



CLIMATE CHANGE
ADVISORY COMMITTEE
SPECIAL MEETING
WEDNESDAY, NOVEMBER 28, 2018
7:00 – 8:15 PM
CITY HALL
COUNCIL CONFERENCE ROOM
280 MADISON AVENUE NORTH
BAINBRIDGE ISLAND, WA 98110

AGENDA

Members: Derik Broekhoff David McCaughey James Rufo-Hill (Co-Chair)
 Lara Hansen (Co-Chair) Michelle McClure Deborah Rudnick
 Gary Lagerloef Nora Ferm Nickum

Liaison: Councilmember Joe Deets

7:00 Call to Order / Roll Call / Accept or Modify Agenda / Conflict of Interest Disclosure

7:05 Approve October 17, 2018 Minutes

7:10 Public Comment

7:20 GHG Inventory

- o Scope Selection
- o Project Management Discussion

7:40 Climate Mayors Electric Vehicle Purchasing Collaborative

- o Discussion

7:50 Puget Sound Energy Green Direct Program

- o Discussion

8:00 2018-2019 Workplan

- o Discussion
- o Reports

8:10 Other Business

- o Develop December Agenda and Confirm Date

8:15 Adjourn

MINUTES

Attending: David McCaughey, Deb Rudnick, Derik Broekhoff, Joe Deets, Lara Hansen, and Gary Lagerloef.

Visiting: Gloria Saylor, Maradel Gale

Meeting called to order at 6:28 PM.

Joe asked to add Solar Access to the Agenda.

Lara moved to approve the July minutes. Seconded by Gary and passed.

Public Comment: No comments.

New Business: Update on GHG emissions inventory: Morgan sent us an update email today, David summarized for the group. Lead Cascadia consultant has left, transitioning to new project lead. Morgan indicated that GHG inventory funds are not in the 2019/2020 budget- but the group all thought we already had this funding allocated. Joe said he will find out why this was not in the 2018 budget because we all thought it was supposed to be underway and substantially completed by 2019. Joe will come back to us. Lara emphasized that it is hard for us to do our work without this piece. Lara will also send Morgan an email to follow up on our question regarding the fund allocation.

Follow up on interviews with GHG inventory: all three went well. Gary, Morgan and 2 other city staff people. None were definitely thumbs down, felt good about all. Might be worth considering a less expensive option if we have budget concerns. Clear consensus that the interview group liked Cascadia best.

GHG emissions reductions commitments: Deb has updated our list of commitments with help from the city clerk. Deb will send this to Roz to have her post the file. Lara mentioned that she is working with another city on having a standing annual recognized climate week to reflect on progress- group thought this was a good idea.

Green Direct Program Service Agreement: PSE pitched their program; the City did not accept it and we have passed that deadline. City and a high proportion of citizens are buying Green Power, \$0.02 premium to buy RECs. David spoke to the Council about the mismatch between green direct and our interest in changing the power mix in what is delivered, and locking us in to a long-term commitment that hems us in for potential future options. Mentioned other possible energy sources such as tRECs that could be available in our future, among others. Leslie and Ron were also in attendance at the meeting David discussed. Lara mentioned Peninsula Power and Light's creation of a local microgrid based on local consumer generation that could be submarketed. There was a discussion and agreement that CCAC needs to look at what our recommendations are for the best path forward for Bainbridge- what is it that we as a community want, and what we need to do in order to meet the commitments we have made as a city. We would want an additive amount put into their mix, not a reshuffling.

Gary asked is there any negotiating point we have that we could ask PSE for more on-Island development so that we are not just sending our money off-Island.

I-163I: Resolution 2018-27 passed to support the initiative. Lara suggested we could have been asked to help weigh in on the language if there had been time, but we did not and apparently there was not.

Solar Access Ordinance: Discussion introduced by Joe. There is currently no legal right of our current solar systems to be protected from shading from buildings or trees. Without protection, buildings could potentially be built and shade systems.

- There is no innate right to solar on your property.
- Existing conditions prevail.

Feedback from group included:

- This is an equity issue, because when did you manage to put solar on your house.
- What about driving this with building code height?
- What about interference with native vegetation, city considers native vegetation a priority?
- Does this speak to affordable housing issues?
- We need a mix of solar requirements on single family homes on which it makes sense, and community solar where individuals cannot make solar work.
- What does this look like in other places that have implemented this?
- General sense that this is an issue that should be fully fleshed out and intersections with/conflicts with other City priorities made transparent before Council is asked to weigh in on it.

Committee staffing Issues: Angela has resigned. Mike Cox has expressed an interest in returning. Normal reappointments are in May. Joe said they will post and fill this in December.

Lara emphasized that to move forward, given lack of progress on GHG inventory contract, we need to forge ahead and have our subcommittees work on mapping out what their major priorities are for emissions reductions.

Waste subcommittee: No updates.

Transportation: Deb mentioned the email from City staff member C Berg on fleet electrification. The discussion wandered over to the Levy and stayed there for a while.

Electric Generation subcommittee: No updates.

Adaptation subcommittee: Lara went to the WA chapter of American planning association. Lara will put together notes and share out to committee.

Michelle mentioned attending climate training at the Harvard Kennedy School which she found was excellent; will bring notes and summary to our next meeting.



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Next meeting: change of date to November 28, and December 17.

Parking lot for meeting GHG reduction, ideas that were discussed during meeting: School buses-electrification and conversion? Ferry electrification is happening. How do we move towards some of these other options like Microgrids? Emergency resiliency- tying schools into microgrids? Community solar on public land.

Meeting adjourned 7:45 pm.

Co-Chair

11/28/18

Co-Chair

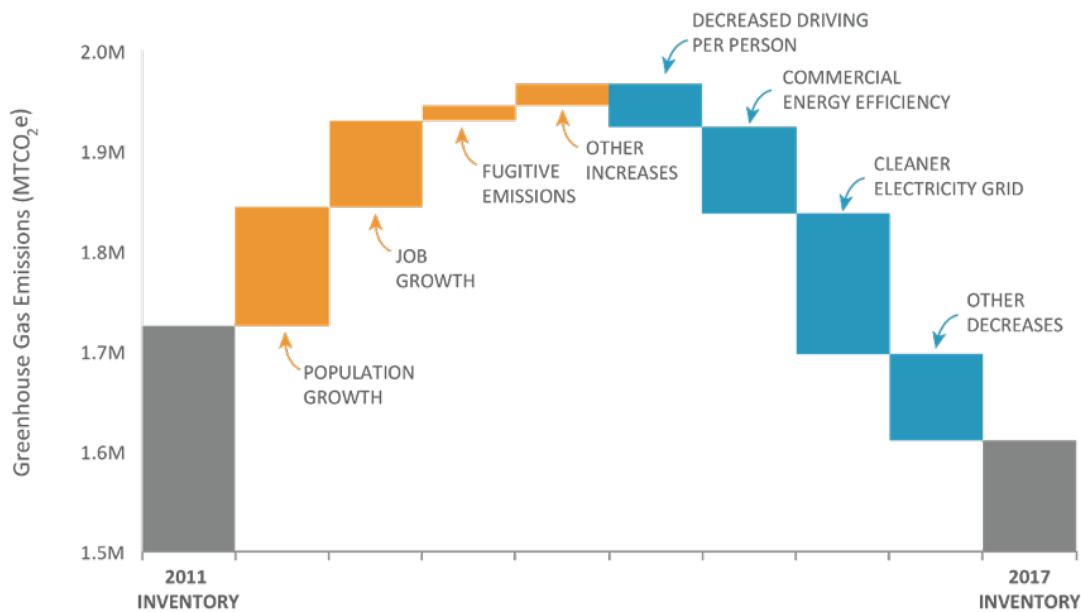
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DRAFT

Bainbridge Scoping Guide:

This document outlines the budget and task options for greenhouse gas analysis for the City of Bainbridge Island. This project will estimate greenhouse gas emissions from the City's municipal and community activity. In addition to analyzing and reporting emissions, Cascadia will train City staff to build internal capacity to track greenhouse gas emissions in the future. The document includes budget estimates for numerous optional elements (labeled opt.), including analysis for two inventory years. Two inventory years are required to conduct an optional contribution analysis (see Figure 1 for an example) that analyses the drivers of change between two inventory years.

Figure 1. Example contribution analysis



Kick-off Meeting and Methodology

Subtotal budget: \$3,360

Data Collection, Municipal and Community

Note that Cascadia offered lower cost options if Bainbridge staff could complete some portions of tasks, but Bainbridge staff declined the option due to resource constraints.

1 Inventory Year	Cost	2 Inventory Years (Opt. for Contribution Analysis)	Additional Cost
Data collection checklist, aligned with protocol	\$1,440	Data collection checklist, aligned with protocol	N/A
Data collection and data cleaning	\$2,760	Data collection and data cleaning	\$1,900
Data collection discussion and documentation	\$720	Data collection discussion and documentation	N/A
Subtotal budget:	\$4,920	Additional cost:	\$1,900

Data Analysis, Municipal and Community

1 Inventory Year	Cost	2 Inventory Years (Opt. for Contribution Analysis)	Additional Cost
Municipal inventory analysis in Excel	\$3,360	Municipal inventory analysis in Excel	\$2,010
Community inventory analysis in Excel	\$3,360	Community inventory analysis in Excel	\$2,010
		Contribution Analysis	\$2,500
Consumption based inventory	\$1,945 (opt.)	Consumption based inventory	\$973
Land Carbon Changes	\$1,005 (opt.)	Land Carbon Changes	\$503
Business-as-Usual Forecasting	\$4,000 (opt.)	Business-as-Usual Forecasting	N/A
Subtotal budget: \$6,720 - \$13,670		Additional cost: \$6,520 - \$7,996	

Inventory Reporting and Training Hand-off

Inventory 2-pager: \$3,400
Inventory methodology: \$2,000
Training sessions (2): \$3,640
Inventory entry in ClearPath: \$920 per inventory (opt.)
Subtotal budget: \$9,040 - \$10,880

Project Management (PM)

Subtotal budget: 10% of project costs
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Project Budget Total

1 Inventory Year	2 Inventory Years
\$26,444, including PM, for 1 inventory	\$35,706, including PM, for 2 inventories
\$8,657 additional for all optional tasks, including incremental PM	\$11,293 additional for all optional tasks, including incremental PM
\$35,101 will all optional tasks	\$46,394 will all optional tasks

Andrea Martin

SENIOR ASSOCIATE



EXPERTISE

- Climate change science, mitigation, and adaptation
- Project management and facilitation
- Cost-benefit analysis
- Decision-support tool development
- Data organization and communication

CREDENTIALS

- M.E.M. (Master of Environmental Management) with a concentration in Environmental Economics and Policy, Duke University
- B.S. Biology with Honors, University of North Carolina at Chapel Hill

AFFILIATIONS

- American Society of Adaptation Professionals, Member
- American Water Works Association, Member

Andrea has worked on climate mitigation and adaptation plans for local governments across the U.S. With a strong background in natural resource science, economics, and public policy, Andrea understands and incorporates environmental, social, and economic systems and values into her work. Through targeted information gathering, synthesis, and distillation, she develops policies and tailors analyses and communications to meet unique audience needs.

SELECTED PROJECT EXPERIENCE

2017-Present City of Flagstaff (AZ). Climate Action & Adaptation Plan *Project Manager*. Leading development of a Climate Action & Adaptation Plan, including facilitating stakeholder and public engagement, analyzing and prioritizing mitigation options, and planning for implementation.

2017-Present City of Columbia (MO). Climate Action Plan *Adaptation Lead*. Leading assessment of anticipated climate impacts and development of adaptation measures to be included in the City's Climate Action Plan.

2017-Present City of Shoreline (WA). Sustainability Communications *Project Manager*. Leading a comprehensive update of the City's public communications around sustainability, including creating new metrics and targets, updating the City's website, and creating other communications materials to be distributed via newsletter and social media.

2016-Present King County (WA). GHG Methodology Validation & Inventory Services *Project Manager*. Directed the review and validation of the County's greenhouse gas (GHG) inventory approach and methodology, including incorporation of renewable energy and forestry offsets to achieve carbon neutrality. Currently leading development of the County and Puget Sound Clean Air Agency's 2015 GHG inventory.

2014-2015; 2017-Present City of Bellevue (WA). Environmental Stewardship Initiative & GHG Planning Services *Project Manager*. Worked with the City to update its Environmental Stewardship Initiative Plan and assisted in the development of a web-based platform for tracking environmental indicators and outcomes. Currently managing a climate action planning services project, including identification of GHG reduction goals and accompanying strategies.

2015-2016; 2016-Present City of Fort Collins (CO). Extreme Events Planning & Carbon Sequestration Analysis *Project Manager*. Designed and led a workshop series on extreme heat and wildfire smoke preparedness in the context of climate change. Currently leading analysis of land carbon sequestration potential to support City climate action goals.

2016-2017 Teton County (WY). Sustainability Plan *Project Manager*. Led development of the County's first internal Sustainability Plan, which includes conducting a baseline sustainability inventory, leading staff workshops, and identifying and prioritizing goals, targets, actions, and metrics.

Andrea Martin

SENIOR ASSOCIATE

2016-2017 City of Ashland (OR). Climate Action Plan

Project Manager. Led development of a Climate Action Plan for the City of Ashland, including facilitating stakeholder and public engagement efforts and developing and analyzing mitigation and adaptation options.

2014-Present Sound Transit (WA). Sustainability Services

Project Manager. Manage the transit agency's on-call sustainability contract, including sustainability planning, metrics tracking and inventory updates, and development of the agency's first climate adaptation strategy.

2012-2013 City of Shoreline (WA). Climate Action Plan

Content Developer. Supported the development of a climate action plan for the City of Shoreline that included visioning, greenhouse gas inventory and benchmarks, options identification, and plan development.