



**PLANNING & PUBLIC  
WORKS**

DECEMBER 2024

# **SUSTAINABILITY 2030** *Annual Report*



**Sustainable Resources Division**

# Index

<u>Introduction</u> .....	1
<u>Planning &amp; Public Works - Sustainable Resources Division</u> .....	1
<u>Sustainability 2030 Plan Overview</u> .....	2
<u>2024 Highlights</u> .....	2
<u>Energy and Built Environment</u> .....	7
<u>Nature-based Climate Solutions</u> .....	13
<u>Education and Outreach</u> .....	14
<u>Growing Community Capacity</u> .....	16
<u>Centering Equity in Sustainability 2030</u> .....	17
<u>2030 Municipal Plan Highlights</u> .....	19
<u>Looking Ahead: 2025 Priorities</u> .....	22

# Introduction

## PLANNING & PUBLIC WORKS

### Sustainable Resources Division

Pierce County Planning and Public Works Sustainable Resources (SR) Division supports vibrant communities through promoting a clean, sustainable environment.

#### Division staff members work on:

- Greenhouse gas emission reduction
- Solid waste (garbage and recycling) management and waste reduction
- Sustainable transportation options for residents and commuters
- Environmental education classes and resources serving residents of all ages throughout Pierce County

### Sustainability in Pierce County

Pierce County's Planning and Public Works (PPW) Sustainability 2030 team promotes sustainable efforts in County government operations and throughout the larger community with a primary focus on implementing actions in Sustainability 2030: Pierce County's Greenhouse Gas Reduction Plan (Plan) to reduce greenhouse gas emissions 45% by 2030 from 2015 levels.

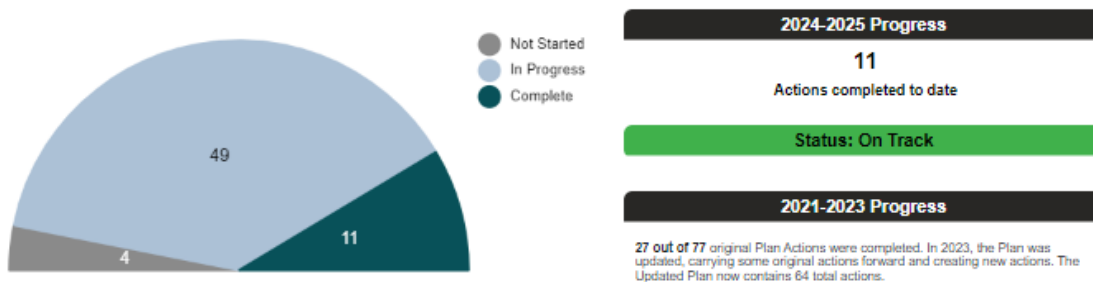
To implement the plan and accomplish actions in this report, staff collaborate with colleagues throughout the SR Division, PPW, other County departments, and with community partners.

# Sustainability 2030 Plan Overview

The Sustainability 2030 Plan outlines 64 actions to reduce greenhouse gas (GHG) emissions. Accomplishing these actions not only demonstrates Pierce County taking responsibility to mitigate climate change, but also contributes to a vibrant community, improving public health, natural systems, and our economy. To date, 11 actions are complete or ongoing, 49 actions are in progress, and 4 actions have not been started.

## Plan Progress Overview

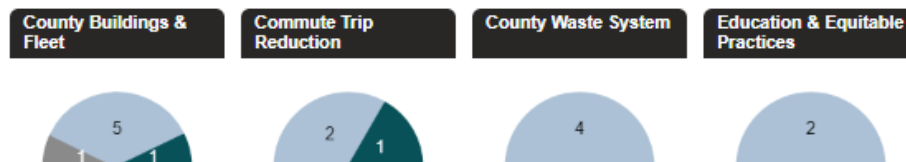
Not Started | In Progress | Complete



## Community Emissions Focus Areas



## Municipal Emissions Focus Areas



# 2024 Highlights

The below list highlights achievements since October of 2023 and is not exhaustive of the status of all 64 actions.



## Clean Building Symposium

In partnership with City of Tacoma, provided education and resources to over 100 Pierce County commercial property owners, operators, and managers whose buildings are covered by Washington's Clean Buildings Performance Standard.



6 grants totaling \$17,254,000 from 2023 - 2024, were awarded to benefit residents and the County's efforts to reduce GHG emissions.



## 1st Youth Film Festival

Hosted a storytelling competition for Pierce County high school and higher education students within the theme of "The Climate of Our Communities"



## Residential Food Waste

Pierce County now accepts residential food waste in the yard waste bin.



## 1st Urban Heat Island Study

Staff and over 60 volunteers identified areas of the County experiencing significantly higher temperatures during the same time of day.



## 13th Annual Bike Swap

Hosted at Tacoma Community College with 51 vendors and over 100 bikes purchased/sold.



## Green Stormwater Infrastructure Accelerator

Pierce County was the only PNW participant in this nationwide training program with partners from PPW Divisions, community partners, and the Puyallup Tribe.

# Community Identified Priority Actions

To move towards community-led strategies, feedback was gathered from across Pierce County communities and partners for the 2023 update to the Plan and have been identified as Community Priority Actions. These actions have been prioritized in 2024, allowing us to be responsive and accountable to the priorities we heard. More information about the feedback received can be found in [Appendix 4](#) of the 2030 Plan.

Throughout this report, community identified priorities are identified by this icon. 













-  Active Transportation Plan
-  Climate Education
-  Transit Education
-  Urban Forestry
-  Land Conservation Plan
-  Multimodal Safety
-  Leadership Development
-  Connections to Nature
-  Weatherization Assistance
-  Youth in Climate Action
-  Community Solar
-  Accessible Walking & Biking

Photo credit by Dichela Ueki



# Ongoing Programs

Sustainable Resources runs and implements the following programs in support of goals of the 2030 plan:

## C-PACER Program

Pierce County's Commercial Property Assessed Clean Energy + Resiliency (C-PACER) Program helps owners and developers of commercial, industrial, agricultural, and multi-family buildings access favorable financing for qualifying projects, including solar installations, energy & water efficiency measures, seismic retrofits, and more! Property owners and developers can use the C-PACER program to create healthier and safer places to live, work, and play in Pierce County.

## Residential Food Waste Program

Accepting food waste is a critical action in Pierce County's Sustainability 2030 Plan. When food and yard waste end up in the landfill the organic material rots and produces methane, a powerful greenhouse gas. New in 2024, residential food scraps can be put into the yard waste bin to be composted instead of buried in the landfill. This effort is being coordinated by Pierce County in partnership with LRI and the county's three solid waste service providers: Murrey's Disposal, LeMay Pierce County Refuse, and University Place Refuse & Recycling.

## Climate Education Program

- The Sustainability team offered 10 classes to the public designed for adults on a variety of topics related to climate change.
- High school and middle school programs engaged students in climate change education and discussions.

## Green Blocks and Tree Coupon Collaboration

- In 2024, Green Blocks Parkland gave away 1060 trees. The Tacoma Tree Foundation will continue to provide free trees to residents of Parkland-Spanaway in 2024-2025 thanks to a renewed grant from the Washington Department of Natural Resources.

- Tree Coupons will also continue to be available to all Pierce County residents through a partnership between PPW's Surface Water Management Division, City of Tacoma, and Tacoma Power.

## Transportation Demand Management (TDM) Program

Pierce County's TDM program was awarded \$1.07 million in grants over 4 years to coordinate two neighborhood-based projects to support Pierce County commuters using sustainable transportation modes.

## Commute Trip Reduction (CTR) Program

- CTR partnered with 40 of Pierce County's largest employers (representing 69 worksites), including JBLM, UW-T, MultiCare, and Amazon, to offer employees sustainable trip options through incentives and commuter benefits.
- Through our annual [Best Commuter Business](#) program, we recognized 39 worksites for having an outstanding commuter program in February 2024.
- CTR launched a modernized Ride Together Pierce website so users can log trips and see savings, including a trip planner and ride matching tool to find bike, carpool, and vanpool partners, achievement badges for sustainable transportation modes, team leaderboards, and prize claims within the website.
- 526 users have logged more than 52,000 sustainable trips on the new online calendar since April, representing avoided emissions of 249 metric tons of CO<sub>2</sub>.
- Emergency Ride Home now available for use by the public.



## Community Engagement

SR's Equitable Community Engagement Framework has been referenced in several grant applications and will get reviewed and updated as part of the 2025 Plan update. The Framework has been a guide to involve community members and partners in the Plan implementation.



# Energy and Built Environment

## COMMUNITY CLIMATE ACTION UPDATES

*Building emissions make up 34% of Pierce County communitywide emissions and are the fastest growing sector of emissions statewide.*

## Retrofit Existing Buildings

Improving the energy efficiency of and electrifying existing buildings can significantly decrease local emissions. Building improvements can also reduce energy costs, improve indoor air quality, and improve thermal comfort.

In 2024, SR partnered with King and Thurston counties to launch [The Switch Is On](#), a regional outreach campaign to inform and excite our communities about energy efficient electric appliances and provide information about local, state, and federal rebates and incentives.

- The campaign features an online navigator tool with opportunities for self-directed learning, step-by-step instructions, an incentive search tool, and a vetted contractor contact list for home energy efficiency improvements. Outreach and web-based materials are available in multiple languages. The campaign is expected to extend through June 2025.
- Pierce County also participated in a successful regional Climate Pollution Reduction Grant (CPRG) application that will reduce greenhouse gas emissions throughout the building lifecycle. Programs and policies will be deployed across four Washington counties (King, Kitsap, Pierce, and Snohomish) representing 56% of the state's population. **Roughly \$11 million dollars will be coming to Pierce County community & multifamily buildings for electrification and weatherization measures.** At least 40% of the funding will be spent in low-income and historically under-served communities.



\$49 Million award to Pierce, Snohomish, Kitsap, and King Counties.



# \$49M King County-Led Climate Pollution Reduction Grant (CPRG) Application

(Seattle-Tacoma-Bellevue Metropolitan statistical area)

*Accelerating Equitable Building Decarbonization throughout the Building Lifecycle*

1. Advance embodied carbon policy across the region.



2. Fill gaps in hard to decarbonize existing buildings while prioritizing equity.



3. Reduce emissions at end of a building's life.



## Community Solar

The sun provides a sustainable, clean power source that strengthens energy independence, health, and resilience in Pierce County.

- In 2024, Pierce County Planning & Public Works was [awarded funds](#) by the state's clean energy grant program to construct a large-scale solar innovation project on the site of the closed Purdy Landfill. This solar array will add clean electricity to the power grid and fund energy assistance and efficiency projects benefitting low-income residents on Key Peninsula.



The closed Purdy Landfill and future site of the solar array.

SR also supported Facilities Management (FM) with another successful clean energy grant application. The "Pierce County Owned Buildings Solar Feasibility Analysis" will study which County buildings might be best for solar, considering technical, site-specific questions – *Can we put solar on this building?* as well as value considerations – *Should we put solar on this building?*



Both solar projects are possible due to funding from Washington's Climate Commitment Act. The CCA supports Washington's climate action efforts by putting cap-and-invest dollars to work reducing climate pollution, creating jobs, and improving public health. Information about the CCA is available at [www.climate.wa.gov](http://www.climate.wa.gov).

## Weatherization Assistance

Weatherization protects homes from the elements—rain, snow, heat, and wildfire smoke—while boosting energy efficiency, lowering costs, and increasing comfort. Measures like sealing air leaks, adding insulation, repairing roofs, and upgrading windows not only reduce energy use but also support climate resilience and energy independence, creating a strong foundation for solar energy and efficient heating and cooling.

In 2024, Pierce County Human Services (PCHS) and SR staff collaborated to bring more than \$3.8 million in grant funding for weatherization & energy-saving upgrades to low- and moderate-income Pierce County households in the coming years.

- The U.S. Department of Energy's Enhancement & Innovation award for "[Pierce County Electrification-Ready Homes](#)" will provide \$2 million over three years to the PCHS [Weatherization Assistance Program](#) (WAP) to fund improved living conditions for up to 100 qualified low-income Pierce County households through deep energy retrofits prioritized by likelihood of positive health outcomes. The project will utilize SR's Equitable Community Engagement Framework and draw on a partnership with, and the expertise of, the Tacoma-Pierce County Health Department.



*"This funding will help qualified community members transfer to more energy-efficient electric appliances," said Donn Falconer, PCHS Weatherization supervisor. "The goal is for participating households to see a reduction in their energy costs."*



*"We are excited to help more families install these new super-efficient appliances that will not only cut greenhouse gas emissions but improve living conditions with safer air and comfortable heating and cooling." said Ryan Dicks, SR Administrator.*

- The Washington State Department of Commerce's [Home Electrification and Appliance Rebate \(HEAR\) grant](#) will provide \$1 million to PCHS-WAP to purchase and install high efficiency heat pumps & water heaters in unincorporated Pierce County low-income households, with an additional \$833,000 distributed through SR for utility-run electric appliance rebate programs.





# Transportation

*Transportation emissions make up 31% of Pierce County's greenhouse gas emissions.*

## Active Transportation Plan

The 2024 Comprehensive Plan Update includes a study of the level of stress experienced by pedestrians and cyclists along roads in Pierce County. The Transportation Element in the Comprehensive Plan will set new goals for reducing the level of stress, making it easier and more comfortable to walk and bike along certain roads.

## Transit Education

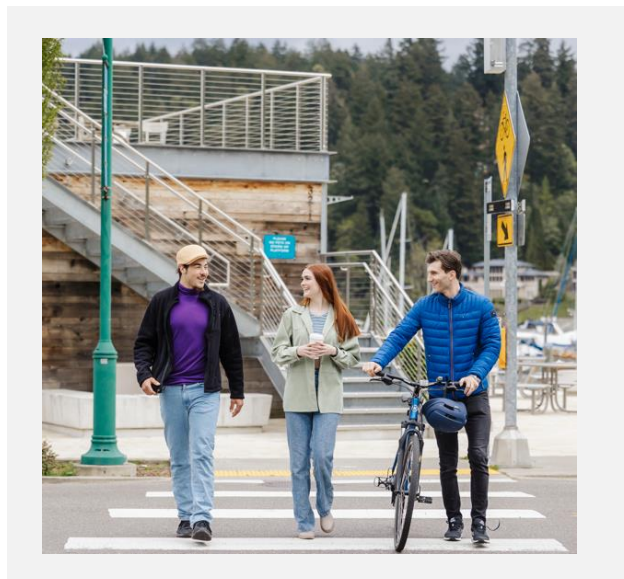
Pierce Transit has developed [Youth Ridership Resources](#) and now has staff doing outreach and education in Pierce County schools. The Sustainable Resources Environmental Education program and Pierce Transit's Education efforts are now supporting each other.

## Accessible Walking and Biking

19.85 miles of Pierce County sidewalk have been added in the last two years - 8.82 miles in 2023 and 11.03 in 2022. Phase 1 of the Pipeline Trail Project is also nearly complete - this will expand regional trail access between Tacoma and South Hill by connecting the City of Tacoma's Pipeline Trail to Pierce County's Orangegate Park.

## Multimodal Safety

The Vision Zero Action Plan, which will improve traffic safety for all road users – drivers, cyclist, pedestrians, and transit riders - is well underway and will be adopted in early 2025. This plan will identify key strategies to improving safety for all forms of transportation in unincorporated Pierce County and will be integrated into regional traffic safety plans by the Puget Sound Regional Council.



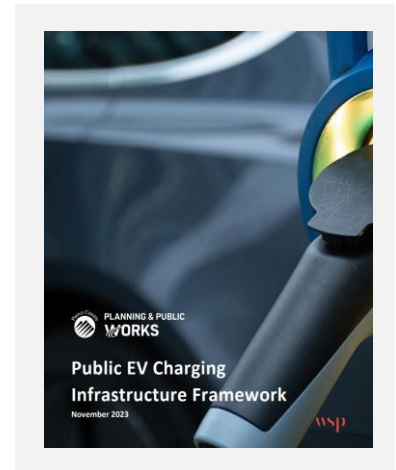
# Public EV Charging

[State projections](#) indicate over 18,000 multi-family level 2 chargers and nearly 1,800 public level 2 & level 3 (fast) chargers will be needed for Pierce County EV drivers in the year 2030. SR staff continue to plan and seek funding for this transportation transition in collaboration with local and regional partners. The completed [Public EV Charging Infrastructure Framework Report](#) is a resource for Pierce County departments, local jurisdictions, and partners that:

- Identifies “opportunity communities” lacking EV charging infrastructure
- Explores suitability of County-owned parcels for public EV charging investment
- Provides a toolkit of best practices for Electric Vehicle Supply Equipment (EVSE) implementation

SR also collaborated in 2024 with the County Communications and Spatial Services teams to launch a [Public EV Information webpage](#) and an [EV “Opportunity Community” Web application](#), an online tool based on the EV Framework Report to visually represent where EV chargers are needed. This tool:

- Identifies communities for further engagement
- Can help prioritize EV charging investment



This is a screenshot of a webpage titled "ELECTRIC VEHICLES Why Drive an Electric Vehicle (EV)?". The page lists four key benefits of EVs: Savings (cheaper to drive and operate), Health (better for our health, no tailpipe pollution), Environment (oil-free, fewer carbon emissions), and Convenience (can charge at home or public stations). Below the text is an "Electric Vehicle Charging Station Opportunity Map" which uses a color-coded legend to show areas of high, medium, low, and lowest opportunity for EV charging stations in Pierce County. The map includes a search bar and a legend on the right side.





# Nature-based Climate Solutions

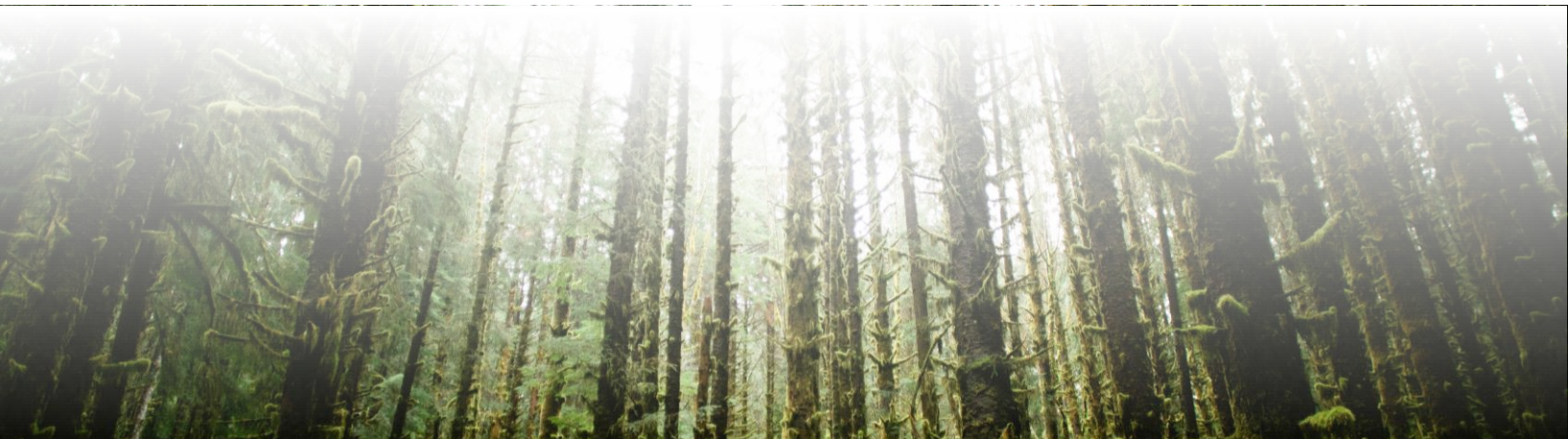
*Emissions from changes in land use related to tree loss make up 27% of Pierce County communitywide emissions.*

## Land Conservation Plan

- Sustainable Resources worked with County staff, regional partners, Tribal governments, non-profit conservation leaders, and subject matter experts to develop a Pierce County Land Conservation Plan expected to be adopted in 2025.
- After the first internal review, an implementation and adaptive management section is being added to ensure the plan's long-term success.
- A GIS decision tool and StoryMap is in development.

## Urban Forestry

- In the summer of 2024 SR worked with the Tacoma-Pierce County Health Department, Tacoma Tree Foundation, and other partners to conduct an Urban Heat Island Study of the unincorporated urban growth area, plus Puyallup, Lakewood, Fife and Gig Harbor. The data is currently being added to the County GIS system.
- Long Range Planning has been leading an effort to apply State funds from HB 1181 (climate planning) to add urban tree canopy mapping and green stormwater infrastructure mapping to the County GIS system.
- SR, in partnership with Parks and Recreation Natural Lands Program, applied for a grant from Center for Regenerative Solutions (CRS) and Urban Sustainability Directors Network (USDN) to create an Urban Forestry Fellowship and Community Forest Corps program that will build upon urban heat island study work and help County staff to create an Urban Forestry Plan.



## Green Stormwater Infrastructure

- SR coordinated an interjurisdictional and cross-sector team to participate in an 11-week Green Stormwater Infrastructure Accelerator for nature-based climate solutions with an equitable community development focus.
- The team included the City of Tacoma, the Washington Stormwater Center, PPW Surface Water Management, The Puyallup Tribe, and Communities for a Healthy Bay. The Accelerator is being hosted by the Center for Regenerative Solution and the Trust for Public Lands.
- In conjunction with the HB 1181 funded mapping of existing GSI infrastructure, this Accelerator team is laying the foundation for future development of best management practices and policies that incentivize absorbent landscapes to mitigate the increasing flood risk and limit pollution entering Puget Sound.

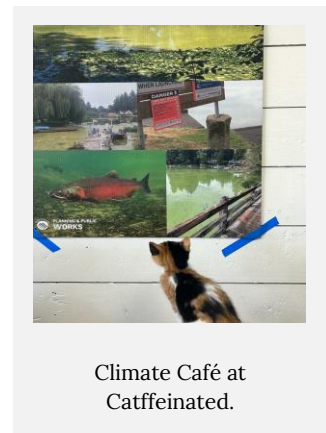




# Education and Outreach

## Youth in Climate Action

- A series of youth Climate Cafes are scheduled to support youth in talking about and creating community around climate change and climate action. The first Climate Cafe was held at Catffeinated, a Puyallup coffee shop with a cat lounge and playground.
- In May, local students took part in the first Climate of Our Communities Youth Film Festival led by the EE team.



Climate Café at Catffeinated.

## Sustainability Collaborative

SR convened quarterly meetings with staff from Pierce County cities, towns, and Tribal governments to support each other's efforts to reduce emissions. Significant progress was made towards building relationships and understanding how the County can better support municipal and Tribal partners.

### The Collaborative Workshop

The Collaborative hosted its first in-person half-day workshop for members on November 8<sup>th</sup>, 2024. There were 23 attendees representing 12 different jurisdictions/organizations. 100% of attendees rated the Workshop as meeting or exceeding their expectations.

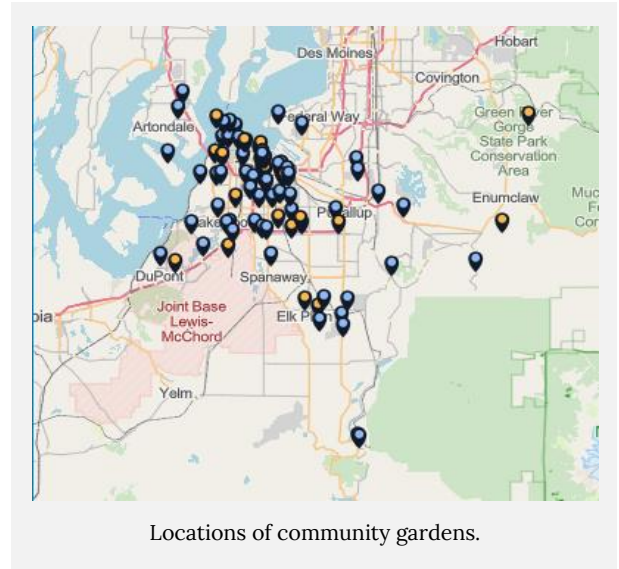


## Teacher Support

The Environmental Education team partnered with Tacoma Public Utilities, Pierce Conservation District, and the City of Tacoma's environmental educators to teach 8 workshops to 761 local teachers in Pierce County on Climate Literacy through local curriculum. Additional workshops were taught by the EE team specifically to middle school teachers.

## Harvest Pierce County

- Sustainable Resources provided funding to the Pierce Conservation District to aid in the County's efforts to manage organic debris and provide environmental education and public outreach regarding the County's emissions reductions and carbon sequestration efforts.
- In 2024, Harvest Pierce County created four new community gardens (out of a total of 81), developed a Community Garden Leadership Network, conducted 54 community garden site visits, offered 12 public classes with over 650 participants, gleaned over 40,000 pounds of food that was donated with over 900 volunteers committing over 2,700 hours of time, and offered a farm business training program to 36 new or beginning farmers.



Locations of community gardens.

## Climate Justice Summit

On May 28, 2024, Pierce County and City of Tacoma hosted a Climate Justice Summit to support community organizational capacity for climate action. Over 80 participants came together to learn about and commit to climate justice. Our government agencies got to learn about what organizations need support in, and local organizations got to connect with each other around potential partnership opportunities.



*“We need more educators and organizers. We need to support local organizations to do this.”*

*“We need more information for the public about the direct impacts of climate change on their families and what we can do locally to change this.”*

# Growing Community Capacity

## Leadership Development

- 2024 marked the first year of the joint Tacoma and Pierce County Climate Leadership Cohort. Cohort members participated in a three-day training and completed a capstone project.
- Project topics included community organizing and civic engagement, climate resilience hubs, climate curricula for youth, environmental policy, food accessibility, urban heat islands and de-paving, and sustainable textiles. 4 of 15 participants, were from outside the City of Tacoma.



2024 Tacoma-Pierce County Climate Leadership Cohort

## Connections To Nature

Increasing opportunities for community members to connect with nature can improve mental health and restore our relationship with the land. Within the last year, these opportunities have included:

- Updating the [Interactive Outdoor Learning Map](#) to include more parks and accompanying lesson plans and resources.
- Celebrating Latino Conservation week by co-hosting a bilingual mindfulness walk and mini fair with Caminemos Juntos, Strategic Nature LLC, Tacoma Tree Foundation, Tacoma Public Utilities, Girasol Counseling, and Mar y Sol Counseling.
- Leading a climate change walk and talk with the Pacific Islander Health Board of WA.
- Celebrating Earth Day at Meridian Habitat Park where community members participated in free demonstrations, nature activities, and games.



Earth Day 2024 at Meridian Habitat Park

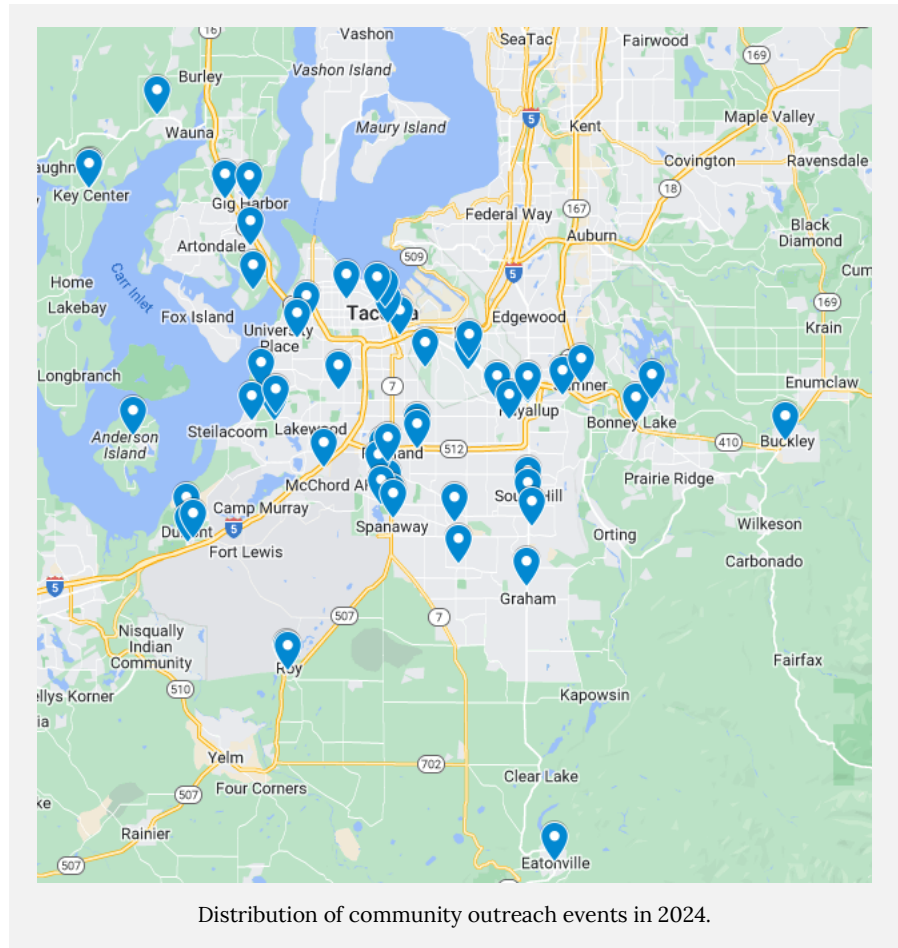
# Centering Equity in Sustainability 2030

The Pierce County Sustainability 2030 Team is committed to advancing equity as we implement and update the Sustainability 2030 Plan. Our Equity Assessment Tool and Equitable Community Engagement Framework are instrumental for equitable greenhouse gas reduction.

## Equity Assessments

The equity assessment process helps us identify desired equity outcomes and the tangible next steps to work towards them. Using the equity assessment tool for each external, community-facing action is how our team starts to plan for equitable outcomes.

Our goal for 2025 is to use the equity assessment tool on all external actions, prioritizing the Community Priority Actions identified in the 2023 update to the Sustainability 2030 Plan. In line with our Equitable Community Engagement Framework (see more below), our team will also organize and report back on equity assessment results of Plan actions.



The table on the following page demonstrates a summary of our usage of the Equity Assessment Tool for two Community Priority Actions that are still in progress and not yet completed: EBE-4 Community Solar and EO-5 Youth in Climate Action.

<b>Action: EBE-4 Community Solar</b> <b>Prioritize opportunities for community solar projects that serve as demonstration projects (Purdy Landfill) and/or reduce energy burden in priority communities.</b>			
Key groups impacted	Equity gaps	How we address equity gaps	Desired equity outcomes
Energy-burdened Purdy and Key Peninsula community members  Key Peninsula School District  Key Peninsula community-based organizations	Per the Census Bureau Profile of Key Peninsula, 8.5% of people living in the area are experiencing poverty. Of those experiencing poverty, the majority are 18-64.	Work with Pierce County Human Services Community Action Program to identify clients who could benefit most from the project.	Revenue from solar energy generation will be utilized to reduce energy burden for community members.
<b>Action: EO-5 Youth in Climate Action</b> <b>Support and amplify youth voices in sustainability planning and decision-making processes.</b>			
Key groups impacted	Equity gaps	How we address equity gaps	Desired equity outcomes
Youth living in areas with high environmental health disparities  Indigenous youth  Youth with a high transportation expense	Lakewood, Parkland, parts of Puyallup, parts of Sumner, and South Tacoma score high on the WA Environmental Health Disparities map.	Connect with school districts and youth-serving organizations, prioritizing those who serve unincorporated, rural, and areas with high environmental health disparities	Our program centers underserved youth so that all youth have what they need to be climate leaders in their community.

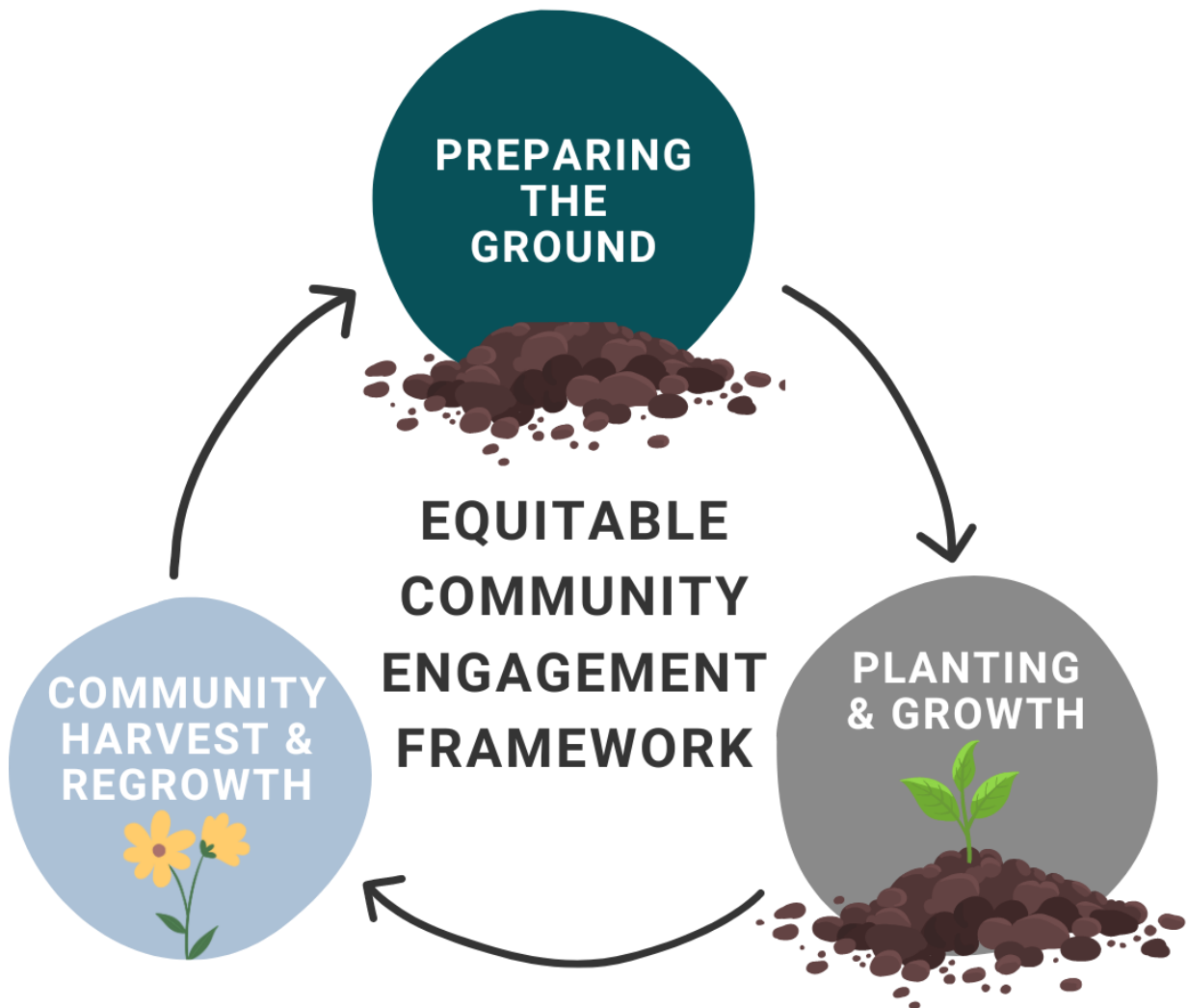
Energy burden is defined as the percentage of household income spent on energy costs. Spending more than 6% of household income is considered a high energy burden, while more than 10% is considered severe. Weatherization and other energy efficiency measures, such as appliance upgrades, decrease energy costs and reduce energy burden.

## Equitable Community Engagement Framework

The division's Equitable Community Engagement Framework completed action EO-3 and was debuted in the 2023 update to the Sustainability 2030 Plan and is our division's roadmap for equitable and meaningful community engagement. The three components of the framework are:

- **Preparing the ground:** build an understanding of power and a shared language, invest in trust and relationship building, and get to know and prioritize frontline communities.
- **Planting and growth:** develop and use tools for equitable engagement.
- **Community harvest and regrowth:** establish accountability, evaluate impacts, and share and celebrate successes.

Moving forward, this framework will help us prioritize which actions to work on and with whom.





# Municipal Climate Actions

# Municipal Climate Actions

## 2030 Municipal Plan Highlights

- Pierce County took advantage of the new IRS Direct Pay program and filed taxes for 2023 investments in electric vehicle and infrastructure with an anticipated return of \$112,500 dollars back to the County.
- Sustainable Resources facilitated quarterly interdepartmental Sustainability Leadership meetings with 7 County Departments.
- Sustainable Resources and Facilities updated the Electric Vehicle Supply Equipment Procedure.
- Facilities established an interdepartmental electric vehicle charging work group.
- Facilities reports that 74% of County buildings are now all electric (52 out of 69).
- Facilities was awarded a \$160,000 Clean Energy grant from the Department of Commerce to fund a solar energy and battery storage feasibility study at County-owned facilities.

## Building Electrification:

An Energy Efficiency Community Block Grant contract was finalized in 2024, and a portion of this funding will support the development of the County's building decarbonization strategy to develop a prioritized list of HVAC equipment for end-of-life replacement and electrification.

## Lighting Efficiency

- Facilities Management continues to transition County buildings to efficient LED lighting fixtures during building upgrades. The County-City Building LED lighting replacement project is in design with completion expected June 2025.
- FM has also submitted a grant request to the Department of Commerce to fund LED fixture upgrades and lighting control replacement at Sprinker Ice Rink.
- Lighting in the City/County Building and Remann Hall detention pods is in process of being converted to LED.
- Annex West Election Center and General Services project includes LED lighting conversion - resulting in approximately 90% of building converted to LED.

## EV Charging

- \$135,000 in funding awarded to install 18 fleet and workplace EV charging ports at PPW buildings.
- Annex and Reman Hall EV charging infrastructure projects are underway and are in design phase.
- Updated the County's Electric Vehicle Supply Equipment (EVSE) Procedure.
- Facilities is establishing an EVSE Workgroup comprised of staff from varied departments to ensure efficient, coordinated, cost effective deployment and access to EV charging at County owned facilities.



Electric Ford pick-up trucks, F150 Lightnings, have been placed into service by PPW building inspectors, Facilities Management, and others! The front trunk (frunk) is a useful feature unique to electric vehicles.

## Teleworking

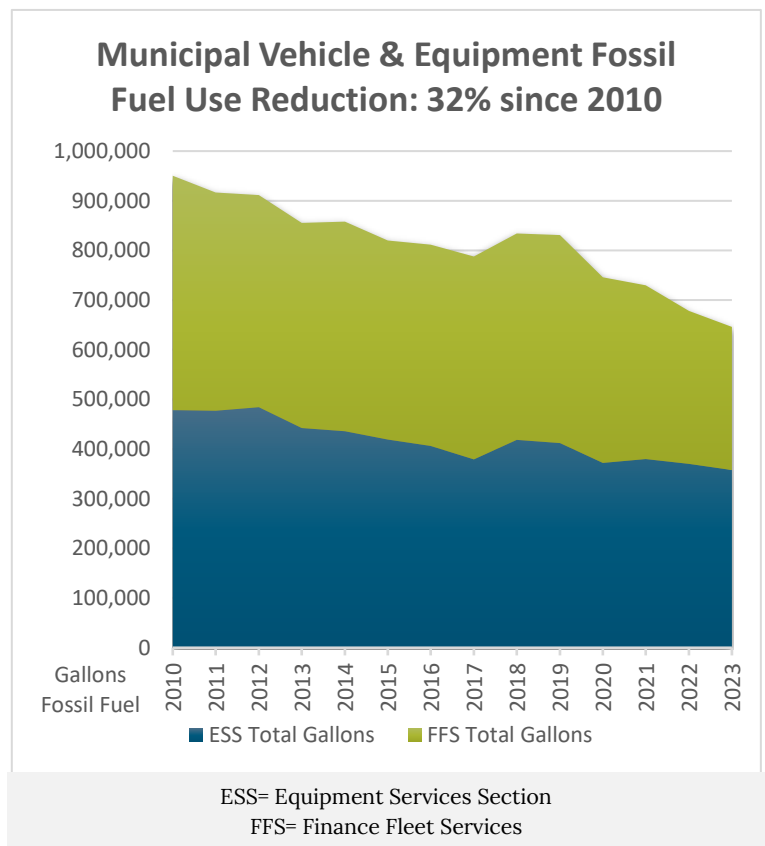
Telework Agreements reduced employee commuting by 6.6 million miles from January - October, avoiding 2,910 metric tons of CO2 emissions. That's the equivalent of taking more than 650 gas-powered cars off the road for 1 year!

## Fleet Electrification

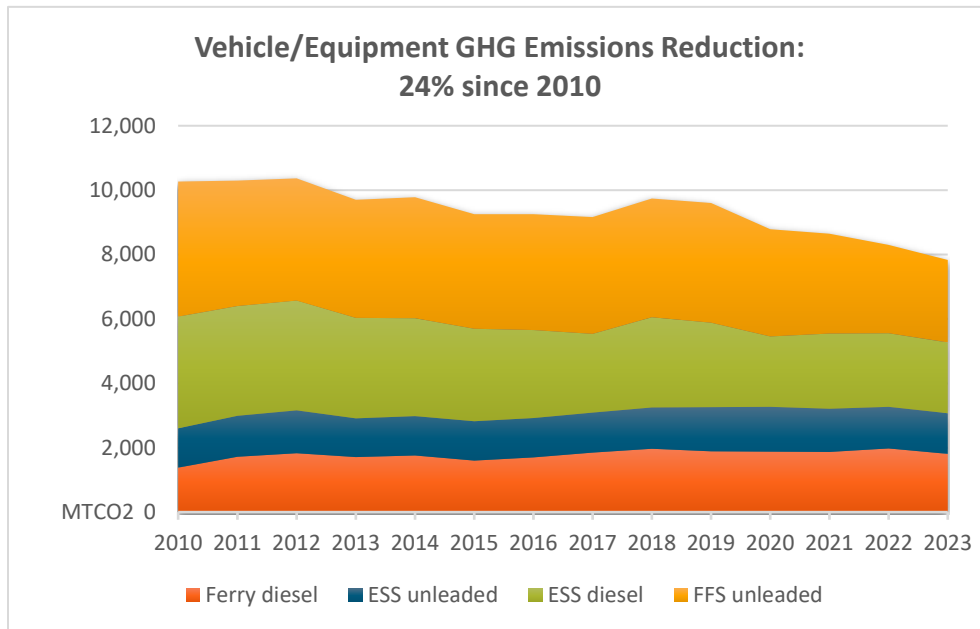
Municipal vehicle & equipment fossil fuel use has declined more than 30% over the last fifteen years due to:

- Increased fuel efficiency of vehicles and equipment
- More hybrid and electric vehicles and equipment in County fleet, especially Finance Fleet-Services (FFS)

Greenhouse gas emissions from County fossil fuel use have also declined - 24% since 2010! This is mostly because Planning & Public Works Equipment Services Section (ESS) has replaced regular diesel with **biodiesel** over the last few years. Biodiesel



is made by blending renewable fuel (from sustainable biological sources like vegetable oils or recycled restaurant grease) with regular diesel. Biodiesel produces fewer greenhouse gases for every gallon burned. For example, B20 biodiesel (a 20% blend of renewable and regular diesel) reduces GHG emissions by 10.4% over regular diesel! *Emission estimates are based on the Environmental Protection Agency's GHG Equivalencies Calculator, expressed in metric tons carbon dioxide (MTCO<sub>2</sub>).*



ESS plans to reduce emissions even further in 2025 by replacing biodiesel with renewable diesel (R99) for part of the year. R99 is made entirely from sustainable biological sources (not blended with regular diesel) and has the potential to reduce GHG emissions by up to 75%.

# Looking Ahead: 2025 Priorities



Hearing from the community and updating the plan in 2025



Develop Urban Forestry Management Plan



Accelerate the use of green stormwater infrastructure



Adopt Land Conservation Plan



Implement the \$11 million CPRG building decarbonization grant with King County



Implement Weatherization funding and appliance rebates to increase home energy efficiency



Develop a countywide public electric vehicle charging infrastructure plan



Develop a strategy to disseminate urban heat island study data and plan for next steps



Integrate 2022 greenhouse gas emissions inventory data into plan strategies