



Water & Waste Sector Focus Group

Agenda

August 22, 2019, 10:00 am – noon

2424 Heritage Ct. SW, Olympia, WA 98502

Conference Room A

1. Greeting & Introductions (10 minutes)

- Name and organization
- Overview of meeting agenda and materials

2. Presentation (15 minutes)

- Overview of the water and waste sectors of local greenhouse gas emissions inventory

3. Small Group Discussion (60 minutes)

- *Exercise:* Break into small groups to review/revise strategies and actions, add new strategies and actions, identify opportunities and barriers to implementation

4. Full Group Discussion (20 minutes)

- Discuss opportunities and barriers to implementing actions that address this sector

5. Public Comment (10 minutes)

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**Thurston Climate Mitigation Plan
Climate Actions Menu**

Date 8/21/2019

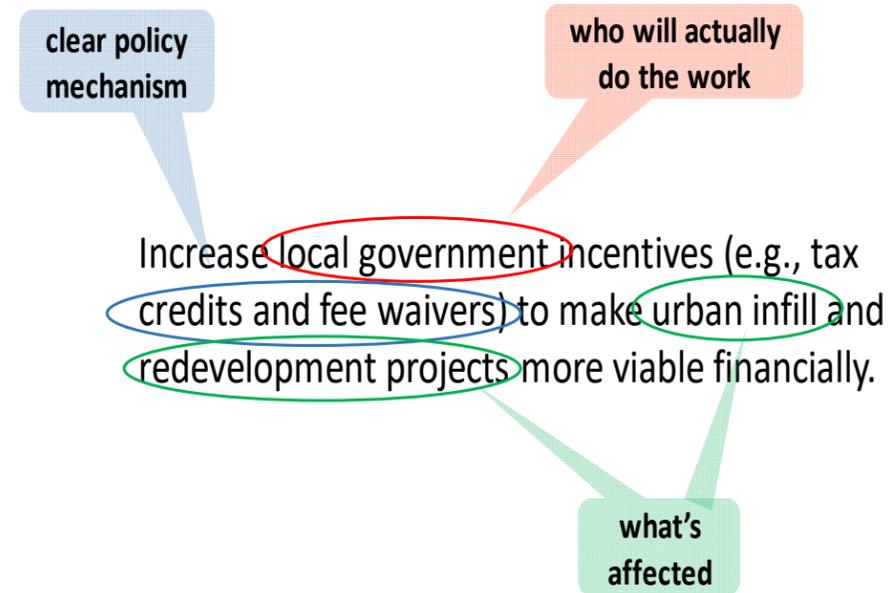
| KEY | |
|-------------------|--|
| B | Buildings & Energy actions |
| T | Transportation & Land Use actions |
| W | Water & Waste actions |
| A | Agriculture & Forests actions |
| G | Cross-cutting actions |
| # | Unique identifier for each strategy and action |
| short name | 1-3 word description of action |
| description | 1-2 sentences describing action - see box for example of a well-defined action description. Additional details beyond 1-2 sentences can be included in "other notes" |
| source | person who suggested or plan that provided the action |
| potential lead | agency or organization that could lead the action |
| potential partner | agency or organization that could participate in implementing the action |
| target population | groups affected by the action |
| opportunities | existing programs, partnerships, funding sources, legislation, regulations, or other resources that exist to support the action |
| barriers | potential obstacles to implementing the action, such as regulation, lack of expertise, lack of will, knowledge gaps, etc. Cost will be considered at a later step in the process, and should not be listed as a barrier at this stage. |
| other notes | any other considerations or extended descriptions |

This preliminary list of strategies and actions has been developed by Thurston Regional Planning Council and Cascadia Consulting Group to support the Sector Focus Groups and Climate Advisory Workgroup of the Thurston Climate Mitigation Plan.

Example of a well-defined climate action

T1.1 urban infill

(source: Adaptation Plan action G-12)



| # | short name | description | source | potential lead | potential partners | target population | opportunities | barriers | other notes |
|--|-----------------------------|---|--------------------------------------|---|--------------------|-------------------|--------------------------------|----------|---|
| W: WATER & WASTE | | | | | | | | | |
| W1: Increase the efficiency of water infrastructure | | | | | | | | | |
| W1.1 | municipal energy efficiency | Increase the efficiency of municipal water infrastructure. This includes replacing pumps and other systems that consume large amounts of energy, conducting water and sewer pumping station efficiency audits, or repairing/reducing leaks. | Adaptation Plan | Thurston County, Lacey, Olympia, Tumwater | PSE, LOTT | | | | LOTT and local governments are investigating and investing in improving water infrastructure energy efficiency. Olympia, for example, worked with PSE in 2015 to explore ways to optimize the efficiency of water pump stations. LOTT will be completing a major capital project in 2020-2021 that is expected to reduce aeration and pumping and decrease energy usage at the Budd Inlet Treatment Plant by about 20%. |
| W1.2 | public water systems | Increase the efficiency of public water systems (Group A and Group B). This includes replacing pumps and other systems that consume large amounts of energy, or repairing/reducing leaks. | TRPC | Thurston PUD | | | Streamflow Restoration funding | | |
| W1.3 | rural wells | Encourage/promote use of efficient technology when permitting wells to serve new rural development. | TRPC | Thurston County | | | | | |
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| | | | | | | | | | |
| W2: Reduce water consumption | | | | | | | | | |
| W2.1 | municipal water ordinance | Implement a water conservation ordinance at a municipal level | Lacey CR2 plan | | | | | | |
| W2.2 | water audits | Conduct water audits of city and county facilities | Ashland Climate & Energy Action Plan | Thurston County, Lacey, Olympia, Tumwater | | | | | |
| W2.3 | water conservation outreach | Expand water conservation outreach and incentive programs for residents and businesses | Ashland Climate & Energy Action Plan | | | | | | |
| W2.4 | permitting | Review water use of proposed new development in local permitting process | TRPC | Thurston County, Lacey, Olympia, Tumwater | | | | | |
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| | | | | | | | | | |
| W3: Reduce emissions from wastewater treatment operations | | | | | | | | | |
| W3.1 | | | | LOTT | | | | | |
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| W4: Divert more solid waste from landfills | | | | | | | | | |
| W4.1 | composting | Increase composting | Thurston Thrives | | | | | | |
| W4.2 | demolition waste | Promote alternatives to traditional building demolition such as relocation, deconstruction, and salvage through construction outreach programs. | Cascadia Consulting | | | | | | |
| W4.3 | waste audits | Provide education and waste audits for business owners to increase compost and recycling rates and provide financial incentives. | Cascadia Consulting | | | | | | |
| W4.4 | water fill stations | Install more water bottle filling stations at public buildings, especially at parks and recreational facilities. | Cascadia Consulting | | | | | | |
| W4.5 | gleaning | Create systems to support food donations by hospitality industry and other institutional food producers. Support local business and encourage local food donations. Create additional incentives for farmers to encourage gleaning. Support distribution model that improves access of low income households to food throughout county. | Thurston Thrives | | | | | | |
| W4.6 | commercial recycling | Establish/expand business recycling programs | Lacey CR2 plan | | | | | | |
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| W5: Generate energy from waste sources | | | | | | | | | |
| W5.1 | waste-to-energy | Generate additional energy from waste products (e.g., woody biomass and sewage) in Thurston County. | Adaptation Plan | | | | | | This is Action T-12 of the Thurston Climate Adaptation Plan. ... LOTT's downtown Olympia wastewater treatment plant now captures methane to generate heat and electricity on site. |
| W5.2 | heat exchange | Look into heat exchange potential of embedded energy in wastewater and/or reclaimed water | Rich Hoey | | | | | | |
| | | | | | | | | | |
| W6: Reduce consumption of carbon-intensive goods and services | | | | | | | | | |
| W6.1 | emissions monitoring | Determine and implement effective ways to track consumption based emissions | Ashland Climate & Energy Action Plan | | | | | | |
| W6.2 | meat reduction | Encourage plant-rich diet/less meat consumption | Thurston Thrives | | | | | | |
| W6.3 | collaborative consumption | Support "collaborative consumption" community projects like tool libraries and repair cafes, through mini-grant programs. | Cascadia Consulting | | | | | | |

