

CITY OF PORTLAND, MAINE
Standing Committee on Sustainability and Transportation
Councilor Belinda Ray (D1), Chair
Councilor Spencer Thibodeau (D2)
Councilor Andrew Zarro (D4)

Agenda
January 14, 2021
5:30 PM

This meeting will be held as a webinar:
<https://zoom.us/j/91252294147>

Or Telephone:
US: +1 646 558 8656

Webinar ID: 912 5229 4147

1. Review and approve minutes from November 18, 2020
 - a. Minutes
2. Sustainability Program Updates
 - a. Updates
3. Presentation and Discussion
 - a. GPCOG Project Development Fund
(no public comment on this item)
 - b. Review One Climate Future Short Term Action Items
(No public comment on this item.)
 - i. OCF Actions Implementation Timeline
 - c. Discuss 2021 Committee Work Plan
(Public comment may be taken.)
 - i. Work Plan Memo
4. Other Business

CITY OF PORTLAND, MAINE
Standing Committee on Sustainability and Transportation
Chair Councilor Spencer Thibodeau (D2)
Councilor Belinda Ray (D1)
Councilor Jill Dunson (At large)

Draft Minutes November 18, 2020

Members Present: Councilor Thibodeau, Council Ray, Councilor Dusen
Staff Present: Troy Moon, Casey Zorn

Meeting called to order at 5:33 PM.

October Minutes

October meeting minutes approved by Councilor Dusen and seconded by Councilor Ray. Passed unanimously, 3-0.

Sustainability Update

One Climate Future action plan passed Portland Council Nov 9. Workshop tonight. Press event tomorrow for new and existing EV chargers. Working with Mitchell Institute and Riverside for composting program. They will function as recycling drop-off centers. Working with Gulf of Maine Institute on Citizen Science project, community involvement to improve climate data. Plan to make interaction mapping platform for OCF. New Sustainability Fellow, Casey, has joined the team.

Councilor Ray asks, What impact of compost program on Garbage to Garden and other programs? To educate people that that service exists and let community know of all programs available.

Will explore putting a drop off closer to town, though concerned of misuse.

Councilor Dusen asks, Will Riverside allow for a rinse station for the compost bucket?
Will be considered.

Councilor Thibodeau voices that Ocean Avenue ground water testing results should be put online.

Items for Next Year's Council

Discussed the following items to be added to list of recommended items for next year's council:

- Looking into Green New Deal, green building code. Potentially crafting improvements to go out to voters
- Metro 8 & 1 bus routes, making sure to provide feedback and forum for community.
- Transit Tomorrow, coming to fruition
- South Portland's Knightville to Portland ferry service study, maybe have own study on this.

- Implementation of One Climate Future
- Energy Benchmarking Ordinance Update

Note Energy Benchmarking Ordinance Update:

Lack info on individual unit and building owners of a certain sign. CMP has hired new staff. Troy's team has met with policy staffer to help utilities cooperate with cities and towns. Deciding whether they need to ask PUC for permissions. Expect good news in next couple of months.

Thanks Councilor Duson for Your Service

Troy thanks Councilor Duson for being a champion of sustainability and environmental work, and her work with the National League of Cities.

Councilor Thibodeau echoes thanks for Councilor Duson's many acts of service.

Councilor Ray thanks Councilor Duson as well.

Councilor Duson thanks everyone in turn.

Meeting Conclusion

Councilor Ray motions to adjourn. Councilor Duson seconds. Passed unanimously. Meeting adjourned at 5:57 PM.

Sustainability Updates

January, 2021

Pesticide Ordinance

The PMAC is reviewing the City of South Portland's Fertilizer Ordinance. They will present recommendations to the Sustainability and Transportation Committee about steps Portland could take in this area as part of their annual report due in March.

We've begun receiving annual reports from pesticide applicators in advance of the February 1 reporting deadline.

One Climate Future

We submitted a grant application to the National League of Cities to fund a collaboration with the Office of Economic Opportunity. The project would train the members of their Natural Helpers cohort about emergency and climate change preparedness. Topics will include preparing for short term shocks and emergencies such as storms and flooding and how community members can help prepare Portland and South Portland for the effects of climate change.

We've hosted two OCF coffee hours. These are designed to be informal opportunities for members of the public to talk about climate action, ask questions, and share ideas. Both events were well attended and had lively discussion. We plan to continue offering these monthly as long as they seem useful.

Energy

The City signed an agreement to purchase nearly half of the generation from a solar array to be built on ecomaine's landfill. As of now, we have commitments for about 70% of our electrical load to come from solar projects now under construction.

The City's new energy management platform and bill payment system will go live on January 15. This will allow us convenient access to energy usage data and carbon emissions from all of our electricity and natural gas accounts. It will also streamline payment of utility bills for our Finance Department.

The City will be filing as an intervenor in PUC Docket 2011-00138 regarding upgrades to electrical transmission infrastructure in Portland and on the Boothbay Peninsula. It involves discussion of the best approaches to improving the reliability of electrical service including how to best use "non wire alternatives" such as distributed solar and battery storage. We'll be presenting this as a communication to the full Council in February.

Straw Ordinance

Phase 2 of the City of Portland Straw Ordinance went into effect on January 1, 2021. Restaurants and other food service businesses may no longer distribute plastic straws. They may provide customers with a straw made of alternative materials (such as paper) if requested. They may not place straws out for self service.

<http://www.portlandmaine.gov/2558/Straw-Ordinance>

Legislative / Policy

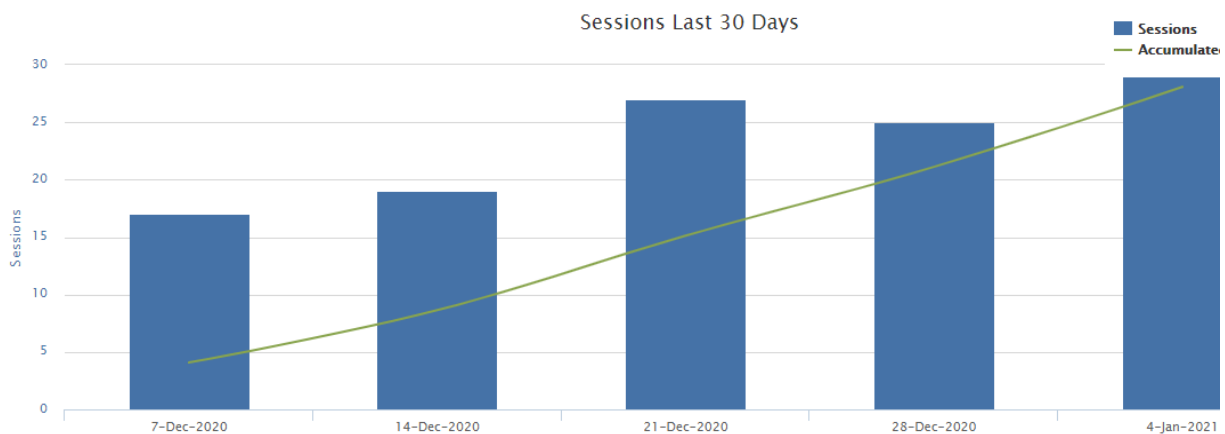
There are multiple bills in this legislative session that we will need to watch carefully. These include bills to create a “Green Bank”, a bill to require utilities to provide consumption data to customers, and several bills related to renewable energy and net energy billing.

Energy Benchmarking

Buildings with 20,000 square feet and a single primary occupant were required to report their energy and water consumption to the Sustainability Office by May 1, 2021. We will be sending out reminders and offering additional training for property owners. We are currently preparing reports for City buildings. The new energy management platform will make this much easier in the future.

<http://www.portlandmaine.gov/2389/Energy-Benchmarking>

EV Chargers



Graph of EV Charger Usage by number of charging sessions per week.

Public usage of the new EV chargers continue to grow. We continue to see vehicles at the City Hall and Payson Park chargers, although usage of the Jetport chargers remains low.

Outreach and Engagement

Troy and Casey presented at the Northeast Organic Farming Association about municipal pesticide ordinances

Troy met with officials from the Town of Yarmouth to talk about Portland's pesticide ordinance.

We have launched the new, improved oneclimatefuture.org website that hosts the plan, climate information, and other materials of interest. We plan to maintain this moving forward as a resource to continue our collaboration with South Portland.

Follow us on Facebook and Instagram at @sustainableportlandme.

We invite people to participate in One Climate Future by visiting the webpage at www.oneclimatefuture.org

One Climate Future IMPLEMENTATION MATRIX

The matrix summarizes key details for implementing the One Climate Future strategies, including timeline, funding mechanisms, and milestones for hitting our climate targets. • See **page 256** for a key for reading the implementation matrix. See **page 288** for a list of acronyms. •



Green Circle -- City Action
Orange Circle -- Advocacy for State / Federal Action

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
BE 1 Municipal Buildings and Energy Supply						
BE 1.1	Renewable Municipal Electricity Pursue power purchase agreements (PPAs) to reach 100% renewable energy for city facilities ahead of state renewable portfolio standard (RPS) schedule.	a. Complete bulk solar power purchases currently underway.	●			• All municipal electricity use met by renewable energy by 2032
		b. Engage in further contracts to meet remaining municipal demand.		●		
BE 1.2	Net-Zero Energy New City Buildings Pursue net-zero energy (NZE) buildings for new city government buildings through performance-based procurement.	a. Use performance-based procurement for next city building.	●			• All newly constructed or gut-rehabbed city buildings to be NZE or NZE-ready starting in 2026
		b. Adopt NZE-ready (and NZE where possible) for all new city buildings.		●	●	
BE 1.3	Energy Efficiency Retrofits for City Buildings Develop a strategic energy management plan (SEMP) for all city facilities and lead by example by pursuing deep energy retrofits and electrification for large existing city buildings.	a. Benchmark and conduct annual quality control review of use data for buildings.	●	●	●	• SEMPs commissioned by 2025 • Deep energy retrofits underway by 2026 • All retrofits to be NZE by 2030
		b. Commission SEMPs for all city buildings.	●			
		c. Conduct deep energy retrofits for city buildings.		●	●	
BE 1.4	Internal Carbon Pricing for Municipal Construction and Operations Create either a shadow carbon price for evaluating all city decisions, and/or an internal carbon charge paid to a central climate emergency fund.	a. Conduct carbon price feasibility assessment to set appropriate price.	●			• Municipal shadow carbon price or carbon charge implemented by 2026
		b. Implement shadow carbon price or internal carbon charge.		●		

Buildings & Energy

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
BE 2 New Construction Energy Efficiency and Decarbonization						
BE 2.1	Energy Stretch Code Advocate for an advanced energy stretch code with an optional net-zero energy compliance path, and adopt the stretch code once finalized.	a. Adopt the energy stretch code when finalized.				- Energy stretch code adopted immediately upon finalization - All new buildings to be net-zero energy starting in 2030
		b. Conduct city code review to identify conflicts with MUBEC/ stretch code.				
		c. Advocate for/adopt future stretch code with a pathway to NZE buildings.				
BE 2.2	Solar-Ready and EV-Ready Code Requirements Adopt or advocate for solar-ready and EV-ready requirements for new construction, followed by renewable energy generation building code requirements.	a. Adopt EV-ready and solar-ready requirements in land use code.				- EV-ready / solar-ready requirements to be implemented by 2028 - On-site solar requirements to be implemented by 2032
		b. Advocate for EV-ready and solar-ready requirements in MUBEC/stretch code.				
		c. Advocate for on-site solar requirements, or adopt via land use code.				
BE 2.3	Code Enforcement Ensure code compliance in all buildings through increased investment in robust code enforcement.	a. Hire (at least one) staff person or consultant to review energy models.				At least one staff person or consultant hired to review energy models by 2026
		b. Assess suitability / implement third-party code enforcement program.				
BE 2.4	Leadership and Education Partner with organizations in the building sector to develop and promote platforms for education and leadership in high-performance buildings.	a. Work with industry partners to develop /promote leadership/education platforms.				One or more platforms for high-performance building leadership and education launched by 2024
		b. Establish and award Mayor’s OCF recognition for climate leadership.				
BE 3 Existing Buildings Energy Efficiency and Decarbonization						
BE 3.1	Energy Benchmarking Expand Portland and South Portland’s energy benchmarking programs, and couple with outreach programs to turn energy savings opportunities into action.	a. Implement current benchmarking law.				80%+ compliance achieved within 2 years of utility data access challenges resolved (see BE 5.2), ideally by 2025
		b. Work with PUC/CMP to overcome limitations in data access.				
		c. Expand the program to citywide and/or to include smaller buildings.				
		d. Develop outreach and training program to further encourage retrofits.				
BE 3.2	Building Performance Standards Incorporate tune-up or performance standards into the Cities’ benchmarking programs for large buildings by 2025 to achieve carbon savings, and strengthen coordinated job-training programs to support building retrofits.	a. Conduct analysis and stakeholder process to identify GHG standards.				Performance standards identified within 2 years of fully implemented benchmarking (BE 3.1) with requirements adopted in following year
		b. Implement performance requirements for large existing buildings.				
		(+ actions to support job/skills training captured by other strategies - see text)				
BE 3.3	Energy Efficiency Spending Expand statewide and local energy efficiency spending; advocate for changes in Efficiency Maine spending that remove barriers for fuel switching.	a. Advocate for funding via Energy Efficiency Resource Standard (etc.).				By 2025, Efficiency Maine spending is equivalent to 5% of total electric sales and 2% of residential natural gas sales
		b. Advocate for fuel-neutral metrics to support beneficial electrification.				
		c. Advocate for the creation of a Maine State Green Bank.				
BE 3.4	Renewable Heating and Cooling Launch program to shift single family homes and larger multifamily and commercial buildings from fuel oil directly to all-electric heating and cooling.	a. Launch electrification incentive program, following review and research.				- Electrification incentive program launched by 2023 - Oil tanks to be code compliant or decommissioned by 2028
		b. Adopt legislation to require code compliant tanks (or decommissions).				

Buildings & Energy

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
BE 3.5	Bulk Buy Programs Launch bulk buy programs for solar power and heat pumps, paired with electric vehicles as appropriate.	a. Launch bulk buy program.				• Bulk buy program launched by 2023
BE 3.6	Solar Proliferation Strategy Continue to enhance the attractiveness of solar through a solar proliferation strategy, as well as offering financial and/or structural incentives.	a. Reduce permit times and fees for solar installations.				• Solar proliferation strategy launched by 2023 • 50 MW of solar installed in the cities by 2030 and 245 MW of solar installed by 2050
		b. Launch solar proliferation strategy.				
BE 3.7	Energy Efficient Rental Housing Require minimum energy efficiency standards for residential rental properties to decrease energy use, increase thermal comfort, and reduce energy costs paid by renters.	a. Require Maine Energy Disclosure Statement in rental registration.				• Determination of whether to proceed with a minimum energy efficiency rental standards program by 2026
		b. Assess costs/benefits of minimum energy efficiency standards.				
		c. Implement minimum energy efficiency rental standards program.				
BE 4 Industrial Energy Efficiency and Decarbonization						
BE 4.1	Industrial Energy Efficiency Spending Advocate for expanded energy efficiency incentives for large industrial users.	a. Advocate for increased industry efficiency spending.				• Automatic industrial opt-out provision removed by 2028
BE 4.2	Industrial Efficiency and Decarbonization Study Advocate for a statewide study on energy efficiency and decarbonization opportunities in the industrial sector to better target industrial combined heat and power, heat recovery, and renewable fuel oil or biogas.	a. Advocate for industrial efficiency study, led by Efficiency Maine.				• Industrial efficiency and decarbonization study completed by 2025
		b. Use study findings for targeted promotion to industrial partners.				
		c. Ensure custom industrial programs are working on heat recovery applications.				
BE 5 Clean and Renewable Energy Infrastructure and Regulatory Transformation						
BE 5.1	Renewable Portfolio Standard and Community-Scale Purchasing Continue to advocate for full, timely, and cost-effective implementation of Maine’s renewable portfolio standard; in case it becomes necessary, advocate for municipal authority to bulk procure renewable power.	a. Advocate for full, timely, and cost-effective implementation of the RPS.				• Electricity to be 80% renewable by 2030 and 100% renewable by 2050
		b. Advocate for creation of a Maine Energy Generation Authority.				
BE 5.2	Utility Data Access Reform Reform data access by pursuing legislation that would require utilities to disclose data with building owners and municipalities.	a. Advocate for improved access to utility data.				• Access to whole building and citywide data by 2024 • Access to automated data connections by 2024
BE 5.3	Utility Regulatory Reform to Support Electrification Advocate for regulatory reforms to support state-wide electrification and the integration of distributed energy resources (DER).	a. Advocate for utility regulatory reforms to support DER.				• Continue to build on 2020 legislative initiatives

Buildings & Energy

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
BE 5.4	Renewable District Energy Systems Identify opportunities and encourage the development of fully electric low temperature thermal district energy systems for new and existing developments and campuses.	a. Advocate for regulatory updates to enable use of microgrids.	●			● All new development over 50,000 square feet to evaluate district energy/microgrids starting within one year of microgrid enabling legislation
		b. Work with existing campuses to explore microgrids / district energy.		●	●	
		c. Adjust zoning to encourage microgrids / renewable district energy.		●		
BE 5.5	Electrical Transmission and Distribution Improve the efficiency and capacity of transmission and distribution networks to improve electricity supply to Portland and South Portland.	a. Undertake hosting capacity study with regional partners.	●			● Hosting capacity study launched by 2025
		b. Land bank and zone for expanded energy infrastructure.		●		
		c. Update full electrification study, accounting for efficiency.		●		
BE 5.6	Natural Gas Phase-Out Advocate for a state-level ban on new intrastate natural gas pipelines and any state support for interstate gas pipelines, and advocate for allowing local jurisdictions to limit new and expanded natural gas connections.	a. Advocate for / support a just plan for transitioning to clean heating.	●	●	●	● A just plan for clean heating developed by 2025 ● Statewide restrictions on new interstate and intrastate gas pipelines in place by 2030, along with defined timeframes for phasing out natural gas
		b. Advocate for ban on new interstate / intrastate natural gas pipelines.	●			
		c. Advocate for state support in repurposing fossil fuel infrastructure.		●		
		d. Investigate legal authority / ban natural gas hookups in new construction.		●		
BE 5.7	Carbon Pricing Continue to advocate for carbon pricing at national, regional, and statewide scales.	a. Work with state partners to advance statewide carbon fee.			●	● Price on carbon as soon as feasible at national, regional, or statewide scale

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
WR 1 Residential and Commercial Waste						
WR 1.1	Save-As-You-Throw Expand a save-as-you-throw system to South Portland.	a. Conduct community educational campaign on SAYT (South Portland).				● Implement SAYT program in South Portland by 2026
		b. Implement SAYT model in South Portland (South Portland).				
WR 1.2	Single-Stream Recycling Mandate recycling for commercial and multifamily buildings.	a. Increase recycling outreach/education in collaboration with ecomaine.				● Require recycling in commercial and multifamily residential buildings by 2026
		b. Adopt ordinance requiring commercial and multifamily recycling.				
WR 1.3	Food Waste Reduction and Organics Recycling Expand programs to divert food waste and increase organics recycling rates to ensure that excess food is better used to nourish people, animals, industries, and soils.	a. Advocate for statewide mandatory organics recycling.				● Reduce food waste in trash streams 70% by 2040
		b. Implement mandatory commercial/institutional organics recycling citywide.				
		c. Move toward curbside collection of residential food waste.				
WR 1.4	Single-Use Plastics Ban select single-use plastics and identify partnerships to reduce plastic waste.	a. Advocate for statewide restrictions on single-use plastics.				● Eliminate single-use plastics in the cities to the fullest extent practicable by 2026
		b. Advocate for extended producer responsibility bill in the state.				
		c. Partner with retailers and food establishments to reduce plastic use.				
WR 1.5	Circular Sharing Economy Foster a circular sharing economy.	a. Strengthen or expand community spaces for resource sharing.				● Ongoing efforts to establish new spaces, programs, or initiatives in each city that support resource sharing, re-use, or repair
		b. Support re-use, rental, and repair businesses, fairs, and workshops.				
		(+ numerous actions captured by other strategies - see text)				
WR 2 Construction, Industrial, and Municipal Waste						
WR 2.1	Construction and Demolition Waste Reduce construction and demolition waste through targeted re-use initiatives.	a. Advocate for state policy and expansion of reuse/recycling facilities.				● Adopt C&D waste reduction targets and ordinance by 2035
		b. Draft report assessing baseline waste reduction/reuse practices and goals.				
		c. Engage construction sector on development of ordinance and training.				
		d. Adopt C&D waste ordinance.				
WR 2.2	Industrial Waste Work with state and regional partners to encourage “by-product synergy” with industrial waste streams.	a. Work with state partners to explore online materials marketplace.				● Regional materials marketplace launched by 2035

Waste Reduction

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
WR 2.3	Wastewater Emissions Investigate options for reducing emissions of wastewater treatment with anaerobic digestion.	a. Commission engineering feasibility study for anaerobic digestion w/partners.			●	● Engineering feasibility study commissioned by 2032
WR 2.4	Sustainable Purchasing Policy Adopt a sustainable purchasing policy for municipal procurement.	a. Adopt sustainable purchasing policy and guide for city procurement.	●			● Sustainable purchasing policy adopted by 2024

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
TLU 1 Mode Shift and Land Use						
TLU 1.1	Public Transit Networks Support efforts to “Make Transit Easier,” “Expand Local Connections,” and “Introduce Rapid Transit” in alignment with the Transit Tomorrow vision for the PACTS region.	a. Advocate for/implement coordinated measures between transit agencies.				● Roll-out of coordinated measures (portal, schedules, etc.) by 2025 ● All specified upgrades to transit stops implemented by 2028 ● METRO and SPBS achieve carbon neutrality by 2040
		b. Advocate for increases in state funding for multimodal transportation.				
		c. Improve safety and accessibility of transit stops.				
		d. Invest in roadway design advantages for buses along transit routes.				
		(+ numerous actions captured by other strategies - see text)				
TLU 1.2	Inclusive Transit-Oriented Development Strengthen the Cities’ transit-oriented development nodes to support travel by walking, biking, and public transportation.	a. Assess potential locations for TOD development (South Portland).				● Policy pathways for strengthening TOD nodes outlined in comprehensive plan by 2024 (South Portland) ● New/updated TOD TIF districts implemented by 2026
		b. Conduct assessment of barriers and mechanisms to promote desired transit.				
		c. Update comprehensive, land use, capital improvement plans w/ TOD policy.				
		d. Examine capital investments and land use policy changes to facilitate TOD.				
TLU 1.3	Bike Accessibility Make biking easier through a complete network of bikeways and through building an inclusive biking culture.	a. Develop and implement plans for complete bikeway networks.				● Bikeway network plan completed and implementation begun by 2026 ● 5% of all trips completed by bike by 2040
		b. Launch initiative for advancing an inclusive biking culture.				
		c. Expand bike parking and storage facilities.				
		d. Reevaluate potential for a bikeshare program.				
TLU 1.4	Complete Streets Create safer and more accessible travel for people of all ages and abilities by all modes of transportation by adopting “Vision Zero” for the PACTS region and continuing to expand complete streets.	a. Draft “Vision Zero” policy statement and set metrics for tracking progress.				● Complete streets design manual produced by 2025
		b. Develop complete streets design manual; align city ordinances and plans.				
		c. Launch “adopt-a-sidewalk” program.				
		d. Complete the build-out of complete streets along the Smart Corridor.				
TLU 1.5	Employer Transit Partnerships Partner with PACTS, GO MAINE, and large public and private employers in the cities to continue to promote more efficient or zero-emissions commuting and to establish a transportation management association (TMA) for the Greater Portland region.	a. Convene working group for development of a Greater Portland TMA.				● Working Group for TMA convened by 2024 ● TDM plans updated/ adopted by 2026
		b. Produce transportation demand management (TDM) toolkit.				
		c. Assess methods to reduce SOV trips made by municipal staff.				
		d. Update (Portland) or adopt (South Portland) TDM plan ordinance.				
TLU 1.6	Parking Shift existing incentives that continue to lead to more parking demand and supply to instead facilitate and strengthen multimodal transportation options.	a. Pilot adjustments to parking pricing and demand-based pricing.				● Zoning ordinances revised with new parking requirements by 2028
		b. Revise zoning to provide flexibility for parking minimums / explore maximums.				

Transportation & Land Use

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
TLU 1.7	Land Use for a Smaller Carbon Footprint Plan for future growth in our cities by committing to land use principles for a smaller carbon footprint, codified in the Cities’ comprehensive plans, zoning, and subdivision ordinances.	a. Encourage infill through proactive redevelopment.				● Housing stock meets workforce demand within the cities by 2035: Anyone working in the cities can live within the cities by 2035
		b. Revise land use code to “amplify homes near jobs.”				
		c. Revise land use code to “collocate transportation and density.”				
		d. Revise land use code to “create livable street networks.”				
		(+ actions to protect open space captured by other strategies - see text)				
TLU 2 Vehicle Electrification						
TLU 2.1	Electric Vehicle Charging Infrastructure Expand electric vehicle (EV) charging infrastructure in public and private parking through public investments in chargers, updates to city land use codes, and EV-ready requirements in the state building code.	a. Integrate EV charger requirements in land use and building codes.				● 20% of spaces in new garages required to have EV chargers (per land use code) by 2026 ● 5% of parking spaces in all lots and garages in the cities have level 2 EV chargers by 2030
		b. Work with commercial entities to expand public chargers.				
		c. Collaborate on regional efforts to build out charging networks.				
		d. Work with PUC to reform electricity rate structures (see TLU 3.3).				
TLU 2.2	Electric Vehicle Incentives Offer excise tax exemptions for electric vehicles (EVs), and advocate for additional state EV incentives.	a. Widely promote existing rebates (e.g., through Efficiency Maine).				● 30% of new light duty vehicle sales are electric vehicles by 2030; 60% by 2040; 100% by 2050
		b. Collaborate with Efficiency Maine and dealerships to promote EV ownership.				
TLU 2.3	Electric Public Transit Bus Fleets Work with Greater Portland METRO and the South Portland Bus Service to transition all bus fleets to battery-electric vehicles (BEV) by 2040.	a. Pursue Low-No Grant funding for BEV in next bus purchase (SPBS).				● All new METRO and SPBS bus purchases are electric starting in 2025 ● All-electric METRO and SPBS fleets by 2040
		b. Work with transit providers on capital transition program for bus fleets.				
TLU 2.4	Electric and Alternative-Fuel Municipal Fleets Develop an electric and alternative-fuel vehicle capital transition program for municipal and school vehicles.	a. Create capital transition program for light-duty vehicles and school buses.				● All new school bus purchases are electric by 2025 ● All new light-duty vehicle purchases are electric by 2028 ● Zero-carbon municipal fleets by 2040
		b. Create parallel transition program for small motor equipment.				
		c. Pursue alternatives for medium/heavy-duty vehicles when viable.				
TLU 2.5	Electric Shared Vehicles and Vehicles for Hire Expand the use of shared electric vehicles, promote electric vehicle use by taxis and other vehicle-for-hire companies, and set a requirement that by 2030 all rideshare vehicles must be electric vehicles.	a. Assess options for incentivizing EV use among taxis and hired vehicles.				● All TNC rideshare vehicles are electric vehicles by 2030
		b. Reassess national market for feasibility of electric car sharing fleets by 2026.				
		c. Mandate that all TNC rideshare vehicles must be EVs by 2030.				
TLU 2.6	Autonomous Vehicles Implement changes to curb and parking designs to incentivize shared autonomous vehicles, and advocate for state requirements that any autonomous vehicles must be electric and shared.	a. Continue to adapt safe/efficient curb and parking standards, considering AVs.				● State requirement that all AVs be electric in place by 2030
		b. Advocate at the state level for AV permits to be limited to electric AVs.				
		c. Work with state to ensure protections for pedestrian use of roadways.				

Transportation & Land Use

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
TLU 3 Transportation Infrastructure						
TLU 3.1	Idling Reductions Reduce vehicle idling through anti-idling policies, vehicle technology, and improved intersection design.	a. Adopt anti-idling technology and policies for public vehicles.	●			● Anti-idling policies to be updated (P) or adopted (SP) and enforced by 2025
		b. Adopt and enforce anti-idling zones and policies for private vehicles.	●	●	●	
		c. Consider anti-idling co-benefits in intersection design.	●	●	●	
TLU 3.2	Freight Transit Partnerships Partner with large stakeholders in the freight sector to encourage development of a Sustainable Freight Action Plan.	a. Work with PACTS to develop a Sustainable Freight Action Agenda.			●	● Regional Sustainable Freight Action Agenda drafted by 2032 ● Statewide Sustainable Freight Action Plan developed by 2035
		b. Advocate for development of a Maine Sustainable Freight Action Plan.			●	
TLU 3.3	Ferry Service Work with Casco Bay Lines to transition its fleet to hybrid-electric ferries, and to consider a ferry route connection between Portland and South Portland.	a. Support Casco Bay Lines in transitioning to electric ferries.	●	●	●	● 60% of ferries (three ferries, based on the current fleet of five) run on all electric power by 2035
		b. Assess feasibility of ferry service between Portland and South Portland.	●	●		
TLU 3.4	Shore Power Commission an engineering study for shore power hookups to allow and eventually require docked ships to connect to electrical service.	a. Commission engineering study of shore power requirements (Portland).			●	● Shore power for full ferry fleet installed by 2040 ● Shore power for cruise ships installed by 2040
		b. Work with Casco Bay Lines to install shore power for ferries (Portland).			●	
		c. Work with PUC, CMP, Port to install shore power for cruise ships (Portland).			●	
TLU 3.5	Jetport Reduce greenhouse gas emissions from the Portland International Jetport through benchmarking and tracking, and through decarbonizing ground vehicles.	a. Decarbonize ground support vehicles (Jetport).	●	●		● “Neutrality” achieved by 2030 under the Airport Carbon Accreditation framework
		b. Consider employing Airport Carbon Accreditation framework (Jetport).	●	●		
		c. Increase knowledge transfer with municipal staff (Portland/Jetport).	●	●		
		d. Improve energy efficiency of older portion of the terminal (Jetport).		●		

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
CR 1 Resilient Buildings and Neighborhoods						
CR 1.1	Resilient New Development Integrate resilience standards and targets into Portland and South Portland’s land use code to minimize flood risk and promote resilient buildings and neighborhoods citywide.	a. Work with partners to model combined storm surge and SLR for overlays.	●			● No new incompatible, vulnerable, or hazardous uses built in areas of highest flood risk by 2026 (with adoption of resilience overlays)
		b. Review and update land use codes to reflect resilience objectives.	●			
		c. Develop and use resilience zoning overlay to guide new construction.		●	●	
CR 1.2	Resilient Existing Buildings Build knowledge, tools, and resources on climate risks and adaptation options for buildings and property.	a. Prepare for securing federal funding for mitigation and/or recovery.	●	●	●	● All city residents have access to tools to assess future flood risk to property by 2026 ● Maine real estate flood risk disclosure required by 2026
		b. Participate in FEMA Community Rating System.	●	●	●	
		c. Launch suite of tools for resilient building retrofits.		●		
		d. Advocate that the State adopt flood risk disclosure requirements.		●		
CR 1.3	Resilient Open Space Planning Establish open space climate resilience goals and protocols for monitoring progress towards those goals in Portland and South Portland’s open space planning.	a. Expand Land Bank (P) / Open Space (SP) priorities to include resilience goals.	●			● Benchmark ecosystem and resilience metrics for open spaces and establish performance goals by 2028
		b. Set goals and measure change for stormwater and floodwater infiltration.		●	●	
		c. Set goals and measure change for carbon sequestration and storage.		●	●	
		d. Set goals and measure change for heat mitigation.		●	●	
		e. Set goals and measure change for biodiversity and ecological connectivity.		●	●	
CR 2 Strong and Healthy Communities						
CR 2.1	Housing Affordability and Resilience Continue to expand access to resilient and energy efficient affordable housing, contributing to diverse and inclusive communities.	a. Launch area-wide housing supply studies in both cities.	●			● Portland to increase housing units affordable to lower and middle income households by 10% by 2025 (from 2019 baseline) ● South Portland to establish affordable housing goal through comprehensive plan or standalone process
		b. Review zoning codes and re-assess development fees to remove constraints.	●			
		c. Enable options for renewable energy financing for affordable housing.	●	●	●	
		d. Advocate for changes to state financing requirements.	●			
		e. Use repositioning to retrofit housing for resilience and energy efficiency.		●	●	
		f. Assess displacement risk and anti-displacement strategies.		●	●	
		g. Work with community partners to lead “We are P/SP” storytelling initiative.		●	●	
CR 2.2	High Heat Mitigation Expand the “cooling capacity” of Portland and South Portland.	a. Preserve and expand protected open space, public parks, and tree cover.	●	●	●	● All residents live within a half mile of a cooling center by 2035 ● All residents live within a half mile of a park or open space by 2035
		b. Increase access to and awareness of places to cool off.	●	●	●	
		c. Revise zoning to increase cooling features in new construction (see CR 1.1).		●		
		d. Develop toolkit w/partners on retrofits to keep homes cooler (see CR 1.2).		●		

Climate Resilience

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
CR 2.3	Resilient Food Systems Cultivate healthy, regenerative, and just food systems.	a. Expand public land access for food production.				● Establish small grants for food system innovators by 2025 ● Secure funding to commission foodshed assessment by 2028 ● Expand access to community agriculture to all neighborhoods to meet demand
		b. Establish/improve policies to connect producers/harvesters and consumers.				
		c. Provide grants/business development for food system resilience/innovation.				
		d. Conduct a foodshed assessment.				
		e. Partner to support job training and reskilling in the food production sector.				
CR 2.4	Transportation Access Continue to prioritize decision-making processes and transit investments that advance equity in our cities.	a. Collaborate with GPCOG to launch next phase of CTLP program.				● Address first round of proposals made by Community Transportation Leaders by 2026
		b. Invite Community Leaders to participate in OCF planning initiatives.				
		c. Review and implement proposed solutions from CTLP first round.				
CR 2.5	Neighborhood Resources Support and strengthen our existing community resources.	a. Establish a small grants program to support initiatives that build resilience.				● Award the first round of community organizations or neighborhood groups with resilience grants by 2025
		b. Launch Sustainable Neighborhood programs.				
		c. Work with residents/community orgs. to resource neighborhood hubs.				
CR 3 Resilient Local Economy						
CR 3.1	Resilient Working Waterfronts Create an ongoing platform for collaborative planning to ensure that Portland and South Portland’s port and waterfronts can respond, adapt, and thrive with new climate stresses.	a. Develop PPP to access grant funding for waterfront resilience collaboration.				● Grant funding and partnerships secured for resilient working waterfronts project by 2026
		b. Convene port/waterfront industries for coordinated resilience planning.				
		(+ actions on revising land use code captured by other strategies - see text)				
CR 3.2	Workforce for a Resilient Economy Attract, mentor, and build the skills of our cities’ workers to partake in quality jobs that help build a diverse, resilient, and regenerative economy.	a. Work with partners to strengthen job training and employment pipelines.				● Targets set through collaboration for net increases in individuals trained in specific sustainability/resilience fields
CR 3.3	Climate-Ready Industries and Innovation Build the capacity of the businesses and industries in our cities to bounce back, adapt, and innovate.	a. Support business resilience via economic development programs.				● Revise land use policies to reduce barriers to traditional and emerging marine related industries by 2026
		b. Identify barriers and opportunities for the growth of a blue economy.				
		c. Drive innovation/growth in climate-ready industries via PPPs and pilots.				
CR 4 Resilient Infrastructure Systems						
CR 4.1	Stormwater Systems Use modeling and flood data to upgrade the cities’ stormwater and sewer systems to handle future climate scenarios.	a. Fill gaps in geospatial data for the sewer and stormwater system.				● Full geospatial data set completed for sewer and stormwater system by 2024 ● Hydrologic / hydraulic drainage model completed by 2028
		b. Implement comprehensive asset management system.				
		c. Build out protocol for consistently tracking flood incidences.				
		d. Commission hydrologic/hydraulic drainage model.				

Climate Resilience

Action			Timeline			
#	Action Description	Action Subcomponents	By 2025	2026-2030	2031-2050	Milestones
CR 4.2	Green Infrastructure Expand the use of green infrastructure systems to capture and infiltrate the first inch of stormwater in any storm.	a. Evaluate/adjust ordinances to increase infiltration in new development.				● 5% of impervious surfaces in the cities converted to green infrastructure by 2035; 10% by 2040; and 15% by 2050
		b. Explore revising (P)/adopting (SP) stormwater service charges and credits.				
		c. Evaluate/implement initiatives and tools to expand GI on private property.				
		d. Collaborate with regional partners to build education/awareness of GI.				
CR 4.3	Energy Systems Build Portland and South Portland’s energy resilience.	a. Advocate for site-specific climate risk assessments of critical infrastructure.				● Development of Resilient Power Plan by 2024 ● All new development over 50,000 square feet to evaluate district energy/microgrids within one year of microgrid enabling legislation
		b. Advocate for evaluation of climate risks in future infrastructure planning.				
		c. Develop and implement a Resilient Power Plan.				
		(+ actions on energy resilience captured by other strategies - see text)				
CR 4.4	Transportation Systems Adopt a risk-based transportation asset management approach.	a. Build out robust geospatial data to support modeling and predictions.				● Climate hazards and resilience indicators applied to all asset management decision-making by 2028
		b. Model asset lifespans with consideration for climate hazards.				
		c. Establish resilience design guidelines and performance indicators.				
		d. Develop phased investment approach, influenced by climate risk.				
CR 5 Ecosystem Resilience						
CR 5.1	Ecosystem Adaptive Management Strengthen ecosystem resilience through enhancing connectivity, biodiversity, and healthy habitat.	a. Monitor and manage pests and invasives.				● Fertilizer ordinance adopted by 2022 ● No net coastal wetland loss by 2035 ● Establish biodiversity and connectivity targets by 2028
		b. Mitigate coastal acidification by reducing stormwater pollution.				
		c. Develop biodiversity and connectivity goals and guidelines (aligned with CR 1.3).				
		d. Facilitate tidal wetland migration.				
		e. Curtail coastal erosion with living shorelines.				
CR 5.2	Soil Health Build back the health of our soils for ecological vitality, water infiltration, and carbon sequestration.	a. Adopt post-construction soil health standards.				● Post-construction soil health standards adopted for new construction by 2025 ● “100 Resilient Lawns” achieved across both cities by 2028
		b. Pilot and monitor healthy soil land management practices.				
		c. Share results and launch campaign to improve soil on private lawns.				

To: Councilor Ray and members of the Sustainability and Transportation Committee
From: Troy Moon, Sustainability Director
Date: 1/11/2021
Re: 2021 Work Plan Discussion

In preparation for our January meeting, Councilor Ray and I met to prepare some possible items for inclusion in the Committee's work plan for the upcoming year. It includes items carried over from last year as well as some new items. During our preparation meeting Councilor Ray suggested that items taken up by the committee should be priorities identified in the One Climate Future plan and/or are Council goals. This list can serve as a starting point for the Committee's discussion on Thursday.

- Review One Climate Future short term priorities and identify actions the Committee can take to ensure we get started.
- Analyze the Green New Deal referendum to identify congruence or conflict with One Climate Future and recommend policies to address differences.
- Discussion with Planning how ReCode can advance goals identified in One Climate Future.
- Continue work on Resilience Overlay Zones as elaborated in One Climate Future.
- Review and recommend amendments to the sidewalk material policy.
- Engage with the Transit Tomorrow plan and opportunities to improve transit service.
- Explore requiring home sellers to disclose an Energy Star Home Energy Score at the time of sale to make energy costs transparent to the buyer and incentivize weatherization.
- Continue discussion of the recently passed heritage tree ordinance and explore opportunities to expand tree canopy in underserved parts of the city.
- Look at carry over items from 2020 such as additional regulation of single use plastics and a fertilizer ordinance and determine whether they remain priorities at this time.
- Review State legislation that affects implementation of One Climate Future including:
 - Funding opportunities -- potential statewide Green Bank and C-PACE
 - Potential changes to the state's solar laws

I look forward to discussing these items as well as other contributions by Committee members.