

CLIMATE ACTION PLAN 2.0 – LLS Meeting 2

Urban Natural Resources and Emergency Management



Mitigation light, adaptation heavy.

Community buildings, fleets, and consumption will continue to create emissions and will result in further climate change. This chapter focuses in on how our community will adapt to the rising temperatures, reduced snowpack, the increased wildfire and related smoke events, and increase variability in the weather. The chapter also looks at some mitigation that can be achieved through increased tree planting and other natural resource planning.

Thursday, November 15, 2018 – 10 a.m.-12 p.m.
Lane Community College Mary Spilde Downtown Center, Room 402
101 W 10th Ave, Eugene, Oregon 97401

1. Welcome, Introductions (15 minutes)
2. Mitigation Analysis: Process, Results, and Questions (30 minutes)
3. Break (5 minutes)
4. Review Expected Conditions in Eugene and Large Lever Shareholder Actions (20 minutes)
5. Equity Panel and Public Outreach (20 minutes)
 - a. Equity Panel and Outreach Plan
 - b. Are there questions you would like the equity panel to consider as they review this data? (See equity lens)
 - c. What would you like to learn from these outreach processes?
6. Closing Thoughts (15 minutes)





Eugene's Triple Bottom Line Vision

As we work to implement the City of Eugene's Climate Recovery Ordinance and to increase our community's resiliency towards climate change, we will be using the City Council's vision to guide our work. The vision describes the three legs of the Triple Bottom Line framework.

Social Equity

Value all people, encouraging respect and appreciation for diversity, equity, justice, and social well-being. We recognize and appreciate our differences and embrace our common humanity as the source of our strength.

Environmental Stewardship

Be responsible stewards of our physical assets and natural resources. We will sustain our clean air and water, beautiful parks and open spaces, and livable and safe neighborhoods; and foster a vibrant downtown, including a stable infrastructure.

Economic Prosperity

Encourage a strong, sustainable and vibrant economy, fully utilizing our educational and cultural assets, so that every person has an opportunity to achieve financial security.

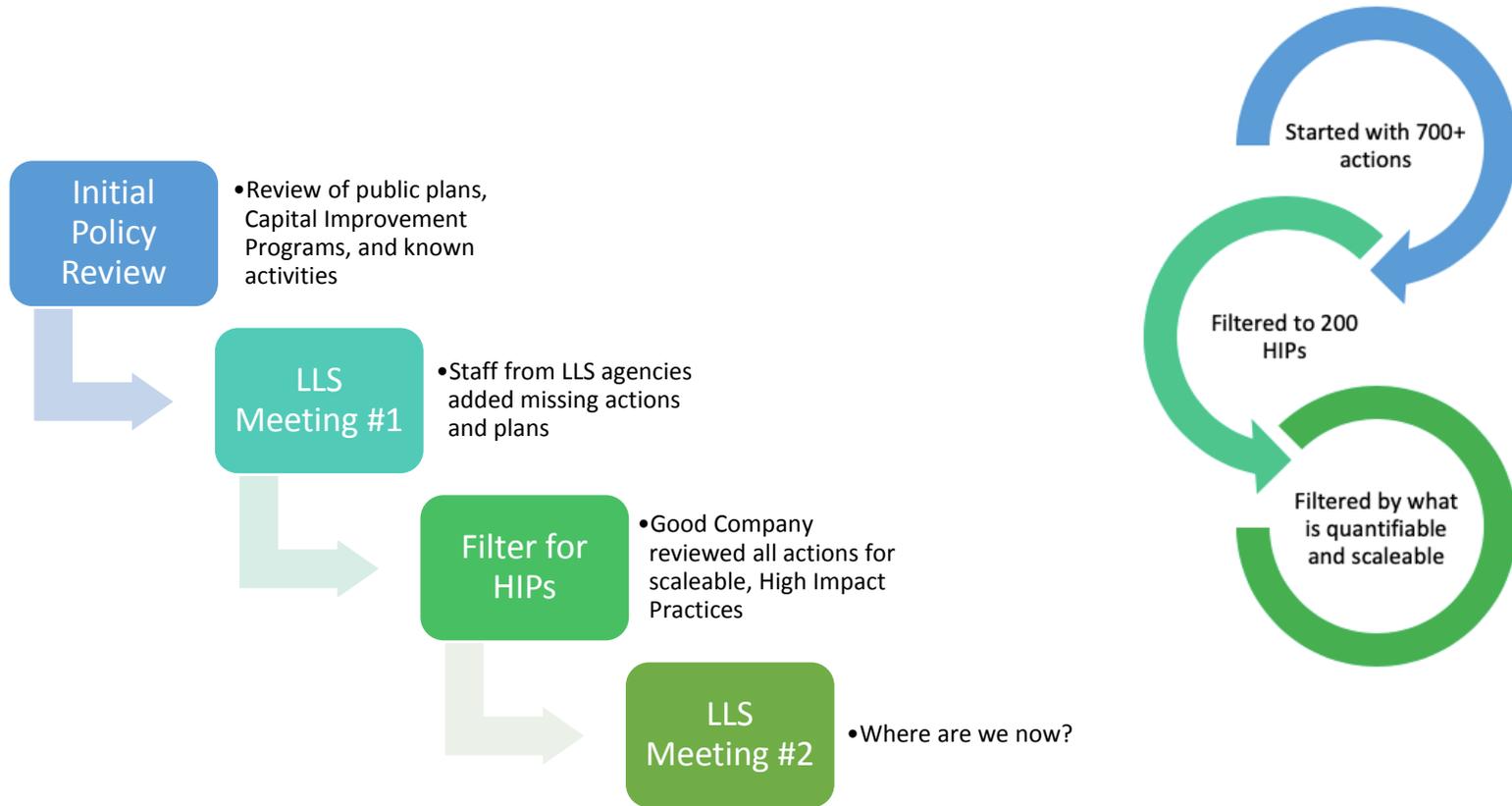
CAP Social Equity Lens

The project team has identified the need to pay special attention to social equity throughout the CAP2.0. The following guiding questions are meant to support the project work in deepening the integration of social equity principles through the process and outcomes of the work.

Guiding Questions:

1. Who are the most vulnerable and underserved communities impacted by this decision? How will our decision impact these communities?
2. Does the decision being made ignore or worsen existing disparities or produce other unintended consequences?
3. If there is an investment or resource allocation, how does that advance the social equity leg of the Triple Bottom Line?
4. What are the opportunities and barriers to more equitable outcomes? (e.g. mandated, political, emotional, financial, programmatic or managerial)
5. How have we intentionally involved stakeholders, impacted communities, technical experts, and other community members affected by this decision? Who else do we need to invite?
6. What's the mechanism for including more voices throughout the process?
7. How will we modify or enhance our strategies to ensure impacted and vulnerable communities' individual and cultural needs are met?
8. Do we have the data we need to understand which communities might be impacted? Can we effectively collect data on impacted or vulnerable communities for this decision or investment?

Agency Plan Review Process



Plans and Major Activities by Agency

These plans and major activities were reviewed in collaboration with LLS agencies. As additional information becomes available, the list will grow.

	Measured Mitigation High Impact Practices	Other reviewed plans <i>(not individually scalable, lower impact, or adaptation-only)</i>
	<ul style="list-style-type: none"> Eugene 2035 Transportation System Plan Food Materials Management City Operational Reductions Roads Materials Management 2,021 for 2021 Tree Planting and Urban Forest 	<ul style="list-style-type: none"> Envision Eugene and the 2012 Recommendation <i>Future item: Remaining Envision Eugene chapters*</i>
	<ul style="list-style-type: none"> Participation in Love Food Not Waste** Participation in Safe Routes to School** 	
	<ul style="list-style-type: none"> Participation in Love Food Not Waste** Participation in Safe Routes to School** 	<ul style="list-style-type: none"> Long-Range Facility Plan Update and Related Bond Measure Potential School Bus Replacements
	<ul style="list-style-type: none"> Electricity Generation and Future Resource/Energy Portfolio planning Future Energy Conservation Operational Facilities Climate Action Operational Fleet Climate Action 	<ul style="list-style-type: none"> 10-Year Capital Improvement Plans Integrated Electric Resource Plan & Updates Strategic Plan (2017-2020) Revisions to SD15, Board Climate Change Policy
	<ul style="list-style-type: none"> Climate Action Plan Goal (draft) 	<ul style="list-style-type: none"> <i>Future item: Updated Climate Action Plan (CAP)</i> <i>Future item: Updated Transportation System Plan*</i>
	<ul style="list-style-type: none"> Materials Management: Solid Waste Master Plan Recovery Goal 	
	<p><i>Mitigation impact is scaled as part of community transportation mode changes in TSP</i></p>	<ul style="list-style-type: none"> Fleets & Fuels (data not yet available) Route Efficiency (data not yet available) Community Investment Plan 2019-2028 Long-Range Transit Plan (LRTP)
	<ul style="list-style-type: none"> Wastewater Biogas to Fuels (with NWN) 	<ul style="list-style-type: none"> Regional Wastewater 5-Year Capital Programs <i>Future item: Resilience Plan*</i>
	<ul style="list-style-type: none"> Low Carbon Pathways Smart Energy Program (5% participation) Future Conservation Upstream Emissions Reductions Wastewater Biogas to Fuels (with MWMC) 	
	<ul style="list-style-type: none"> Participation in waste/food reduction practices** 	<ul style="list-style-type: none"> PeaceHealth Rides Disaster planning drills and training Variety of community services (see TBL practices)
	<ul style="list-style-type: none"> Executive Order 17-20: Oregon Net-Zero Building Code Executive Order 17-21: Electric Vehicles** 	<ul style="list-style-type: none"> HB 2017 Transportation Bill: Keep Oregon Moving and Additional Gas Tax Allocation**
		<ul style="list-style-type: none"> <i>Future item: Climate Action Plan (CAP)*</i>
		<p>Partnerships:</p> <ul style="list-style-type: none"> LTD/City of Eugene: MovingAhead Eugene-Springfield: Natural Hazards Mitigation Plan

*Plan is not yet completed or reviewed, but of interest.

**Mitigation impact is scaled in combination with other like items.

High Impact Practices

NOT ALL ITEMS WERE SCALED — SEVERAL ITEMS WERE SCALED IN COMBINATION WITH OTHER LIKE ITEMS.

Urban Natural Resources and Emergency Preparedness

City of Eugene

- 2,021 for 2021 Tree Planting & Enhanced Tree Canopy
- Parks & Open Space planning (new and improved parks, land acquisition)
- Eugene Transportation System Plan
 - Goal 3: Strengthen community resilience to changes in climate, increases in fossil fuel prices, and economic fluctuations by making the transportation networks diverse, adaptable, and not reliant on any single mode.

State of Oregon

- Executive Order 17-20 Net-Zero Energy Buildings
 - D. Evaluation of Energy and Resiliency Efforts
 - G. High Efficiency Water Fixtures
 - H. Increased Water Efficiency in On-Site Reuse

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Triple Bottom Line Practices

These actions have social equity, health, economic and/or adaptation benefits, sometimes in addition to low or moderate mitigation impacts. Some actions may have been scaled in aggregate with related items from other agencies, and others were not scalable.

Urban Natural Resources and Emergency Preparedness

City of Eugene

- Natural Hazards Mitigation Plan; Outreach & Preparedness
- Amazon Channel Restoration projects (flood mitigation, habitat restoration)
- Anticipate and plan for climate and energy related impacts to food production and distribution, housing, emergency services, and urban infrastructure (i.e. water, sewer, energy, and streets), in coordination with the Eugene-Springfield Natural Hazards Mitigation Plan.
- Facilitate urban agriculture by evaluating and removing barriers in the land use code and permitting processes to the development of home-grown food sources, including backyard and community gardens, urban food orchards, and micro-livestock, in accordance with the Food Security Scoping and Resource Plan.
- Plan for increased frequency of flooding, increased risk of wildfires (particularly in the south hills), and increased risk of landslides (particularly on steep slopes).
- Stormwater
 - Reduce stormwater pollution and minimize runoff from streets and multi-use paths in a manner prescribed by Eugene's Comprehensive Stormwater Management Plan.
 - Provide stormwater facilities within street construction projects by incorporating Low Impact Development and Green Infrastructure practices.
 - System retrofits & expansion
- Parks & Open Space
 - Develop a water conservation and drought management plan and explore opportunities for increased water conservation in park water use
 - Implement Salmon Safe Certification recommendations
- Evacuation planning – bridges, size & capacity of roads
- Mudslide identification & mitigation

Eugene School District 4J

- Emergency Water Station and microgrid system at Howard Elementary School
- Resiliency for Disaster Recovery (Resiliency upgrades at new schools, such as a higher level of seismic resistance, water access and power generation. Regional approach, providing upgrades to one facility in each region in the first phase)

Eugene Water & Electric Board

- SD15, Board Climate Change Policy "prepare for and minimize the effects of climate change that could impact EWEB's water and electric supply and infrastructure, damaging EWEB's resiliency and reliability."
- Emergency water distribution wells (5 distributed sites with micro-grids where possible)
- Rebuild of pumps/reservoirs (and seismic retrofits)
- The Board directs the General Manager to evaluate and enact measures, as necessary and appropriate, to prepare for and minimize the effects of climate change that could impact EWEB's water and electric supply and infrastructure, damaging EWEB's resiliency and reliability.
- Cities 4 Forests Initiative
- Continue tiered water rates for conservation
- Develop second source of drinking water

- Increase response to algal blooms – testing protocols & turnaround time
- Modify hydro operations: Operating changes at Walterville hydro during low flows; reinvesting in Carmen Smith hydro
- Source protection - protect riparian forest

Lane Community College

- Campus Learning Laboratory: improve outdoor classrooms and work toward a wetland education center

Lane County

- Streamline reviews for proposed watershed restoration/forest management activities
- Adjust floodplain management program and associated language in the Floodplain Overlay Zone for development requirements as necessary to reflect changes in climate and its effects on flooding (though the Lane County program applies to areas outside UGBs, waterways cross multiple jurisdictions).
- Stormwater on-site retention standards
- Explore ways to continue the Firewise Incentive Program through the Land Management Division or similar effort
- Air quality emergency shelter
- Look at regional locations for handling large debris events such as flooding or ice storms
- Look at whether leachate tank will handle more frequent rain events

Lane Transit District

- Service the community in times of emergency and crisis

Metropolitan Wastewater Management Commission

- Pure water partners. This is a partnership with EWEB to leverage mutual interest in watershed enhancement. For EWEB, it relates to source water protection. For the MWMC, it relates to thermal load mitigation through riparian shade projects. Other partners have their similar interests. This project allows pooling of resources and approaches for the greatest cost effectiveness across multiple organizations
- MWMC Resiliency Plan (earthquake, flooding)
- Ambient Monitoring - collect samples now that provides information for wastewater permit and stormwater permit. Will help us prepare and plan for changes in program, technology, and strategies to address increasing temperatures in receiving stream
- Fire training facilities (recycled water). If implemented, this project would convey recycled water to Eugene Springfield Fire to their training facility on Chambers and First street in Eugene. There, Class A recycled water would be substituted for potable water for use in fire suppression training activities.
- Thermal load implementation (1 & 2). This is a budget line item intended to fund capital projects for mitigation of thermal load and could include recycled water and/or riparian shade projects.
- Urban tree watering pilot. This project is in partnership with City of Eugene Parks and Open Space. The goal is primarily to pilot test the production and application of class A recycled water use in a residential setting and partly as an outreach platform to get the conversation about water recycling out in the community.

PeaceHealth

- Disaster planning drills and training
 - Partnerships with City services and EMS systems on Disaster Planning and Disaster Drills
 - Incident Command System training sessions for PeaceHealth leaders, teaching them how to interface and engage during emergent events

University of Oregon

- EWEB project - well (water prep)
- HAM Radio project (systems level)
- Resiliency plans (i.e. preparedness trainings)

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