

# City of Portland

## One Climate Future Annual Report

November 2020 – December 2021

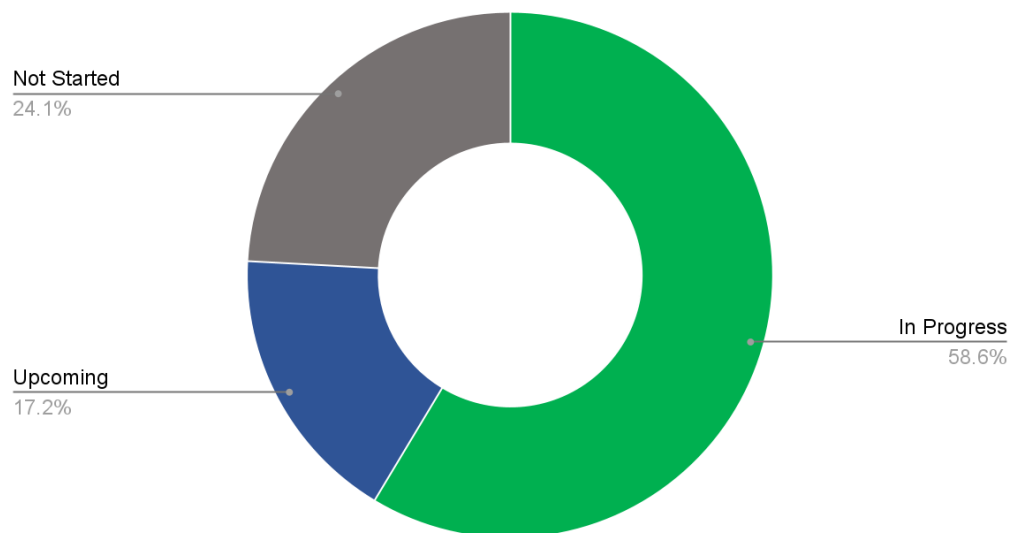
The City's joint climate action and adaptation plan with South Portland, One Climate Future, was adopted in November 2020. It contains 67 strategies with 186 action items for reducing greenhouse gas emissions 80% by 2050 and building the resilience of our neighborhoods, infrastructure, and ecosystems to the impacts of climate change.

58 (85%) of the strategies and 107 of the action items are near-term, to be completed by 2025.

One year in, we have made significant progress toward implementing our plan.

Of the 58 near-term strategies, the chart below illustrates the 34 in progress, 10 upcoming, and 14 not started.

58 Near-Term OCF Strategies



## BE 1. MUNICIPAL BUILDINGS AND ENERGY SUPPLY

### *In Progress*

- 1.1 Renewable Municipal Electricity – Have installed solar and signed offtake agreements with offsite projects that produce about 75% of the City’s annual electricity consumption.

### *Upcoming*

- 1.1 Renewable Municipal Electricity cont’d - Install new solar projects on City property.
- 1.2 Net-Zero New City Buildings - exploring energy and resilience retrofits for some facilities.
- 1.3 Energy Efficiency Retrofits for City Buildings – see 1.2 (same)

### *Not started*

- 1.4 Internal Carbon Pricing for Municipal Construction and Operations (mid-term strategy)

## BE 2. NEW CONSTRUCTION ENERGY EFFICIENCY AND DECARBONIZATION

### *In Progress*

- 2.1 Energy Stretch Code – adopted Maine Energy Stretch Code (IECC 2021) with zero energy appendix; learning and leading on building inspections.
- 2.2 Solar-Ready and EV-Ready Code Requirements – updated the technical design manual to require EV charging for all new parking with 10 or more spaces..
- 2.4 Leadership and Education – establishing a leaders program for the building and design community.

### *Upcoming*

- 2.1 Energy Stretch Code cont’d - developing a training program for city staff and private builders..
- 2.2 Solar-Ready and EV-Ready Code Requirements cont’d - update the solar ordinance and update the Historic Preservation design standards.

### *Not started*

- 2.3 Code Enforcement (mid-term strategy) - add capacity in Building and Inspections to review energy models for advanced energy codes

## BE 3. EXISTING BUILDINGS ENERGY EFFICIENCY AND DECARBONIZATION

### *In Progress*

- 3.1 Energy Benchmarking – launched a benchmarking program to improve compliance with the Benchmarking Ordinance for single occupant buildings over 20,000 square feet.
- 3.3 Energy Efficiency Spending – advocated for several state-level bills to increase funding for energy efficiency and renewable energy (C-PACE, Energy accelerator, etc.)
- 3.4 Renewable Heating and Cooling – developing an Electrify Everything! comprehensive program to decarbonize the residential sector
- 3.5 Bulk Buy Programs – included in Electrify Everything!
- 3.6 Solar Proliferation – included in Electrify Everything!

### *Upcoming*

- 3.1 Energy Benchmarking cont'd - expand benchmarking program to include multi-tenant buildings and achieve a goal of 80% compliance rate.
- 3.3 Energy Efficiency Spending cont'd - continue to advocate at the state level. Access grant and infrastructure funding to support energy efficiency and decarbonization efforts.

### *Not started*

- 3.2 Building Performance Standards (mid-term strategy)
- 3.7 Energy Efficient Rental Housing

## BE 4. INDUSTRIAL ENERGY EFFICIENCY AND DECARBONIZATION

### *In Progress*

### *Upcoming*

- 4.1 Industrial Energy Efficiency Spending – meet with key industries, Efficiency Maine

### *Not started*

- 4.2 Industrial Energy Efficiency and Decarbonization Study

## BE 5. CLEAN AND RENEWABLE ENERGY INFRASTRUCTURE AND REGULATORY TRANSFORMATION

### *In Progress*

- 5.1 Renewable Portfolio Standard and Community-Scale Purchasing – continues to be on track
- 5.2 Utility Data Access Reform – successfully advocated for legislation mandating that the PUC to issue an RFI for the development of a statewide aggregated data platform
- 5.3 Utility Regulatory Reform to Support Electrification – participating in statewide discussions about rate design, DER strategy, and innovation; advocating for legislation to support reforms
- 5.5 Electrical Transmission and Distribution – 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

### *Upcoming*

### *Not started*

- 5.4 Renewable District Energy Systems
- 5.6 Natural Gas Phase-Out
- 5.7 Carbon Pricing (long-term)

## WR 1. RESIDENTIAL AND COMMERCIAL WASTE

### *In Progress*

- 1.1 Pay-As-You-Throw – This is a South Portland-specific strategy
- 1.3 Food Waste Reduction and Organics Recycling – launched City’s first public food waste recycling program, a pilot drop-off program with 5 collection sites. Exploring options for citywide curbside food waste collection.
- 1.4 Single-Use Plastics - rolled out Phase II of the Straw Ban in April and created a retailer FAQ page with best practices.

### *Upcoming*

- 1.2 Single-Stream Recycling – improve education and enforcement of existing multi-family recycling ordinance.
- 1.3 Food Waste Reduction and Organics Recycling cont’d - Recommend strategies to expand opportunities for residents to compost food waste.

## 1.4 Single-Use Plastics cont'd – Working with retailers to reduce single use plastics

*Not started*

## 1.5 Circular Sharing Economy

# WR 2. CONSTRUCTION, INDUSTRIAL, AND MUNICIPAL WASTE

*In Progress*

*Upcoming*

## 2.4 Sustainable Purchasing Policy – adopt a sustainable purchasing policy for the City

*Not started*

### 2.1 Construction and Demolition Waste (mid-term strategy)

### 2.2 Industrial Waste (long-term strategy)

### 2.3 Wastewater Emissions (long-term strategy)

# TLU 1. MODE SHIFT AND LAND USE

*In Progress*

## 1.1 Public Transit Networks - participating in PACTS's Transit Together and Rapid Transit Study Work

## 1.2 Inclusive Transit Oriented Development - identified land use policy opportunities around TOD through ReCode Phase II land use code evaluation

### 1.3 Bike Accessibility – released Bike Share Program RFP and chose Tandem Mobility as program vendor with program kickoff next summer; initiated concept design for Baxter-Bates-Veranda St. Bikeway/East Coast Greenway; Peninsula Circumferential Shared Use Pathway network (Bayside Trail Extension; initiated Union Branch Rail Line Shared Use Pathway from Forest Ave to Park Ave); leveraged private construction of West Commercial St Pathway; Neighborhood Byways- Transportation Center Byway Project designed and bid awarded, North Deering Neighborhood Byway trail upgraded by DPW facility; conducted analysis of potential higher quality bike lane locations

## 1.4 Complete Streets – enhanced project scoping of Libbytown Safety and Accessibility Project began; implementing Smart Corridor with preliminary design funded for Morrills Corner and Forest Ave, enhanced project scoping funded for Woodfords Corner to Exit 6; advanced the enhanced project scoping for Brighton Ave Multimodal Project; began construction of Somerset St Reconnection/Bayside Trail Extension, Elm st to Brattle st

- 1.5 Employer Transit Partnerships - contacted TDM coordinators for active TDM plans to update reporting requirements to standard spring reporting period, began buildout of TDM resources website for use by TDM coordinators
- 1.6 Parking - eliminated parking requirements for significant portions of the city through ReCode Phase I; added EV parking requirements to the city's Technical Manual
- 1.7 Land Use for a Smaller Carbon Footprint – streamlined Accessory Dwelling Units (ADU) Policy; initiated work on ReCode Phase II to incorporate OCF's land use goals as a foundational element

#### *Upcoming*

- 1.1 Public Transit Networks cont'd – advocate for increased state funding for multimodal projects
- 1.2 Inclusive Transit-Oriented Development cont'd – advocate for increased state funding for multimodal projects and adopt ReCode.
- 1.3 Bike Accessibility cont'd – install more bike infrastructure; public engagement and design/implementation of higher quality bike lane analysis

#### *Not started*

## TLU 2. VEHICLE ELECTRIFICATION

#### *In Progress*

- 2.1 Electric Vehicle Charging Infrastructure – added 15 networked L2 EV chargers; finalizing contract with a private partner to install multiple DC fast chargers and many L2 chargers across the City.
- 2.2 Electric Vehicle Incentives – continued promoting EV rebates
- 2.4 Electric and Alternative-Fuel Municipal Fleets – leased four new EV Hyundai Konas at zero cost; initiated City Hall EV carshare program

#### *Upcoming*

- 2.1 Electric Vehicle Charging Infrastructure cont'd - Access federal and state infrastructure funding for more EV chargers and vehicles
- 2.4 Electric and Alternative-Fuel Municipal Fleets cont'd - adopt city fleet electrification policy

#### *Not started*

- 2.3 Electric Public Transit Bus Fleets
- 2.5 Electric Shared Vehicles and Vehicles for Hire
- 2.6 Autonomous Vehicles (mid-term strategy)

## TLU 3. TRANSPORTATION INFRASTRUCTURE

### *In Progress*

- 3.1 Idling Reductions – implemented smart traffic signals that reduce idling through RapidFlow technology
- 3.3 Ferry Service - Casco Bay Lines designed and approved hybrid ferry

### *Upcoming*

- 3.1 Idling Reductions cont'd - explore potential for expansion of smart traffic signals

### *Not started*

- 3.2 Freight Transit Partnerships (long-term strategy)
- 3.4 Shore Power (long-term strategy)
- 3.5 Jetport (mid-term strategy)

## CR 1. RESILIENT BUILDINGS AND NEIGHBORHOODS

### *In Progress*

- 1.1 Resilient New Development – working with U.S. Army Corps of Engineers, FEMA, NOAA, USDA, USGS, and Maine ACFD to complete dynamic coastal flood inundation modeling for Portland

### *Upcoming*

- 1.2 Resilient Existing Buildings - working on historic preservation design standard amendments
- 1.3 Resilient Open Space Planning

### *Not started*

## CR 2. STRONG AND HEALTHY COMMUNITIES

### *In Progress*

- 2.2 High Heat Mitigation – allocated \$250k to expand tree canopy in Bayside neighborhood

### *Upcoming*

2.1 Housing Affordability and Resilience - work to ensure energy efficiency and renewable energy for affordable housing

*Not started*

2.3 Resilient Food Systems

2.4 Transportation Access (mid-term strategy)

2.5 Neighborhood Resources

### CR 3. RESILIENT LOCAL ECONOMY

*In Progress*

3.1 Resilient Working Waterfronts - ongoing conversation with waterfront stakeholders to promote and develop marine uses

3.3 Climate-Ready Industries and Innovation – Economic Development supported small businesses through a COVID hardship grant; Covid related street closures made permanent to facilitate outdoor dining

*Upcoming*

3.1 Resilient Working Waterfronts cont'd - Waterfront Master Plan through Comp Plan Update

3.2 Workforce for a Resilient Economy - identify opportunities from infrastructure funding to promote clean energy jobs

*Not started*

### CR 4. RESILIENT INFRASTRUCTURE SYSTEMS

*In Progress*

4.1 Stormwater Systems - improvement of mapping/data for sewer and storm system; improvement of SLR mapping to understand parcel level impacts

*Upcoming*

*Not started*

4.2 Green Infrastructure (long-term strategy)

4.3 Energy Systems (mid-term strategy)

4.4 Transportation Systems (mid-term strategy)



## CR 5. ECOSYSTEM RESILIENCE

### *In Progress*

5.1 Ecosystem Adaptive Management – monitoring invasive pests

5.2 Soil Health – adopted soil standards for new development

### *Upcoming*

5.2 Soil Health cont'd - adopt a fertilizer ordinance

### *Not started*