



# ONE CLIMATE FUTURE

Charting a Course *for*  
Portland and South Portland

## 2021 End of Year Progress Report

Progress on Near-Term Strategies (2020-2025)



# Look How Much We've Accomplished This Year!



This list shows all of the work the Cities of Portland and South Portland have made progress on this year!

These actions include projects, plans, ordinances, and ongoing conversations to help the Cities achieve One Climate Future goals of reducing city-wide greenhouse gas emissions 80% by 2050 and transitioning municipal operations to 100% clean renewable energy by 2040.

- Up to 75% of City's municipal electricity offset by solar consortium projects, and Ocean Ave and Jetport arrays (Portland)
- More than 85% of City's municipal electricity offset by new solar projects including new Community Center and capped landfill arrays (South Portland)
- Net-zero energy facilities committee created (South Portland)
- Net-zero energy goal incorporated in building design scenarios (South Portland)
- Adopted IECC 2021
  - with solar-ready and zero energy appendix (Portland)
- EV requirements added to the Tech Manual (Portland)
- Adopting EV charging in new parking lots (South Portland)
- Learning and leading in building inspections
- Establishing leaders program for building & design community (Portland)
- Establishing a city-supported, industry-led program to make efficient, electrified, and resilient buildings the standard (South Portland)
- Launched benchmarking program to improve compliance w/ the ordinance (Portland)
- Adopted new Energy and Water Use Performance Benchmarking Ordinance which expands benchmarking citywide for buildings over 20,000 sq ft after successful 2017 pilot program (South Portland)
- Advocated for several state-level bills to increase energy efficiency and renewable energy funding (South Portland)
- Developing an Electrify Everything! comprehensive program to decarbonize the residential sector
- RPS and Community Scale Purchasing goals on track
- Advocated successfully for legislation mandating the PUC to issue an RFI to inform the development of a statewide aggregated data platform
- Participate in statewide discussion about DER strategy and innovation
- Working with CMP and Efficiency Maine to develop a hosting capacity study, and CMP/PUC to increase capacity of the local grid
- Participating in NWA (non wires alternative) docket at PUC
- Analyzing the cost and feasibility of different PAYT models (South Portland)
- Continued tagging program and outreach about recycling
- Launched City's first public food waste recycling program, a pilot drop-off program w/ 5 collection sites (Portland)
- Expanding food waste collection sites in West End (South Portland)
- Exploring options for curbside collection (South Portland)
- Phase II of the Straw Ban went into effect in April (Portland)
- Created Retailer FAQ page with best practices (Portland)
- Developing a proposal for an electric tool library (South Portland)
- Completed phase I of the ReCode process (Portland)
- Supported transit oriented development through comprehensive planning (South Portland)
- Released Bike Share Program RFP with program kickoff next summer (Portland)
- Adding new bike lanes incrementally (Waterman Dr, Westbrook St) (South Portland)
- Implemented traffic calming strategies in Cash Corner and four other locations (South Portland)
- Completed road classification GIS inventory (South Portland)
- Developing a complete streets design manual and updating code of ordinances to add complete streets specifications
- Initiated City Hall carshare (Portland)
- Reduced parking requirements through ReCode Phase I (Portland)
- Adopted Accessory Dwelling Units (ADU) Policy (Portland)
- Planning Division is developing recommendations for streamlining ADUs; also supporting other densification measures through the Comp Plan Update (South Portland)
- Secured 6 EV chargers through partnership with commercial charging network (Portland)
- Added municipal chargers
- Established a grant for businesses to install EV charging stations (South Portland)
- Released EV Charging RFP (Portland)
- Developing an RFP to add public EV charging at 12-36 municipal sites (South Portland)
- Continuing to promote EV rebates (South Portland)
- Completed month-long outreach campaign and hosted 2021 National Drive Electric event at Community Center (South Portland)
- 4 BEV Hyundai Konas in each city
- Established Biodiesel Pilot Project (South Portland)
- Developed Capital Transition Plan (South Portland)
- Developing an anti-idling campaign for targeted locations (South Portland)
- Implemented smart traffic signals that reduce idling through RapidFlow technology (Portland)
- Design and approval of hybrid ferry at Casco Bay Lines (Portland)
- Collaborating with U.S. Army Corps of Engineers, FEMA, NOAA, USDA, USGS, and Maine ACFD to complete dynamic coastal flood inundation modeling
- Developing a resilience zoning overlay to minimize impacts of and align new development with climate hazards (South Portland)
- Working on historic preservation design standard amendments (Portland)
- Adopted an ordinance to tier City properties for open space protection (South Portland)
- Planning Division commissioned a housing assessment to identify gaps or deficiencies in maintaining equitable access to safe, resilient, and reliable housing (South Portland)
- Allocated \$200K to expand tree canopy in Bayside (Portland)
- In the process of adopting a tree ordinance (South Portland)
- Parks Department is pursuing funding for a tree inventory and canopy assessment (South Portland)
- Expanding community gardens to Red Bank and Sawyer Park and updating gardens at Hinkley Park (South Portland)
- Supported GPCOG's Community Transportation Leadership Program (South Portland)
- Developing an Equity Atlas to inform development of future neighborhood-based resilience programs (South Portland)
- Economic Development supported small businesses through a COVID hardship grant (South Portland)
- Economic Development is promoting a harbor restoration project through public-private partnerships (South Portland)
- Develop waterfront master plan through Comp Plan updates (South Portland)
- Ongoing conversation with waterfront stakeholders to promote and develop marine uses (Portland)
- Improvement of mapping/data for sewer and storm system
- Improvement of SLR mapping to understand parcel level impacts
- Incorporating OCF resilience in MS4 stormwater permit outreach (South Portland)
- Low Impact Development Ordinance in development (South Portland)
- Monitoring invasive pests (Portland)
- Adopted soil standards for new development
- Adopted a fertilizer ordinance (South Portland)
- Developing a 100 Resilient Yards program (South Portland)

# BE 1: Municipal Buildings and Energy Supply

## IN PROGRESS

### *Renewable Municipal Electricity*

- Up to 75% of City's municipal electricity offset by solar consortium projects, and Ocean Ave and Jetport arrays (Portland)
- More than 85% of City's municipal electricity offset by new solar projects including new Community Center and capped landfill arrays (South Portland)

### *Net Zero Energy New Buildings*

- Net-zero energy facilities committee created (South Portland)
- Net-zero energy goal incorporated in building design scenarios (South Portland)



**Ocean Ave, Portland**



**Community Center, South Portland**

## UPCOMING

### *Renewable Municipal Electricity*

- Install new solar projects on City property (Portland)

### *Net Zero Energy New Buildings*

- Work to make new city buildings and construction NZE through performance-based procurement, work with Facilities Department to conduct energy audits on existing buildings, develop strategic energy management plans for retrofits and electrification (South Portland)

### *Energy Efficiency Retrofits*

- Work with new Facilities Committee to ensure renovation plans address climate goals and establish SEMP (South Portland)



# BE 2: New Construction Energy Efficiency and Decarbonization

## IN PROGRESS

### *Energy Stretch Code*

- Adopted IECC 2021 with solar-ready and zero energy appendix (Cities)

### *Solar-Ready and EV-Ready Code Requirements*

- EV requirements added to the Tech Manual (Portland)
- Adopting EV charging in new parking lots (South Portland)

### *Leadership and Education*

- Learning and leading in building inspections
- Establishing leaders program for building & design community (Portland)
- Establishing a city-supported, industry-led program to make efficient, electrified, and resilient buildings the standard (South Portland)

## UPCOMING

### *Solar-Ready and EV-Ready Code Requirements*

- Update solar ordinance
- Update Historic Preservation design standards

### *Energy Stretch Code*

- Hire third party to provide trainings for developers



# BE 3: Existing Buildings Energy Efficiency and Decarbonization

## IN PROGRESS

### *Energy Benchmarking*

- Launched benchmarking program to improve compliance w/ the ordinance (Portland)
- Adopted new Energy and Water Use Performance Benchmarking Ordinance which expands benchmarking citywide for buildings over 20,000 sq ft after successful 2017 pilot program (South Portland)
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### *Energy Efficiency Spending*

- Advocated for several state-level bills to increase energy efficiency and renewable energy funding (South Portland)

### *Renewable Heating and Cooling, Buy Bulk Program, & Solar Proliferation*

- Developing an Electrify Everything! comprehensive program to decarbonize the residential sector (South Portland)

*\* the development of the Electrify Everything! program includes 3.5 Bulk Buy Programs and 3.6 Solar Proliferation strategies*

## UPCOMING

### *Energy Benchmarking*

- Expand benchmarking program to multi-tenant buildings (Portland) and multi-unit residential buildings (South Portland)
- Achieve compliance goals of 80% (Portland) and 90% (South Portland)

### *Energy Efficiency Spending*

- Advocate at the state level
- Access infrastructure funding to expand energy efficiency and decarbonization efforts (South Portland)



# BE 5: Clean and Renewable Energy Infrastructure and Regulatory Transformation

## IN PROGRESS

### *Renewable Portfolio Standard and Community Scale Purchasing*

- RPS and Community Scale Purchasing goals on track (South Portland)

### *Utility Data Access Reform*

- Advocated successfully for legislation mandating the PUC to issue an RFI to inform the development of a statewide aggregated data platform (South Portland)

### *Utility Reform to Support Electrification*

- Participate in statewide discussion about DER strategy and innovation
- Advocate for legislation to support reforms (South Portland)
- Non Wire Alternatives docket at the PUC

### *Electrical Transmission and Distribution*

- Working with CMP and Efficiency Maine to 5.5 develop a hosting capacity study, and CMP/PUC to increase capacity of the local grid (South Portland)
- Participating in NWA (non wires alternative) docket at PUC (South Portland)



**Solar array @  
landfill,  
South Portland**

## UPCOMING

### *Natural Gas Phase-out*

- Explore the legality of and advocate for natural gas phase-out (South Portland)





**Waste  
Reduction**

# WR 1: Residential and Commercial Waste

## IN PROGRESS

### *Pay-As-You-Throw*

- Analyzing the cost and feasibility of different PAYT models (South Portland)

### *Single Stream Recycling*

- Continued tagging program and outreach about recycling (South Portland)

### *Food Waste Reduction and Organics Recycling*

- Launched City's first public food waste recycling program, a pilot drop-off program w/ 5 collection sites (Portland)
- Expanding food waste collection sites in West End (South Portland)
- Exploring options for curbside collection (South Portland)

### *Single-Use Plastics*

- Phase II of the Straw Ban went into effect in April (Portland)
- Created Retailer FAQ page with best practices (Portland)

### *Circular Sharing Economy*

- Developing a proposal for an electric tool library (South Portland)



Portland Food  
Compositng Drop Off

## UPCOMING

### *Single Stream Recycling*

- Develop a business and multi-family recycling ordinance (South Portland)

### *Organics Recycling*

- Expand food waste drop-off locations in both cities

### *Single-Use Plastics*

- Work with retailers to reduce single-use plastics



# TLU 1: Mode Shift and Land Use

## IN PROGRESS

### *Transit Oriented Development (TOD)*

- Completed phase I of the ReCode process (Portland)
- Supported transit oriented development through comprehensive planning (South Portland)

### *Bike Accessibility*

- Released Bike Share Program RFP with program kickoff next summer (Portland)
- Adding new bike lanes incrementally (Waterman Dr, Westbrook St) (South Portland)

### *Complete Streets*

- Implemented traffic calming strategies in Cash Corner and four other locations (South Portland)
- Completed road classification GIS inventory (South Portland)
- Developing a complete streets design manual and updating code of ordinances to add complete streets specifications (South Portland)

### *Transit Partnerships*

- Initiated City Hall carshare (Portland)

### *Parking*

- Reduced parking requirements through ReCode Phase I (Portland)

### *Land Use for a Smaller Carbon Footprint*

- Adopted Accessory Dwelling Units (ADU) Policy (Portland)
- Planning Division is developing recommendations for streamlining ADUs; also supporting other densification measures through the Comp Plan Update (South Portland)

## UPCOMING

### *Transit Oriented Development (TOD)*

- Advocate for increased state funding for multimodal projects
- Adopt ReCode (Portland)
- Support TOD through updated Comp Plan (South Portland)

### *Bike Accessibility*

- Develop bike and pedestrian master plan as part of the Comp Plan update (South Portland)
- Evaluate Portland Bike Share program for expansion into South Portland (South Portland)
- Install more bike infrastructure

### *Complete Streets*

- Finish design manual (Portland)



Traffic Calming @ Cash  
Corner, South Portland





# TLU 2: Vehicle Electrification

## IN PROGRESS

### *EV Charging Infrastructure*

- City-owned EV chargers (Portland)
- Secured 6 EV chargers through partnership with commercial charging network (Portland)
- Added municipal chargers (South Portland)
- Established a grant for businesses to install EV charging stations (South Portland)
- Released EV Charging RFP (Portland)
- Developing an RFP to add public EV charging at 12-36 municipal sites (South Portland)

### *Electric Vehicle Incentives*

- Continuing to promote EV rebates (South Portland)
- Completed month-long outreach campaign and hosted 2021 National Drive Electric event at Community Center (South Portland)

### *Municipal Fleets*

- 4 BEV Hyundai Konas in each city
- Established Biodiesel Pilot Project (South Portland)
- Developed Capital Transition Plan (South Portland)

### EV Fleet, South Portland



## UPCOMING

### *EV Charging Infrastructure*

- Advocate for and access more chargers through federal and state funding

### *Incentivizing Evs*

- Adopt city fleet electrification policy (Portland)

### *Electric Public Transit Bus Fleets*

- Work with school department to procure electric school buses (South Portland)

### *Municipal Fleets*

- Install biodiesel at Public Works (South Portland)



Transportation  
and Land Use

# TLU 3: Transportation Infrastructure

## IN PROGRESS

### *Idling Reductions*

- Developing an anti-idling campaign for targeted locations (South Portland)
- Implemented smart traffic signals that reduce idling through RapidFlow technology (Portland)

### *Ferry Service*

- Design and approval of hybrid ferry at Casco Bay Lines (Portland)

## UPCOMING

### *Idling Reductions*

- Explore potential for expansion of smart traffic signals (Portland)

### *Ferry Service*

- Build on Cushing Point Study to examine feasibility of SoPo ferry service (South Portland)



**Casco Bay  
Lines Ferry &  
Bug Light**



# CR 1: Resilient Buildings and Neighborhoods



**GMRI “High Water Mark” signs, South Portland**

## IN PROGRESS

### *Resilient New Development*

- Collaborating with U.S. Army Corps of Engineers, FEMA, NOAA, USDA, USGS, and Maine ACFD to complete dynamic coastal flood inundation modeling (South Portland & Portland)
- Developing a resilience zoning overlay to minimize impacts of and align new development with climate hazards (South Portland)

### *Resilient Existing Buildings*

- Working on historic preservation design standard amendments (Portland)

### *Resilient Open Space Planning*

- Adopted an ordinance to tier City properties for open space protection (South Portland)

## UPCOMING

### *Resilient New Development*

- Explore potential of resilience overlay zones

### *Resilient Existing Buildings*

- Explore participation in FEMA Community Rating System (South Portland)
- Work with EMS to integrate OCF resilience measures into Hazard Mitigation Plan (South Portland)

### *Resilient Open Space Planning*

- Work with OSAC to incorporate climate resilience goals into open space planning and develop a system to benchmark changes (South Portland)

# CR 2: Strong and Healthy Communities

## IN PROGRESS

### *Housing Affordability and Resilience*

- Planning Division commissioned a housing assessment to identify gaps or deficiencies in maintaining equitable access to safe, resilient, and reliable housing (South Portland)

### *High Heat Mitigation*

- Allocated \$200K to expand tree canopy in Bayside (Portland)
- In the process of adopting a tree ordinance (South Portland)
- Parks Department is pursuing funding for a tree inventory and canopy assessment (South Portland)

### *Resilient Food System*

- Expanding community garden to Red Bank and Sawyer Park and updating gardens at Hinkley Park (South Portland)

### *Transportation Access*

- Partnering with GPCOG on their “Bus Ambassadors” program, which aims to help people, especially new Mainers, navigate using transit (South Portland)

### *Neighborhood Resources*

- Developing an Equity Atlas to inform development of future neighborhood-based resilience programs (South Portland)

## UPCOMING

### *Clean Energy Industries and Innovation*

- Work to ensure energy efficiency and renewable energy for affordable housing



# CR 3: Resilient Local Economy

## UPCOMING

### *Clean Energy Industries and Innovation*

- Look for opportunities to use infrastructure money to promote clean energy jobs (Portland)

### *Resilient Working Waterfronts*

- Waterfront masterplan through Comp Plan update (South Portland)

## IN PROGRESS

### *Climate-Ready Industries and Innovation*

- Economic Development supported small businesses through a COVID hardship grant (South Portland)
- Economic Development is promoting a harbor restoration project through public-private partnerships (South Portland)

### *Resilient Working Waterfronts*

- Develop waterfront master plan through Comp Plan updates (South Portland)
- Ongoing conversation with waterfront stakeholders to promote and develop marine uses (Portland)

# CR 4: Resilient Infrastructure Systems

## IN PROGRESS

### *Stormwater Systems*

- Improvement of mapping/data for sewer and storm system
- Improvement of SLR mapping to understand parcel level impacts

### *Green Infrastructure*

- Incorporating OCF resilience in MS4 stormwater permit outreach (South Portland)
- Low Impact Development Ordinance in development (South Portland)

## UPCOMING

### *Stormwater Systems*

- Complete geospatial data for stormwater/sewers systems (South Portland)
- Pursue or commission hydrologic/hydraulic study (South Portland)



# CR 5: Resilient Ecosystems

## IN PROGRESS

### *Ecosystem Adaptive Management*

- Monitoring invasive pests (Portland)

### *Soil Health*

- Adopted soil standards for new development (Portland)
- Adopted a fertilizer ordinance and soil standards for new development (South Portland)
- Developing a “100 Resilient Yards” program (South Portland)



**Soil health  
outreach, South  
Portland**

## UPCOMING

### *Soil Health*

- Adopt a fertilizer ordinance (Portland)