

PCEF

CLIMATE INVESTMENT PLAN

**Portland Clean Energy
Community Benefits Fund (PCEF)
Climate Investment Plan**

August 2023



THE BUREAU OF **PLANNING
& SUSTAINABILITY**

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Portland's Climate Investment Plan

Executive Summary

August 2023

Change happens when we come together.

Approved by voters in 2018, the [Portland Clean Energy Community Benefits Fund \(PCEF\)](#) invests in community-led projects that reduce carbon emissions, create economic opportunity, and help make our city more resilient as we face a changing climate.

In the next five years, PCEF will invest \$750 million in community-led clean energy projects and climate solutions like energy-efficient upgrades to make apartment buildings safer and more comfortable during extreme heat, and tree planting to increase shade in neighborhoods that lack tree canopy coverage. These investments help ensure our most impacted residents are prepared for a changing climate as we support the City's goal of net-zero carbon emissions by 2050.

Led by those who live it. PCEF is the first climate-fund measure created and led by communities on the frontlines of climate change. Broad support for the measure was built through the leadership of communities of color, trust and relationship building, and a diverse coalition of supporters.

A collaborative approach. As PCEF evolves, the program is guided by a deep commitment to community engagement, accountability, and prioritization of those most impacted by a changing climate. Community responsive grants are awarded for projects designed and implemented by community-based nonprofit organizations.

Opportunity through innovation. PCEF is designing and evaluating climate solutions and partnering with grantees and frontline communities in culturally informed and responsive ways. This unique combination of climate expertise and public engagement makes PCEF a world leader in climate action that is rooted in economic opportunity and racial justice.

Climate Investment Plan: Portland's commitment to climate justice

PCEF has already awarded more than \$145 million in grants that support communities most impacted by climate change and make Portland more resilient to a changing climate. In response to direction from Portland City Council in fall 2022, this Climate Investment Plan (CIP) was developed as a five-year roadmap to fund additional community-led clean energy projects and climate solutions.

The CIP is grounded in climate research, deep community engagement, and multiple rounds of input from residents, businesses, subject matter experts, government partners, and community organizations to ensure the proposed solutions address the needs of Portland residents most impacted by a rapidly changing climate. All programs are evaluated within PCEF's equity and climate framework, which considers benefits to frontline communities, community leadership, implementation feasibility, greenhouse gas (GHG) emissions reductions, and accountability.

PCEF priority populations

To ensure the City equitably invests in climate action, PCEF centers groups that have been historically under-resourced by sustainability, climate action, and clean energy programs. These groups include, but are not limited to, people with low incomes, people of color, and people with disabilities. These groups often have less access to the benefits of environmental investments, and at the same time, are more vulnerable to the negative impacts of climate-related events such as extreme heat, wildfire smoke, vector borne diseases, and flooding.

From 2023 to 2028, PCEF will award an estimated \$750 million across seven funding categories.



Energy efficiency and renewable energy: \$474 million.

Residential and commercial buildings account for 41% of carbon emissions in Multnomah County. By reducing these emissions, funded projects can support a healthier climate, improve air quality, boost household and business utility savings, and create more resilient community infrastructure.



Transportation decarbonization: \$128 million.

Transportation accounts for 42% of Multnomah County's carbon emissions, making community-driven efforts to transition to an equitable, clean transportation system an essential part of the strategy to meet the City's climate goals.



Green infrastructure: \$70 million.

Portland's urban tree canopy is a powerful tool for removing carbon from the atmosphere and working toward the City's 2050 climate goals. Planting and maintaining street trees in Portland's most heat-vulnerable neighborhoods can also increase shade, improve air quality, and protect wildlife habitat.



Climate jobs, workforce, and contractor development: \$41 million.

PCEF invests in training and apprenticeships to support a diverse and fairly-paid workforce and contracting community for jobs related to clean energy, transportation decarbonization, green infrastructure, and regenerative agriculture.



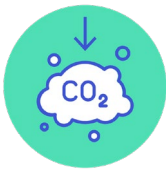
Regenerative agriculture: \$20 million.

Regenerative agriculture increases soil's ability to store carbon, naturally enhancing Portland's climate resilience while supporting community-based food systems and providing fresh, locally-grown produce.



Capacity building: \$15 million.

Nonprofit organizations focused on climate justice will access trainings and staff support to more effectively meet community needs and build more climate-resilient neighborhoods. This increased capacity is essential for grant recipients to advance PCEF and the City's climate goals.



Other carbon reducing projects: \$2 million.

This includes projects that do not fall under the other six funding categories but provide meaningful and measurable carbon reduction and benefit communities that experience disproportionate climate impacts.

The CIP includes greater detail of PCEF's funding framework for community responsive grants and each strategic program that is included in the funding categories above. Along with policy actions that improve our transportation system, energy sources, and the built environment, this plan is one of the core strategies for reducing carbon emissions in the City of Portland.

Together, we are showing the world what it looks like for climate action to be rooted in economic opportunity and racial justice. When we invest in our communities, we invest in our future.

Revenue forecast

PCEF is funded through a 1% surcharge on the Portland sales of large retailers with \$1 billion in national revenue and \$500,000 in local revenue. Based on projections from the City of Portland’s Revenue Division, PCEF estimates \$750 million in funding available for 2023-2028. Actual collections will vary year-to-year based on economic conditions, the proportion of sales that are classified by taxable business entities as retail or wholesale, and the definition of taxable business entities and their tax liability.

Figure 1. PCEF beginning balance vs. annual and cumulative tax revenue

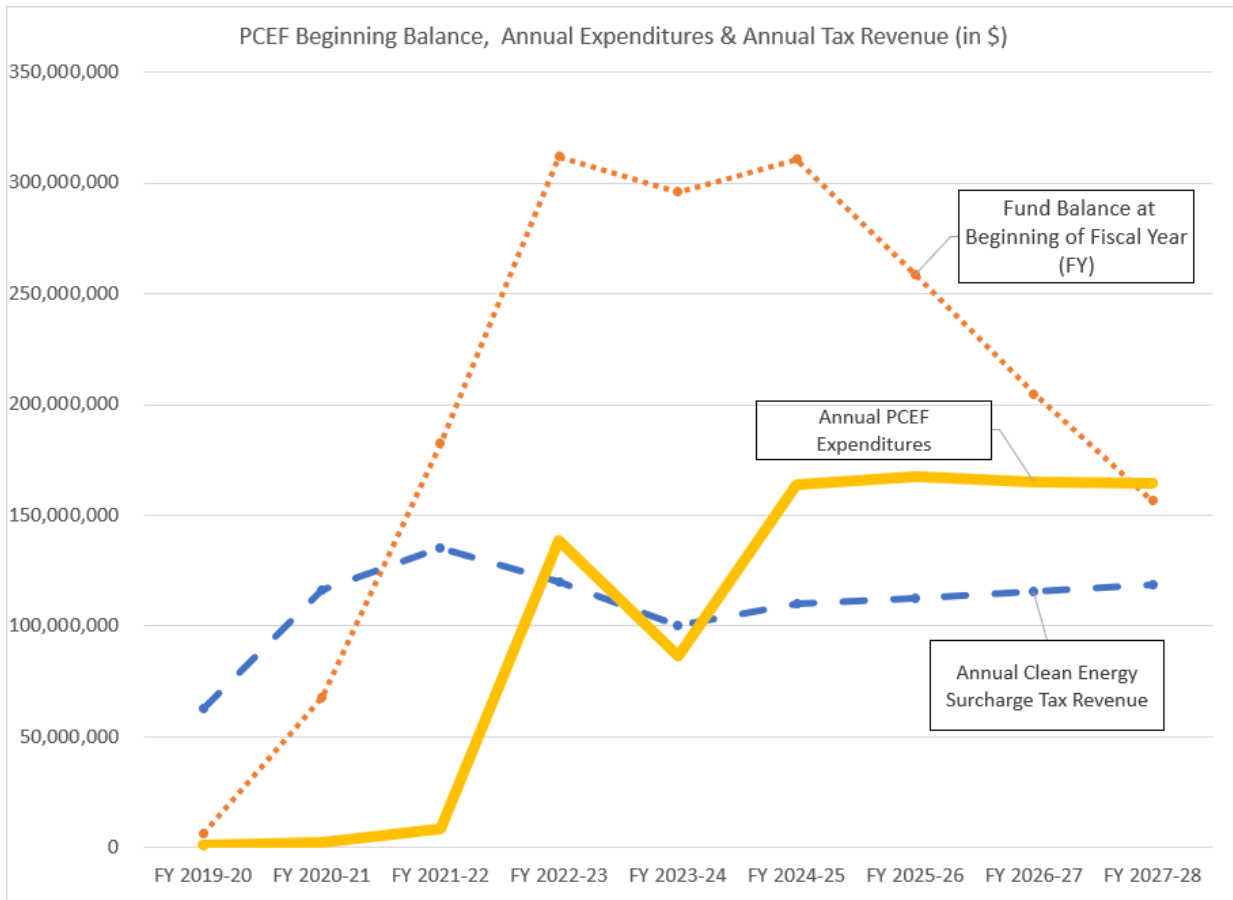


Figure 1 illustrates information on PCEF’s annual revenues, fund balance, and annual expenditures looking back to the start of the program and projected out for the duration of this CIP.

CIP purpose

The CIP was developed based on the PCEF Committee’s [guiding principles](#): to prioritize and allocate funding for community-led and informed climate action projects that benefit Portlanders most impacted by a rapidly changing climate. The CIP serves as a five-year roadmap for PCEF’s investments with clear outcomes and goals. Projects funded by PCEF must provide both climate and racial, social, and/or economic justice benefits.¹



¹Any provision of the Climate Investment Plan, or the CIP’s application to any person or circumstance, that is held or declared void, invalid or illegal will not affect any other provision or application of the CIP and the remainder of the CIP will continue to be in full force and effect.

CIP development approach

The following steps broadly outline the community engagement process informing the development of this CIP.

Step 0: *Leverage program history and experience to date.* Leveraged deep community engagement and lessons learned from developing and implementing two requests for proposals (RFP) soliciting over 300 applications and awarding and managing over 110 grants totaling over \$145 million.

Step 1: *Project overview and accessibility survey, January 2023.* Before launching efforts to write a plan, an accessibility survey assessed community participation barriers. [Responses to the survey](#) informed the design of the engagement and outreach process.

Step 2: *Community visioning and priorities, January to February 2023.* Residents, nonprofits, and subject matter experts shared their ideas on achieving major GHG reductions that advance racial, social, and climate justice at open houses and workshops.

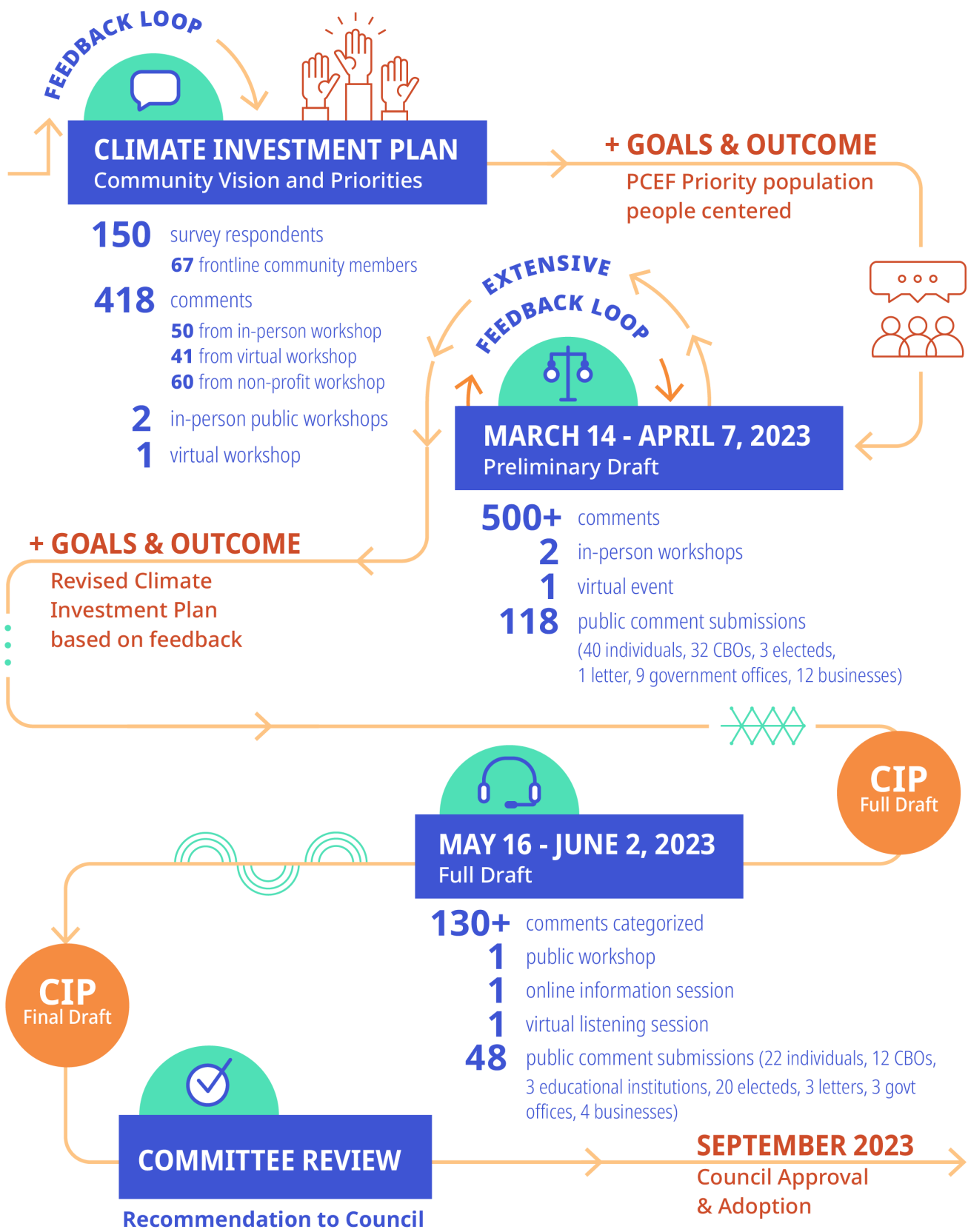
Step 3. *Preliminary draft, March to April 2023.* Using information collected from workshops, surveys, subject-matter roundtable discussions, community studies, research, and best practices, a preliminary draft of the CIP was made available for public review and comment. The preliminary draft contained proposed funding allocations, strategies, and goals. Public comments on the preliminary and full draft of the CIP can be found on [the PCEF website](#).

Step 4. *Full CIP draft, May 2023.* After considering comments from the preliminary draft, PCEF staff refined a full draft of the CIP and circulated it for public review and comment. The full draft contained more detail on program elements, including goals such as target carbon emissions reductions.

Step 5. *Committee deliberation, June and July 2023.* The PCEF Committee deliberated, made changes to, and recommended a final CIP to City Council.

Step 6. *City Council deliberation and approval, September 2023.* City Council deliberated and decided on the inaugural CIP.

Step 7. *Implementation of the CIP and reflection and evaluation townhall, fall 2023.* Following City Council approval, PCEF staff released a community responsive grant solicitation and began implementation of strategic programs. A townhall was held to discuss how decisions were made during the CIP process and to collect recommendations for the next update of the plan.



Three funding pathways

PCEF funds projects and programs through three different pathways: community responsive grants, strategic programs, and the tree canopy maintenance reserve.

- *Community responsive grants* are awarded for projects designed and implemented by community-based nonprofit organizations. These grants prioritize carbon emissions reduction and climate workforce training projects that are led by, and serve, communities living on the frontlines of climate change. PCEF had successfully launched two grant funding cycles under the community responsive grants program, which have been publicly referred to as RFP 1 and RFP 2.
- *Strategic programs* are targeted programs designed with input from community members and subject matter experts. These programs are detailed in the CIP and may be implemented through partnerships with nonprofit organizations, government entities, or businesses. These programs are selected based on shared City and community priorities, carbon emissions reduction opportunity, timeliness, need, and social impacts.
- *Tree canopy maintenance reserve* is funding for the targeted long-term maintenance of tree canopy to ensure the sequestration of carbon emissions in a manner that aligns with PCEF's purpose.

The CIP defines the funding allocation for each pathway, which emphasize equity and climate in its framework. In selecting implementation partners, PCEF will prioritize organizations with a track record of successfully working with PCEF priority populations.

Equity + climate framework

From its days as a ballot measure to becoming a full-fledged City program, equity and climate action have been central tenets in PCEF's design and implementation. With the addition of strategic programs as a new pathway for funding PCEF projects and programs, an equity + climate framework is used to evaluate any strategic program for inclusion in the CIP. The five prompts below outline key elements of PCEF's equity + climate framework. A strategic program concept must answer all five prompts affirmatively to be considered for inclusion in the CIP. Exceptions include capacity building and workforce/contractor development which do not have direct GHG reductions.

- *Benefits to frontline communities.* Will the program create clear, significant, and measurable benefit to frontline communities?
- *Community leadership.* Are there meaningful opportunities for community members to participate in decision making and/or provide leadership in program implementation? Does the program invest in building capacity within communities most impacted?
- *Implementation feasibility.* Can the program be realistically implemented at scale with existing City staff, partners, or contractors over five years?

- *Climate impact: GHG reductions.* Will the program result in meaningful and measurable GHG reductions/sequestration?
- *Accountability.* Do accountability mechanisms exist to ensure that communities of color, low-income populations, people with disabilities, and other vulnerable communities benefit from the strategic program? Is this program additional to existing or planned efforts?

Building community in partnership

Our goal in creating a more climate resilient Portland is not only to address the immediate needs of those most impacted by climate change, but also to empower them to take leadership roles in designing and implementing solutions. PCEF recognizes the crucial role of communities of color and low-income people as frontline leaders in effecting change.

This approach has required PCEF to balance strategic program offerings that are designed to respond to immediate community needs with the long-term goal of growing community capacity. That’s why community engagement and capacity building goals are woven throughout this plan and why they will be tracked during implementation.

Evaluation metrics that will be gathered for strategic programs and community responsive grant programs include:

- *Number of organizations.* The number of community organizations and businesses working on PCEF projects or programs that reflect and serve priority populations.
- *Funding.* The amount of funding being allocated to community organizations, businesses, and government institutions. This will help us determine how financial resources are being distributed including which organizations are securing the financial resources necessary to build their capacity and implement programs.
- *Training and development.* The number of training and development opportunities offered. This can help determine if organizations and individuals have access to gaining skills and knowledge necessary to effectively address the climate crisis.
- *Partnerships.* The number of partnerships nonprofits are forming with government, the private sector, and with each other to implement PCEF-funded projects and programs. This can help determine if community organizations, businesses, and government institutions are building the necessary relationships to effectively implement climate change programs.
- *Community engagement.* The level of involvement of community members and organizations through planning processes including the CIP development process. This helps determine if community is building the necessary engagement and leadership capacity to sustain their efforts for the long-term.

Accountability: transparency, measurement, reporting, and evaluation

Accountability is an imperative for all PCEF programs and our mission to address climate change urgently and equitably. As the nation's first program of its kind, it is also critical that the CIP incorporates appropriate mechanisms to transparently share its process and progress. Performance measures track PCEF's progress towards its goals, and program evaluations assess its impact or improve results.

Collectively, we refer to the systems that support and reinforce the achievement of PCEF's goals as our measurement, reporting, and evaluation systems. All PCEF investments, whether community responsive grants or strategic programs, will have defined measures or metrics, reporting requirements, and evaluation.

- *Transparency.* Climate change is a global crisis, so we are committed to sharing our progress openly so that other municipalities can learn from our efforts, and our local community has visibility to our investments and outcomes.
- *Measurement.* Each program contains key metrics with which to evaluate progress and success. A forthcoming PCEF Dashboard will be publicly accessible, tracking program metrics and empowering us to report the most current information on our efforts.
- *Reporting.* Program work plans will be developed and milestones for data reporting established. Each program has its own distinct timeline, so reporting may vary based on program implementation. A report will be issued annually to share:
 - How funds have been spent to date.
 - Progress on funded projects and programs.
 - The CIP's impact on addressing climate change.
 - How CIP investments support other City climate efforts, including the Climate Emergency Workplan (CEW).
 - Demographics that show who has directly benefited from PCEF CIP investments.
- *Evaluation.* PCEF and our partners will perform continuous evaluation to ensure that CIP goals will be on track in the five-year time frame, as well as collaborating with the broader CEW workplan efforts.

The PCEF Committee plays a crucial role in accountability. As representatives of the community, they will provide feedback, oversight, and perspective throughout CIP implementation. The Committee protects the purpose of the Fund, provides guidance when PCEF navigates competing demands, and balances action toward carbon reduction goals and community benefit.

Committee meetings will continue to be open to the public and livestreamed online, allowing maximum accessibility for the community.

Program-wide contractor and workforce equity approach and goals

There is a significant opportunity to ensure that climate action drives the creation of quality jobs and increases access to those jobs for people who have been historically marginalized in the workforce.

PCEF promotes the growth of diverse climate action-focused contractors (i.e., businesses) and workers to better reflect the diversity of our city. The program's workforce and contractor investments support projects that facilitate and promote job training, pre-apprenticeship programs, apprenticeship programs, and contractor development in businesses that produce goods or services that reduce or sequester greenhouse gases. This support for diverse contractors and workers will come through a range of organizations dedicated to this work including government, community-based organizations, culturally-specific chambers of commerce, apprenticeship programs, labor unions, and other community resources.

PCEF invests and supports the diversification of contractors and workers focused on climate action in four primary ways:

- *Contractor and workforce utilization goals.* Utilization goals are an important tool for PCEF grantees and contractors to advance equity in professional and construction services contracts. It sets percentage thresholds for the participation of businesses certified by the Certification Office for Business Inclusion and Diversity (COBID) (or a defined alternative) as: Disadvantaged (D), Minority (M), Women (W), Emerging Small Business (ESB), or Service-Disabled Veteran-Owned Business Enterprises (SDVBE). Diverse contractor and worker utilization goals for this CIP are in [Appendix 1](#).
- *Contractor and workforce diversification grants and contracts.* Direct investment into organizations for climate-action related contractor and workforce development is an equally important means to growing and diversifying our workforce. This may include investing in pre-apprenticeship programs, green-building related training and certifications, or contractor training and support to increase clean energy service offerings. Direct investments also include upstream efforts that encourage youth to explore climate careers.
- *Reporting and wage requirements.* Reporting on contractor and workforce utilization provides data and information on those who work on PCEF projects. Reporting also provides information on wages to ensure that workers on PCEF projects are paid at least 180% of minimum wage, or prevailing wages, where applicable.
- *Worksite anti-harassment and culture change.* The fourth element to PCEF's contractor and workforce equity approach is a strategy for worksite anti-harassment and positive culture change to ensure that workers on PCEF projects, regardless of race, gender, or creed, are guaranteed a safe and respectful working environment. The strategy includes policies and trainings for workers on PCEF projects to provide safe and respectful worksites.

CIP in context

A recent study by ECONorthwest found that completing all clean energy and green infrastructure projects benefiting PCEF priority populations would require approximately \$18 billion.² This includes residential and small commercial (10,000 square feet or less) clean energy projects and tree planting to support the urban tree canopy; it does not include investments in transportation, larger commercial buildings, or workforce and contractor development. However, completing all projects to reach the city's residents and businesses would cost many times that figure.

PCEF and the CIP operate in a broader landscape of national, state, and local policy and funding solutions aimed at addressing climate change and social inequality. The CIP's strategic programs and community responsive grant opportunities have the potential to support, leverage and connect with local, state, and federal policies and funding sources at a critical time. These efforts aim to lower the cost of cleaner technologies, encourage decarbonization in buildings and transportation systems, and promote local equitable economic development, among other objectives. The CIP is designed to complement and support the following efforts:

- The [Climate Emergency Workplan](#).
- State efforts centered around the [100% Clean Energy goals](#) and the [Climate Protection Program](#).
- Decarbonization efforts of regional partners including [Energy Trust of Oregon](#), and local utilities [Portland General Electric](#) and [Pacific Power](#).
- Prosper Portland's [Advance Portland](#) inclusive economic growth strategy.
- The federal [Inflation Reduction Act \(IRA\)](#) and [Bipartisan Infrastructure Law \(BIL\)](#).

² Portland Clean Energy Fund: Market Study Summary, June 2023 (<https://www.portland.gov/bps/cleanenergy/grant-committee/documents/pcef-market-study/download>)

SUMMARY OF DRAFT FUNDING ALLOCATIONS



by code funding categories

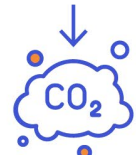


Table 1. Summary of draft funding allocations by code funding categories.

Primary code category	Community responsive grant or strategic program (SP) name	Total 5-year funding allocation	Workforce & contractor development suballocation	Climate Emergency Work plan* actions that are directly or indirectly supported by the CIP
Climate jobs, workforce and contractor development (Page 21)	Community responsive grants - youth climate careers exposure	\$4,000,000	-	E-2, B-1, B-3, T-6, T-7, T-1**, T-3**
	Community responsive grants – job training and contractor support initiatives	\$26,000,000	-	E-2, B-1, B-3, H-1, T-6, T-7, T-1**, T-3**
Energy efficiency and renewable energy (Page 23)	Community responsive grants – energy efficiency and renewable energy	\$92,000,000	-	E-2, B-1, B-3, B-4, H-1, RH-2
	SP 1: Clean energy in regulated multifamily affordable housing	\$60,000,000	\$1,200,000	B-3, B-4, T-6, T-7, H-1
	SP 2: Clean energy in unregulated multifamily housing	\$50,000,000	\$2,000,000	B-1, B-3, T-7, H-1
	SP 3: Clean energy improvements in single-family homes	\$140,000,000	\$3,500,000	B-3, T-7, H-1
	SP 4: Clean energy in small commercial buildings	\$25,000,000	-	B-1, T-7
	SP 5: Building upgrades for community severe weather response	\$30,000,000	-	B-2, T-7, H-1, RH-1, RH-2, E-2
Transportation decarbonization (Page 38)	Community responsive grants - transportation decarbonization	\$35,000,000	-	T-1*, T-4, T-7
	SP 6: Comprehensive e-bike access and support	\$20,000,000	\$600,000	T-1*, T-4
	SP 7: Equitable clean transportation access	\$25,000,000	-	T-1*, T-4
Green infrastructure (Page 45)	Community responsive grants - green infrastructure	\$5,000,000	-	NR-2, NR-4
	Tree canopy maintenance reserve	\$5,000,000	\$250,000	T-3**, NR-4
	SP 8: Equitable tree canopy	\$40,000,000	\$2,000,000	T-3**, NR-4
Regenerative agriculture (Page 50)	Community responsive grants - regenerative agriculture	\$14,000,000	-	LU-2
	SP 9: Increasing access to urban regenerative agriculture opportunities - planning and land acquisition	\$6,000,000	-	LU-2

Primary code category	Community responsive grant or strategic program (SP) name	Total 5-year funding allocation	Workforce & contractor development suballocation	Climate Emergency Work plan* actions that are directly or indirectly supported by the CIP
Organizational capacity building (Page 52)	Community responsive grants - mini grants	\$1,000,000	-	E-2, B-1, B-3, T-1*, T-4, T-7, NR-2
	SP 10: Community-Based Organization (CBO) capacity building program	\$10,000,000	-	E-2, B-1, B-3, T-1*, T-4, T-7, NR-2
Multiple funding categories/ other carbon emissions reducing projects (Page 57)	Community responsive grants - other carbon emissions reduction/ sequestration projects	\$2,000,000	-	S-1, S-2, S-3
	SP 11: 82nd Avenue climate infrastructure and community resilience grants	\$5,000,000	-	B-1, T-7, LU-1, LU-2, T-2**, T-3**
	SP 12: 82nd Avenue street tree expansion	\$5,000,000	-	LU-1, T-2**, T-3**, NR-4
	SP 13: Targeted electric vehicle financing tools	\$35,000,000	-	T-1*, T-8
	SP 14: Access to fair and flexible capital	\$45,000,000	\$2,250,000	B-1, B-3, B-4, T-6, T-7, I-1
	SP 15: Federal climate and equity funding opportunities	\$20,000,000	-	All CEW actions
	SP 16: Climate-friendly public schools	\$50,000,000	-	E-2, T-1*, T-2**, T-3**, T-7, NR-4, H-1, IP-1, E-4
Total		\$750,000,000	\$11,800,000	

T-1*, T-2*, and T-3* refer to actions in the CEW listed under Transportation in Decarbonization Priorities.

T-1**, T-2**, and T-3** refer to actions in the CEW listed under Trees (Canopy) in Resilience Priorities.

Table 1 summarizes the CIP’s five-year funding allocations by funding category and includes actions from the [CEW](#) that are either directly or indirectly supported by the CIP. While the table is organized based on each program’s *primary* funding category, many programs, including community responsive grants and strategic programs, will invest in more than one PCEF funding category. For example, *SP 2: Clean energy in unregulated multifamily housing* primarily invests in energy efficiency and renewable energy but also has spending for transportation decarbonization (e.g., electric vehicle charging) and for workforce and contractor development (see Table 2 below).

Table 2. Example of multiple funding categories within strategic programs, *SP 2: Clean energy in unregulated multifamily housing*.

Total five-year funding allocation	\$50,000,000	% of total
Energy efficiency and renewable energy	\$45,500,000	91%
Transportation decarbonization	\$2,500,000	5%
Workforce and contractor development	\$2,000,000	4%

Spending aggregated across programs for the total amount invested in each of the funding categories:

- Energy efficiency and renewable energy - **\$474 million.**
- Transportation decarbonization - **\$128 million.**
- Green infrastructure - **\$70 million.**
- Regenerative agriculture - **\$20 million.**
- Workforce and contractor development - **\$41 million.**
- Capacity building - **\$15 million.**
- Other carbon reducing projects - **\$2 million.**

Figure 2. Aggregated investments across PCEF's code funding categories.

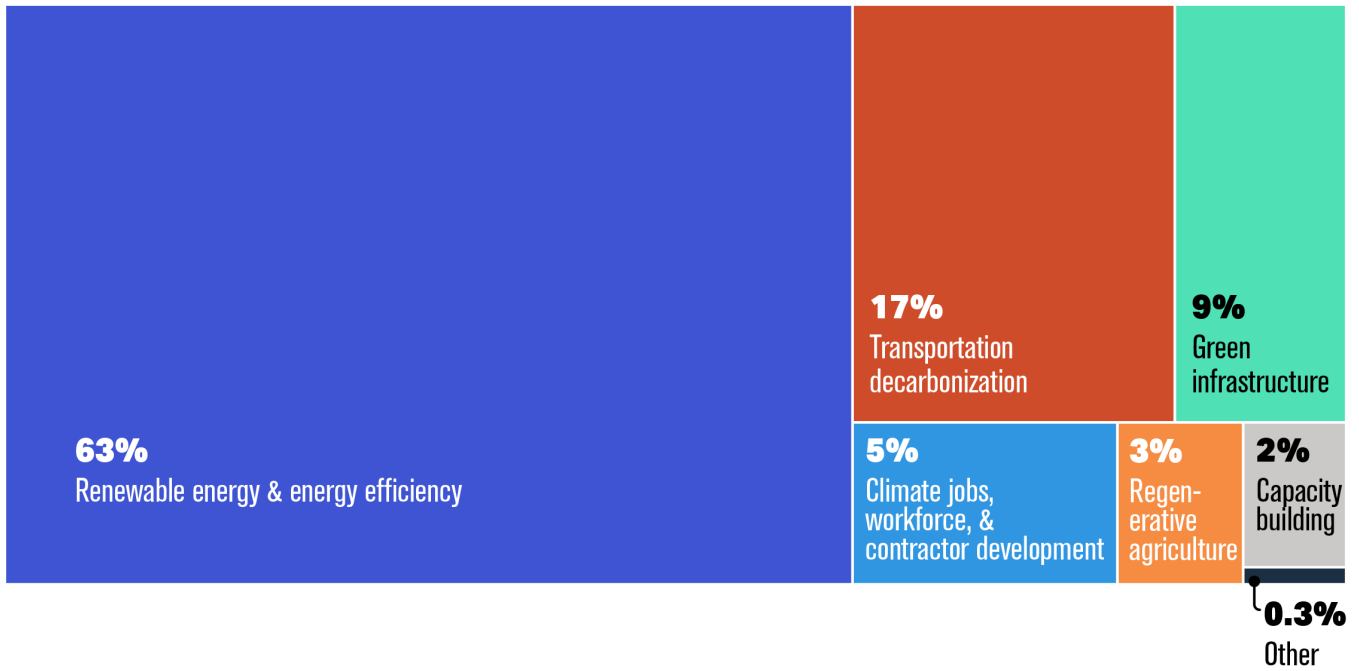


Figure 3. Allocation of funds between the three funding pathways: community responsive grants, strategic programs, and tree canopy maintenance reserve.



PCEF code funding categories



Climate jobs, workforce, and contractor development

With increases in funding for climate action driven by PCEF and the IRA, there is substantial opportunity for climate action-focused workforce and contractor (i.e., business) development. PCEF’s funding of climate projects and our investments in workforce and contractor development will create career pathways and increase access to green jobs for historically marginalized workers and contractors to support a more climate-friendly and resilient Portland.

In addition to the direct investments in climate-action related workforce development and contractor support listed below, funding for climate-action related workforce development and contractor support is woven through multiple programs within the CIP.

The following table summarizes proposed investments in workforce development and contractor support through both community responsive grants and strategic programs.

Table 3. Funding allocations – climate jobs, workforce development, and contractor support.

Climate jobs, workforce development, and contractor support investments		Five-year funding allocation
Community responsive grants	Youth climate career exposure	\$4,000,000
Community responsive grants	Job training and contractor support	\$26,000,000
Strategic program	SP 1: Clean energy in regulated multifamily affordable housing	\$1,200,000
Strategic program	SP 2: Clean energy in unregulated multifamily housing	\$2,000,000
Strategic program	SP 3: Clean energy improvements in single-family homes	\$3,500,000
Strategic program	SP 6: Comprehensive e-bike access and support	\$600,000
Strategic program	Tree canopy maintenance reserve	\$250,000
Strategic program	SP 8: Equitable tree canopy	\$2,000,000
Strategic program	SP 14: Access to fair and flexible capital	\$2,250,000

Community responsive grants – workforce and contractor development

TOTAL FIVE-YEAR FUNDING ALLOCATION: \$30,000,000

Workforce and contractor development-focused community responsive grants are intended to support investments in:

- Oregon Bureau of Labor & Industries (BOLI)-registered pre-apprenticeship programs: HVAC technicians, weatherization technicians, electricians, plumbers, and other trades that work on climate action.
- BOLI-registered apprenticeship programs: residential heat pump technicians and weatherization technicians.
- Certifications: for arborists, solar panel installers, wind technicians, HVAC technicians, weatherization technicians, and energy auditors.
- Youth climate career education and exposure initiatives: for programs in fields like renewable energy, sustainable agriculture, or transportation planning; and internships with companies that are at the forefront of the sustainable economy.
- Contractor development: for mentorship and training, access to capital, and business and technical assistance to increase climate action related product and service offerings.

A portion of this funding may be administered by another government entity based on the availability of complementary services that enhance program delivery in alignment with the purpose of this funding category.

GOAL MEASURES FOR COMMUNITY RESPONSIVE GRANTS

- 1,000 low-income and youth of color provided with climate career exposure and education.
- 700-900 of workers trained for work in clean energy, transportation decarbonization, green infrastructure, or regenerative agriculture.
- 75-125 contractors supported in starting, pivoting to, or expanding work in clean energy, transportation decarbonization, green infrastructure, or regenerative agriculture.





Energy efficiency and renewable energy

Investments in energy efficiency and renewable energy will be made through community responsive grants and through five strategic programs. Each of the strategic programs serves a distinct group of buildings and/or owners that have different barriers and opportunities for reducing GHG emissions and benefiting PCEF priority populations.

As residential and commercial buildings account for 41% of carbon emissions in Multnomah County, and reducing energy usage provides direct benefit to local businesses and low-income Portlanders, the primary focus of PCEF's clean energy funding is investments in buildings. Reducing building emissions supports a healthier climate and improves air quality, boosts household and business utility savings, and creates more resilient community infrastructure.

In all areas of energy efficiency and renewable energy, PCEF aims to assure high quality work that reduces GHG emissions and benefits frontline communities.

- None of the clean energy programs, except for *SP 5: Building upgrades for community severe weather response*, allow PCEF funding to be invested in equipment or appliances that use fossil fuels.
- All clean energy programs include third-party quality assurance.
- Many strategic programs have funding allocated to support targeted workforce and contractor training, pathways for career advancement, contractor capacity building, and mentorship for implementation partners.
- Except new and redeveloped regulated multi-family affordable housing (SP 1), up to 30% of the construction budget for each building may be used for health, safety, accessibility, or enabling repairs. The remaining 70% must be used for energy improvements.
- For the unregulated multifamily (SP 2), single family (SP 3), and small commercial (SP 4) strategic programs, and for community responsive grants in existing buildings, if match funding is available and the total project cost (PCEF funds + match funds) meets the requirement of at least 70% of total construction budget going into energy improvements, then up to 50% of PCEF funding can be used for health, safety, accessibility, or enabling repairs.

Community responsive grants - renewable energy and energy efficiency

FIVE-YEAR FUNDING ALLOCATION: \$92,000,000

Energy efficiency and renewable energy-focused community responsive grants are intended to capture investments in:

- Community solar.
- Targeted/culturally responsive single-family home clean energy upgrades performed by organizations improving less than 50 units per year.
- Clean energy upgrades in existing regulated multifamily affordable housing.
- Clean energy improvements in nonprofit owned/occupied commercial buildings.
- Other renewable energy and energy efficiency investments that reduce GHG emissions, advance racial and social justice, and do not fall within one of the strategic programs defined below.

GOAL MEASURES

- 47,000 - 60,000 metric tons (MT) lifetime CO₂e emissions reduced.^{3,4}

Table 4. Strategic programs – renewable energy and energy efficiency.

Strategic program name	Five-year funding allocation
SP 1: Clean energy in regulated multifamily affordable housing	\$60,000,000
SP 2: Clean energy in unregulated multifamily housing	\$50,000,000
SP 3: Clean energy improvements in single-family homes	\$140,000,000
SP 4: Clean energy in small commercial buildings	\$25,000,000
SP 5: Building upgrades for community severe weather response	\$30,000,000

³ GHG reduction is calculated by estimating the number of each type of project that is outlined in the program description. Calculations are aligned with strategic programs when possible. GHG reductions will be managed across the portfolio of community responsive grants to meet the goal.

⁴ Weighted emissions factor for Portland developed with 2021 utility data from the Department of Environmental Quality and annual sales reporting, then scaled up to account for line losses. Assumed emission factors linearly reduce to zero in 2040 as a result of [HB 2021 \(2021\)](#).

Strategic program 1: Clean energy in regulated multifamily affordable housing

FIVE-YEAR FUNDING ALLOCATION: \$60,000,000

DESCRIPTION

The City of Portland is adding more than 1,700 multifamily affordable housing units in the next five years. This housing will remain affordable for 30 to 99 years, and the buildings are likely to be in use for even longer. It is imperative that these buildings are built and operated in a way that reduces carbon emissions, reduces operating costs, and improves resilience and health for tenants. Carbon-reducing measures are assured in project budgets by having this dedicated source of funding.

The program, one of [two fast tracked programs](#) in the CIP, is divided into two phases. Phase I are projects with financial close in the near term. Because Phase I projects are far along in their development process, there are fewer opportunities to impact design and contracting decisions. Requirements for these projects align with standard requirements for Portland Housing Bureau (PHB)-funded projects with the addition of energy usage modeling and reporting for PCEF funded measures.

PCEF is working with PHB and other community partners to define Phase II program parameters to see greater carbon reduction, benefit to tenants, and additional or different workforce and contractor equity requirements. Phase II projects will include those that have financial closing 12 months or more from the date when the program design is complete.

OUTCOMES

- Publicly subsidized affordable housing will be built to high-efficiency, low-carbon, resilient standards.
- Reduced operating costs for regulated affordable housing.

GOAL MEASURES

- **Phase I** - These housing projects are well into development and have largely finalized design. Each project is being assessed for specific carbon reduction opportunities that will work within the existing design. For this reason, PCEF is not estimating CO₂e emissions reduction for Phase I.
- **Phase II** – Improve energy usage in an estimated 800 units of regulated affordable housing, resulting in an estimated 3,400 - 5,700 MT lifetime CO₂e emissions reduction.⁵

⁵ Based on energy savings data to code from Energy Trust of Oregon's New Buildings Program Evaluation (2017), and modeled savings from Phase I projects and assumes an 80% attribution of above-code savings to PCEF.

INVESTMENT STRATEGY

Over five years, PCEF will invest up to \$60 million in clean energy upgrades in new or redeveloped regulated multifamily affordable housing. Roughly half of funding is anticipated to be awarded to projects in Phase I and the remaining half in Phase II. These funds are available to all new or redeveloped regulated multifamily affordable housing that is 20 units or larger within the city of Portland.

ELIGIBILITY FOR ADMINISTRATION

- Funds awarded in Phase I will be disbursed through PHB.
- Administration eligibility for Phase II has not yet been determined and may also be awarded through PHB.

PROGRAM-SPECIFIC WORKFORCE AND CONTRACTOR EQUITY CONSIDERATIONS

- Phase I projects will comply with standard PHB workforce and contractor equity requirements.
- Phase II projects may have additional requirements including Safe and Respectful Jobsite training, distribution of PCEF specific worker rights information to workers on projects, and utilization goals that align with those adopted by the PCEF program. See Appendix A.

Allocation: \$1,200,000

Workforce and contractor development investment outcomes and goals include:

- Improved rate of contractors meeting or exceeding diverse utilization and apprentice goals.
- 200-300 workers trained on green building and equipment installation.



Strategic program 2: Clean energy in unregulated multifamily affordable housing

FIVE-YEAR FUNDING ALLOCATION: \$50,000,000

DESCRIPTION

There are roughly 58,000 households in Portland earning less than 80% Area Median Income (AMI) and living in multifamily housing. Around a quarter of these households can access regulated affordable housing; the remainder live in unregulated multifamily rentals (sometimes called naturally-occurring affordable housing). Black and Indigenous households have the highest rates of rentership by race in Portland and lower than average median income.

This strategic program's goal is to provide clean energy improvements in 2,500 existing unregulated multifamily rental units. The program is intended to accelerate climate projects in this sector of the housing market, generating carbon emissions reduction and financial and health benefits for renters with low income.

Multifamily rentals have been historically difficult to access for clean energy programs. Property owners may be reluctant to participate because of barriers related to complexity and insufficient incentives.

The program is designed to address four key barriers:

- Property owners don't usually pay the utility bills. When they do, they can pass on costs to tenants, resulting in a lack of financial incentive to reduce energy use.
- Property owners have limited time and/or may not understand the benefits of energy improvements.
- Property owners have found existing programs complex to navigate and with requirements they are unwilling to accept.
- Tenant income verification is difficult and can create privacy issues.

These barriers will be addressed through:

- Robust investment in targeted marketing and outreach.
- Project management.
- Offering opportunities for significant investment in properties with limited match requirement.
- Allowing 30% of PCEF funds to be used for life, health, and safety upgrades which are likely known to the property owners.
- Determining eligibility based on a range of rents charged.

Program requirements will be designed to reduce energy consumption and minimize potential for tenant displacement.

Core program elements:

- Projected \$15,000 average PCEF investment per unit. For example, a fourplex could receive \$60,000 in energy improvements.
- 25% match and a minimum three-year rent-stability agreement will be required.
- Investments will be scaled based on the length of the agreement up to nine years.
- Property owner match can be from any source including utility, state, and federal programs as well as PCEF supported or other finance products.
- Eligible clean energy measures will be informed by an energy assessment and will target systems with high GHG and utility bill savings including heat pumps, hot water heating systems, and the building envelope.
- Renewable energy will be considered when accompanied by a comprehensive energy efficiency scope.

OUTCOMES

- Tenants see utility cost reductions along with increased comfort and livability in their homes.
- Rent stabilized in all participating units for three to nine years.

GOAL MEASURES

- 2,500 multifamily units receiving moderate to major energy retrofits resulting in projected 4,000 - 5,000 MT lifetime CO₂e emissions reduced.⁶
- 20% tenant energy bill reduction.

INVESTMENT STRATEGY

Over five years, PCEF will invest \$50 million in clean energy measures in unregulated rentals. Year one will target 30% of annual volume and will ramp up to full capacity by year three. Scaled investment will depend on length of rent-stability agreements, with an average PCEF investment of \$15,000 per unit.

ELIGIBILITY FOR ADMINISTRATION

Who may apply:

- Nonprofit organizations.
- For-profit organizations.

⁶ Savings based on Energy Trust of Oregon deemed savings and calibrated to savings from similar programs in other jurisdictions such as California's Low Income Weatherization Program.

Must provide the following program needs:

- Coordinating administrator.
- Tenant outreach and engagement.
- Property owner outreach and engagement.
- Program sales and marketing.
- Technical assessment.
- Energy project management.

Partnerships will be encouraged. PCEF will select 1-3 coordinating administrators and may consider additional contracts for tenant engagement and education.

PROGRAM-SPECIFIC WORKFORCE AND CONTRACTOR EQUITY CONSIDERATIONS

In addition to program-wide workforce and contractor goals and requirements, this strategic program has additional program-specific investment described below.

Allocation: \$2,000,000

Workforce and contractor development investment goals include:

- 350-400 workers trained on green building and equipment installation.
- 5,000 hours of building science technical mentorship for contractors.
- Retention awards to support employment for up to 50 new workers.



**“Residential and commercial buildings
account for 41% of carbon emissions
in Multnomah County.”**



Strategic program 3: Clean energy improvements in single-family homes

FIVE-YEAR FUNDING ALLOCATION: \$140,000,000

DESCRIPTION

PCEF will invest \$140 million over five years in more than 3,000 single-family homes to reduce GHG emissions, decrease energy usage and utilities bills, and improve homeowner stability while increasing comfort, health, and resiliency.

In Portland, there are roughly 42,000 homeowners with income below 80% of AMI which accounts for 29% of all homeowner households. Many of these homes are older, inefficient, and uncomfortable. This program will fund energy efficiency and renewable energy improvements in low-income, owner-occupied, single-family homes and offer incentives for renters and moderate-income homeowners. Homes owned and occupied by low-income households will be eligible for deep home energy retrofits and the highest level of program investment. Eligible improvements for rentals and moderate-income owner-occupied units will be limited to high-impact measures and are funded at a lower level.

All improvements will focus on the highest carbon emission and energy use reduction potential and will include measures that also provide health, safety, and accessibility benefits. Homes will receive a test-in assessment that follows building science principles and generates estimated energy-saving projections, and test-out quality assurance verification.

Table 5. Single-family energy investments.

Eligible households	Eligible activity	Number of homes five-year total estimated	PCEF investment per home*	Target reduction in energy use per home
Homeowners <80% AMI	Deep energy retrofits	1,500	Up to \$50K	30%
Renters <80% AMI	Limited high-impact energy efficiency measures	500	Up to \$15K	15%
Homeowners 81%-120% AMI	Limited high-impact energy efficiency measures	600	Up to \$30K	20%
Homeowners 121%-150% AMI	Limited high-impact energy efficiency measures	450	Up to \$15K (50% match required)	20%
Small in-home childcare centers and congregate housing	Limited high-impact energy efficiency measures	50	Up to \$15K (50% match required)	20%

*Up to 30% of construction budget for each single-family home can be used for health, safety, accessibility, or enabling repairs. The remaining 70% must be used for energy improvements.

If match funding is available and the total project cost (PCEF funds + match funds) meets the requirement of at least 70% of total construction budget going into energy improvements, then up to 50% of PCEF funding can be applied to health, safety, accessibility, or enabling repairs.

**Included in single family homes are duplexes, triplexes, quads, and condominiums. Participant eligibility will align throughout the single-family program, but PCEF investment levels will vary between building types.

OUTCOMES

- Deep energy retrofits in owner-occupied, low-income homes.
- Limited high-impact retrofits in owner-occupied, moderate-income homes.
- Limited high-impact retrofits in renter-occupied, low-income homes.
- Homes will have improved comfort, safety, and climate resiliency.
- Improved housing stability for low-income homeowners.

GOAL MEASURES

- Clean energy improvements in more than 3,000 single-family households and 50 in-home childcare or congregate living resulting in 120,000 - 150,000 MT lifetime CO₂e emission reduced.⁷
- 30% average energy usage reduction in low-income, owner-occupied homes.
- 20% average energy usage reduction in moderate-income, owner-occupied homes.
- 15% average energy usage reduction in low-income, renter-occupied homes.

INVESTMENT STRATEGY

Over five years, PCEF will invest \$140 million in single-family home energy retrofits and \$3.5 million in workforce and contractor development. The program will invest in:

- 1,500 deep energy retrofits in owner-occupied, low-income homes.
- 600 limited high-impact energy upgrades for homeowners with incomes of 81-120% AMI.
- 450 limited high-impact energy upgrades for homeowners with incomes of 121-150% AMI with a 50% match requirement and low-cost financing options.
- 50 limited high-impact energy upgrades for homes serving as care facilities or congregate housing with a 50% match requirement and low-cost financing options.
- 500 limited high-impact energy upgrades for single-family home renters with incomes less than 80% AMI. To reduce the risk of displacement, allowable measures will have high energy savings value and low rental market value.

⁷ Energy savings are estimated using a mix of deemed measure-level savings and whole building evaluations from Energy Trust of Oregon, as well as modelled savings from National Renewable Energy Laboratory (NREL)'s ResStock tool.

ELIGIBILITY FOR ADMINISTRATION

Who may apply:

- Nonprofit organizations.
- For-profit organizations.
- Government organizations.

Eligible applicants may apply to fulfill one or more program roles including:

- Central administrator, marketing, and data management.
- Contractor/project implementer - must commit to a minimum of 50 deep home energy retrofits or 150 limited measure installations per year for at least two years.
- Outreach and culturally-specific program navigation and engagement.

PROGRAM-SPECIFIC WORKFORCE AND CONTRACTOR EQUITY CONSIDERATIONS

In addition to program-wide workforce and contractor goals and requirements, this strategic program has additional program-specific investment described below.

Allocation: \$3,500,000

WORKFORCE AND CONTRACTOR DEVELOPMENT INVESTMENT GOALS

- 350-400 workers trained on green building and equipment installation.
- 5,000 hours of building science technical mentorship for contractors.
- Equipment provided for 15-25 contractors entering or expanding in building clean energy work.
- Retention grants for up to 80 new workers and 50 contractors.

Strategic program 4: Clean energy in small commercial buildings

FIVE-YEAR FUNDING ALLOCATION: \$25,000,000

DESCRIPTION

Small businesses often operate on tight margins and may be more vulnerable to the impacts of climate change. For example, small businesses often have limited cash reserves and may suffer significant impact from having to shut down during a major climate-related weather event. Many small businesses are also still emerging from financial hardships caused by the pandemic. The small commercial spaces in which many small businesses operate have been historically difficult for climate programs to serve.

This program is intended to reduce energy usage and cost, create health benefits, and increase resilience for small businesses in Portland, with a focus on BIPOC (Black, Indigenous, and People of Color)-owned businesses. Small businesses will be eligible for appliance and equipment efficiency upgrades. Additionally, small commercial buildings (up to 40,000 square feet with a priority for those less than 20,000 square feet) will be eligible for clean energy building improvements if they are occupied or will be occupied by a qualifying small business. In addition to building clean energy improvements, electric vehicle charging stations may be included with a comprehensive energy efficiency scope. These investments will result in energy and carbon emissions savings and improved indoor air quality for small businesses and small business spaces.

Program design is informed by two main sector challenges:

- *Split-incentive*. Tenant businesses who pay the utility bills in small commercial buildings are the direct beneficiaries of efficiency and renewable energy upgrades, but the building owner makes decisions about and funds building upgrades.
- *Displacement risk*. Major improvements to small business spaces can have the unintended consequence of increasing rent to a level which may not be affordable for the current tenants.

To mitigate these barriers, the program will take a two-pronged approach: (1) investing in turn-key clean energy building upgrades which lower utility bills and improve comfort and air quality for occupants, and (2) investing in clean-energy upgrades for business-owned appliances and equipment which lower energy use and contribute to business resiliency.

OUTCOMES

- Business owners receive high efficiency appliances/equipment.
- Small commercial buildings receive clean energy improvements.
- Property owners/managers receive building system management training to maximize efficiency outcomes.
- Improve health for workers and patrons and lower utility cost for business owners.
- Increase small business stability and resilience.

GOAL MEASURES

- Energy upgrades in 65 small commercial buildings and high efficiency appliance replacements for 75 small businesses will generate an estimated 12,000 -14,000 MT lifetime CO₂e emissions reductions.⁸
- 20% energy savings for small business owners.
- 50% of businesses receiving energy upgrades are owned by people who belong to historically under-resourced groups.

INVESTMENT STRATEGY

Over five years, PCEF will invest \$25 million in appliance replacements for 75 businesses with a maximum PCEF investment of \$100,000 per business, and clean energy upgrades in 65 small commercial buildings with a maximum PCEF investment of \$200,000 per building. This program will prioritize investment in businesses in high energy use sectors with high energy savings opportunities such as food service, food sales, small manufacturing, lodging, and laundromats. Outreach will also be designed to reach businesses providing services to vulnerable populations such as children, seniors, and people living with disabilities.

Building owners will be required to provide 25% match for building upgrades. Property owner match can be from any source including utility, state, and federal programs, and PCEF-supported financing or other finance products. Energy assessments to determine the highest efficiency solution will be required for both building improvements and high efficiency appliances.

ELIGIBILITY FOR ADMINISTRATION

This strategic program may be administered by another government entity based on the availability of complementary services that enhance program delivery and support mission alignment with the purpose of this strategic program.

Who may apply:

- Nonprofit organizations.
- For-profit organizations
- Government organizations.

⁸ Electricity savings from whole building retrofits are estimated based on similar small commercial programs in the region such as Puget Sound Energy's Small Business Direct Install program and PacifiCorp's PacifiCorp Small Business Enhanced Incentive program. Natural gas savings from retrofits and dual fuel savings from appliance upgrades are estimated by assuming a portion of program participants will electrify or upgrade space heating, cooking, and refrigeration and incorporating data from the Commercial Buildings Energy Consumption Survey (CBECS) and a Department of Energy's Energy Savings Potential and RD&D Opportunities for Commercial Building Appliances (2015 Update).

Applicants must provide the following program needs:

- Marketing and targeted outreach.
- Project development and management.
- Energy assessment and analysis.
- Vendor relationship development.
- Collaboration with other funding and financing resources.
- Delivery of low burden, turnkey projects to businesses and building owners.



“Small businesses often operate on tight margins and may be more vulnerable to the impacts of climate change. Many small businesses are also still emerging from financial hardships caused by the pandemic.”

Strategic program 5: Building upgrades for community severe weather response

FIVE-YEAR FUNDING ALLOCATION: \$30,000,000

DESCRIPTION

This program will fund building energy upgrades for sites owned and/or managed by eligible government entities and nonprofit organizations that make a long-term commitment to provide critical services during severe weather-related events. These may include high heat events, snowstorms, and wildfire smoke events. Types of upgrades may include solar installations; battery backup; and high-efficiency heating, cooling, and air filtration systems. Grant funding will primarily pay for physical improvements to buildings. Additional eligible expenses will include program planning; system design; coordination and outreach activities; and life, health, and safety improvements, including seismic upgrades and improvements to increase disability accessibility. By investing in these building energy upgrades, Portland community members will have improved access to resilient spaces for severe weather-related events.

OUTCOMES

- Expand total number of buildings in Portland that provide critical services to the public during severe weather-related events.
- Improve building efficiency, access to heating/cooling, continuity of service during power outages, and air quality.
- Improve geographic distribution of locations providing critical services during severe weather-related events.
- Increase community and culturally specific accessibility for people seeking critical services during severe weather-related events.
- Increase number of buildings with disability accessibility that provide critical services during severe weather-related events.

GOAL MEASURES

- Increase percent of Portland community members with neighborhood access to shelter and services during severe weather-related events.
- Net zero CO₂e emissions.

The primary goal of this program to increase resilience for facilities used in climate emergencies. In many instances, this will involve upgrades that may increase the overall energy consumption of the building including improved ventilation and cooling, as well as other measures that have limited GHG reductions like battery systems. Setting a goal for net zero carbon emissions will enable maximum investment in resilience measures. In all instances, these will be paired with energy efficiency and/or

renewable energy measures to ensure, at a minimum, that the program does not result in increased GHG emissions.

INVESTMENT STRATEGY

Over five years, this program will invest \$30 million into government and nonprofit building upgrades. This grant opportunity will primarily be managed by PCEF staff. At least \$200,000 of this funding will be dedicated to technical assistance for applicants. Technical assistance will primarily consist of feasibility studies that will inform building selection and improvements. Up to 50% of the construction budget can be used for eligible non-energy life, health, safety, and accessibility upgrades (e.g., wheelchair ramps, seismic stability improvements). While most of the funding will be invested in physical improvements, a small portion of funds will be allocated for climate resilience-related planning and coordination expenses.

ELIGIBLE SITES

Sites under control of the following entities may apply for funding:

- Nonprofit organizations.
- Government organizations.

Must provide the following program needs:

- Own the site or hold an eligible long-term lease agreement.
- Have publicly accessible spaces within the building that could be used during climate-related disaster events.
- Be willing to commit to providing certain critical services required by the City during climate-related disaster events.

Additional priority will be given to:

- Organizations with a demonstrated history of serving people with disabilities.
- Organizations that can offer leverage of staff resources for programming activities during severe weather-related events.
- Buildings that are suitable for solar photovoltaic upgrades.
- Locations that provide overnight sheltering.
- Locations that improve the geographic distribution of buildings that provide critical services during severe weather-related events.



Transportation decarbonization

Transportation accounts for 42% of Multnomah County's carbon emissions making community-driven efforts to transition to an equitable, clean transportation system an essential part of the strategy to meet the City's climate goals.

To guide the new transportation decarbonization funding category, a PCEF-managed transportation workgroup will advise on community responsive grants and strategic programs for 24 months. The workgroup will use PCEF's equity + climate framework to provide input on strategic program RFPs, community engagement, and may assist in evaluation of transportation-related community responsive grant proposals. The workgroup is advisory to Bureau of Planning and Sustainability (BPS) and Portland Bureau of Transportation (PBOT) program decisionmakers and is intended to foster more equitable outcomes as the program is being delivered. The workgroup will be supported by a strategy team composed of staff from BPS/PCEF, PBOT, and at least one community-based organization representative to help facilitate discussions.

In addition to PCEF priority populations, the transportation decarbonization funding category also prioritizes youth and disability inclusion to promote equitable access to transportation benefits, particularly for those with mobility challenges, and leverages the potential for long-lasting carbon reductions through education and behavior change among youth.

Community responsive grants – transportation decarbonization

TOTAL FIVE-YEAR FUNDING ALLOCATION: \$35,000,000

Transportation decarbonization is a new funding category for PCEF. There will be an emphasis on planning grants in transportation decarbonization community responsive grants during the first two years to support future project development. Planning grants will help nonprofit organizations identify community transportation needs and solutions and prepare them to implement sustainable projects.

Examples of potential transportation decarbonization projects under community responsive grants include:

- Programming, including education and outreach, that expands access to and promotes sustainable transportation modes. These include walking, biking, public transportation, carpooling, and electric vehicle usage.
- Electric vehicle car share program at an affordable housing site or bike-sharing program at a community center.
- Switching an organization's high-mileage, shared vehicles to electric vehicles (e.g., vans for school programs serving low-income youth or community transportation services for priority populations).

- Charging infrastructure that is equitable, convenient, reliable, affordable, safe, and accessible.
- Community-centered transportation planning processes that focus on the needs of priority populations.
- Other transportation decarbonization projects that reduce GHG emissions, advance racial and social justice, and do not fall within one of the strategic programs defined below.

Grant proposals may allocate up to 40% of their budget toward eligible life, health, safety infrastructure, and accessibility upgrades (e.g., traffic calming planters, walking paths) necessary for the project. For any projects impacting the public right-of-way, consultation with PBOT staff will be required prior to grant submittal to ensure feasibility and compatibility with plans, safety standards, and other factors related to the public right-of-way.

GOAL MEASURES

- 25,000 MT lifetime CO₂e emissions reduced.⁹

Table 6. Strategic programs – transportation decarbonization.

Strategic program name	Five-year funding allocation
SP 6: Comprehensive e-bike access and support	\$20,000,000
SP 7: Equitable clean transportation access	\$25,000,000

Strategic program 6: Comprehensive e-bike access and support

FIVE-YEAR FUNDING ALLOCATION: \$20,000,000

DESCRIPTION

Electric bicycles or “e-bikes” remove significant barriers to cycling by providing electric motor assistance to the rider. They can provide enhanced transportation options for people to commute to work, run errands, or engage in delivery services. E-bikes provide an efficient way to get around Portland, are not subject to vehicle congestion, do not require much physical exertion, offer trip flexibility, and offer dramatic cost savings with similar or faster times than driving or other modes. Use of e-bikes as an alternative to driving vehicles reduces transportation related carbon emissions and improves air quality. Women and BIPOC community members have stated through surveys that they feel less vulnerable on e-bikes than on pedal-only bicycles. There are different styles and models of e-bikes on the market,

⁹ Emissions savings estimated based on the expected number of electric vehicles replacing gas-powered Class 2 and 3 commercial vehicles and light-duty passenger vehicles used for commercial purposes. Fuel efficiency and annual vehicle miles travelled data were sourced from the Alternative Fuels Data Center (AFDC) and International Council on Clean Transportation (ICCT). While planning projects are not associated with direct CO₂ savings, other implementation projects will generate additional CO₂ savings, but insufficient project details are available to generate useful estimates at this time. GHG reductions will be managed across the portfolio of community responsive grants in order to meet the goal.

including cargo and adaptive mobility versions for people with disabilities. Lessons from other municipalities around the country that have successfully launched e-bike rebate programs have been incorporated into the design of this program.

The high initial cost of e-bikes (typically starting at \$1,500) puts them out of reach for many low-income households. Community education and incentives are needed to provide equitable access to e-bikes, as well as access to safety equipment, lighting, weatherproof gear, charging infrastructure, secure storage areas, and locks.

OUTCOMES

- Significantly higher utilization of e-bikes by PCEF priority populations.
- Improved access and awareness about e-bike mobility options.
- Reduced GHG emissions from single-occupant vehicle use.
- Increased mental and physical well-being due to greater outdoor physical activity.
- Increased workforce opportunities in the sales and service of e-bikes at bike retailers throughout Portland.

GOAL MEASURES

- An additional 6,000 e-bikes and e-cargo bikes in use over the five-year period by PCEF priority population members generating an estimated 6,000 – 17,000 MT lifetime CO₂e emissions reduction.¹⁰

INVESTMENT STRATEGY

Income-qualified households will receive rebates for new e-bike and cargo e-bike purchases to be redeemed at local bike retailers. Participating bike retailers will need be physically located within Portland and provide both sales and repair services to be eligible to accept rebates.

Cargo e-bikes and adaptive electric bikes will receive a higher incentive. People receiving rebates will also be able to use a fixed amount of funds for bike safety equipment, locks, and gear.

The exact rebate amounts will be determined through market research, evaluation of needs, and interaction with other potential programs. There are active efforts at the Oregon state legislature and federal government to create rebate or tax credit mechanisms, though the future of those efforts is currently not known. Estimates for the purposes of this CIP do not account for presence of other incentive programs.

¹⁰ Emissions savings based on Portland State University study on e-bikes "The E-Bike Potential: Estimating the Effect of E-Bikes on Person Miles Travelled and Greenhouse Gas Emissions". This study produced low, mid and high range estimates for CO₂ reduction per e-bike user. PCEF goal range for the program are based on the mid and high range estimates.

The rebate program will be implemented in parallel with education and outreach by community-based organizations to PCEF priority populations about the e-bike opportunity, including information about safe riding, route-finding, charging, and storage. Surveys and data will be collected about e-bike use, storage, and charging. An early program evaluation will include recommendations for a pilot program for allocating funds for safe e-bike storage and charging needs for existing multifamily properties.

Retail bike shops in Portland will participate in the e-bike rebate program through an application process that requires reporting of the redemption of rebates, tracking of e-bike models and volume sold, and commitments to provide maintenance and repair services for e-bikes sold.

ELIGIBILITY FOR ADMINISTRATION

Who may apply:

- Nonprofit organizations.
- For-profit organizations.
- Government organizations.

Eligible applicants may apply to fulfill one or more of the following program roles:

- Program administrator. Responsibilities include:
 - Program development and contract management.
 - Marketing.
 - Income qualification and rebate issuance to qualified Portlanders.
 - Rebate tracking and analysis.
 - Vendor relationship management.
- Culturally responsive outreach and education.
- Workforce development.

Further clarity of roles and eligibility for this program will be informed by the transportation decarbonization workgroup.

PROGRAM-SPECIFIC WORKFORCE AND CONTRACTOR EQUITY CONSIDERATIONS

In addition to program-wide workforce and contractor goals and requirements, this strategic program has additional program-specific investment described below.

Allocation: \$600,000

WORKFORCE AND CONTRACTOR DEVELOPMENT INVESTMENT GOALS

- Training and retention grants for up to 50 new e-bike mechanics.

“Women and BIPOC community members have stated through surveys that they feel less vulnerable on e-bikes.”



Strategic program 7: Equitable clean transportation access

FIVE-YEAR FUNDING ALLOCATION: \$25,000,000

DESCRIPTION

Accessible and affordable transportation is vital to fulfilling basic needs such as medical care, food, shelter, job opportunities, and social activities. Transportation costs are often a significant expense, especially for low-income households residing in areas with limited access to transportation options. To address this issue transportation incentive programs, like PBOT's Transportation Wallet Access for All (AFA) program, have been implemented across the nation. These programs reduce transportation costs, promote sustainable modes of transportation and decrease carbon emissions.

This program expands PBOT's Transportation Wallet AFA program by offering qualifying participants a package of free transportation options such as public transit passes, bike share (BIKETOWN), e-scooter ride credit, and ride-hailing (Uber/Lyft) or taxi credit. The program allows participants to choose transportation options that meet their individual needs with an emphasis on low-carbon transportation modes. Ride-hailing and taxi services are included to meet user needs, serving as a valuable mode for one-off trips due to unexpected or essential travel needs and/or the lack of other transportation options. A PBOT evaluation shows that of the 52% of participants opting to using ride-hail services, most were taking only between 1-5 of these types of trips while using public transportation as their daily mode of travel.

To increase accessibility of this program for individuals experiencing mobility challenges, the program includes options for using transportation credits for TriMet Lift (paratransit program), adaptive BIKETOWN rides, and on-demand rides for people using mobility devices through taxi, Uber, and Lyft. Information on how to access adaptive BIKETOWN and on-demand rides through the [PDX WAV](#) program will be made available.

This program builds on the success of past iterations, including two phases of the Transportation Wallet for Affordable Housing pilot program managed by PBOT in partnership with affordable housing sites. Participants of the pilot had increased usage of sustainable modes of transportation, including public transit and biking, an improved sense of safety through the accessibility of increased travel modes, and reduced travel-related stress. Similar programs operating in Oakland and south Los Angeles have shown comparable outcomes including a reduction of drive-alone trips.

OUTCOMES

- Reduction in fossil fuel based single-occupancy trips through increased usage of shared mobility services (bikeshare, electric scooters, etc.).
- Reduction in carbon emissions.

- Increased travel options and services to connect people to jobs, healthcare, education, and social opportunities.
- Increased resilience in climate-impacted neighborhoods.
- Reduced financial barriers to accessing jobs, food, and healthcare.

GOAL MEASURES

- 15,000 – 20,000 PCEF priority population community members with increased access to clean transportation options resulting in a 15,000 - 21,000 MT CO₂e reduced over 5-year program.¹¹
- Increased percentage of use of low or zero-carbon transportation options.

PROGRAM ADMINISTRATION

PBOT, the current program administrator, will continue to manage the Transportation Wallet AFA program as they have the infrastructure and expertise to expand and improve the program. Partnership with community-based nonprofit organizations with deep roots and a proven track record in the community is essential for effective enrollment and engagement of participants.



“An evaluation of the Transportation Wallet program showed that participants had increased usage of sustainable modes of transportation including public transit and biking, improved sense of safety through the accessibility of increased travel modes, and reduced travel-related stress.”



¹¹ Emissions savings estimated based on reduction in car usage from a similar program in Oakland (Universal Basic Mobility Pilot), average daily vehicle miles travelled from Oregon Metro reporting, and average fuel economy from the Alternative Fuels Data Center (AFDC).



Green infrastructure

Green infrastructure presents a unique opportunity for carbon sequestration (i.e., removing carbon from the atmosphere). To reach the City's 2050 climate goals, carbon sequestration is necessary. Green infrastructure also provides an array of climate co-benefits, including increased shade and cooling, improved air quality, stormwater mitigation, and wildlife habitat.

Community responsive grants – green infrastructure

FIVE-YEAR FUNDING ALLOCATION: \$7,200,000

\$5 million general allocation. Green infrastructure focused community responsive grants are intended to capture investments in urban tree canopy expansion efforts, bioswales, depaving, and other projects that use vegetation, soils, and other elements to sequester carbon emissions. These grants are intended to support projects that do not fall within other programs defined below.

\$2.2 million 82nd Avenue allocation. As part of SP 11: 82nd Avenue climate infrastructure and community resilience grants, an additional \$2.2 million is allocated for community responsive grants for green infrastructure projects located within 0.25 mile west and 0.5 mile east of the 82nd Avenue.

GOAL MEASURES

- 9,000 MT lifetime CO₂e emissions sequestered.¹²

Table 7. Strategic programs – green infrastructure.

Strategic program name	Five-year funding allocation
Tree canopy maintenance reserve	\$5,000,000
SP 8: Equitable tree canopy	\$40,000,000

¹² Projects modelled include rain gardens and bioswales, pervious pavement, green roofs, and urban trees. Sequestered and avoided CO₂ values are based on "Economic Benefit Values for Green Infrastructure" (FEMA), "Cost Benefit Evaluation of Ecoroofs 2008" (City of Portland's Bureau of Environmental Services), and "Green Infrastructure Benefits Valuation Tool" (Earth Economics). Establishment care is covered by the program for the first 5 years. GHG reductions will be managed across the portfolio of community responsive grants in order to meet the goal.

Tree canopy maintenance reserve

FIVE-YEAR FUNDING ALLOCATION: \$5,000,000

DESCRIPTION

This program area will allow low-income property owners to access funds for the maintenance of existing established street trees. The fund will help reduce cost and burden associated with tree care for lower-income households and ensure that existing trees throughout the city receive professional health and safety assessment, pruning, and if needed, removal and replanting.

The program will be administered by Portland Parks and Recreation's Urban Forestry division (PP&R), with input on program design from the stakeholder workgroup that will be convened for the Equitable Tree Canopy strategic program.

OUTCOMES

- Enhanced carbon sequestration in urban canopy.
- Maintain full ecological benefit of established trees.
- Reduction in barriers to planting trees in under-resourced areas.
- Healthier and more resilient urban canopy that can better withstand the impacts of climate change.

GOAL MEASURES

- 7,000 to 17,000 low-income households receiving critical tree pruning services resulting in 10,000 - 30,000 MT lifetime CO₂e emissions sequestered.^{13,14}
- \$1.2 - \$3 million in deferred tree removal costs.

INVESTMENT STRATEGY

Income-qualified households anywhere in Portland will be eligible to request evaluation and pruning of street trees to maintain a healthy urban canopy, based on the following:

- 100% pruning costs covered for owner-occupied homes with income up to 100% AMI, prioritizing lower income households.

¹³ The range of number of households served is broad to acknowledge wide variations in the cost of different services that will be available through the tree maintenance fund.

¹⁴ Additional carbon sequestration estimated for increase in tree lifespan due to proper maintenance. Lifespan increases range from 15%-100% for street trees based on accepted research and internal subject matter expertise. Note that this five-year iteration of the tree maintenance reserve will only fund the first instance of maintenance for selected street trees, but the goals assume this maintenance will continue with future funds from the tree maintenance reserve. Estimated cost of tree maintenance may be updated pending future conversations with the Urban Forestry Division.

- The program will prioritize funding availability for households with <80% AMI.

PROGRAM ADMINISTRATION AND ADDITIONAL ROLES

PP&R will administer this program. Critical implementation roles that will be subcontracted include arboriculture services by nonprofit and/or for-profit entities.

PROGRAM-SPECIFIC WORKFORCE AND CONTRACTOR EQUITY CONSIDERATIONS

In addition to program-wide workforce and contractor goals and requirements, this strategic program has additional program-specific investment described below.

Allocation: \$250,000

WORKFORCE AND CONTRACTOR DEVELOPMENT INVESTMENT GOALS

- 300 – 400 hours of arboriculture-related technical mentorship for contractors.
- Hiring and retention grants for up to 15 new arboriculturists.



“In order to reach the City’s 2050 climate goals, carbon sequestration is essential.”



Strategic program 8: Equitable tree canopy

FIVE-YEAR FUNDING ALLOCATION: \$40,000,000

DESCRIPTION

The equitable tree canopy, one of [two fast tracked programs](#) in the CIP, will work in Portland’s most heat-vulnerable neighborhoods to equitably plant and establish at least 15,000 – 25,000 trees on public and private property. The program will establish trees over a five-year post planting period, track health and wellness of a meaningful sample of planted trees, build lasting relationships with community-based organizations, and offer tree care resources and communication to tree recipients. As part of this effort, the program will also support the development of a diverse, well-trained workforce and contracting community for tree planting and maintenance.

OUTCOMES

- Improved air quality, community health, and well-being.
- Reduced urban heat island effect in low canopy areas.
- Increased carbon sequestration.
- Improved urban stormwater management.
- Greater community cohesion.

GOAL MEASURES

- 15,000 – 25,000 trees planted sequestering 18,000 - 30,000 MT lifetime CO₂e emissions.¹⁵

INVESTMENT STRATEGY

Over the course of the five-year CIP, the equitable tree canopy program will plant up to 25,000 trees on public property (i.e., street trees) and private property (i.e., yard trees) in shade-deficient areas. The program will use both opt-in and opt-out delivery models, with a strong focus on the opt-in approach. While some trees will be distributed through community tree giveaways, most will receive professional tree planting and establishment care. This care includes at least 100 tree visits over five years, involving watering, mulching, pruning, and other tree-establishment related care.

¹⁵ Species distribution based on historical planting by Urban Forestry. Carbon sequestration and avoided carbon calculated with iTree Planting for an assumed mix of yard and street trees.

PROGRAM ADMINISTRATION

PP&R will oversee the program, leveraging their experience and well-aligned tree planting programs in public and private spaces. Effective implementation will require close collaboration with community-based nonprofit organizations that have deep roots and a proven track record in the community.

A PCEF-managed workgroup comprised of PP&R staff, PCEF staff, Bureau of Environmental Services staff, an Urban Forestry Commission member, a PCEF Committee member, academic faculty, implementation partners, and community stakeholders will be convened to provide regular advice on program implementation.

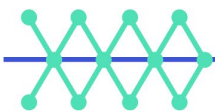
ELIGIBILITY FOR ADMINISTRATION

- PP&R.

PROGRAM-SPECIFIC WORKFORCE AND CONTRACTOR EQUITY CONSIDERATIONS

The Equitable Tree Canopy workgroup will advise on how optimally to distribute workforce and contractor development resources to support a strong, diverse workforce and contracting pool.

Allocation: \$2,000,000





Regenerative agriculture

Regenerative agriculture supports the City’s carbon sequestration efforts through agricultural practices that increase the capacity of soils to store carbon by rebuilding soil organic matter and restoring degraded soil biodiversity. Regenerative agriculture provides numerous co-benefits including providing greater locally produced, lower carbon-intensive foods and traditionally important fibers and materials, improved accessibility to healthier foods and cultural practices, and greater support of community-based food systems. In order to better understand the urban agricultural ecosystem and potential within the city of Portland, PCEF will support a collaborative research, planning, and community engagement process in the first two years of the CIP.

Community responsive grants - regenerative agriculture

FIVE-YEAR FUNDING ALLOCATION: \$14,000,000

DESCRIPTION

Regenerative agriculture focused community responsive grants will support community-led projects that expand opportunities for cultivation of local food, fibers, and materials on urban farms, backyard gardens, and community gardens; and increase the use of public and private land for growing food and materials. These grants are intended to support projects that do not fall within the strategic program defined below.

Table 8. Strategic programs – regenerative agriculture.

Strategic program name	Five-year funding allocation
SP 9: Increasing access to urban regenerative agriculture opportunities - planning and land acquisition	\$6,000,000

Strategic program 9: Increasing access to urban regenerative agriculture opportunities - planning and land acquisition

FIVE-YEAR FUNDING ALLOCATION: \$6,000,000

DESCRIPTION

This program area includes an investment strategy to increase community-based organizations' outcomes and capacity in regenerative agriculture, land stewardship, and land ownership. It will support the acquisition, site development, and early management of two to three regenerative agriculture sites of at least 20,000 square feet each, sequestering carbon, increasing the city's open space and agricultural land base, and fostering greater community-based materials and food production. These investments may utilize a community land trust, cooperative, or other alternative ownership models to provide community-based organizations equitable long-term access to land.

OUTCOMES

- Healthier soils with greater carbon sequestration capacity.
- More locally-produced, lower-carbon intensity foods and culturally important fibers, medicines, and materials
- Increased accessibility to healthy foods and cultural practices for PCEF priority populations.
- Increased opportunities for building relationships with the land for PCEF priority populations.

GOAL MEASURES

- At least 40,000 square feet of land dedicated long-term for regenerative urban farming.

INVESTMENT STRATEGY

Through a competitive solicitation, the program will select proposals from organizations seeking to further their regenerative agriculture efforts. Program participants will be evaluated for organizational capacity in regenerative agriculture practices, land stewardship, and land ownership. Organizations demonstrating capacity will be supported in acquiring, developing, conducting site preparation, and managing urban farming plots of at least 20,000 sq. ft. each.

ELIGIBILITY FOR PARTICIPATION

Who may apply:

- Nonprofit organizations.

Additional priority given to:

- Organizations that have demonstrated experience promoting and advancing regenerative agriculture in PCEF priority populations.



Organizational capacity building

Organizational capacity building is a new funding category intended to support nonprofit organizations focused on climate action to obtain resources (e.g., trainings, technical assistance, consultation, staff support, etc.) to increase climate program delivery. By improving their operational, programmatic, and financial capacities, nonprofit organizations can enhance their ability to manage funding, track data, build a skilled workforce, and ultimately make a greater impact on addressing climate change.

Organizational capacity building resources are offered through a few different avenues: the mini grant program, the community based organization (CBO) capacity building program, and through resources and services that will be available for PCEF grantees of the community responsive grant program with identified capacity needs.

COMMUNITY RESPONSIVE GRANTS - MINI GRANT PROGRAM

FIVE-YEAR FUNDING ALLOCATION: \$1,300,000

DESCRIPTION

Launched in August 2021, the PCEF mini grant program aims to reduce barriers for organizations engaging in work that addresses climate change while advancing racial and social justice. The program offers a quarterly grant opportunity that is responsive to small, time-sensitive funding needs through a simple application.

OUTCOMES

- Increase number of nonprofits doing work that addresses climate change in the city of Portland.
- Provide a low-barrier funding opportunity that prioritizes small organizations doing climate work and serving PCEF priority populations.
- Support small and emerging community-based organizations to access other PCEF funding opportunities.

GOAL MEASURES

- 200 nonprofit organizations have accessed time-sensitive funding for small projects and activities that address climate change while advancing racial and social justice.

INVESTMENT STRATEGY

- *\$1 million general mini-grant allocation.* Over five years, the program will distribute \$1,000,000 in grant funding. The mini grant program has a total annual budget of \$200,000. The grant

opportunity is run quarterly with \$50,000 in grant funds available each quarter. Applicants can apply for one grant of up to \$5,000 per quarter.

- *\$300,000 82nd Avenue allocation.* As part of SP 11: 82nd Avenue climate infrastructure and community resilience grant program, an additional \$300,000 will be allocated for mini grant projects located within 0.25 mile west and 0.5 mile east of the 82nd Avenue.

ELIGIBILITY FOR MINI GRANT FUNDING

Who may apply:

- Nonprofit organizations.
- Nonprofit organization fiscal sponsors.

Additional priority given to:

- Small organizations that are doing climate work and serving PCEF’s priority populations.



“The PCEF mini grant program aims to reduce barriers for organizations engaging in work that addresses climate change while advancing racial and social justice.”

Table 9. Strategic programs – organizational capacity building.

Strategic program name	Five-year funding allocation
SP 10: Community-Based Organization (CBO) capacity building program	\$10,000,000

Strategic program 10: Community-Based Organization (CBO) capacity building program

FIVE-YEAR FUNDING ALLOCATION: \$10,000,000

DESCRIPTION

This program will offer a multi-year cohort program for CBOs that includes training, technical assistance, consultation, operational funding, staff support, and other resources. The program seeks to enhance organizations' internal operational effectiveness, leading to improved outcomes in their climate-action projects and programs. The CBO capacity building program will equip organizations with resources and support to help them fulfill their mission and enabling us to achieve ours.

Organizations must demonstrate meaningful connection to addressing climate change, have a demonstrated history of advancing racial and social justice in its work and programming, and complete a capacity-needs assessment to ensure alignment with the types of support and services offered through the program.

A cohort will be selected whose composition reflects a diversity of organizations and capacity needs, has a strong connection between current work and climate-related activities and goals, and where PCEF funding and services will have the greatest impact on an organization's long-term capacity.

OUTCOMES

- Increase the number of effective nonprofit organizations advancing climate justice in Portland.
- Improve nonprofit cohort members' ability to address climate change.
- Improve nonprofit cohort members' service delivery for the communities they serve.

GOAL MEASURES

- Increase in organizational capacity – measured through an assessment that evaluates capacity changes of participating nonprofits working to address climate change while advancing racial and social justice.

INVESTMENT STRATEGY

Over five years, a total of \$7.5 million will be awarded to nonprofits participating in the CBO capacity building program. Each cohort will last three years, with a one-year overlap in cohorts. Each cohort will include 8-10 organizations, for a total of 16-20 organizations over five years. A total of \$2,500,000 will be awarded to contractors in direct support of program implementation activities.

ELIGIBILITY FOR PARTICIPATION

Who may apply:

- Nonprofit organizations focused on climate action.
- Nonprofit organization fiscal sponsors who are supporting community groups focused on climate action.

Additional priority given to:

- Organizations whose capacity needs align with PCEF’s program offerings.



“The community-based organization capacity building program will equip organizations with resources and support to help them fulfill their mission and enabling us to achieve ours.”



COMMUNITY RESPONSIVE GRANTS – TECHNICAL ASSISTANCE AND CAPACITY BUILDING
FIVE-YEAR FUNDING ALLOCATION: UP TO \$5,000,000

PCEF anticipates that some organizations selected to receive grant funding through community responsive grant opportunities will have technical assistance and organizational capacity needs. Up to \$1 million per year for the five-year CIP period will be allocated to provide technical assistance and capacity building support to grantee organizations in need. These funds are included in the total community responsive grant fund allocation and do not constitute a stand-alone grant program. The purpose of these investments is to offer a wide range of expert support to organizations in successfully implementing their climate projects (e.g., capacity building support from a human resource professional to guide in hiring, accounting and bookkeeping consultation and training, organizational development consulting, etc.).





Multiple funding categories/other carbon emissions reducing projects

This category captures projects and programs that do not clearly fall under an existing funding area or spans multiple funding areas.

Community responsive grants – other carbon reducing projects

FIVE-YEAR FUNDING ALLOCATION: \$2,000,000

DESCRIPTION

Other carbon reducing/sequestering community responsive grant projects include projects that do not fall under other PCEF code funding categories but provide meaningful and measurable carbon reduction or sequestration, prioritizing those that provide benefits to PCEF priority populations. An example may include projects that promote sustainable materials management that results in reduced lifecycle carbon emissions and increased recycled materials.

METRICS TRACKED

- Total GHG emissions reduced or sequestered.
- Percent or number of PCEF priority population members benefited.

Table 10. Strategic programs – multiple funding categories/other carbon emissions reducing projects.

Strategic program name	Five-year funding allocation
SP 11: 82nd Avenue climate infrastructure and community resilience grants	\$5,000,000
SP 12: 82nd Avenue street tree expansion	\$5,000,000
SP 13: Targeted electric vehicle financing tools	\$35,000,000
SP 14: Access to fair and flexible capital	\$45,000,000
SP 15: Federal climate and equity funding opportunities	\$20,000,000
SP 16: Climate-friendly public schools	\$50,000,000

Low-carbon, equitable 82nd Avenue corridor

The 82nd Avenue corridor strategic program is PCEF's first and only geographically-focused investment, leveraging the opportunity presented by the recent jurisdictional transfer of the corridor to the City of Portland. This transfer, which was made possible by years of work by community leaders and elected officials, commits \$185 million to safety improvements to the corridor allowing PCEF to enhance ongoing efforts to create a low-carbon and equitable 82nd Avenue corridor.

This program will invest in two strategic programs to support community stabilization through a climate resilience and justice approach: (1) climate resilience initiative, which infuses additional resources to existing grant programs for nonprofits and businesses to support climate efforts, and (2) street tree expansion, which will create spaces for trees and plant trees on the corridor to mitigate the urban heat island effect. These two programs balance fulfilling a highly expressed community need for trees in the corridor, while also nurturing and empowering the leadership of community groups and businesses in climate action efforts. Business stabilization was also identified as a priority during community feedback.

The strategies were developed based on valuable insights from community roundtables, public comments, and planning documents. These documents include the 82nd Avenue Corridor Atlas (2023), the 82nd Avenue Study: Understanding Barriers to Development (2019), and the Jade District Visioning Plan (2014). These strategies complement PBOT investments for near-term critical fixes occurring by 2027 and leverage \$2.5 million from the American Rescue Plan Act, including \$640,000 of investments for small business and resident stabilization by Prosper Portland, PHB, and PBOT.

Strategic program 11: 82nd Avenue climate infrastructure and community resilience grant program

FIVE-YEAR FUNDING ALLOCATION: \$5,000,000

DESCRIPTION AND INVESTMENT STRATEGY

This program supports and develops existing community and business leadership in the 82nd Avenue corridor to enhance the ability of current residents and business to deal with and alleviate the impacts of climate change. PCEF will allocate funding to grant programs that will reach target beneficiaries through outreach and marketing efforts. By linking community organizations and businesses with existing programs, they will be positioned to continue to utilize these resources and build stronger networks that will last well beyond this investment timeline.

Program objectives:

- Residents, nonprofits, and businesses will participate in climate-action efforts.
- Improve the overall climate resilience of existing residents and businesses.
- Increase community engagement and awareness of climate issues and solutions.

Funding will be allocated to existing programs.

- *\$2.5 million to two PCEF grant programs.* \$2.2 million will be allocated as additional funding for community responsive grants for green infrastructure projects located within 0.25 mile west and 0.5 mile east of the 82nd Avenue corridor. \$300,000 will be set aside as additional funding for PCEF mini grants to fund small-scale projects that help build community resilience and address the impacts of climate change in historically underserved communities.
- *\$2.5 million to Prosper Portland.* \$2.5 million for grants and associated administrative costs as part of Prosper Portland’s business stabilization efforts on the 82nd Avenue corridor (\$2.2 million) and community event grants program (\$300,000). Business grants will fund physical improvement projects that mitigate the effects of climate change and accelerate the corridor’s transition to clean energy. Proposals may include planning, or implementing building energy efficiency upgrades; electric mobility infrastructure, or depaving for green infrastructure. Eligible project expenses may include coordination and outreach activities; life, health, and safety improvements; technical assistance; and improvements to increase accessibility for people with disabilities. Community event grant recipients will promote relevant PCEF programs to attendees.

Preference will be given to projects in neighborhoods with greater proportions of PCEF priority populations including areas around Roseway, Lents, and neighborhoods east of 82nd Avenue.

Outreach and marketing to individuals, nonprofit organizations, and businesses within the 82nd Avenue corridor will be made to promote the availability of this funding, as well as funding from other PCEF programs including:

- SP 2: Clean energy in unregulated multifamily housing;
- SP 3: Clean energy improvements in single-family homes; and
- SP 4: Clean energy in small commercial buildings.

Additional outreach and marketing efforts will be made to encourage individuals, nonprofit organizations, and businesses within the 82nd Avenue corridor to apply.

OUTCOMES

- Community events featuring climate resiliency.
- Mini grant projects related to climate resiliency.
- Commercial buildings in corridor receive clean energy improvements.
- Business owners receive high efficiency appliances/equipment.
- Decreased paved areas and increased private property trees.
- Increased electric mobility charging options along 82nd Avenue corridor.
- Culturally relevant businesses are preserved, stabilized, and/or growing.

GOAL MEASURES

- 5,000 MT lifetime CO₂e emissions reduced and sequestered.¹⁶
- 12 businesses owned by people who are members of historically under-resourced groups are preserved, stabilized, and/or growing.

ELIGIBILITY FOR FUNDING

Who may apply:

- Nonprofit organizations may apply for PCEF community responsive grant program, PCEF mini grant program, and Prosper Portland’s community event grant program focused on 82nd Avenue.
- For-profit organizations may apply for Prosper Portland’s business grants and community event grant program focused on 82nd Avenue.

Additional priority given to:

- Projects that use universal design principles to increase accessibility.
- Projects located in areas with a higher density of people who are members of historically under-resourced groups, specifically in Roseway, Lents, and neighborhoods east of 82nd Avenue.

¹⁶ Refer to footnotes for community responsive grants – green infrastructure and SP 4: Clean energy in small commercial buildings as similar method was used.

Strategic program 12: 82nd Avenue street tree expansion

FIVE-YEAR FUNDING ALLOCATION: \$5,000,000

DESCRIPTION AND INVESTMENT STRATEGY

Increasing street trees along the 82nd Avenue corridor will address a key community priority and enhance investments in critical safety repairs made by PBOT.

Trees emerged as a top priority through robust community engagement efforts, including a 2022 survey that reached 1,900 residents and business owners along 82nd Avenue. Many communities of color and low-income households live in the corridor and have experienced some of the worst urban heat island effects from a lack of available space for trees in the right-of-way. This program will include investments that create space to plant street trees within the right-of-way along the corridor – one of the lowest areas for tree canopy coverage in the city.

Tree planting in the public right-of-way along 82nd Avenue and on intersecting side streets often requires widening curb-tight sidewalks to create space for planting trees in the furnishing zone. In some areas, trees can be planted in existing furnishing zones or in the curb zone (on-street parking) area next to the curb. This investment will arrive at a pivotal time for 82nd Avenue during PBOT's roadway paving, safety, and ADA accessibility compliance work, and will complement that work by investing in the sidewalk corridor and tree canopy.

PCEF's investment in street trees will fund approximately 2,500 linear feet (equivalent to thirteen 200-foot blocks) of sidewalk widening and tree planting along 82nd Avenue. In consultation with PP&R, the investment will prioritize large tree species to maximize shade potential.

The street tree expansion allocation creates a visible, lasting, positive impact on communities connected by 82nd Avenue and promotes improved tree survival by providing funding for five years of establishment care for newly planted street trees. It also complements other PCEF investments to increase canopy coverage along the 82nd Avenue corridor including SP 8: Equitable tree canopy and SP 11: Climate resilience initiative.

An equity lens will be applied to prioritize tree canopy investments to benefit PCEF priority populations. The program will work with community groups organized as part of the city planning effort for 82nd Avenue to develop site selection criteria and confirm community priorities regarding locations for tree planting. Engagements will occur through a series of forums including:

- The [82nd Avenue Community Coalition](#): a broad coalition of community members and representatives from CBOs with connections to issues of importance to 82nd Avenue communities. CBO members in the 82nd Avenue Community Coalition include APANO, Verde, Unite Oregon, and Oregon Walks.

- [PBOT’s Building a Better 82nd Avenue Community Advisory Group](#) (CAG): a group of 18 community members with diverse connections to 82nd Avenue.
- Summer/Fall 2023 Public Community Workshops jointly convened by PBOT, TriMet, and Metro for the purpose of collecting community feedback on options for future investment in safety, transit, and other community priorities for 82nd Avenue.
- Portland State University students from the Master of Urban and Regional Planning Workshop program developed a broader tree canopy investment strategy for the corridor as part of their capstone master’s project. The project included public involvement and analysis to determine priorities for sidewalk widening and tree planting along 82nd Avenue, including a comparison of alternative scenarios of investment in terms of cost per tree, equity benefits, and business impacts.

This investment will also improve health, safety, and livability for PCEF populations. According to a 2003 study, roadside greenery was found to facilitate relief from stress and fatigue, increasing people’s resilience to frustration and mitigate the aggravations of commuting. Also, studies show that street trees can help improve safety for both pedestrians and drivers by providing a clear demarcation of pedestrian zones and creating a visual wall that helps keep drivers on the roadway.

OUTCOMES

- Improved climate resilience infrastructure nearby and on 82nd Avenue.
- Carbon sequestration from street trees planted.
- Reduced urban heat island impact and improved air quality along 82nd Avenue corridor.

GOAL MEASURES

- 1,000 – 1,300 MT lifetime CO₂e emissions sequestered.¹⁷
- 2,500 linear feet of sidewalk with tree canopy.
- 75% of outreach, training and community engagement events focused on PCEF priority populations.

¹⁷ Species distribution based on historical planting by Urban Forestry. Carbon sequestration and avoided carbon calculated with iTree Planting for street trees.

ELIGIBILITY FOR ADMINISTRATION

The 82nd Avenue street tree expansion will be administered by PBOT in collaboration with Portland Parks and Recreation's Urban Forestry Division. PBOT has both the expertise and jurisdictional oversight in creating space for street trees in the public right-of-way, which will shade pedestrians, reduce the urban heat island effect, and sequester carbon. PBOT will be responsible for convening and consulting community stakeholders and reporting on program implementation.



“Trees emerged as a top priority through robust community engagement efforts, including a 2022 survey that reached 1,900 residents and business owners along 82nd Avenue.”



Strategic Program 13 – Targeted electric vehicle financing tools

FIVE-YEAR FUNDING ALLOCATION: \$35,000,000

DESCRIPTION

Electric vehicles (EVs) provide a significant opportunity to lower carbon emissions, reduce transportation costs, and reduce harmful pollution for PCEF priority populations, workers, and contractors in Portland. While there are incentives at the state and federal level for purchase of new and used EVs, there are still significant costs associated with purchase of EVs. Often, the most favorable interest rates and loan terms are out of reach for people and business owners of color and low-income communities.

Working with local lenders to reduce the total cost of purchasing EVs for people and businesses that drive high annual mileage for business, delivery, or commercial use can provide social and environmental benefit. Some financial institutions and credit unions have existing programs that provide a small interest rate reduction for EVs, and some nonprofits in the Portland area are offering small, matched savings accounts for vehicle purchases.

Deploying greater PCEF funds through reduced origination fees or interest rates, credit enhancement mechanisms, matched savings programs, conditional loan forgiveness, or lending pathways with flexible terms will provide access to EVs for PCEF priority populations. This funding area will target people and small businesses who have significant existing use of fossil-fueled vehicles in their current daily operations that could be replaced by EV usage. This includes ride-hailing drivers, food delivery services, wheelchair-accessible vans, non-emergency medical transport, and construction contractors working on PCEF projects. The financing mechanisms will be available for electric cars, trucks, vans, and commercial vehicles, as well as for e-cargo bikes or other vehicles that are not powered by internal combustion engines.

PCEF will offer funding to financial institutions and nonprofits to provide greater access to EVs at better terms than are commercially available.

Preference will be given to capital deployment and lending approaches that:

- Are developed in collaboration with community organizations and are responsive to culturally-specific needs.
- Deploy increased financial education and business technical support for PCEF priority populations.

OUTCOMES

- Reduced fossil fuel use through greater adoption and usage of EVs in commercial applications.
- Lower transportation operating costs for priority populations.
- Increased access to safe, clean transportation.

GOAL MEASURES

- 1,221,000 MT lifetime CO₂e emissions reduced.¹⁸
- 500 electric vehicles in operation for commercial use by businesses owned by people who are members of historically under-resourced groups.
- 50% loans to ride-hailing or delivery drivers will be made to members of historically under-resourced groups.

INVESTMENT STRATEGY

PCEF will solicit applications from financial institutions and nonprofit organizations to:

- Provide loans and matched savings tools for low- and moderate-income people, particularly those working in ride-hailing or delivery roles to purchase EVs and leverage federal and state incentives.
- Provide loans or financing tools for small businesses in Portland to purchase EVs for commercial use.

A market needs assessment, including expertise from eligible financial entities and community input, will be conducted to define additional priorities before the first RFP is released.

ELIGIBILITY FOR ADMINISTRATION

Who may apply:

- Nonprofit organizations with a track record of managing financial transactions.
- Entities registered as Community Development Financial Institutions (CDFIs).
- Cooperative credit unions.
- Banks with a physical branch presence in Portland.

All applicants must provide the following program needs:

- Manage consumer and/or business financial transactions.

Applicants will be encouraged to partner with community organizations on design, education, and implementation of lending programs.

¹⁸ Emissions savings estimated based on the expected number of electric vehicles replacing gas-powered Class 2 and 3 commercial vehicles. Fuel efficiency and annual vehicle miles travelled data were sourced from the Alternative Fuels Data Center (AFDC) and International Council on Clean Transportation (ICCT).

Strategic Program 14 - Access to fair and flexible capital

FIVE-YEAR FUNDING ALLOCATION: \$45,000,000

DESCRIPTION

Deploying funds through loans, credit line mechanisms, matched savings, or community funding pathways with flexible terms will help grow the number of climate-focused projects and businesses in Portland that serve PCEF priority populations. A legacy of discriminatory and predatory practices by traditional banking institutions have created distrust in many low-income, communities of color, and immigrant communities. Innovative financing tools are needed to address these disparities in ways that are flexible, responsive to the community, accountable, and fair.

PCEF can create equitable opportunities for lending and capital access in ways that leverage additional financial resources and enable people and businesses to access upcoming federal and state incentives. These incentives include rebates and tax credits authorized by the IRA, Energy Trust of Oregon rebates, and heat pump programs being launched in 2023 by the Oregon Department of Energy. Some of the residential energy efficiency and renewable energy opportunities for homeowners with incomes of 121-150% of AMI in the PCEF CIP require a 50% project cost match that would be integrated with this funding area. Access to capital will allow households and small businesses in Portland to make improvements to buildings and scale up their business operations for climate-related work and employment.

Through partnership with CDFIs, cooperative credit unions, local banks and community organizations, and public agencies with financing experience, PCEF will offer funding for projects that result in measurable carbon emissions reductions. Approaches may include low- to zero-interest loans, flexible repayment terms, community lending circles, property-assessed clean energy financing tools (i.e., PropertyFit), loan loss reserve mechanisms, conditional loan forgiveness, high-ratio matched savings accounts, credit enhancement mechanisms, culturally specific finance tools, and community-based education and support about financing options. A market needs assessment will be conducted prior to program launch to define the highest priority approaches and funding mechanisms for different sectors.

Preference will be given to capital deployment approaches that:

- Are developed in collaboration with community organizations and are responsive to culturally-specific needs.
- Demonstrate experience providing financial education and business technical assistance to PCEF priority populations.

OUTCOMES

- Increased investment in home and business energy upgrades.
- Increased workforce and business opportunities for people working in climate-related businesses.

GOAL MEASURES

- 24,000 - 28,000 MT lifetime CO₂e emissions reduced.¹⁹
- 50% of funds go to businesses owned by people who belong to historically under-resourced groups.

INVESTMENT STRATEGY

PCEF will solicit proposals from lending institutions nonprofit organizations and public agencies to:

- Provide loans and matched savings tools for low- and moderate-income homeowners to make energy-related improvements, fund critical home repairs, and leverage federal and state incentives.
- Provide loans for businesses, prioritizing small businesses, to make energy-related building improvements or purchase efficient equipment for commercial use.
- Provide loans, including lines of credit, for businesses owned by members of historically under-resourced groups that produce goods or services that reduce or sequester GHGs to scale up their business operations.

Partners will make funds available at terms that are flexible, low-cost, culturally responsive, and may include conditional forgiveness opportunities for meeting defined benchmarks.

A market needs assessment, including expertise from eligible financial entities and community input, will be conducted to define additional priorities and allocations before programs and RFPs are launched.

¹⁹ Emissions reductions only estimated for the first round of lending. Assumed 70% of loans will support participants in the strategic programs targeting the small commercial, unregulated multifamily, and single-family sectors, and savings from these loans are already captured in the goal measures in the respective programs. Remaining loans are assumed to support projects similar to those described in the small commercial, unregulated multifamily, and single-family strategic programs.

ELIGIBILITY FOR ROLES

Who may apply to administer funds:

- Nonprofit organizations with a track record of managing financial transactions.
- Entities registered as CDFIs.
- Cooperative credit unions.
- Lending institutions with a physical branch presence in Portland.
- Public agencies based in Portland with financing programs for commercial and multifamily properties.

All funding administrators must provide the following program needs:

- Manage consumer and/or business financial transactions.



“A legacy of discriminatory and predatory practices by traditional banking institutions have created distrust in many low-income, communities of color, and immigrant communities. Innovative financing tools are needed to address these disparities in ways that are flexible, responsive to the community, accountable, and fair.”



Strategic Program 15 – Federal climate and equity funding opportunities

FIVE-YEAR FUNDING ALLOCATION: \$20,000,000

DESCRIPTION

There are federal and state grant opportunities involving decarbonization, provision of public services, and social equity outcomes that can be applied for by municipal entities. Allowing City of Portland bureaus and offices to leverage PCEF funds for purpose-aligned projects will increase the impact of PCEF's resources and benefit to PCEF priority populations.

The next few years are a time of historic investment and opportunities in climate action, with billions of federal dollars available through dozens of programs and initiatives funded by the IRA and BIL. These include programs for building energy retrofits, climate resilience, and brownfield solar development through the Department of Energy; community-focused transportation safety infrastructure and decarbonization from the Department of Transportation; and pollution reduction and environmental justice efforts through the Environmental Protection Agency. The [Justice40 Initiative](#) being implemented at the federal level sets targets and approaches to ensure that funding reaches low-income census areas and provides good paying jobs. A primary pathway for accessing much of this funding is through grant applications from public entities.

Federal and state grant match funding requirements vary but are often in the range of 25-50% of requested funds. In addition to grant funding, through tax provisions passed in the IRA, municipal governments are now eligible to receive tax credits for energy-related projects through "direct-pay" mechanisms that allows tax-exempt entities to claim the value of a tax credit as a direct payment from the IRS. PCEF can fund projects that have clear social equity and community benefit outcomes and align with climate goals at a time when City budgets cannot otherwise support the match requirements.

To guide this City-focused funding category, a PCEF-managed rapid response workgroup will review grant opportunities, review requests for match funding, and make match funding awards. The workgroup will use the CIP's equity + climate framework to provide guidance in making match funding awards. The workgroup is intended to respond quickly to match funding requests (i.e., less than two-week turnaround for requests) in alignment with the equity + climate framework. The workgroup will not develop grant proposals or directly manage awarded funds. The workgroup will be composed of one person from each of the following: Office of Government Relations staff, PCEF staff, PCEF Committee member, BPS Climate policy staff, and Office of Management and Finance staff. The workgroup's decision-making approach will be determined at a later stage.

The workgroup must evaluate the following elements of the CIP's equity + climate framework when making match award decisions:

- *Benefits to frontline communities.* Will the program create clear, significant, and measurable benefit to frontline communities?

- *Community leadership.* Are there meaningful opportunities for community members to participate in decision making and/or provide leadership in program implementation? Does the program invest in building capacity within communities most impacted?
- *Implementation feasibility.* Can the program be realistically implemented at scale with existing City staff, partners, or contractors over five years?
- *Climate impact: GHG emission reductions.* Will the program result in meaningful and measurable GHG emission reductions/sequestration?
- *Accountability.* Do accountability mechanisms exist to ensure that communities of color, low-income populations, people with disabilities, and other vulnerable communities benefit from the strategic program? Is this program additional to existing or planned efforts?

OUTCOMES

- Increased City investment in decarbonizing buildings and infrastructure while reducing emissions throughout the city.
- City bureaus or offices requesting match funding must articulate additional draft outcomes in their request for match funding. Once applications are approved for federal or state funding, the receiving City bureau or office will be required to finalize outcomes prior to the disbursement of funds.

GOAL MEASURES

- City bureaus or offices requesting match funding must articulate draft goal measures in their request for match funding. Once applications are approved for federal or state funding, the receiving City bureau or office will be required to finalize specific investment goals prior to the disbursement of funds.

INVESTMENT STRATEGY

\$20 million in PCEF funds will be available to City bureaus or offices for the purpose of leveraging additional climate-related funding opportunities. Bureaus and offices will provide proposals with adequate time for review and consideration by the workgroup and indicate the amount of funding required and decision timeframe. The workgroup will review and determine funding allocations on a rolling basis using PCEF's equity + climate framework, recognizing the timeline needs for grant applications.

PCEF will maintain information about what portion of funds from this strategic program have been committed to grant opportunities, and what is available at a given time. Bureaus and offices applying for funds will communicate whether a grant application was awarded or not, and the available funding pool will be adjusted accordingly.

Upon successful award of a funding opportunity, funds would be transferred through Interagency Agreement (IAA) to the recipient bureau or office for implementation of the program or project. PCEF reporting guidelines will be adapted to meet the needs of specific funding requests to avoid duplication of reporting formats.

ELIGIBILITY FOR ROLES

Who may access funds:

- City of Portland bureaus and offices.



Strategic program 16: Climate-friendly public schools

FIVE-YEAR FUNDING ALLOCATION: \$50,000,000

DESCRIPTION

Youth will inherit the legacy of our decisions on climate and are demanding climate justice and government action to mitigate the catastrophic impacts of climate change.

There are 149 K-12 public schools in six school districts in the city of Portland. These school districts control significant assets in three categories relevant for PCEF funding: 1) buildings, 2) transportation, and 3) school yards. Most of this strategic program investment will be allocated amongst the school districts to implement physical infrastructure projects that reduce GHG emissions and improve climate resiliency. A smaller portion of the funding will be allocated to support student-led initiatives for five years at each middle and high school within the city of Portland.

- *Buildings.* School buildings represent millions of square feet of conditioned space, many in older, inefficient buildings with deferred maintenance. Improvements to school buildings are almost exclusively funded through voter-approved bonds. There is an opportunity to layer PCEF funding onto major improvements and maintenance funding to create higher efficiency, lower carbon schools and resilient buildings. As trusted community-centered places, building upgrades in schools may provide the opportunity to support community members during severe weather events.
- *Transportation.* School transportation also presents a significant carbon emissions and cost reduction opportunity. School busses in Portland are contracted or owned by the district and run primarily on diesel or propane with only a handful of EVs. Electrifying school busses has multiple benefits including reduced carbon emissions, improved air quality, and reduced operating and maintenance costs.
- *Yards.* School yards present an opportunity for green infrastructure for urban canopy, shade, and water management in a space used by both youth during the school day, and the surrounding community throughout the year.

A funding formula approach was used to determine a specific allocation for each school district. This amount must be used on qualifying schools, which are those located within the city of Portland. PCEF worked with school districts operating within Portland and the Oregon Department of Education’s (ODOE) student funding formula approach to allocate funding. The approach has been used since 1991 to allocate dollars to school districts to account for increased resources required for specific student needs, including economic disadvantage, special needs, and English language learners. While ODOE calculates funding allocations based on a per-pupil basis, PCEF calculates on a per-school basis recognizing PCEF’s investments are place-based.

The funding allocation percent is determined by taking the number of qualifying schools per district (schools with 50% or more of students qualifying for free and reduced lunch and Multnomah Education Service District schools), multiplying each school within the district by its respective weighted factor, and dividing by the total number of points across each school district. Three characteristics make up the weighted factor: geography (east of 82nd and 122nd), free and reduced lunch, and percent of BIPOC students (which are given an additional weight between 1 and 3).

Table 11. Climate friendly public schools allocation.

School district	Qualifying schools	Allocation for physical improvements (\$)	Middle and high schools in city (#)	Allocation for student-led initiatives (\$)
Centennial	4	\$4,617,500	1	\$75,000
David Douglas	12	\$11,736,146	4	\$300,000
Multnomah ESD	5	\$3,270,729	2	\$150,000
Parkrose	6	\$5,579,479	2	\$150,000
Portland Public Schools	30	\$16,930,833	40	\$3,000,000
Reynolds	3	\$4,040,313	0	\$150,000
Riverdale	0	\$0	2	\$75,000
TOTAL	60	\$46,175,000	51	\$3,825,000

OUTCOMES

- Schools serving PCEF priority populations reduce GHG emissions and are more climate resilient.
- Middle and high school students are engaged in leading climate action.

GOAL MEASURES

- 16,000 – 24,000 MT lifetime CO₂e emissions reduced.²⁰
- Student-led climate initiatives are active in all middle and high schools in Portland.

INVESTMENT STRATEGY

PCEF will allocate funding to each school district through a one-time award for physical improvements and an annual allocation for student-led initiatives.

Physical improvement allocation. After notice of funding amount, each school district will have two years to provide PCEF program staff with a proposal for use of their physical improvement allocation in qualifying schools including:

- Description of proposed clean energy, transportation, green infrastructure and/or regenerative agriculture measures, and estimates of associated GHG reduction.
- Workforce and contractor equity plan.
- Budget and timeline.

PCEF staff will review and approve proposed projects. Up to \$100,000 of each allocation can be used for project planning purposes (and up to \$150,000 if implementing a participatory budgeting process) and can be accessed prior to PCEF approval of the full project. All projects will require standard program reporting and verification based on project type.

²⁰ Building energy savings were estimated using cost per unit savings from energy upgrade data from SB 1149. Transportation emissions reductions were estimated assuming electric buses will replace diesel buses, using fuel efficiency data from the Environmental Protection Agency and Union of Concerned Scientists and average annual mileage of Portland Public School buses.

Student-led initiative allocation. Each school district will also receive an annual allocation of \$15,000 per year for schools with middle and high school grade levels including K-8, K-12, 6-8, and 8-12 in their district that fall within the city of Portland. This allocation is to fund student-led climate initiatives (\$10,000) and to provide modest funding for teacher/district support of these initiatives (\$5,000). Student-led initiatives will not require prior PCEF authorization but must be designed to fit the following parameters:

- Must include decision-making process that clearly demonstrates student empowerment and leadership. For example, decision-making could be made through participatory budgeting, student elective class, and student clubs.
- Must demonstrate connection to GHG reduction or sequestration.
- Must demonstrate connection to one of the PCEF funding areas – clean energy, transportation, green infrastructure, regenerative agriculture, or workforce and contractor development.
- Must be implemented within the city of Portland.

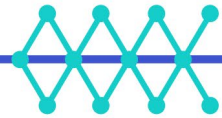
Reporting requirements for student-led initiatives will be flexible to allow student participation in the reporting process and to accommodate creativity and variability in projects. At minimum, schools will provide a short (1-2 page) summary of activities and outcomes, and report on the number and demographics of students involved in the project.

ELIGIBILITY FOR ROLES

Who may receive funding:

- Public school districts within the city of Portland.

APPENDICES



**PCEF diverse contractor and
workforce utilization goals
& Acknowledgements**



Appendix 1: PCEF diverse contractor and workforce utilization goals

PCEF promotes the growth of diverse climate action-focused contractors (i.e., businesses) and workers to better reflect the diversity of our city. PCEF will accomplish this by supporting diverse contractors and workers through CBOs, culturally-specific chambers of commerce, apprenticeship programs, labor unions, and other community resources.

PCEF invests and supports the diversification of contractors and workers focused on climate action in four primary ways:

- Contractor and workforce utilization goals.
- Contractor and workforce diversification grants and contracts.
- Reporting and wage requirements.
- Worksite anti-harassment and culture change.

The following describes the CIP diverse contractor and workforce utilization goals.²¹

Contractor diversity goal:

- Applicability
 - Single or multisite contracts with greater than \$350,000 of PCEF resources for hard construction costs.
- A minimum of 30% of the hard total construction costs should be contracted to businesses certified by the Oregon Certification Office for Business Inclusion and Diversity (COBID) as Disadvantaged Business Enterprises (DBE), Minority-Owned Business Enterprises (MBE), Woman-Owned Business Enterprises (WBE), Emerging Small Businesses (ESB), or Service-Disabled Veteran-Owned Business Enterprises (SDVBE). Alternative certifications for MBE, WBE, and DBE will be explored further and considered for eligibility to meet goals.
 - Sub-goal of 20% of hard construction costs contracted to Minority Business Enterprise (MBE), Woman-Owned Business Enterprises (WBE), and Disadvantaged Business Enterprise (DBE).
- 25% of professional services budget contracted with COBID-certified firms.

²¹ These are minimum goals. Specific strategic programs may exceed these goals.

Workforce diversity goal:

- *Single site.* Contracts with greater than \$350,000 of PCEF resources for hard construction costs shall commit to the following goal (excludes subcontracts less than \$100,000).²²
 - Apprentice utilization.
 - A minimum of 20% of the hours worked, by trade, must be worked by state registered apprentices throughout the duration of the project.
- *Single or multisite.* Contracts with greater than \$350,000 of PCEF resources for hard construction costs shall commit to the following goals (excludes subcontracts less than \$100,000).²³
 - Apprentice level/on-the-job trainee diversity goal.²⁴
 - A minimum of 30% of the total apprentice hours, by trade, shall be worked by people of color.
 - A minimum of 15% of the total apprentice hours, by trade, shall be worked by women.
 - Journey level/trades-worker diversity goal.²⁵
 - A minimum of 25% of the total journey level hours, by trade, shall be worked by people of color.
 - A minimum of 10% of the total journey level hours, by trade, shall be worked by women.

²² This will exclude single-family residential, small multifamily residential, and small commercial projects in most circumstances. While single site projects less than \$350,000 will not have specific requirements for workers that are receiving on-the-job training, strategic programs will have incentives to encourage the hiring and retention of new workers.

²³ For projects with multiple sites (e.g., single-family residential projects), contract value will be cumulative across the given program. For instance, if an insulation installer has 50 subcontracts valued at \$10,000 each, for a total value of \$500,000 in the program, they will be subject to the workforce diversity goals.

²⁴ On-the-job trainee is intended to represent new workers receiving on-the-job training for trades that do not have a BOLI registered apprenticeship program.

²⁵ Trades-worker is intended to represent skilled workers that do not have journey-level designation within their trade.

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We appreciate the diverse individuals and groups, many of whom are named below, who have contributed their insights and collaborative spirit to the Climate Investment Plan public process and strengthening the delivery of equitable benefits. Many community members, workshop attendees, roundtable participants, community review panel participants, consultants, Committee members, and City staff have played a pivotal role in shaping the plan and are a testament to the strength of community solutions. We also extend our gratitude to the unnamed contributors who, though not listed below, laid the groundwork for the program's existence and progress.

To everyone involved, we extend our heartfelt appreciation.

Roundtable community participants

82nd Avenue

- Alicia Axt, student at McDaniel Highschool
- Amandeep Sohi, Verde
- Dasha Foerster, Green Lents
- Jacob Loeb, Montavilla/East Tabor Business Association + 82nd Avenue Business Association + Montavilla Neighborhood Association
- Jaxon Dryden, student at McDaniel High School
- Katherine Rose, Depave
- Kristin Mueller, Meals on Wheels People/Loaves & Fishes Centers
- Zachary Lauritzen, Oregon Walks + 82nd Avenue Coalition

Access to Fair and Flexible Capital

- Alan Hipolito, suma
- David Heslam, Earth Advantage
- Desiree Sideroff, Craft3
- Jason Hilton, Micro Enterprise Services of Oregon (MESO)
- Jo Brickman, VertueLab
- Robin Wang, PCEF Committee
- Stephen Green, Oregon Growth Board + Better Business PDX
- Theresa Deibele, Occam Advisors
- Tim Miller, PECl + Oregon Business for Climate
- Tomas Endicott, Bonneville Environmental Foundation

Building Upgrades for Community Severe Weather Response

- Aaron Presberg, Portland Public Schools
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- Dan Trifone, Multnomah County Health Department
- Desiree Eden Ocampo, Rahab's Sisters
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- Jeni Hall, Energy Trust of Oregon
- Kat Davis, Portland Public Schools
- Kianna Juda-Angelo, Living Islands
- Liam Castles
- Robyn Faraone, Portland Public Schools
- Sabrina Wilson, The Rosewood Initiative
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Clean energy in regulated multifamily affordable housing

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- Jennie Cirincione, Native American Youth and Family Center
- Mekha Abraham, TRC
- Nikita Daryanani, Coalition of Communities of Color
- Nuhamin Eiden, Unite Oregon
- Sean Denniston, New Buildings Institute

Clean energy improvements in single-family homes

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- Charity Fain, Community Energy Project
- James Metoyer, EnerCity Collaborative + Advanced Energy Inspections + Home Performance Guild + PCEF High Roads Advisory Council
- Jason Benefit, Neil Kelly
- Linh Doan, APANO Communities United Fund
- Marshall Johnson, Energy Trust of Oregon
- Suzanne Washington, Meals on Wheels People

Clean energy in small commercial buildings

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- Jason Benefit, Neil Kelly
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- Sean Denniston, New Buildings Institute
- Stephanie Basalyga, Micro Enterprise Services of Oregon (MESO)
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- Derric Thompson, Leaders Become Legends
- Lluvia Merello, Portland Indigenous Marketplace
- Nanci Champlin, Southeast Uplift Neighborhood Coalition
- Yonas Kassie, Ethiopian and Eritrean Cultural Resource Center

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- Adam Kohl, Outgrowing Hunger
- AJ McCreary, Equitable Giving Circle
- Dee Thompson, Oregon Food Bank
- Deidre Schuetz, Nutrition Garden Rx
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- Heather Keisler Fornes, Portland Fruit Tree Project
- Jason Skipton, Growing Gardens
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- Colleen Hathaway, David Douglas School District
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Transportation Decarbonization

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- Ariadna Falcon Gonzalez, The Getting There Together Coalition (GTT)
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- Hau Hagedorn, Portland State University
- Jan Campbell
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- Lenny Dee, Onward Oregon
- Maria Sipin, PCEF Committee
- Phil Berger
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- Victoria (Vee) Paykar, Climate Solutions

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- Jacinta Galeai, Samoa Development Corporation
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- KeeLee Cavil, Student at Parkrose High School
- Kendra Graves, Farmer + Black & Beyond the Binary Collective
- Saara Hirsi, Immigrant and Refugee Disability Group
- Shannon Olive, Rebuild WomenFirst
- Taren Evans, Coalition of Communities of Color
- Tina Semko, Contractor + East Portland resident

Youth Panel

- Adah Crandall, Sunrise Movement + Portland Youth Climate Strike + Student at Grant High School
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- Annie Duan, Youth Environmental Justice Alliance
- Aquene Briggs, Student

- Liam Castles, Sunrise Movement + Portland Youth Climate Strike
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The Bureau of Planning and Sustainability (BPS) develops creative and practical solutions to enhance Portland’s livability, preserve distinctive places, and plan for a resilient future.



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