

COMMUNITY IS KEY



# PCEF Grant Committee Meeting

January 25<sup>th</sup>, 2024, 6:00 – 8:30 p.m.

PORTLAND  
**CLEAN ENERGY  
COMMUNITY BENEFITS  
FUND**



THE BUREAU OF **PLANNING  
& SUSTAINABILITY**

VISIT US ONLINE  
[portland.gov/bps/cleanenergy](https://portland.gov/bps/cleanenergy)

# Virtual Meeting Participation Check

## Guidelines for public participation

- Committee meetings open to the public
- Public invited to comment at around 6:05 p.m.
- There will be a break at 7:15 pm, online participants will see a break screen. There will be no online discussion available during break.

### ➔ Guidelines applied to virtual/hybrid meeting:



**Chatbox:** open for introductions and for noting public comment interest. All other times, host-only chats (PCEF Staff).



**Raise Hand:** used by Committee/presenters only.



**Video:** on for Committee/presenters only.



**Microphone:** public members muted.



**Recording:** this meeting is being recorded.



**Captioning:** this meeting is being captioned; settings > show subtitles.

# Agenda

- 6:00      Agenda overview, followed by introductions
- 6:05      Public comment
- 6:15      Background and context – funding forecast, Committee role, and climate investment need
  - Peter Hulseman, City Economist
- 6:25      Process for 1<sup>st</sup> set of proposed allocations to City bureaus
- 6:30      Proposal overviews:
  - Gabe Solmer, Director, Water Bureau and Bureau of Hydroelectric Power
  - Dawn Uchimaya, Director, Bureau of Environmental Services
  - Michael Buonocore, Director, Housing Bureau
  - Millicent Williams, Director, Bureau of Transportation
  - Maty Sauter, Manager, Division of Asset Management, Office of Management & Finance
  - Adena Long, Director, Parks & Recreation
  - Donnie Oliveira, Bureau of Planning & Sustainability

# Agenda (con't)

- 7:15 BREAK (10 min)
- 7:25 Proposal overviews (con't)
- 8:10 Committee discussion
- 8:30 Meeting close

# Introductions

PCEF Committee members

# Public comment

Please indicate your interest in providing public comment by raising your hand or indicate your interest through the zoom chat function.

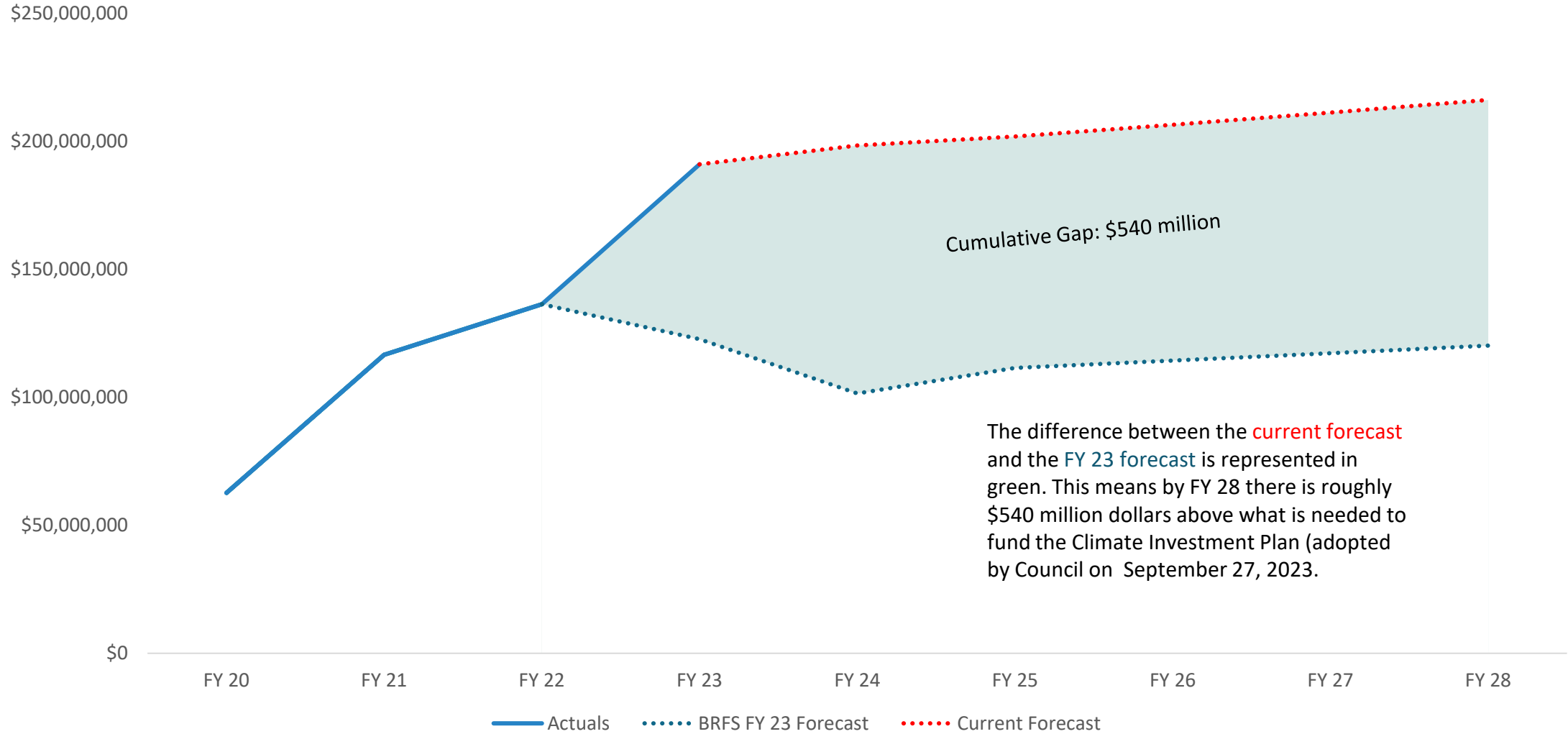
For those joining the meeting by phone, please enter \*9 on your phone to indicate your interest in providing public comment.

# Background and context

- Fund forecast (Peter Hulseman, City Economist)
- Committee role
- Climate investment need

# CREDIT: Portland City Budget Office

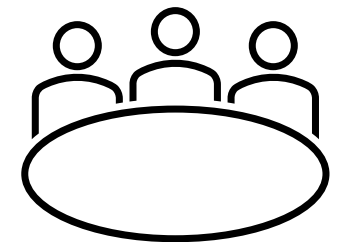
## Clean Energy Surcharge Revenue and Interest





# PCEF Committee role

- Recommending, updating, and amending 5-year climate investment plans to Portland City Council,
- Evaluating the effectiveness of the program in achieving its goals, and
- Optionally participating in subcommittees, grant application review panels, etc.



# Climate investment need

\$50 billion

- The **minimum** amount a PCEF Market Study estimated it would take to address residential buildings, small commercial buildings, tree canopy, and EV charging in Portland.

\$18 billion

- Of the \$50 billion minimum, \$18 billion is the amount it would take to provide climate resilience benefits to PCEF priority populations.
- With PCEF funding committed in the September 2023 Climate Investment Plan, it would take over 120 years to reach this goal.

\$750 million

- What the City previously committed to invest over the next five years through the Climate Investment Plan adopted by City Council in September 2023.
- That is equal to \$150 million per year.

# Process for 1<sup>st</sup> set of proposed allocations

Donnie Oliveira, BPS Director

# Funding bureau projects – process

1. Leveraged Climate Emergency Workplan, bureau strategic plans and capital investment plans
2. Bureaus submitted projects
3. Short-list
4. CBO alignment
5. PCEF Committee

# Bureau projects - methodology

**1. Meaningful GHG reducing or sequestering (must have calculable GHG emissions impacts)**

**2. Demonstrable community benefits**

**3. General fund offsetting**

**4. “Shovel ready” i.e., in existing Capital Plan, no new projects**

**5. “Implementation Ready” i.e., existing program capacity/scope, no new programs**

# Proposed city bureau allocations

## For each bureau:

- 5 to 7 min overview presentation of proposed bureau projects
- 5 to 7 min of question and answers from PCEF Committee members
- PCEF Committee member discussion at the end on all projects

Gabe Solmer, Director, Water Bureau and Bureau of Hydroelectric Power (and Sarah Santer)

Dawn Uchimaya, Director, Bureau of Environmental Services

Michael Buonocore, Director, Housing Bureau

Millicent Williams, Director, Bureau of Transportation

Maty Sauter, Manager, Division of Asset Management, Office of Management & Finance

Adena Long, Director, Parks & Recreation

Donnie Oliveira, Director, Bureau of Planning & Sustainability

# Portland Water Bureau

Gabe Solmer, Director, Water Bureau

Sarah Santner, Director of Resource Protection & Planning, Water Bureau

# PORTLAND WATER BUREAU

**At the Portland Water Bureau, it's our mission to serve excellent water every minute of every day.**



The Portland Water Bureau has supplied water to the Portland area for more than 120 years and is the largest water supplier in Oregon. Almost one-quarter of the state's population—about one million people within a 225-square-mile service area—receive water from the bureau through wholesale or retail water sales. Portland uses two sources of water: the Bull Run Watershed, a surface water supply; and the Columbia South Shore Well Field, a backup groundwater supply.

The Portland Water Bureau view climate action as critical to its core mission and has been a climate leader for more than 2 decades, including planning for climate impacts to water supply, publicizing our carbon footprint, and building resilience and decarbonization into our projects.

**Annual budget: \$431,879,316 (FY 23-24)**



# PORTLAND WATER BUREAU proposed allocation summary

Expanding community-lead water leak repairs, advancing meaningful climate action projects for the community's essential water utility.

Project	Funding request	Total 5-Yr Allocation
Low-income Home Water Leak Repair Program Expansion	Ongoing	\$2.5 million (\$500,00 annually)
Energy Efficiency – <ul style="list-style-type: none"><li>• Energy Savings Performance Contract</li><li>• EE at PWB's Operations facility (heat pump, controls)</li></ul>	One-time	\$1 million
Renewable Energy <ul style="list-style-type: none"><li>• Micro hydro at Washington Park</li><li>• Solar assessment and expansion</li></ul>	One-time	\$2.825 million

# PORTLAND WATER BUREAU proposed allocation

## Climate benefits

**Home Water Leak Repair** – GHG reductions accrue from minimized potable water treatment, pumping, and wastewater treatment. Additional GHG reduction accrues from leak repairs associated with reduced energy consumption in water heating applications that are no longer leaking. Unaddressed service line leaks result in roughly 60kg/ yr of avoidable CO<sub>2</sub>e emissions per household. Running toilets result in roughly 157 kg of CO<sub>2</sub>e/yr in avoidable emissions per household

**Energy Efficiency** - We estimate energy savings of 10-30% based on participation in Energy Savings Performance Contract (ESPC) Our Interstate Operations building gas boiler currently accounts for 1.4% of PWB emissions, or roughly 100 metric tons of CO<sub>2</sub> per year.

**Renewable Energy** - Renewable energy development advances PWB and the city's path to Net Zero. It is critical to eliminating electricity emissions, currently responsible for 87% of PWB's scope 1& 2 emissions, or 6066 metric tons of CO<sub>2</sub>e in 2022. Producing electricity close to where it is used decreases the need for transmission capacity.

# PORTLAND WATER BUREAU proposed allocations:

## Community benefits and workforce/contractor opportunities

- **Home Water Leak Repair** - Direct household benefit for low-income households. Existing program uses a prioritization matrix to ensure priority populations are prioritized for services. Bureau has engaged community non-profits – African American Alliance for Homeownership & Community Energy Project - who worked with home repair needs. These groups have consistently advocated for additional resources citing long wait times and limited ability to focus on water-related repairs. Bureau has also engaged residents through community events and through the conservation hotline validating the desire for such expanded programming by community members, including immigrant communities. *Program expansion will yield additional partnership opportunities.*
- **Energy Efficiency Improvements** - decreases the need for new energy development, lowers emissions, and saves on utility electricity bills. Natural gas is also one of the key culprits for fugitive emissions. Further, costs savings to the rate-funded bureau results in more efficient rate management for the community. *Opportunity to bid on ESPC and installation of Heat Pump upcoming.*
- **Renewable Energy** - Building clean energy infrastructure that is situated within City limits helps the City to both reduce the need for additional transmission construction and internalizes the ongoing cost of energy production and transmission so that our clean energy does not come at the expense of other communities. Local generation capacity increases community resilience and ability to get back online after outages. Further this helps electric utilities meet state clean energy goals, and lower energy costs which helps stabilize utility rates borne by community. *Opportunity to bid on solar expansion, microhydro contractors has been selected.*

# Questions

# Bureau of Hydroelectric Power

# Bureau of Hydroelectric Power (Hydro)

- The city of Portland has two hydroelectric powerhouses on its water supply dams in the Bull Run Watershed.
- Hydro was developed after water supply dams were built and began production in 1982.
- Hydro is operated by separate enterprise from Water Bureau; \$13 million net return to general fund.
- Hydro is a 36-megawatt facility with 2 powerhouses generating an average monthly output enough to power 8,000 to 10,000 homes.
- Important non-emitting regional power source

**Annual budget: \$3,484,383 (FY 23-24)**



# Bureau of Hydroelectric Power proposed allocation summary

Investment in energy efficiency and operational license renewal for the City's Hydroelectric power generation facilities, preventing the release of over 24,000 metric tons of CO<sub>2</sub>e per year.

Project	Funding request	Total 5-Yr Allocation
Upgrades to critical electrical components	limited duration	\$3.5 million
Costs for Federal Energy Regulatory Commission (FERC) Relicensing process	limited duration	\$6 million
Reserve fund	One-time	\$2 million

# Bureau of Hydroelectric Power proposed allocation

## Climate benefits

- PHP generates an average of 83,000 MWh of clean electricity per year, sufficient to power 8,000 - 10,000 homes,
- Hydroelectric plants are an emissions-free generation resource that does not produce air pollution or greenhouse gas emissions - preventing the release of over 24,000 metric tons of CO<sub>2</sub>e per year.
- PGE relies on city production as part of its renewable portfolio. Loss of this source would likely slow or temporarily reverse PGE's progress toward 2030/2040 100% renewable portfolio goals and would necessitate both more production and more transmission capacity to be built elsewhere, with associated costs to both people and environment.





# **Bureau of Hydroelectric Power proposed allocations:**

## **Community benefits and workforce/contractor opportunities**

- Direct household flow to all households in region in supporting progress on decarbonization of electricity sources for PGE service area. Unlike wind and solar, hydroelectric power can be scaled up or down in response to demand on the grid, making it an extremely valuable and necessary resource for broader grid decarbonization efforts.
- Because the primary function of the Bull Run dams is storing drinking water, hydroelectric power from PHP is a bonus that maximizes benefits from existing infrastructure and decreases the need for generation and transmission capacity to be built elsewhere at higher cost to both people and environment.
- Proceeds from the sales of the project's power generation output pay for all of the City's project costs with profits after operating costs and capital programs going to the City's General Fund.
- Limited opportunity to address equity in program/ project design and implementation of electrical upgrades. FERC relicensing will have a broad community engagement effort.
- All projects occur in the Bull Run watershed

# Questions

# Bureau of Environmental Services

Dawn Uchimaya, Director, Bureau of Environmental Services

# Bureau of Environmental Services

## Sewer, Stormwater & Watershed Services

*Environmental Services is responsible for planning, operating, maintaining, and improving all aspects of the city's wastewater and stormwater systems. We restore streams and watersheds to protect water quality, public health, and the environment.*

Annual Budget: \$727,000,000

# BES proposed allocation summary

The collection of BES projects and programs grow the city's climate adaptation and carbon sequestration primarily using nature-based solutions and blue-green infrastructure that supports watershed, community, and cultural resilience.

Project	Funding request	Total 5-Yr Allocation
Watershed, Natural Systems, Restoration and Biological Sciences	Ongoing	\$17,500,000
Stormwater management, Blue-Green infrastructure, and Revegetation	Ongoing	\$53,000,000
Private Property Trees	Ongoing	\$7,000,000

# BES proposed allocation

## Climate benefits

- Vegetation, trees, wetlands, and saturated organic soils are the foundation of the blue-green infrastructure and watershed restoration designed, constructed, enhanced, and protected by BES. These resources also provide the highest carbon sequestration potential. BES conservatively estimates PCEF funding will result in over 400 metric tons of CO<sup>2</sup> sequestered/year in addition to 11mil lbs CO<sup>2</sup> from trees.
- These projects also reduce damage from flooding, restore cultural resources such as salmon and camas, and reduce stream temperatures and urban heat island.



## **BES proposed allocations:**

### **Community benefits and workforce/contractor opportunities**

- BES' projects reduce localized flood impacts, remove homes and businesses from flood insurance requirements, and contribute to a citywide 25% discount on flood insurance.
- BES projects occur citywide, but the bureau is expanding its work benefiting environmental justice communities in the Errol Heights, Lents, East Portland, and Columbia Slough areas. BES is also centering Indigenous and Traditional Ecological Knowledge in our design and management. We restore First Foods such as native salmon, lamprey, and riparian and wetland plants.
- BES contracts with several minority-owned businesses for natural area habitat restoration services, including Wisdom Workforce who provides internship opportunities for Native American adults. BES also partners with PSU's Louis Stokes Alliance for Minority Participation (LSAMP) Program's Internship program, which supports students from racially underrepresented groups pursuing and earning a bachelor's degree in Science, Technology, Engineering, and Mathematics. Interns work part-time with BES on climate and disaster resilience projects.

# Questions



# Portland Housing Bureau

Michael Buonocore, Director

# Portland Housing Bureau (PHB) introduction

## What Do We Do:

- Production & Preservation of Affordable Housing
- Home Ownership Retention & Creation
- Preventing Displacement
- Ending Homelessness in Partnership with JOHS

## Key Figures:

- Regulate over 16,500 affordable housing units (~12% of Portland rentals), housing approx. 25,000 people, average income under 30% AMI and ~40% BIPOC
- Approx. 3,000 units in construction and predevelopment
- Annual Budget FY23/24 \$299.89 million, mostly Metro & Portland Bonds and TIF
- Total FTE 82



# PHB – PCEF Partnership #1

**Prioritize low-income and other frontline communities**

**Raise the bar on efficiency and renewable energy upgrades in new and redeveloped affordable multi-family housing**

**Up to \$60 million of PCEF Funds over 5 years, signed July 2023**

**Grant program from PHB to nonprofit shareholder**

**With PHB and/or OHCS direct financing**

**PCEF**



# PHB – PCEF Partnership #1 – Summary Accomplishments

**PCEF proposed funding in 23 projects, supporting over 2300 affordable units of housing over 4000 people**

- 2 projects open incorporating clean energy components for 272 households
- 7 projects in construction all tracking Earth Advantage Gold or Platinum, and
- Balance of projects in predevelopment

**Over \$41 million in total committed or reserved PCEF funds in less than 1 year for:**

- high efficiency electric water heating & electric heating/air conditioning
- high efficiency ventilation systems & high value insulation
- high efficiency appliances
- solar generation and storage
- EV charging and tree planting above code

# PHB – PCEF Partnership #2 – in Development

Incorporate clean energy components into PHB selected and funded rehabs for existing regulated low-income housing

Up to \$10 million of PCEF Funds / year

Increased efficiency in construction

Leverage off existing PHB-PCEF collaboration

High need demonstrated in 2023  
Preservation RFI for which all 7 applicants  
incorporated clean energy components



# PHB – PCEF Partnership #1 & #2 – Community Benefits

## Equity in Contracting:

- PHB target of 30% DMWESB-SDV for Hard Costs and 20% for Soft Costs
- Additional Workforce target of 20% apprentice participation for contracts above \$300K per trade
- Most PHB funded projects exceed targets
- See [DMWESB PHB Visualizations | Tableau Public](#)

## Improved Homes for Low Income Households:

- High efficiency water heater, air conditioning, appliances

## Improved Building with Reduced Cost of Utilities for Owners / CDCs:

- Increase operational efficiency of building

# Questions

# Portland Bureau of Transportation

Millicent Williams, Director



# Portland Bureau of Transportation

The Portland Bureau of Transportation (PBOT) is a community partner in shaping a livable city. We plan, build, manage and maintain an effective and safe transportation system that provides people and businesses access and mobility. We keep Portland moving.



**SAFETY**



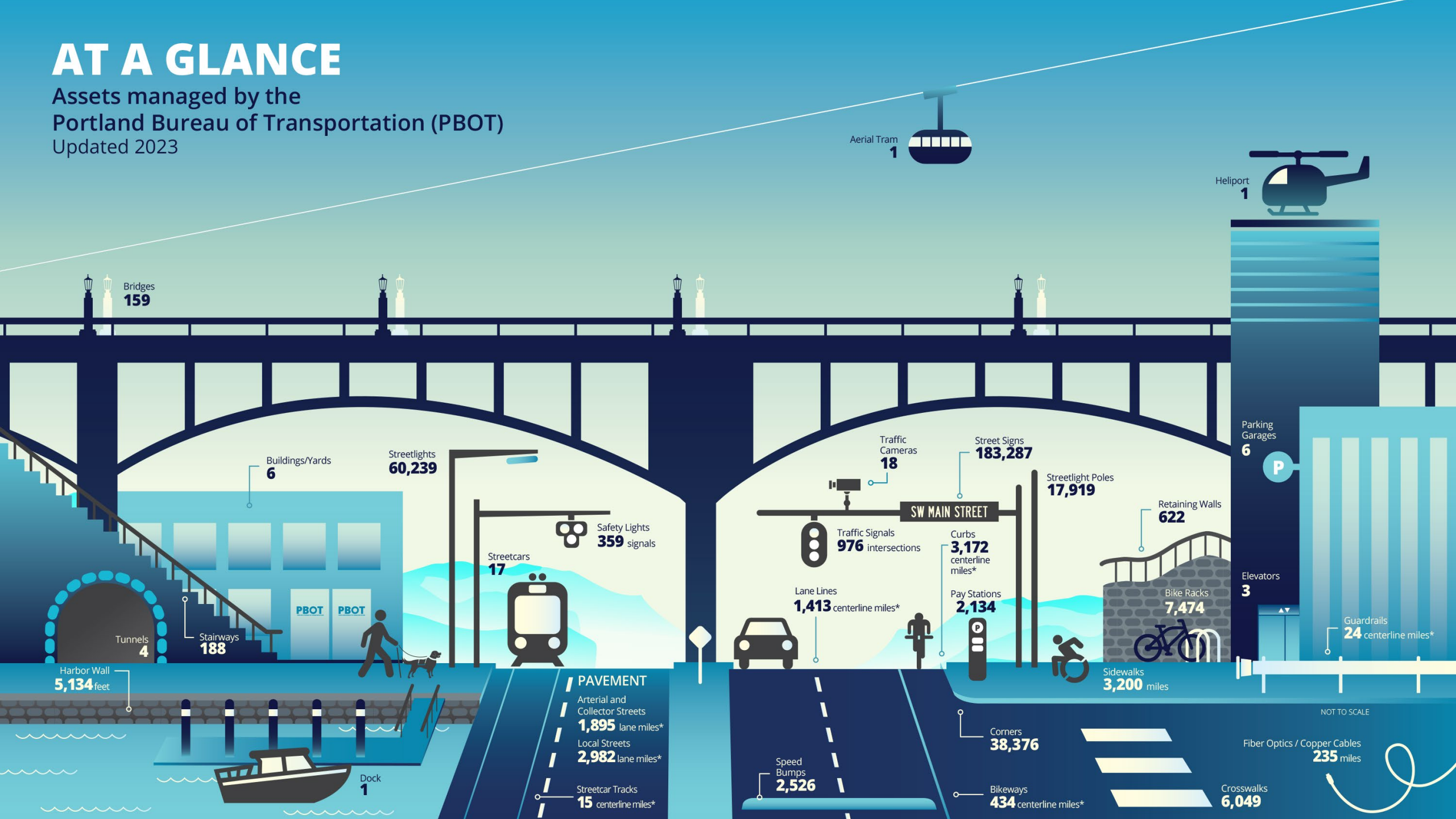
**MOVING PEOPLE  
AND GOODS**



**ASSET  
MANAGEMENT**

# AT A GLANCE

Assets managed by the  
Portland Bureau of Transportation (PBOT)  
Updated 2023



Bridges  
**159**

Aerial Tram  
**1**

Heliport  
**1**

Buildings/Yards  
**6**

Streetlights  
**60,239**

Streetcars  
**17**

Safety Lights  
**359** signals

Traffic Cameras  
**18**

Street Signs  
**183,287**

Streetlight Poles  
**17,919**

Retaining Walls  
**622**

Bike Racks  
**7,474**

Parking Garages  
**6**

Elevators  
**3**

Guardrails  
**24** centerline miles\*

Harbor Wall  
**5,134** feet

Tunnels  
**4**

Stairways  
**188**

Dock  
**1**

## PAVEMENT

Arterial and Collector Streets  
**1,895** lane miles\*  
Local Streets  
**2,982** lane miles\*  
Streetcar Tracks  
**15** centerline miles\*

Traffic Signals  
**976** intersections

Lane Lines  
**1,413** centerline miles\*

Curbs  
**3,172** centerline miles\*

Pay Stations  
**2,134**

Sidewalks  
**3,200** miles

Corners  
**38,376**

Bikeways  
**434** centerline miles\*

Speed Bumps  
**2,526**

Fiber Optics / Copper Cables  
**235** miles

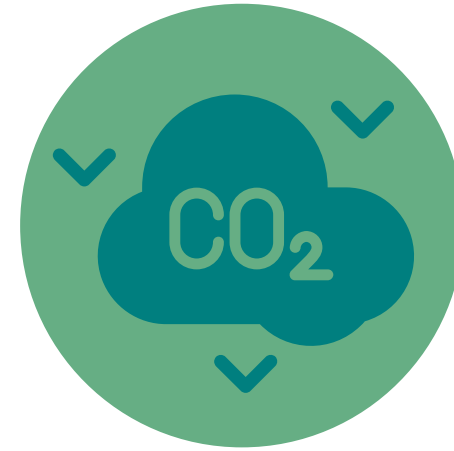
Crosswalks  
**6,049**

NOT TO SCALE

Questions  
we are  
always  
asking

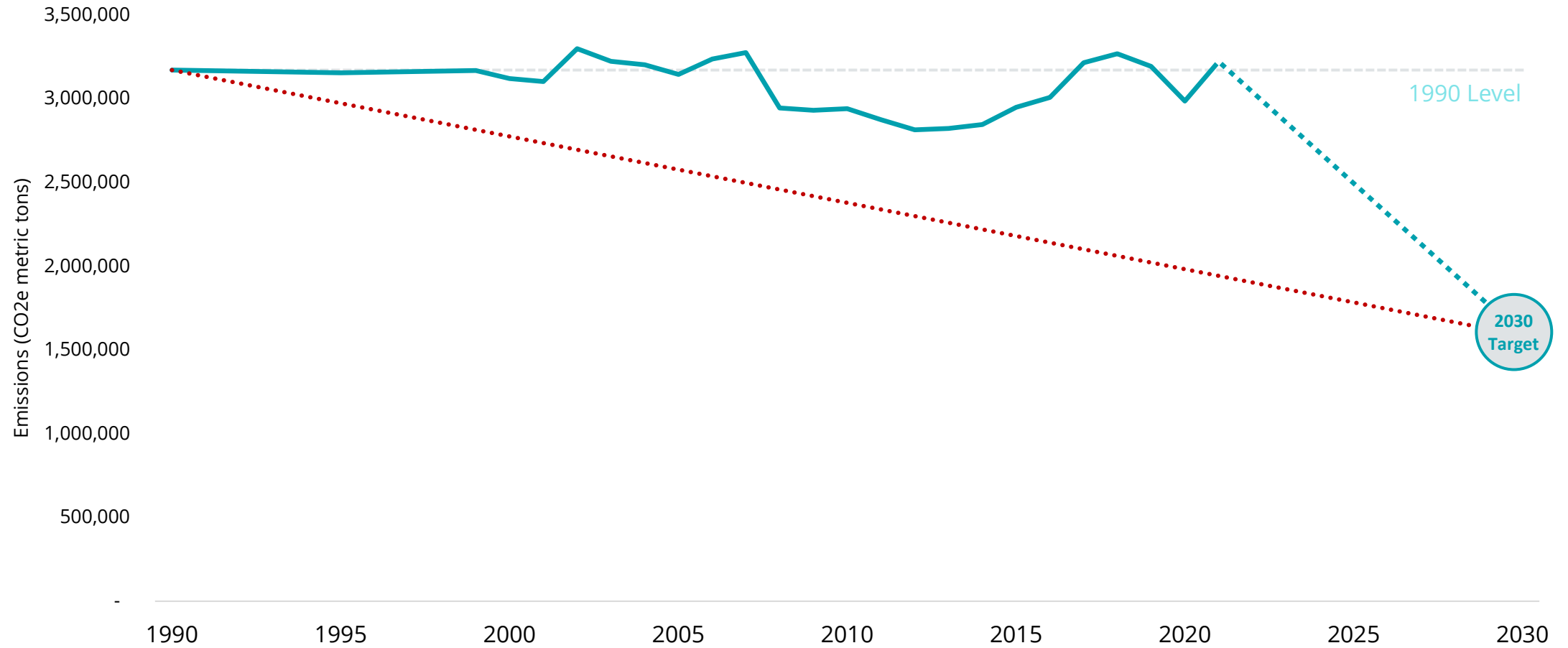


**Will it advance  
equity and  
address  
structural racism?**



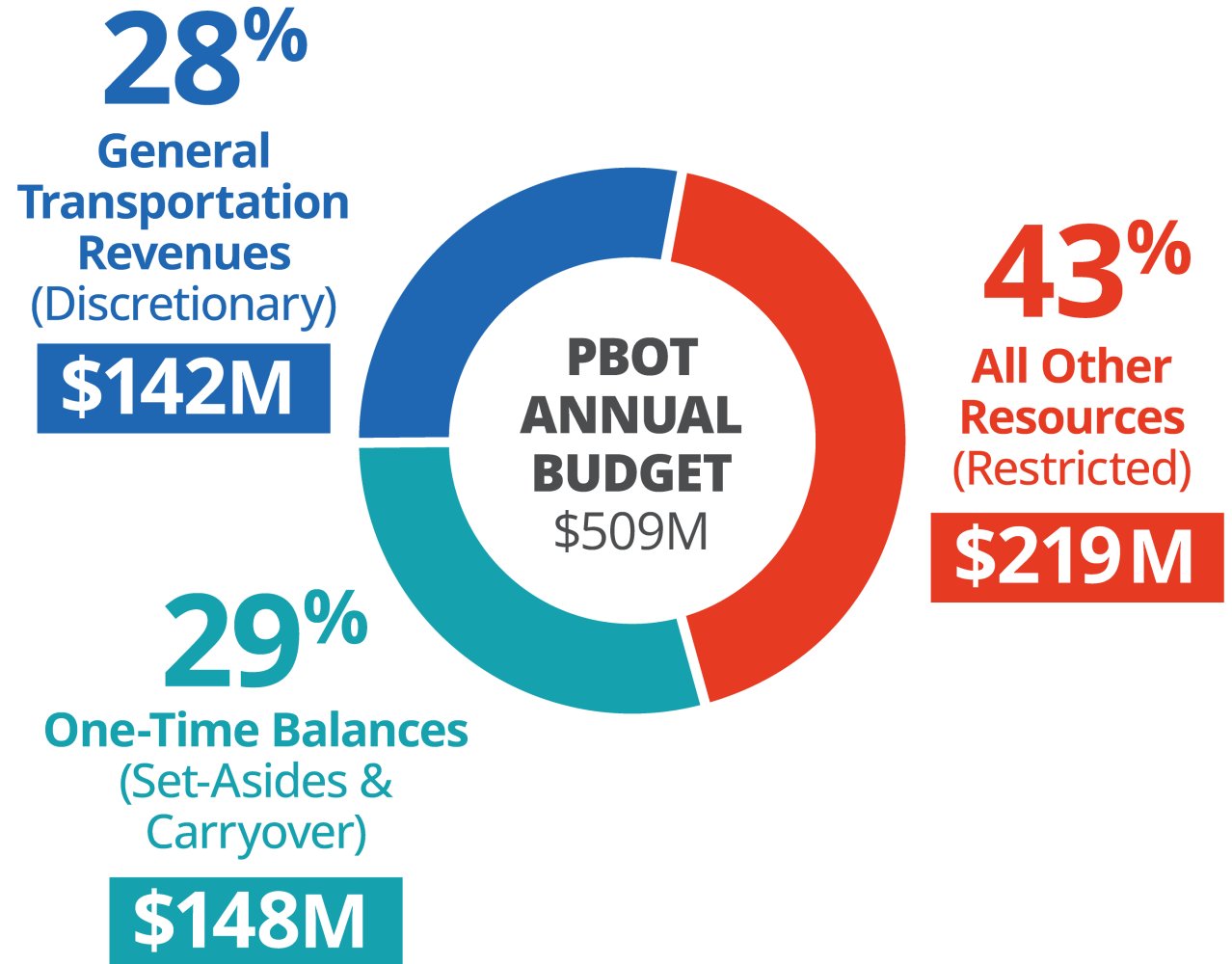
**Will it reduce  
carbon emissions?**

# Transportation Emissions Trends (1990-2021) Multnomah County



# PBOT budget

- Annual budget: \$509 million
- Discretionary budget: \$142 million
- Without new resources, PBOT will have to reduce staff and services to balance our FY 2024-25 budget

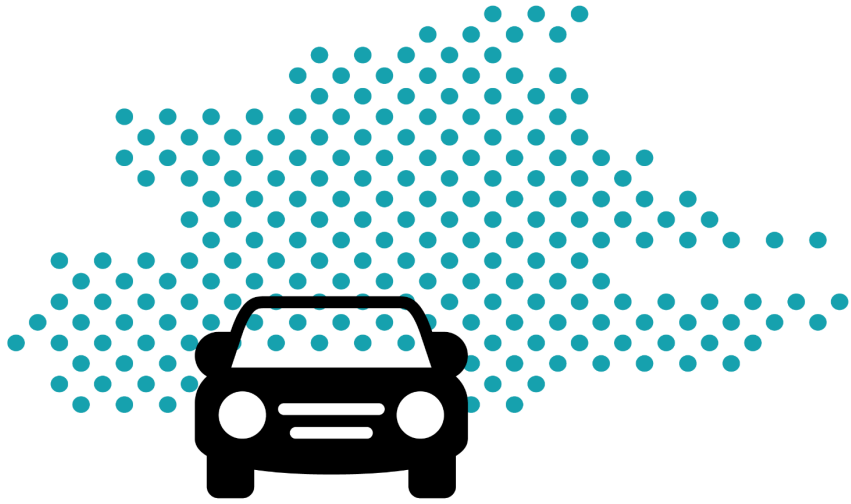


# PBOT proposed allocation summary

Project	Request	Total 5-Year Allocation
<b>Streetcar Replacement</b> Replace streetcars to allow for system expansion and avoid service cuts	One time	<b>\$30 million</b>
<b>Active Transportation Operations</b> Maintain 400 miles of bike lanes	Annual	<b>\$10 million</b> (\$2 million per year)
<b>Small Active Transportation Capital Investment Program</b> Funding for small investments in biking and walking	Annual	<b>\$20 million</b> (\$4 million per year)
<b>Community Programming, Education, and Encouragement</b> Replace funding for active transportation programs	Annual	<b>\$15 million</b> (\$3 million per year)
<b>LED Streetlights</b> LED streetlight conversion, replacement, and green-energy cost	Annual	<b>\$37 million</b> (approx. \$7.4 million per year)

# PBOT proposed allocation

## Climate benefits



Roughly **40%** of our  
carbon emissions  
come from tailpipes

### PCEF investments help Portlanders **shift to different modes of travel:**

- Safe, convenient, and well-maintained biking and walking routes
- Activation and encouragement help Portlanders make climate-friendly choices
- Streetcar trips reduce driving, saving 5 million pounds of CO<sub>2</sub> annually

### PCEF investments help us reduce carbon in our **operations**

- LED streetlights eliminate 10,500 tons of carbon pollution, last longer, and use 100% renewable energy

# PBOT: Community benefits and workforce/contractor opportunities

- PCEF investment will provide stable funding for programs that employ union workers.
- PBOT has a goal of 30% of contractor dollars flowing to disadvantaged, minority-owned, women-owned, emerging small businesses, or service-disabled veterans' business enterprises.
- Streetcar serves riders who are more diverse and transit-dependent compared to other transit riders in the region
- Capital investments and programs are intentionally selected and designed to serve frontline communities





# Questions

# Office of Management and Finance – CityFleet

Maty Sauter, Manager, Division of Asset Management, Office of Management & Finance

# Division of Asset Management – CityFleet Overview

- 82 FTE; \$33 million annual operating budget; \$66 million in capital equipment
- Manage the entire lifecycle & ecosystem of fleet services for all City bureaus
- Keystone operation for essential city services (e.g., inclement weather response)
- Largest municipal fleet in Oregon (approximately 4,000 units; 2,600 are on-road)
- On-road equipment inventory is 50% light duty and 50% medium-heavy duty
- Direct contributor to regional emissions due to the nature of our work: **11,600 MT/year**



## What makes the path to net zero challenging?

- Always balancing need for vehicle reliability and functionality with emissions reductions
- Exceedingly diverse array of equipment
- No market options yet for certain vehicles
- Cost premiums, infrastructure, training, etc.

# Division of Asset Management – CityFleet Proposal

Project	Funding request	Total 5-Yr Allocation
Electric Vehicle Conversion: Vehicle/Equipment Premiums, Infrastructure, Required Support	Tranche 1: Predominately One Time First 5 Years of Select EV Components of CityFleet’s Path to Net Zero	\$25,000,000 (mostly capital, front-loaded for infrastructure build-out)



## Potential Future Tranches:

- Additional EV conversions, RNG conversions for heavy-duty vehicles & maintenance facility upgrade

# CityFleet Proposal

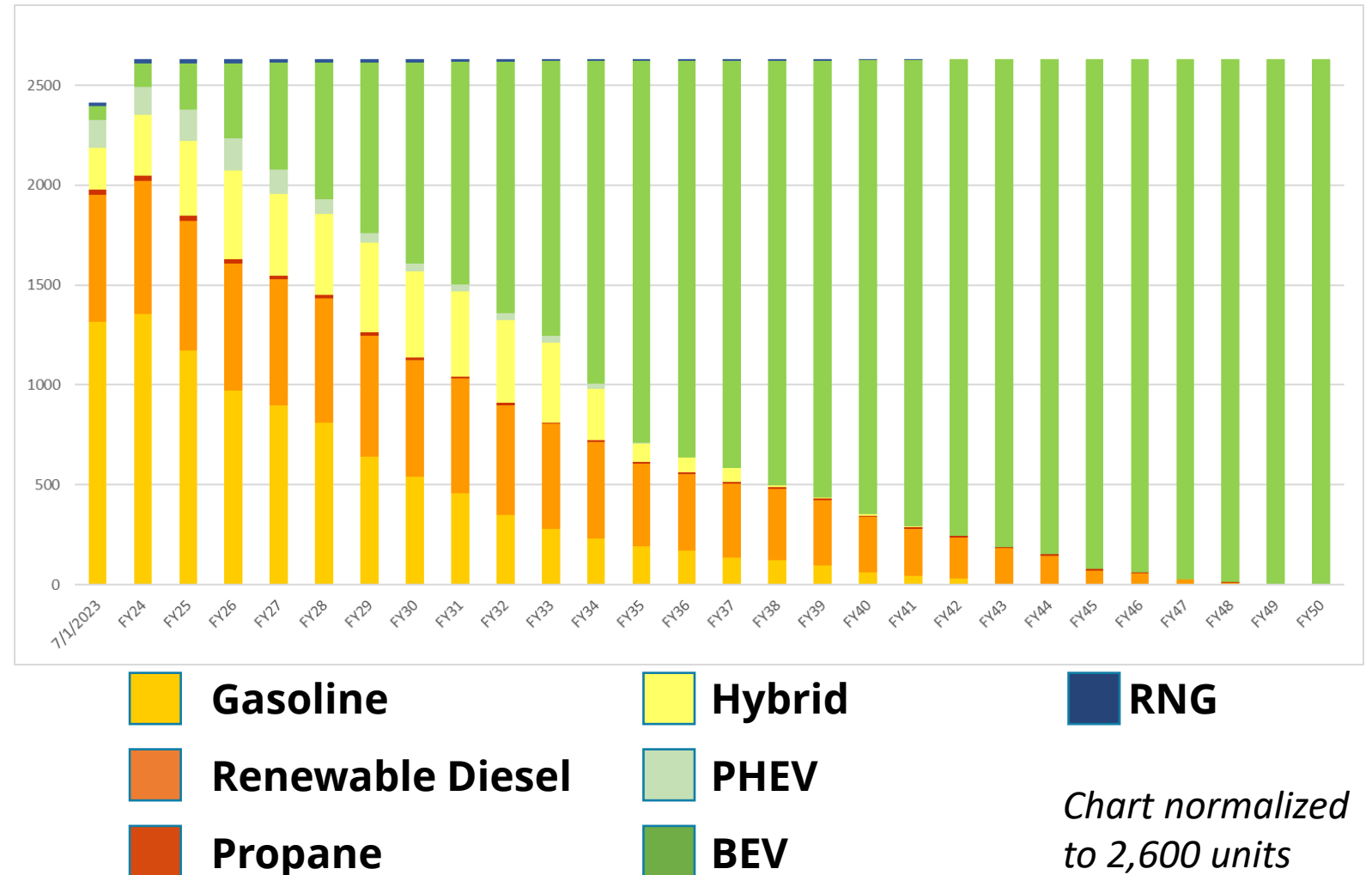
## Climate benefits

- As eligible ICE vehicles reach end of life, they will be replaced with battery EVs and supported with the required infrastructure
- The estimated reduction in carbon emissions is 2,500 MT annually
- *This proposed PCEF investment will allow us to greatly escalate our conversion of light duty assets to BEV alternatives*

**PCEF**

## City of Portland 2050 Net Zero Conversion Profile (BEV Focus Pathway; Includes PCEF Investment)

On-Road and Off-Road Vehicles & Equipment  
Excluding Fire Apparatus & Rentals



# CityFleet Proposal

## Community benefits

### Contracting



- Fleet's primary dealership
- Local minority/woman-owned business



- Fleet's exclusive partner in the provision of charging infrastructure
- Local BIPOC/Veteran-owned business

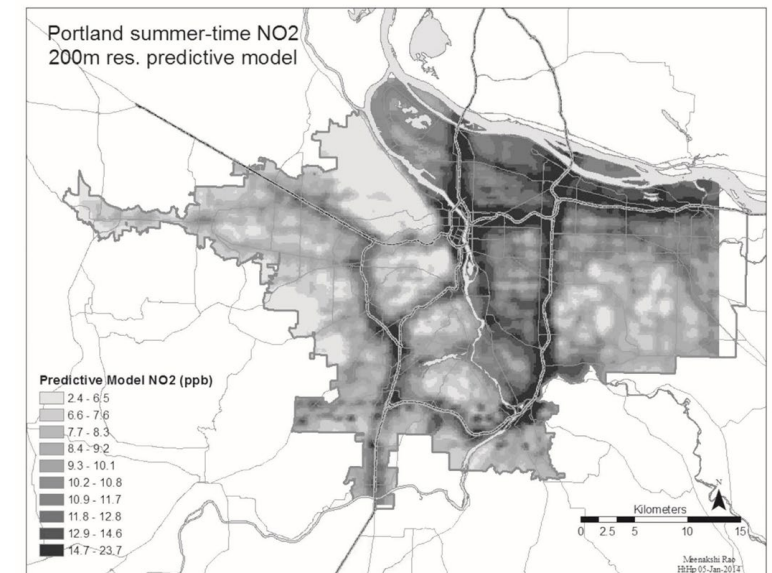
**PCEF**

### Staffing

- CityFleet is 27% non-white in our primary trades classification (Vehicle and Equipment Mechanic)
- 30% of the organization will retire in the next 10-15 years
- The green fleet transition will require significant workforce development; we are interested in creating trades-based BIPOC partnerships to recruit for this field of the future

### Geographic Focus

- Citywide improvement in air quality and health benefits
- Will affect many neighborhoods where NO<sub>2</sub> is highest



*M. Rao et al. Environmental Pollution 194 (2014) 96-104)*

# Portland'5 proposed allocation summary

Mission: to offer culturally relevant education programming as part of Portland'5 Centers for the Arts' commitment to celebrate diversity and broaden access to the performing arts for people of all means, cultures, and ethnicities.

Project	Funding request	Total 5-Yr Allocation
<b>Arlene Schnitzer Concert Hall: Roof Replacement and Cooling Tower Replacement Project</b>	One-Time	\$1,000,000

## Schnitzer Roof and Cooling Tower – Total Cost up to \$9 million

- *Schnitzer roof replacement will greatly improve insulation from next to none, to a uniform R-30 on the entire project. This will significantly improve energy used in heating and cooling the hall.*
- Metro evaluated Schnitzer roof status in summer 2023, reached end of its useful life (much of the roof assemblies are from the 1983 renovation while others have been replaced in the last ~10 years)
- Work anticipated to be completed by Fall 2024
- *Schnitzer new cooling tower will consume half the energy the old tower used, mostly due to much more efficient fans and more advanced technology.*
- Metro's cooling tower failed in spring/summer 2023, the portable temporary solution has cost ~\$1.5 million

# Questions



# Portland Parks & Recreation

Adena Long, Director

**PCEF**

# Portland Parks & Recreation

The mission of Portland Parks & Recreation is to provide equitable access to welcoming places, programs, and services that improve community health and our environment.

Annual budget: \$227.4 million



# Portland Parks & Recreation proposed allocation summary

These initiatives advance climate resilience, equitable urban forestry care, workforce diversity, and sustainable practices, collectively enriching community infrastructure and advancing a healthier, more inclusive Portland.

Initiative	Funding type	Total 5-Yr Allocation
Mt. Scott Community Center Renovation for Resiliency	One-time	\$6.2 Million
Tree Protection and Care	Ongoing	\$100 Million
Arborist Trainee Program	Limited-duration, 3 yrs.	\$840 Thousand
Transition from Gas Powered Backpack Leaf Blowers to Battery Powered	One-time	\$1.6 Million

# Portland Parks & Recreation proposed allocation

## Climate benefits: Mt. Scott Community Center Renovation

- **Energy and Emissions Reduction:** The new photovoltaic system, upgraded insulation, hydronic floor heating, efficient lighting, and low carbon concrete will contribute significantly to energy and carbon emissions reduction.
- **Severe Weather Response Upgrades:** Incorporating a new HVAC system and skylights with extensive windows ensures access to natural light during power outages, and increased insulation improves thermal comfort.
- **Enhanced Resiliency Measures:** Additional measures being explored include an on-site generator, PV battery storage, and structural enhancements for immediate post-earthquake occupancy, upgrading HVAC systems to electric, replacing a gas-fired pool boiler with an electric one, and installing a backup potable water system to optimize the center's self-sufficiency during power outages.

# Portland Parks & Recreation proposed allocation

Community benefits and workforce/contractor opportunities: Mt. Scott Community Center Renovation

- **Community Asset Rehabilitation:** The renovation project is set to rehabilitate and expand the Mt. Scott Community Center, which consists of an ad-hoc collection of buildings dating from the 1920s through the 1990s.
- **Enhanced Community Resilience:** The center's renovation will enhance its climate resilience, making it a reliable community space for both normal operations and severe weather conditions.
- **Sustainable Infrastructure Investment:** The additional PCEF funding will enable significant investments to make the Mt. Scott Community Center a truly climate-resilient facility.
- **Workforce and Contractor Engagement:** The renovation offers opportunities for contractors in sustainable construction and renovation, and employment in facility management and maintenance post-renovation.

# Portland Parks & Recreation proposed allocation

## Climate benefits: Tree Protection and Care

- **Urban Canopy Support:** The proposed \$100 million funding over five years will support the care and preservation of Portland's urban canopy.
- **Enhanced Tree Health and Preservation:** Additional programmatic investments will prioritize proper care of trees to improve their long-term health and preservation.
- **Contribution to Climate Mitigation:** By maintaining and expanding the urban canopy, the initiative contributes to the city's overall efforts in climate change mitigation.
- **Improved Air Quality:** The care and expansion of the urban forest play a key role in enhancing air quality across Portland.

# Portland Parks & Recreation proposed allocation

## Community benefits and workforce/contractor opportunities: Tree Protection and Care

- **Policy Shift for Street Trees:** Changing the current policy so the City provides care and maintenance of street trees, moving away from the responsibility of the adjacent property owner.
- **Equitable Urban Forest Expansion:** Addressing the known burden on property owners, especially those with low income, and barriers in low canopy neighborhoods to ensure equitable tree care and planting.
- **Reduction in Owner Burden:** The shift in maintenance responsibility reduces the financial and physical burden on individual property owners.
- **Potential Job Creation:** The expanded scope of urban forestry care under city management may lead to increased job opportunities in tree maintenance and care sectors.

# Portland Parks & Recreation proposed allocation

## Climate benefits: Arborist Trainee Program

- **Diversity in Arboriculture Profession:** Addressing the long-standing lack of gender and racial diversity in the arborist classification and the broader arboriculture profession.
- **Enhanced Urban Forestry Skills:** Developing advanced skills necessary for a career in tree care, contributing to better urban forest management.
- **Improved Tree Care and Maintenance:** Trained arborists will bring higher standards of care and maintenance to Portland's urban forests.
- **Long-Term Urban Forest Health:** A more skilled workforce leads to healthier trees and a more resilient urban canopy.



# Portland Parks & Recreation proposed allocation

Community benefits and workforce/contractor opportunities: Arborist Trainee Program

- **New Career Pathways:** Opening doors to new career paths within Portland Parks & Recreation and beyond.
- **Career Development Opportunities:** Creating substantial opportunities for career development in urban forestry.
- **Bridging Workforce Gaps:** Bridging the gap between introductory workforce programs and advanced arboriculture skills.
- **Program Funding Need:** \$840,000 annually for three years to support the program's development and implementation.

# Portland Parks & Recreation proposed allocation

## Climate benefits: Transition Gas to Electric Leaf Blowers

- **Replacement of Gas-Powered Equipment:** Replacing 122 gas-powered backpack blowers with battery-powered alternatives.
- **Reduction in Greenhouse Gas Emissions:** Transitioning will reduce greenhouse gas emissions associated with gas-powered equipment.
- **Reduction in Noise Pollution:** Pursuing a significant reduction in noise pollution from leaf blowers.
- **Alignment with City Policies:** The transition is in line with a proposed City Council Ordinance for phasing out gas-powered leaf blowers.

# Portland Parks & Recreation proposed allocation

Community benefits and workforce/contractor opportunities: Transition Gas to Electric Leaf Blowers

- **Sustainability Commitment:** This proactive transition is part of PP&R's commitment to sustainability.
- **Balanced Operational Needs:** Represents a balance between operational needs and environmentally friendly practices.
- **Infrastructure Upgrades and Training:** Includes infrastructure upgrades and workforce training as part of the replacement process.
- **Timely Transition:** The funding will enable a faster transition to eco-friendly leaf blowers.

# Questions

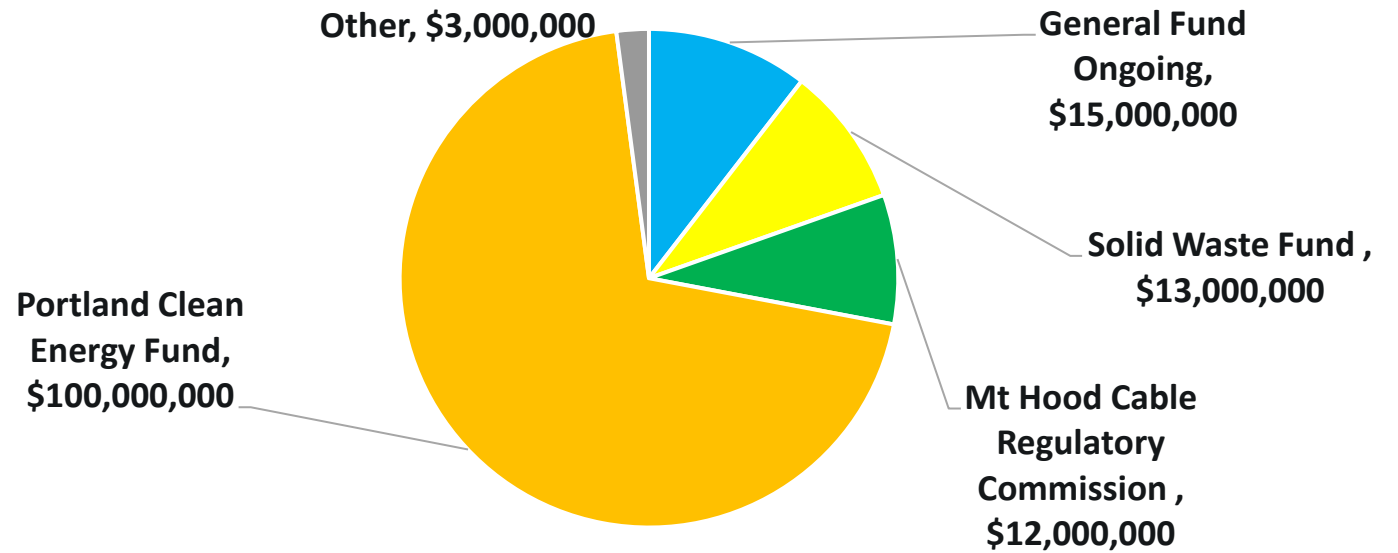
# Bureau of Planning and Sustainability

Donnie Oliveira, Director



# BUREAU OF PLANNING AND SUSTAINABILITY

BPS develops solutions to make Portland more equitable, healthy, prosperous and resilient. Through long-range planning, climate action, waste management, Smart City PDX and community technology, and the Portland Clean Energy Community Benefits Fund, we build a better future for all.



THE BUREAU OF  
**PLANNING &  
SUSTAINABILITY**

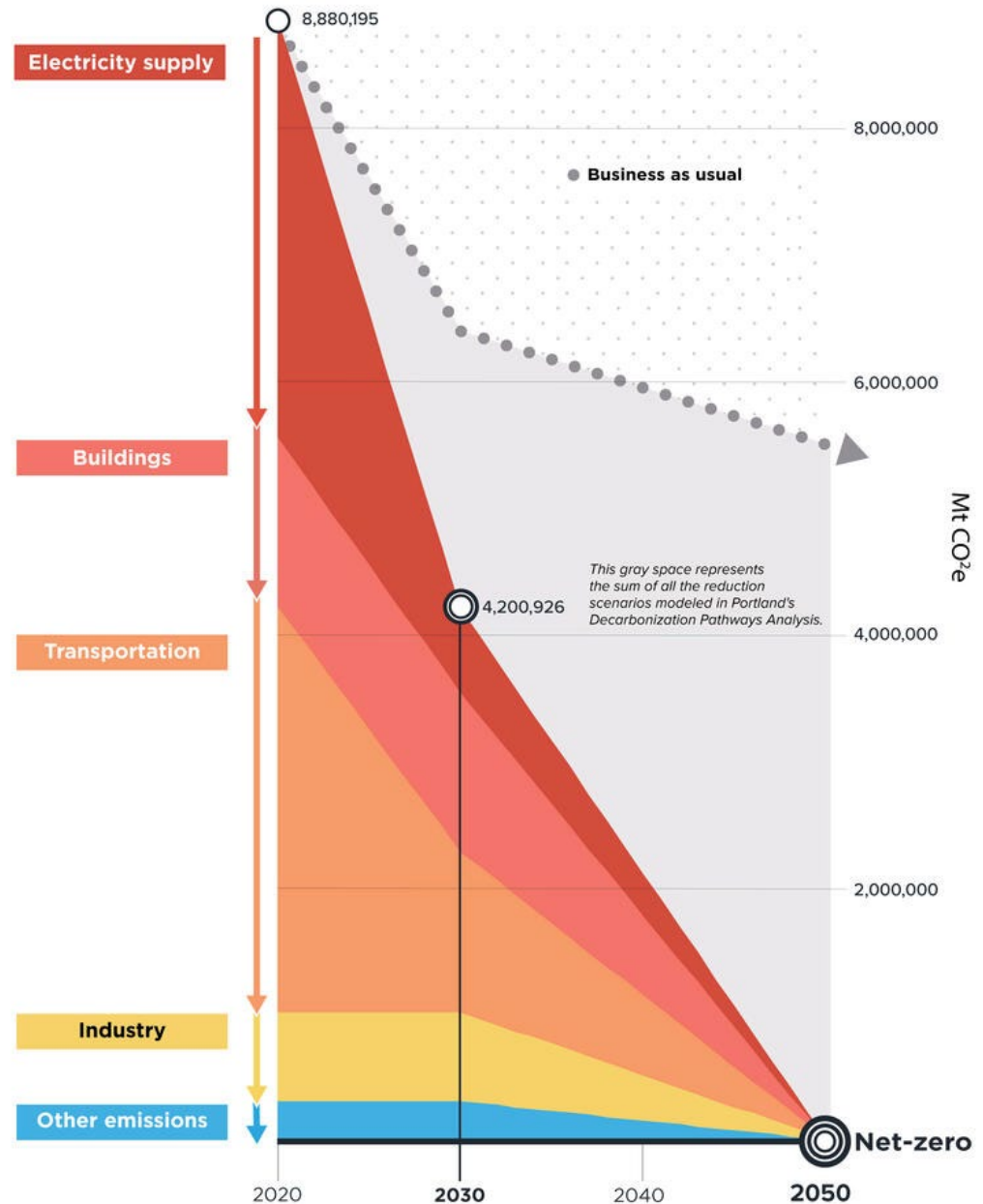
# BPS proposed allocation summary

Policy and technical assistance support for community-wide decarbonization strategies that advance equity and Climate Emergency Workplan goals.

Project	Funding request	Total 5-Yr Allocation
Community Based Renewable Energy	Limited Duration	\$750,000 ( 3 years)
Decarbonize Transportation	Ongoing	\$1,000,000
Eliminating Carbon from Buildings	Limited Duration	\$600,000 (3 years)
City Operations Decarbonization	Ongoing	\$500,000

# Climate benefits

- All BPS projects are directly pulled from Climate Emergency Workplan (E-2, B-1, B-2, T-7 & T-9)
- Program and policy work would hope to scale this 10x, but is dependent upon success in aligning available property, financing, utility interconnection, community partners, renewable developer.
- The CEW pathways tool estimates that replacing fossil diesel sales with renewable fuel sales in the city limits can reduce carbon emissions by an additional 509,260 MT CO<sub>e</sub> in 2030. Expanding access to active, shared and zero emission based modes is modeled through community transportation emissions.
- For a relatively small investment of staff time, decarbonizing City operations can be accelerated. Investment aligns with city reorganization to work cross-bureau and take an enterprise city-wide approach to building operations improvements. Large building (commercial) retrofits, such as insulation and HVAC, are one of the highest value actions on the marginal abatement cost curve.





# Community benefits and workforce/contractor opportunities

- Community based renewables directly benefits our community, especially to low-income residents via community solar subscriptions which reduce monthly electric bills 10-15%. Furthermore, the city is committed to 2% community ownership of energy resources by 2030 and 10% community ownership by 2050.
- Indirect benefits to our priority communities from community-based renewables include grid decarbonization, resilience in municipal facilities like community centers or community spaces, workforce development opportunities.
- BPS has partnered with community groups to develop building standards that establish a framework for the core objectives of the necessary policies and programs, this community led process resulted in the HEART Standards
- Transportation decarbonization pathways have been informed by ongoing meetings and relationship building with community-based organization staff, representing low-income and communities of color in Portland, as well as project specific community advisory committees. The outcome of this work will result in the following community benefits: reduced air pollution and increased access to clean, reliable, accessible, efficient and affordable transportation.

# Questions

# Committee discussion

Bike rack for additional questions and/or discussion amongst Committee members

COMMUNITY IS KEY



— PORTLAND —  
**CLEAN ENERGY  
COMMUNITY BENEFITS  
FUND** —



THE BUREAU OF **PLANNING  
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