shall cause the moratorium to remain effective in its current form until April 3, 2021, unless terminated earlier by the City Council. This ordinance does not change the effective date of the moratorium, which is January 9, 2018. The Council may, at its sole discretion, renew the moratorium for one or

more six (6) month periods in accordance with state law. This ordinance or a summary thereof consisting of the title shall be published in the official newspaper of the City.

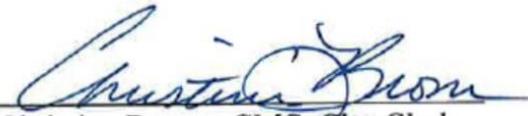
PASSED by the City Council this 22nd day of September, 2020.

APPROVED by the Mayor this 22nd day of September, 2020.



Leslie Schneider, Mayor

ATTEST/AUTHENTICATE:



Christine Brown, CMC, City Clerk

FILED WITH THE CITY CLERK	September 4, 2020
PASSED BY THE CITY COUNCIL	September 22, 2020
PUBLISHED:	September 25, 2020
EFFECTIVE DATE:	September 30, 2020
ORDINANCE NO:	2020-24

Attached:

Exhibit A (Updated Work Plan)

Exhibit B (Winslow Master Plan Study Area)

Exhibit A

Moratorium on Certain Development Work Plan Schedule Ordinance No. 2020-24 (October 2020 – April 2021)

Work Program Item	Description
Critical Areas Ordinance	<p>Adopt the new critical areas ordinance (CAO) into the Shoreline Master Program (SMP). The City sent a draft ordinance to the Dept. of Ecology (Ecology) and received their response on December 9, 2019. Ecology determined that the amendment is largely consistent but has identified elements that appear inconsistent with applicable laws and rules. Due to COVID-19, City staff held a rescheduled March 2020 Council discussion about Ecology's response during the June 23, 2020 City Council meeting. At that meeting, the Council authorized staff to move forward with the preparation of an ordinance that incorporates Ecology's required changes, staff's recommended changes based on Ecology's recommended changes, and staff's own recommended changes, as well as to schedule a public hearing for that ordinance at a future meeting.</p> <p>City staff plans to hold the public hearing on September 22, 2020. Following a public hearing and local adoption by the City Council, Staff will transmit the SMP amendment to Ecology in accordance with WAC 173-26-110 and it will become effective 14 days after final approval by Ecology. With that timeline, the effective date could be early to mid-November.</p>

DEVELOPMENT MORATORIUM SUMMARY: Effective beginning January 9, 2018. The moratorium has been narrowed several times, including most recently effective December 4, 2019, and that form of the moratorium has been extended to April 3, 2021.

On September 22, 2020, the City Council extended the development moratorium **AS IS** again by approving Ordinance 2020-24. The development moratorium in its current form is described below.

Development Activity PROHIBITED During Current Development Moratorium (December 4, 2019-April 3, 2021)

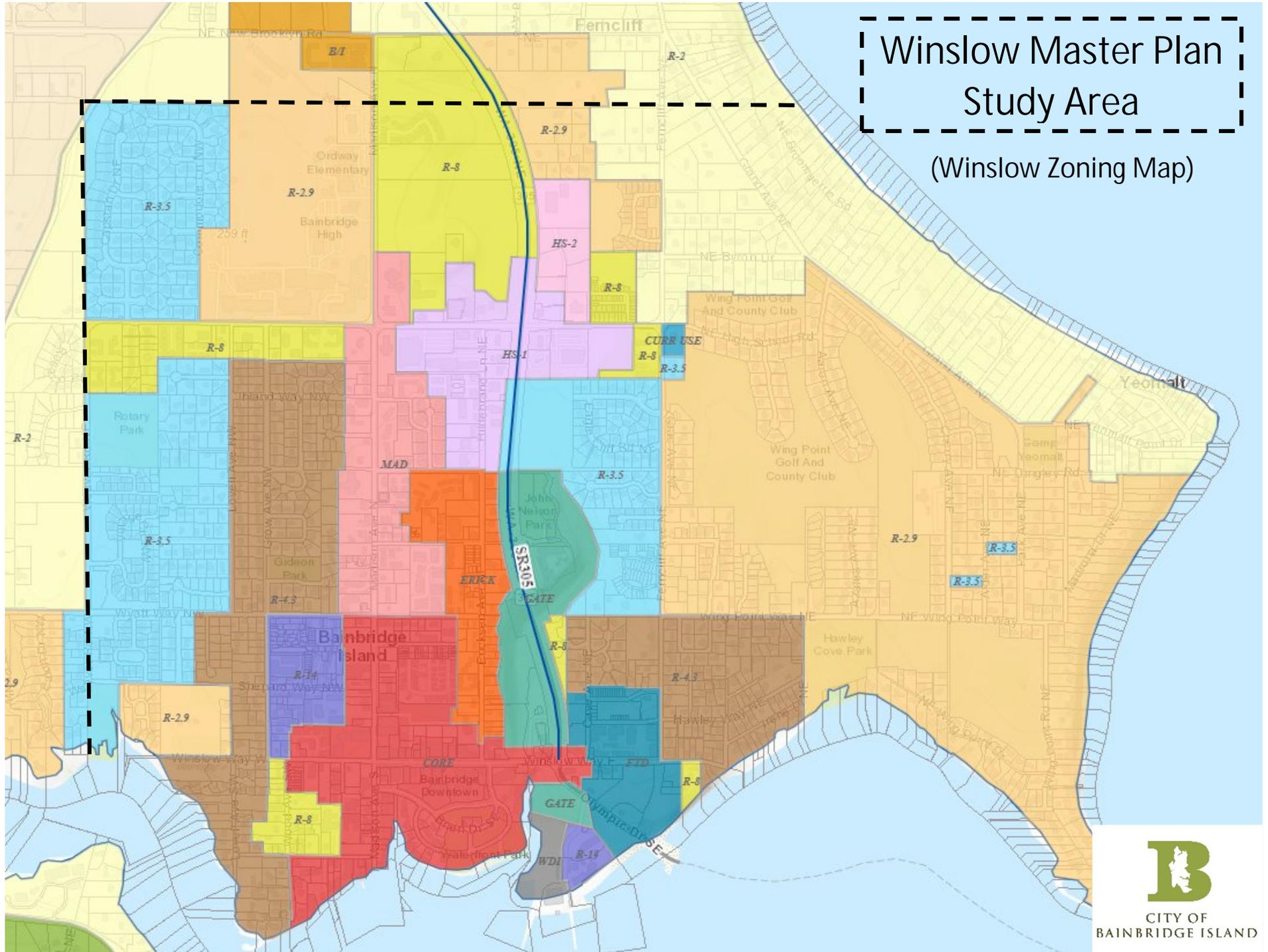
Subject to the exclusions below, the moratorium shall apply to Major Site Plan and Design Review and Major Conditional Use Permit proposals that are for development within the Winslow Master Plan Study Area (see map on next page) and did not, before the effective date of the moratorium, have a pre-application conference on the Planning Department's calendar.

EXCEPTIONS to the Above Development Activities Prohibited During the Narrowed Moratorium:

Exclusions.

1. The moratorium shall not apply in the Mixed-Use Town Center/Central Core Overlay District.
2. The moratorium shall not apply to development proposals that include 10% or more of total residential units designated as affordable housing. "Affordable housing" means affordable housing as governed by Chapters 18.21 and 18.12 of the Bainbridge Island Municipal Code ("BIMC"), as well as BIMC 18.36.030.
3. The moratorium shall not apply to subdivisions.
4. The moratorium shall not apply to permits and approvals for affordable housing projects that qualify as Housing Design Demonstration Project (HDDP) Tier 3 projects pursuant to BIMC 2.16.020.S. and Table 2.16.020.S-1.
5. The moratorium shall not apply to permits and approvals for government facilities and structures; educational facilities and preschools; wireless communication facilities; and emergency medical and disaster relief facilities.

EXHIBIT B



Winslow Master Plan
Study Area

(Winslow Zoning Map)



CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 10 Minutes

AGENDA ITEM: (8:45 PM) Update from Joint City Council and Planning Commission Land Use Subcommittee - Councilmembers Carr, Hytopoulos, and Pollock,

SUMMARY:

Members of the Joint City Council and Planning Commission Land Use Subcommittee will provide an update to the Council.

AGENDA CATEGORY: Discussion

PROPOSED BY: City Council

RECOMMENDED MOTION: Discussion.

STRATEGIC PRIORITY: Green, Well-Planned Community

FISCAL IMPACT:

Amount:	
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	

BACKGROUND:

ATTACHMENTS:

FISCAL DETAILS:

Fund Name(s):

Coding:



CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 20 Minutes

AGENDA ITEM: (8:55 PM) Ordinance No. 2020-23, Creating a Standing Race Equity Advisory Committee - Executive,

SUMMARY: On August 25, 2020, the City Council by motion directed the City Manager to develop an ordinance to implement the creation of a standing advisory committee related to race and equity for Council consideration. Attached for Council review is draft Ordinance No. 2020-23 and a memo outlining recommended discussion points for Council consideration.

AGENDA CATEGORY: Ordinance

PROPOSED BY: Executive

RECOMMENDED MOTION: Consider Recommended Discussion Points.

STRATEGIC PRIORITY: Good Governance

FISCAL IMPACT:

Amount:	
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	

BACKGROUND:

ATTACHMENTS:

[Staff Memo - Recommended Discussion Points](#)

[Ordinance No. 2020-23, Creating a Standing Race Equity Advisory Committee - 10-6-2020 Draft](#)

FISCAL DETAILS:

Fund Name(s):

Coding:



CITY OF
BAINBRIDGE ISLAND

Office of the City Attorney
Memorandum

Date: October 2, 2020

To: The City Council; Morgan Smith, City Manager

From: Robbie Sepler, Deputy City Attorney

Re: Council Discussion Points on Ordinance No. 2020-23, Creating a Standing Race Equity Advisory Committee.

On August 25, 2020, the City Council reviewed a proposal from the Race Equity Task Force (RETF) regarding the creation of a standing advisory committee and proceeded to direct the City Manager to develop an ordinance to implement the creation of a standing advisory committee related to race and equity for Council consideration.

Included in the packet for the October 6, 2020 Council Meeting is a draft ordinance for initial Council consideration. To assist staff in completing work on the ordinance, Council guidance is requested on the discussion points listed below. These discussion points are also called out in comments on the draft ordinance Council received in the packet.

Council Discussion Points:

1. How many members should be appointed to the standing advisory committee?

- In its August 25, 2020 proposal, the RETF proposes that the standing advisory committee consist of nine members. Of the City's ten standing city advisory groups, only the Environmental Technical Advisory Committee (ETAC) and the Climate Change Advisory Committee (CCAC) have more than seven members (each has nine members). The other eight standing city advisory groups each have seven or fewer members. The RETF currently consists of seven members. Note, the City currently has six other city advisory groups that were formed for specific work in a limited duration of time. These advisory groups each generally consist of seven or more members.

2. How long should the term of each member appointed to the standing advisory committee be?

- Currently, the terms of all seven members of the RETF are set to expire in December 2020. Members of other standing city advisory groups typically serve for three-year terms.

3. Should the terms of members of the standing advisory committee be staggered? If so, should the terms be staggered as shown in Section 2 of the draft ordinance?

- Currently, the terms of members of the RETF are not staggered and are all set to expire at the same time. To preserve institutional knowledge on standing city advisory groups, the terms of members appointed to standing city advisory groups are typically staggered. In order to achieve staggered terms, members would need to be appointed to the standing advisory committee for different initial terms. As drafted, Ordinance No. 2020-23 would stagger the initial terms of members of the standing advisory committee as follows: Positions 1, 2, and 3 shall be three years; Positions 4 and 5 shall be two years; and Positions 6 and 7 shall be one year. Members appointed to shorter initial terms could be reappointed to a new term at the Mayor's and City Council's discretion.

4. What special qualifications, if any, should individuals appointed to the standing advisory committee have?

- Ordinances creating other standing city advisory groups typically include qualifications that individuals must meet to be appointed. Such qualifications are not required, but present an opportunity for the Council to specify what expertise the Council is looking for when appointing individuals to serve on the standing advisory committee.

5. Does BIMC 2.72.040 reflect the duties and responsibilities that Council seeks to assign to the standing advisory committee?

- BIMC 2.72.040 draws extensively from the Race Equity Task Force's proposal considered by the City Council on August 25, 2020. As city advisory groups are formed to provide advice and expertise to the City Council, the draft ordinance reflects that the standing advisory committee's work plan each year will be established by the City Council.

6. Regarding proposed BIMC 2.72.040.A.3 and A.4, what will the baseline assessment of policies be reviewing for?

- Based on the context of the proposed language, it appears that the assessment will review for race equity. However, additional clarifying language is recommended to ensure that the responsibility is clearly articulated

7. Should the standing advisory committee be authorized to spend City funds?

- No other city advisory group is authorized to spend City Funds. The proposal from the Race Equity Task Force contains references to hiring race equity consultants. To ensure compliance with the City's Procurement Policy and related state law requirements, the expenditure of City funds for purchases or consulting services is the responsibility of City staff. As such, references to consultants have been removed in the draft ordinance as consulting services will be procured based on the resources allocated in the biennial budget and in conformance with the City's Procurement Policy and Council-approved work plan for the standing advisory committee.

ORDINANCE NO. 2020-23

AN ORDINANCE of the City of Bainbridge Island, Washington, relating to race equity; Adopting a new Chapter 2.72 of the Bainbridge Island Municipal Code to create a standing race equity advisory committee.

WHEREAS, on December 4, 2018, the City Council by motion created a race equity task force to provide advice to the City Council on matters of identifying programmatic community and legislative options to ensure that Bainbridge Island lives up to its commitment to be an open and welcoming community for all; and

WHEREAS, the initial term of the task force was set to expire on July 1, 2019; and

WHEREAS, on June 25, 2019, the City Council by motion approved a work plan for the task force and extended the term of the task force through December 31, 2019; and

WHEREAS, on December 10, 2019, the City Council by motion approved a 2020 work plan for the task force and extended the term of the task force through December 31, 2020; and

WHEREAS, on August 25, 2020, the City Council by motion added several items to the task force’s 2020 work plan and directed the City Manager to develop an ordinance to implement the creation of a standing advisory committee related to race and equity for Council consideration.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BAINBRIDGE ISLAND, WASHINGTON, DOES ORDAIN AS FOLLOWS:

Section 1. A new Chapter 2.72 of the Bainbridge Island Municipal Code (BIMC), establishing a standing Race Equity Advisory Committee, is hereby adopted in its entirety to read as shown on attached **Exhibit A**.

Section 2. The Race Equity Task Force, as created by motion of the City Council on December 4, 2018, is hereby dissolved and its members are hereby appointed to serve on the Race Equity Advisory Committee, created under Chapter 2.72 BIMC, for positions and initial terms indicated in the table below:

Commented [RS1]: Discussion Point No. 3: Should the terms of members of the standing advisory committee be staggered? If so, should the terms be staggered as shown in Section 2 of the draft ordinance? (See Page 5 of 6)

Position	Name	Term Expires
1	Brenda Fantroy-Johnson	December 31, 2023
2	Annya Pintak	December 31, 2023
3	James Friday	December 31, 2023
4	Daryl Blackwell	December 31, 2022
5	Sue Wilmot	December 31, 2022
6	Savanna Rovelstad	December 31, 2021
7	Peggi Erickson	December 31, 2021

Section 3: The 2020 work plan for the Race Equity Task Force approved by the City Council on December 10, 2019, and modified by City Council on August 25, 2020, shall become the 2020 work plan for the Race Equity Advisory Committee.

Section 4. This ordinance shall take effect and be in force five (5) days from its passage and publication as required by law.

PASSED by the City Council this ____ day of _____, 2020.

APPROVED by the Mayor this ____ day of _____, 2020.

Leslie Schneider, Mayor

ATTEST/AUTHENTICATE:

Christine Brown, CMC, City Clerk

FILED WITH THE CITY CLERK:
PASSED BY THE CITY COUNCIL:
PUBLISHED:
EFFECTIVE DATE:
ORDINANCE NUMBER:

2020-23

Exhibit A: Chapter 2.72 BIMC

DRAFT

Exhibit A

Chapter 2.72
RACE EQUITY ADVISORY COMMITTEE

Sections:

- 2.72.010 Recognition
- 2.72.020 Establishment and Purpose
- 2.72.030 Membership and Qualifications
- 2.72.040 Duties and Responsibilities
- 2.72.050 Meetings, officers, records, and quorum.

2.72.010 Recognition

In order to dismantle systemic and structural racism within our government and community, local leaders must commit to a long term action plan that recognizes the differences between individual, institutional, and structural racism, as well as the history and current reality of inequities for all marginalized groups. Failure to make and follow through with the commitment will jeopardize the development and success of racial equity on Bainbridge Island.

2.72.020 Establishment and Purpose

A. This chapter establishes a standing race equity advisory committee, hereinafter called the “committee,” to provide informed recommendations to the city council on programmatic, community, and legislative options to address and rectify systemic and structural racism and bias within government and law enforcement.

B. Working for racial equity benefits everyone. Deeply radicalized systems are costly and depress outcomes and life chances for all groups. The goal of the committee is not to just eliminate the gap between white people and people of color, but to increase the success for all groups. While strategies to achieve racial equity may target the needs of a particular group, racial equity develops goals and outcomes that will result in improvements for all groups. Systems that are failing communities of color are actually failing all of us.

2.72.030 Membership and Qualifications

A. The committee shall consist of a maximum of seven members who shall be appointed by the mayor and confirmed by a vote of the city council.

B. The committee shall consist of [insert description of qualifications].

Commented [RS2]: Discussion Point No. 1: How many members should be appointed to the standing advisory committee?

Commented [RS3]: Discussion Point No. 4: What special qualifications, if any, should individuals appointed to the standing advisory committee have?

C. Members shall serve for three-year terms, except that the initial terms of the seven positions on the committee shall be staggered as follows: Positions 1, 2, and 3 shall be three years; Positions 4 and 5 shall be two years; and Positions 6 and 7 shall be one year. Upon expiration of their term, members shall continue to hold office until her or his successor has been deemed qualified and been appointed.

Commented [RS4]: Discussion Point No. 2: How long should the term of each member appointed to the standing advisory committee be?

D. Upon expiration of their term, a member may be reappointed to the committee for a new term; provided that no member may serve more than three consecutive terms unless the city council determines either that their special expertise is required or there are no other qualified applicants.

Commented [RS5]: Discussion Point No. 3: Should the terms of members of the standing advisory committee be staggered? If so, should the terms be staggered as shown in Section 2 of the draft ordinance? (See Page 1 of 6)

E. Members shall not be employees or officers of the city. Members shall not be appointed to another city advisory group, except for specialized advisory groups of limited duration.

F. Members shall serve without compensation.

G. Members shall sign a conflict of interest statement in accordance with the city's code of conduct and ethics program upon appointment and any reappointment.

2.72.040 Duties and Responsibilities

Commented [RS6]: Discussion Point No. 5: Does BIMC 2.72.040 reflect the duties and responsibilities that Council seeks to assign to the standing advisory committee?

A. The Committee shall have the following duties and responsibilities:

Discussion Point No. 7: Should the standing advisory committee be authorized to spend City funds?

1. As directed by the city council, serve as a technical and planning advisory committee to the city council on issues related to racism and race-related bias.
2. As directed by the city council, assist the city in implementing racial equity-related goals and policies as expeditiously as committee and city resources allow.
3. As directed by the city council, provide advice or recommendations to the city council, as appropriate, on methods of completing a baseline city government and police department assessment of policies regarding staffing, contracting, and decision-making.
4. As directed by the city council, assist with or manage the completion of a baseline city government and police department assessment of policies and procedures.
5. Recommend to the city council a racial equity action plan and implementation strategy.

Commented [RS7]: Discussion Point No. 6: Regarding proposed BIMC 2.72.040.A.3 and A.4, what will the baseline assessment of policies be reviewing for?

6. Provide advice or recommendations to the city council, as appropriate, on how to measure progress toward implementing the city's racial equity action plan.
7. As directed by the city council, assist the city with participation in regional racial equity efforts.
8. Provide education and outreach to the public regarding racial equity and the work of the committee and the city relating to racial equity.

B. Annually provide a report to the city council on committee work completed within the last year and obtain the city council's approval of a work plan for work to be performed by the committee in the following year.

2.72.050 Meetings, officers, records, and quorum.

A. All meetings of the committee shall be open to the public and held in accordance with the Open Public Meetings Act, Chapter 42 30 RCW. The committee shall establish a regular meeting schedule and announce the specific day and time each month that the committee will conduct its regular meeting(s). The committee may schedule special meetings as necessary to conduct the business of the committee.

B. Four members of the committee shall constitute a quorum.

C. The committee shall annually elect from among its members either a chair or one or more co-chairs. The committee shall also annually elect from among its members a secretary. Once elected, the chair or co-chairs and the secretary shall each serve a one-year term.

D. The city shall provide city email accounts to committee members and related training on the use of email accounts, including personal computer privacy expectations while serving on the committee.



CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 30 Minutes

AGENDA ITEM: (9:15 PM) Legislative Review of Land Use Regulations (Code Amendment), related to Eliminating a 500' Setback that Applies to Waste Transfer Facilities and Increasing Lot Coverage for Two Lots Commonly referred to as the "Triangle Property" - Planning,

SUMMARY: Pursuant to BIMC 2.16.180, any person, entity, or the City may propose an amendment to BIMC Chapters 2, 16, 17, & 18. On February 6, 2019, the applicant, Mollie Bogardus (on behalf of Aveterra) requested a legislative review of land use regulations (code amendment) as provided in BIMC 2.16.180. The applicant's request includes two potential code changes:

1. To exclude two lots commonly known as the "Triangle Property" from a 500' setback in BIMC 18.09.030.G.3. that applies to waste transfer facilities; and
2. To create a use- or parcel-specific dimensional standard that would increase the allowed lot coverage from 10%.

As required in the BIMC, the Planning Commission held a public hearing on the legislative request. Following a series of meetings, the Planning Commission ultimately recommended denial.

The City Council makes the final decision on legislative code amendment requests. The Council decision options include: approving an ordinance amending the BIMC; rejecting the proposal; or remanding the proposal to the appropriate body for further consideration (see Suggested Action above). If the Council is considering approving a code amendment, staff will return to the Council with a draft ordinance. The Council would then set a public hearing, and subsequently conduct the public hearing to consider and make a determination regarding the proposal.

For this agenda item, staff is interested if the Council would like to hold a public hearing on this proposal, or pursue the other options available including rejecting or remanding the proposal. Representatives from the Planning Commission, staff, and the applicant will be present to share information and answer questions.

AGENDA CATEGORY: Discussion

PROPOSED BY: Planning & Community Development

RECOMMENDED MOTION: Discuss the code amendment request and determine if the City Council would like to: (1) hold a public hearing at a future meeting before making a final decision on the request; (2) require further consideration of the proposal by the Planning Department, a City Council committee, or the Planning Commission; or (3) reject the proposal. If the Council decides to hold a public hearing before making a decision, staff will prepare a draft ordinance for the Council to consider at a future meeting.

STRATEGIC PRIORITY: Green, Well-Planned Community

FISCAL IMPACT:	
Amount:	
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	

BACKGROUND: See staff memorandum and attachments A and B.

Planning Commission representatives will be present at the meeting for questions about their recorded motion and the subcommittee's recommendation to the Planning Commission. Staff and the applicant will also be present to provide an overview of the proposal and answer any questions.

ATTACHMENTS:

[20201002 CC Staff Memo Aveterra Legislative Review of Land Use Regulations](#)

[Attachment A Planning Commission Review Summary](#)

[Attachment B Planning Commission Recorded Motion](#)

FISCAL DETAILS:

Fund Name(s):

Coding:



Department of Planning and Community Development

Memorandum

Date: October 2, 2020
To: City Council
From: Annie Hillier
Associate Planner
Subject: Legislative Review of Land Use Regulation Request
(Link to application file: [PLN51245 LDR](#))

I. INTRODUCTION TO REQUEST

On February 6, 2019, the applicant, Mollie Bogardus (on behalf of Aveterra) requested a legislative review of land use regulations (code amendment) as provided in [BIMC 2.16.180](#), which allows any person or entity to propose an amendment to the Bainbridge Island Municipal Code (BIMC). The applicant's request includes two potential code changes:

1. To exclude two lots commonly known as the "Triangle Property" from a 500' setback in [BIMC 18.09.030](#).G.3. that applies to waste transfer facilities; and
2. To create a use- or parcel-specific dimensional standard that would increase the allowed lot coverage from 10%.

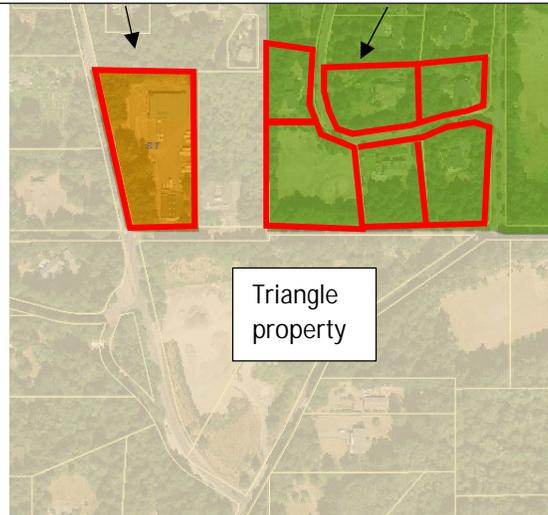
If approved, the applicant intends to apply for a conditional use permit (CUP) to locate a compost facility on the Triangle Property.

This code amendment request by Aveterra is somewhat unique, in that it is tied to a specific property. However, the BIMC does contain other parcel-specific regulations. In the review and analysis of the code amendment request, Planning Department staff also identified alternative options to the proposed code amendment that could achieve the same intent, without being specifically associated with the Triangle Property.

II. BACKGROUND

Composting, a use defined under the term "waste-transfer facility" in [BIMC 18.36.030](#), is allowed in the R-0.4 zoning designation with a conditional use permit (CUP); waste-transfer facilities are prohibited in all other zoning designations. The 500' setback from waste-transfer facility operations applies to properties in zoning designations other than R-0.4. Eliminating the setback for the Triangle Property would allow a future composting operation to be located within 500' of approximately 7 lots that are not zoned R-0.4.

Lots within 500' of properties in zoning designations other than R-0.4 as relates to proposed future operations



The applicant does not believe the 500' setback is necessary for compost facilities because odors are strictly regulated by the Department of Ecology (Ecology) through a state-issued [solid waste permit](#), which requires an approved [odor management plan](#). The state requires compost facilities to meet the performance standards in [WAC 173-350-040](#), but does not require any specific location standards or setbacks. City staff reached out to the Solid Waste Facilities Specialist at Ecology for feedback on any state regulations from which the 500' setback in the BIMC may have been derived. The Specialist indicated that the 500' setback may have originated from the state standards for a municipal solid waste landfill, which have a 150m (490') setback requirement in the state regulations. The Specialist also provided that different types of solid waste facilities have different setbacks in the state regulations (although compost facilities do not), and that the 490' setback is intended for protection from landfill gas migration, which is not a concern at a compost facility.

Additionally, the applicant believes that lot coverage (defined in [BIMC 18.12.050.K.](#)), which is limited to 10% in the R-0.4 zone, should be increased to accommodate the containment of material through each stage of the composting process, in order to prevent leaching. Even with a lot as large as the Triangle property (7.92 acres total), the applicant believes that limiting lot coverage to 10% of the lot area is infeasible for a commercial compost facility.

III. STAFF ANALYSIS

Applicant's Request

The BIMC contains other examples of parcel- and use-specific regulations that may serve as a precedent for the applicant's request:

- [BIMC Chapter 18.24.110.B.](#), within the Historic Preservation Program, identifies specific tax parcel numbers in the Fort Ward historic overlay district that are allowed higher densities and that are subject to certain standards for maintenance or rehabilitation of the exteriors of existing buildings.
- [BIMC Table 18.12.020-2](#), Standard Lot Dimensional Standards for Residential Zone Districts, provides footnotes that contain additional requirements for specific parcels as well as specific uses. Footnote 1 indicates a parcel in Lynwood center that is allowed a higher density than other R-2 lots; footnote 4 provides additional height allowances for community and educational facilities.

- [BIMC 2.16.110.G.7.](#), Additional Decision Criteria for Institutions in Residential Zones, provides greater lot coverage allowances for institutions that require a major CUP. For example, public schools and governmental facilities that are located in the R-0.4 zoning district are allowed 150 percent of the lot coverage established in the R-0.4 zoning district.
- [BIMC 18.12.030.C.](#), Transition Standards in the Ferry Terminal Overlay District, provides alternative height and landscaping requirements for a specific region located north of Winslow Way East, in the ferry terminal overlay district.
- [BIMC 18.09.030.](#), Use Specific Standards, contains additional standards for uses permitted as a permitted ("P") use or as a conditional ("C") use in the permitted use table (BIMC 18.09.020).

With respect to the applicant's request to increase lot coverage on the Triangle Property, staff also notes that the R-0.4 zoning district has the lowest lot coverage allowance, consistent with the purpose of that district: the preservation of natural systems and open space. A lower lot coverage allowance means more space free of buildings. However, on the Triangle Property, limiting lot coverage to 10% may not preserve natural systems as intended, since the majority of the property has been cleared due to its historic use as a mine.

Staff performed a preliminary search for lots that could support a similarly-sized compost facility and meet the 500' setback from zoning districts other than R-0.4. To perform this search, many lots were immediately eliminated because of their low likelihood to support a compost facility. These included lots developed with a use, lots containing critical areas, open space areas associated with subdivisions, and lots owned by the Bainbridge Island Land Trust or Bainbridge Island Metro Park and Recreation District. After these lots were excluded, staff found that there are approximately 18 lots located on the island that meet the code as written and meet the applicant's minimum size requirement (5 acres). Of these, it appeared that all but 2 of those lots are heavily vegetated.

The applicant's request is also largely consistent with the Comprehensive Plan. Staff did not identify any goals or policies that explicitly conflict with the request. Rather, most goals and policies either support the request or are not applicable. (See September 12, 2019 memorandum in Attachment A for Comprehensive Plan analysis.)

Alternatives

In reviewing the applicant's code amendment request, staff identified alternative options that could achieve the same intent without being specifically associated with the Triangle Property.

With respect to the applicant's request to eliminate the 500' setback, staff notes that if this regulation is intended to serve as a nuisance regulation but is unnecessary for a composting facility due to state regulations, then the City Council may wish to consider a broader code amendment that would apply to all composting facilities, rather than a specific parcel.

With respect to the applicant's request to increase lot coverage, staff notes that if 10% lot coverage is too low for commercial composting facilities due to the need to cover the composting materials, the Council may wish to consider excluding covered composting pads from lot coverage calculations.

These changes could be achieved with an amendment to BIMC 18.09.030.G.3., the use-specific standards for waste transfer facilities (underlined text added by staff), as follows:

- a) No waste transfer facility operation, except uses that manufacture or produce goods or energy from the composting of organic material or processing of scrap or waste material,

shall be conducted within 500 feet of a property located in any zone district other than the R-0.4 zone district.

- b) All waste transfer facility operations shall maintain a full screen landscaped buffer meeting the standards of BIMC [18.15.010](#).D.4.a and at least 50 feet wide around each waste transfer facility operation. The width of the buffer may be increased up to 100 feet by the planning director through the same standards that apply to B/I district buffers.
- c) All waste transfer facility operations and operators shall comply with all applicable requirements of Chapter [70.95](#) RCW (Solid Waste Management), Chapter [173-350](#) WAC (Solid Waste Handling Standards), and Chapter [173-351](#) WAC (Criteria for Municipal Solid Waste Landfills), including the requirement to obtain and maintain a current solid waste permit and to comply with all conditions attached to that permit.
- d) Semi-enclosed composting pads used for the storage of input material, processing systems, and output material are excluded from lot coverage calculations.

Another alternative to the applicant's request would be for the applicant to apply for a zoning variance to reduce setback and increase lot coverage. The applicant did not pursue this option primarily because the standards that must be varied may be inapplicable to composting facilities in the first place, and the decision criteria for a major variance ([BIMC 2.16.120](#)) would be difficult to meet. For example, decision criterion E.1.c. requires that an applicant demonstrate that "the variance is necessary for the preservation and enjoyment of a substantial property right possessed by other property in the same vicinity and zone, but that is denied to the property in question because of special circumstances on the property in question." It may be difficult for the applicant to address this criterion, as well as others, since there are no other composting facilities in the immediate vicinity.

IV. PLANNING COMMISSION REVIEW & RECOMMENDATION

Pursuant to BIMC 2.16.180, Planning Commission review and recommendation is required for amendments to Title 18 BIMC. The Planning Commission is required to hold a public hearing and consider applicable decision criteria of this chapter, all applicable law, the comprehensive plan, public comment, and any necessary documents and approvals.

The Planning Commission reviewed the code amendment request between September 12, 2019 – January 23, 2020, including three study sessions, one subcommittee meeting, and a public hearing. Public comment was invited at each study session and via the public hearing. Written public comments received by the City were also provided to the Planning Commission. At the September 26, 2019 meeting, the Planning Commission recommended that a subcommittee be formed to further discuss the applicant's request and to bring a recommendation to the larger group. At the December 12, 2019 meeting, the Planning Commission reviewed the subcommittee's recommendations which included responding to the applicant's request for a parcel-specific code amendment. The subcommittee also recommended consideration of an alternative, broader code amendment to the use-specific standards for waste transfer facilities in BIMC 18.09.030.G.3. that would apply to all composting facilities, rather than a specific parcel.

Ultimately the Planning Commission made a motion to deny the proposal and all code amendment options and requested that an ordinance not be drafted because they intended to formally deny the request after the subsequent public hearing. Following the January 23, 2020 public hearing, the Planning Commission recommended that the City Council deny the proposal. The Planning Commission's written recommendation is attached (Attachment B).

V. CITY COUNCIL REVIEW

Pursuant to BIMC 2.16.180.F., the City Council has the option to hold a public hearing on the proposed code amendment. For this agenda item, staff requests that the City Council determine if they would like to: (1) hold a public hearing before making a final decision on the request; (2) require further consideration of the proposal by the Planning Department, a City Council committee, or the Planning Commission; or (3) reject the proposal. If the City Council decides to hold a public hearing before making a decision, staff will prepare a draft ordinance for the Council to consider and to receive Council input. The Council would first set the public hearing based on that draft ordinance, and subsequently conduct the public hearing and consider what action to take regarding the ordinance. SEPA review would be conducted prior to adoption of an ordinance.

As provided in BIMC 2.16.180.G., the City Council shall consider the following in deciding upon the proposed code amendment: testimony presented, or the minutes of any City Council public hearing; any written material submitted as part of the public hearing process; the recommendation of the Planning Commission and the applicable department director; any applicable decision criteria; and any relevant provisions of the Revised Code of Washington or the Washington Administrative Code. As the BIMC does not provide decision criteria for legislative reviews of land use regulations, the Planning Department Director has not made a recommendation on the proposal.

PLANNING COMMISSION REVIEW & RECOMMENDATION

September 12, 2019 Study Session

The [September 12, 2019 Memorandum](#):

- Introduces the code amendment request
- Provides an analysis of the code amendment request with respect to the Comprehensive Plan and the BIMC
- Includes a table (pg. 12) that summarizes various ways the code could be amended to achieve the applicant's intent, including alternative options

Action	The Planning Commission requested a second study session. The Planning Commission posed several questions/topics for staff to respond to at that meeting.
--------	---

September 26, 2019 Study Session

The [September 26, 2019 Memorandum](#) responds to the items raised by the Planning Commission at the previous meeting, including:

- The feasibility of other locations
- How to address concerns about traffic and landscaping
- The reason for the 500' setback to waste-transfer facilities

Action	The Planning Commission formed a subcommittee to further discuss the code amendment and to bring a recommendation to the larger group.
--------	--

October 1, 2019 Subcommittee Meeting

The [October 1, 2019 Memorandum](#):

- Provides a specific example of how the use-specific standards for waste-transfer facilities in BIMC 18.09.030.G.3 could be amended to achieve the applicant's request
- Provides examples of parcel- and use-specific regulations in the BIMC, that may serve as precedent for the applicant's request

Action	The subcommittee recommended that the full Planning Commission first respond to the applicant's request for a parcel-specific code amendment. If that request could not be supported, then the subcommittee requested consideration of a broader amendment to BIMC 18.09.030.G(3) (Industrial Uses, Waste Transfer Facility).
--------	---

December 12, 2019 Study Session

The [December 12, 2019 Memorandum](#):

- Presents the subcommittee's findings and recommendation to the larger Planning Commission, including the request to consider a broader code amendment if the applicant's parcel-specific request could not be supported
- Provides two staff-recommended alternatives to the subcommittee's proposed language, to achieve a similar outcome

Action	The Planning Commission made a motion to deny the proposal, including the alternative approach set forth by the subcommittee.
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January 23, 2020 Public Hearing

The [January 23, 2020 Memorandum](#):

- Provides a brief background and summarizes the Planning Commission's role in the public hearing

Action	After public comment was received, the Planning Commission recommended denial of the proposal.
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PLANNING COMMISSION RECORDED MOTION

Planning Commission Meeting Date:	January 23, 2020
Project Proposal Name and Number:	Aveterra Code Amendment Request- PLN51245 LDR
Documents available at:	Online Permit Portal
Public Hearing Date:	January 23, 2020
Decision Maker:	City Council

Purpose: The purpose of the Planning Commission’s review and recommendation is to determine if a proposed project is consistent with the comprehensive plan and applicable design guidelines, BIMC Titles 17 and 18.

Consideration: The Planning Commission shall consider the project application at a public meeting where public comment will be taken. The Planning Commission shall recommend approval, approval with conditions, or denial of the proposed project.

The Planning Commission will adopt written findings of facts and conclusions and determine if the project is consistent with Bainbridge Island Municipal Code and the comprehensive plan. This motion will be included in the staff report transmitted to the reviewing bodies and decision maker.

Findings of Fact and Reasons for Action

The Planning Commission finds that a Composting Facility may be a valid use of some sites in the R-0.4 zone, but at the present time such a use is not adequately supported and regulated by provisions in the Bainbridge Island Municipal Code. Therefore, we did not want to make a code amendment for a project on a parcel by parcel basis.

Recommendation:

The Planning Commission recommends the City Council:

- X Deny the proposal for the following reasons:
 - a. A composting facility at this site is not a suitable use for this property. We were not provided with sufficient information to support the lot coverage increase or the reduction of the setbacks.



CITY OF
BAINBRIDGE ISLAND

Planning Commission Recorded Motion

Recorded motion on January 23, 2020:

I move to deny the "Aveterra Code Amendment Request" as presented to us by staff, finding that valid objections have been raised by Planning Commissioners and the public to this site-specific approach to permitting a use of residentially zoned property.

Planning Commission Record of Vote:

<u>Commissioner</u>	<u>Support</u>	<u>Oppose</u>	<u>Absent</u>	<u>Abstain</u>
Chester	X			
McCormick Osmond			X	
Pearl			X	
Quitslund	X			
Macchio	X			
Doman	X			
Paar	X			
Total				

CITY OF BAINBRIDGE ISLAND PLANNING COMMISSION


WILLIAM J. CHESTER
Chair

Date: 1/23/2020


Jane M. Rasely
Administrative Specialist, Planning and Community Development

Date: 1-23-2020



CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 5 Minutes

AGENDA ITEM: (9:45 PM) Appointment to Kitsap Public Facilities District Board - Mayor Schneider,

SUMMARY: Following an interview by Mayor Schneider and Deputy Mayor Deets, the Mayor recommends the reappointment of Tom Bullock to the Kitsap County Public Facilities District Board of Directors. Mr. Bullock has been serving in this position since 2014. Due to the need to have Bainbridge representation at the Board's October meeting, the recommended motion is to approve the appointment tonight.

For background, attached are Kitsap County Resolution Nos. 093-2000 and 139-2000 related to the creation of the Public Facilities District ("PFD"), and establishing the terms and duties of the PFD Board of Directors.

AGENDA CATEGORY: Appointment

PROPOSED BY: City Council

RECOMMENDED MOTION: I move to recommend Tom Bullock for reappointment to the Kitsap Public Facilities District Board for a four-year term through June 30, 2024.

STRATEGIC PRIORITY: Good Governance

FISCAL IMPACT:

Amount:	
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	

BACKGROUND:

ATTACHMENTS:

[Bullock - Kitsap Public Facilities District \(Redacted\).pdf](#)

[\[For Background\] Kitsap County Resolution No. 93-2000.pdf](#)

[\[For Background\] Kitsap County Resolution No. 139-2000.pdf](#)

FISCAL DETAILS:

Fund Name(s):

Coding:

From: noreply@civicplus.com
To: [City Admin](#)
Subject: Online Form Submittal: City Advisory Group Application
Date: Tuesday, May 5, 2020 2:56:12 PM

City Advisory Group Application

Step 1

Please complete the form below if you are interested in serving on a committee or commission. Once completed, this form will become part of the City's Volunteer Roster. Please note: once submitted, this application becomes a public record. Your address and contact information will not be shared.

Applicant Name	Thomas Bullock
Email	
Phone	
Address	13045 N Madison Avenue NE
City	Bainbridge Island
State	WA
Zip	98110
Current Employer	eContext.ai LLC dba Complementics
Current Position	Director of Data Partnerships
I am interested in serving on one of the following City advisory groups (select all that apply):	Kitsap Public Facilities District
Experience & Qualifications	
Have you served on any City advisory groups in the past?	No
If so, please indicate which groups:	<i>Field not completed.</i>
Please share your qualifications for this appointment (skills,	25 years business experience 4 years Bainbridge Island Little League Board member 2 years Bainbridge Island Little League fields manager

activities, training, education) if any:

5 1/2 years Director, Kitsap Public Facilities District (initially appointed mid-term by Mayor Ann Blair then reappointed by Kol Medina in 2016 (four year term)

Please share your community interests (groups, committees, organizations) if any:

Bainbridge Island Little League

Feel free to attach your resume (optional):

Field not completed.

Type the Year

2020

How did you hear about the volunteer opportunity?

Other (please specify below)

Other

current KPFD Board member

Email not displaying correctly? [View it in your browser.](#)

RESOLUTION NO. 093 -2000**RESOLUTION CREATING A PUBLIC FACILITIES DISTRICT
AND PROVIDING FOR APPOINTMENT OF MEMBERS
TO THE DISTRICT**

WHEREAS, the Kitsap County Board of Commissioners advocates for public participation and supports and encourages citizen involvement in all matters of County government; and

WHEREAS, the Board of Commissioners supports the need for community facilities which will best represent the interests of all citizens of Kitsap County; and

WHEREAS, the Board of Commissioners recognizes the need to form a Public Facilities District (PFD); and

WHEREAS, Resolution No. 371-1996 formed an Advisory Committee for Kitsap Community Facilities, consisting of nine (9) members, to investigate and report to the Board ideas, information and recommendations about community facilities; and

WHEREAS, citizens have continued to express interest in the need for public recreational facilities.

NOW, THEREFORE, BE IT RESOLVED, by the Kitsap County Board of Commissioners that:

1. A Public Facilities District be created;
2. Seven (7) members be appointed to serve on the District Board, said member to be comprised of one (1) member from each of the four cities located within Kitsap County and one (1) member from each of the three commissioner districts;
3. The authority of the PFD be, per RCW 36.100.030, to acquire, construct, own, remodel, maintain and operate sports, entertainment and convention facilities either by itself or jointly with other public or private parties or entities. Such PFD may impose charges or fees for use of its facilities and may accept gifts, grants and donations but may not impose any taxes unless the voters of the PFD approve such tax by majority vote at a general or special election; and
4. The responsibilities of the PFD shall have the same responsibilities to conduct and manage its duties as any other municipal corporation. The Kitsap Community Facilities Committee, created by Resolution 371-1996, unanimously recommended that the proposed PFD **only** construct or acquire new facilities which would either generate sufficient user fees or have other guaranteed financial sources to pay all maintenance and operation expenses.

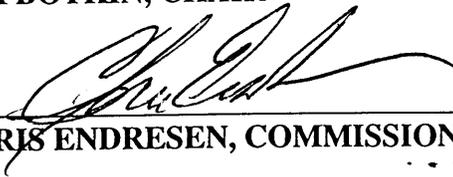
BE IT FURTHER RESOLVED that Board members shall serve without compensation.

ADOPTED this 15th day of May, 2000.

KITSAP COUNTY BOARD OF COMMISSIONERS



TIM BOTKIN, CHAIR



CHRIS ENDRESEN, COMMISSIONER

NOT PRESENT

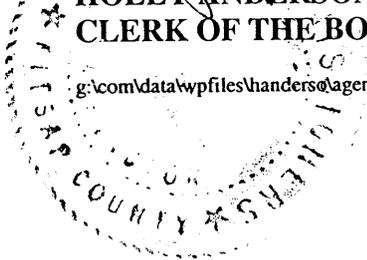
CHARLOTTE GARRIDO, COMMISSIONER

ATTEST:



HOLLY ANDERSON
CLERK OF THE BOARD

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RESOLUTION NO. 139 -2000**RESOLUTION ESTABLISHING THE TERMS AND DUTIES OF THE
KITSAP COUNTY PUBLIC FACILITIES DISTRICT BOARD OF DIRECTORS**

WHEREAS, the Kitsap County Board of Commissioners advocates for public participation and supports and encourages citizen involvement in all matters of County government; and

WHEREAS, Resolution No. 093-2000 established the Kitsap County Public Facilities District (PFD) hereafter referred to as "PFD" consisting of seven (7) members comprised of one (1) member from each of the four cities located within Kitsap County and one (1) member from each of the three commissioner districts; and

WHEREAS, RCW 36.100.020 specifies that the PFD shall be governed by a board of directors and that the terms of the Directors shall be staggered; and

WHEREAS, RCW 36.100.020 also specifies that the county legislative authority shall appoint the members of the board of directors to reflect the interests of cities and towns in the county, as well as the unincorporated area of the county; and

WHEREAS, the Board of Commissioners desires the PFD to work cooperatively with other entities and groups to promote the most efficient and broadest use of public facilities; and

WHEREAS, over the course of the past two years a group of volunteers, known as the "Multiple Use Committee" has been studying methods and opportunities for enhancing the efficiency of local government by combing resources and by establishing multiple use public facilities. This committee is willing and interested in bringing their information and conclusions to the public facilities district for its use.

NOW, THEREFORE, BE IT RESOLVED, by the Kitsap County Board of Commissioners that:

Section 1: Appointment of Directors

1. The Kitsap County Public Facilities District shall be governed by a Board of Directors composed of seven (7) members
2. The Board of Directors shall be appointed by the Kitsap County Board of Commissioners as follows:
 - a. The Cities of Bainbridge Island, Bremerton, Port Orchard and Poulsbo shall each recommend to the County a person to be appointed to the Board of Directors.
 - b. Each County Commissioner shall recommend to the Board of Commissioners a person to be appointed to the Board of Directors.
3. Members of the Board of Directors shall serve four-year terms of office, except that three of the initial seven board members shall serve two-year terms of office. The Board of Commissioners shall determine which Directors shall serve for an initial term of two years.
4. A vacancy shall be filled in the same manner as the original appointment was made and the person appointed shall serve for the remainder of the term created by the vacancy.

page 2

5. A Director may be removed from office by action of at least two-thirds of the members of the legislative authority that made the appointment.
6. Directors shall serve without compensation.
7. The following will serve as voting members:

Andy Maron	City of Bainbridge Island
To be selected	City of Bremerton
Donna Gross	City of Port Orchard
Linda Berry-Maraist	City of Poulsbo
S.N. "Cy" Wyse	District #1
Cary Bozeman	District #2
Leonard "Rick" Smith	District #3

Section 2: Authority of Public Facilities District

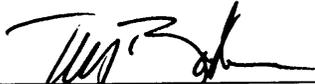
1. As provided in RCW 36.100.030, the PFD is authorized to acquire, construct, own, remodel, maintain, equip, reequip, repair, and operate sports facilities, entertainment facilities, convention facilities, or regional centers as defined in RCW 35.57.020, together with contiguous parking facilities.
2. The PFD may impose charges and fees for the use of its facilities, and may accept and expend or use gifts, grants, and donations to acquire, construct, own, remodel, maintain and operate sports, entertainment and convention facilities either by itself or jointly with other public or private parties or entities.
3. The PFD may not impose any taxes unless the voters of the PFD approve such tax by majority vote at a general or special election.

Section 3: Promoting Multiple Use of Public Facilities

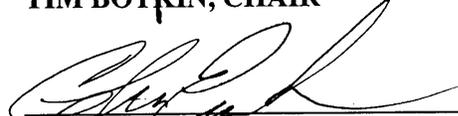
1. As a condition of appointment, the Directors of the PFD shall agree to pursue the most efficient and broad multiple use of all of the District's facilities and shall share and exchange information with the "Multiple Use Committee" and other interested parties with regard to the creative and efficient use and construction of public facilities in Kitsap County.
2. The newly appointed PFD will formulate policies with regard to multiple use of facilities taking into account the information shared by the Multiple Use Committee. These policies are to be presented at a countywide conference in the fall of 2000 planned by the PFD and Multiple Use Committee to publicly announce and celebrate the establishment of the PFD.
3. At the Fall 2000 Conference the PFD will present multiple use policies that in the future will govern the District's efforts to manage and construct public facilities for the benefit of the entire Kitsap County Community.

ADOPTED this 24th day of July, 2000.

KITSAP COUNTY BOARD OF COMMISSIONERS


TIM BOTKIN, CHAIR

ATTEST:


CHRIS ENDRESEN, COMMISSIONER


HOLLY ANDERSON
Clerk of the Board


CHARLOTTE GARRIDO, COMMISSIONER



CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 10 Minutes

AGENDA ITEM: (9:50 PM) Letter to Washington Utilities and Transportation Commission (UTC) relating to the Sale of Puget Sound Energy's Colstrip Plant - Councilmember Hytopoulos,

SUMMARY: The City Council will consider authorizing the Mayor to sign and submit a letter to the UTC substantially in the form attached to this agenda item relating to the sale of Puget Sound Energy's Colstrip Plant.

AGENDA CATEGORY: Discussion

PROPOSED BY: City Council

RECOMMENDED MOTION: I move to authorize the Mayor to sign and transmit a letter to the UTC relating to the sale of Puget Sound Energy's Colstrip Plant substantially in the form attached to this agenda item.

STRATEGIC PRIORITY: Green, Well-Planned Community

FISCAL IMPACT:

Amount:	
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	

BACKGROUND:

ATTACHMENTS:

[Bainbridge letter to UTC draft Sept 30.pdf](#)

[Colstrip talking points September 2020.pdf](#)

FISCAL DETAILS:

Fund Name(s):

Coding:

DRAFT

October __, 2020

Chairman Dave Danner
Commissioner Ann Rendahl
Commissioner Jay Balasbas
Washington Utilities and Transportation Commission
621 Woodland Square Loop SE
Lacey, WA 98503

Comments on Docket #200115 sent via email to

dave.danner@utc.wa.gov, ann.rendahl@utc.wa.gov, jay.balasbas@utc.wa.gov, records@utc.wa.gov

Dear Commissioners Danner, Rendahl and Balasbas:

We are writing to express our opposition to Puget Sound Energy's (PSE) sale of Colstrip Unit 4 and the associated Colstrip transmission capacity to NorthWestern Energy in Montana and Talen Montana (UTC Docket #200115).

In the Washington Legislature's landmark 2019 Clean Energy Transformation Act (CETA / SB 5116) – the 100% clean electricity law – the first sentence of the new law states, “The legislature finds that Washington must address the impacts of climate change by leading the transition to a clean energy economy.” Section 3 of the Act requires that “[o]n or before December 31, 2025, each electric utility must eliminate coal-fired resources from its allocation of electricity.”

The intention in drafting and supporting this Act was for Colstrip to retire by the end of 2025. The Act was heralded as one of the greatest greenhouse gas reductions in Washington – 11 million tons CO₂/year – with the closure of Colstrip Units 3 and 4. Now PSE is attempting to undo the intent of this provision by selling Unit 4 to NorthWestern, a Montana utility that intends to run this Unit through 2039¹.

In addition, when the state legislature passed our new climate reductions targets (HB 2311/SB 6272), they made clear that these goals should be achieved in a way that “avoids leakage of emissions to other jurisdictions.” PSE's sale of Colstrip Unit 4 to NorthWestern undermines the intent of this new law. The recent climate-enhanced wildfires across the west should serve as a clear reminder that selling our climate problem does not solve our climate problem.

¹ NorthWestern Energy's 2019 Resource Procurement Plan, page 11-8 and 272, <https://www.northwesternenergy.com/our-company/regulatory-environment/2019-electricity-supply-resource-procurement-plan>

PSE also is proposing to sell an equivalent amount of its Colstrip transmission to NorthWestern and possibly to Talen Montana. During the CETA debate, the E3 study sponsored by PSE and other utilities showed that in order to achieve CETA's 100% clean electricity goals, utilities would have to expand procurement of renewable energy and that this would require a significant expansion of transmission capacity. The Colstrip transmission line is surrounded by some of the best wind resources in the country. The value of this transmission will increase over time. PSE should not sell this asset because of its long-term value to PSE customers.

There are other concerning aspects of this sale including unfavorable terms for PSE to buy back power from NorthWestern where NorthWestern can charge the higher amount between its dirty coal-fired power and market-based power. In addition, PSE will still remain liable for cleanup costs of toxic coal ash after the sale even though that additional pollution will come from NorthWestern's customers, not PSE customers.

As representing nearly 25,000 citizens in PSE's service territory, we do not believe that PSE's sale of Colstrip Unit 4 to NorthWestern is in the best interest of its customers, nor in the best interest of the climate. We strongly recommend you reject the sale.

Sincerely,

Colstrip talking points September 2020 (SIERRA CLUB)

- 1. Selling Colstrip will allow Unit 4 (5+ million tons CO2/year = 1 million cars) to run at least until 2039 instead of 2025.** PSE is trying to sell Colstrip to NorthWestern giving them majority control over this unit and they told the Montana regulators they intend to run Colstrip Unit 4 until at least 2039.
- 2. PSE undermines the new 100% clean energy law and the State's climate goals.** The Clean Energy Transformation Act calls for no more coal by the end of 2025. The legislation was heralded as finally retiring Colstrip but PSE is doing an end run by selling it. Worse, our new mandated climate goals (HB 2311) explicitly states that achieving these goals should "...avoid leakage of emissions to other jurisdictions." PSE's sale of Colstrip directly violates the stated intention of our new mandated climate goals.
- 3. PSE's buy back of Colstrip power from NorthWestern makes PSE customers pay a higher price.** PSE will have to buy back Colstrip power at the "higher of" NorthWestern's costs for Colstrip versus cheaper market prices. This "higher of" condition is in direct violation of the "least cost" requirement.
- 4. PSE is selling extremely valuable transmission lines from Colstrip well below its long-term value.** During the CETA debate, PSE commissioned a study that said massive increases in transmission from Montana and Wyoming will be needed. Under no circumstance should this ratepayer-owned transmission asset be sold.
- 5. The proposed sale implies we will still pay for additional pollution even though we no longer own the plant.** PSE set aside \$350 million to cleanup the Colstrip coal ash waste ponds. The sale opens up PSE ratepayers to more liability. The only way to avoid legal problems on these cleanup costs is to retire the plant in 2025 for all owners.

We call upon the UTC to:

- 1. Reject the PSE sale of the Colstrip plant and transmission**



CITY OF
BAINBRIDGE ISLAND

City Council Study Session Agenda Bill

MEETING DATE: October 6, 2020

ESTIMATED TIME: 10 Minutes

AGENDA ITEM: (10:00 PM) Council Process for Disciplinary Response - Councilmember Nassar,

SUMMARY: The City Council will consider whether to add this discussion to a future Council agenda.

AGENDA CATEGORY: Discussion

PROPOSED BY: City Council

RECOMMENDED MOTION: Discussion.

STRATEGIC PRIORITY: Good Governance

FISCAL IMPACT:

Amount:	
Ongoing Cost:	
One-Time Cost:	
Included in Current Budget?	

BACKGROUND:

ATTACHMENTS:

FISCAL DETAILS:

Fund Name(s):

Coding: