
Thurston County Work Program 2023 - 2024

REBECCA HARVEY, CLIMATE MITIGATION SENIOR PROGRAM MANAGER
BOARD OF COUNTY COMMISSIONERS
REGIONAL CLIMATE MITIGATION RETREAT
JUNE 24, 2023

Board of County Commissioners Climate Mitigation Program



- Spearhead initiatives from the BoCC Office
- Create overarching climate mitigation program
 - Community Planning & Economic Development (CPED)
 - Central Services
 - Public Works
 - Public Health & Social Services, Emergency Management, etc.
- Jurisdiction Work Program 2023–2024 (release Aug. 1, 2023)
 - Officially authorized projects (CPED Dockets, CIP, TIP, etc.)
 - Emerging opportunities (grants, technical assistance programs)

5 Sectors of Strategies and Actions



Buildings and Energy



Agriculture, Forests, and
Prairies



Transportation



Water and Waste



Cross-Cutting

C-PACER Financing Program

Strategy B3. Reduce energy use across building types.

- Commercial Property Assessed Clean Energy & Resilience (C-PACER): Alternative loan program, secured through a lien on title and repaid through a voluntary assessment
- Energy Efficiency, Renewable Energy, Water Conservation, and Resiliency projects
- Established in Washington in 2020 under HB 2405 and in Thurston County in 2022 by Ordinance No. 16184
- Applies to both incorporated and unincorporated Thurston County
- Eligible Properties
 - Commercial, Agricultural, Industrial, and Multi-family (5+ dwelling units)
 - New Construction
 - Existing Buildings

Solar Plus Storage Feasibility Assessment

Strategy B5. Increase the production of local renewable energy.

- Solar Plus Storage for Resilient Communities Technical Assistance Program (Dept of Commerce)
- Feasibility Study of 5 County-owned facilities
 - Thurston County Emergency Coordination Center
 - Public Works Tilley Road Campus
 - Emergency Services Center
 - Thurston County Public Health & Social Services Building
 - Thurston County Fairgrounds & Event Center
- Help to size solar plus storage system(s), identify permitting, zoning, and interconnection considerations, and identify costs and financial benefits
- Prepare to apply for future grant funding opportunities

Landfill Solar Installation

Strategy B5. Increase the production of local renewable energy.

- Closed landfill on Waste and Recovery Center (WARC) property ~25 acres
- County published Notice of Intent to Negotiate Lease and received a proposal to develop “front-of-the-meter” solar photovoltaic (PV) system
- Puget Sound Energy RFP for Distributed Solar and Storage projects
- Would provide revenue to County for 25+ years and generate up to 3 MW of clean electricity



SolSmart Designation

Strategy B5. Increase the production of local renewable energy.

- No-cost technical assistance and designation program (DOE-funded)
- Recognizes communities that encourage solar market growth
- Aims to reduce solar “soft costs”
 - Permitting, inspection, labor, sales & marketing, overhead, etc.
- Tailored to the community
 - Gold, Silver, & Bronze designation levels
 - 75 credits and multiple pathways to designation
 - 470+ communities nationwide
 - 8 communities in Washington



www.thurstoncountywa.gov/solar

Comprehensive Plan Update

Strategy T1. Set land use policies that support increased urban density and efficient transportation networks and reduce urban sprawl.

- Policy updates across plan to be consistent with new state guidance
- Addition of a new Climate Change element
- Specific TCMP actions to be addressed:
 - T1.1 – Long Term Planning-Future Infill and Sprawl Reduction (specifically changes related to housing, TBD but could include changes to development standards or density bonuses)
 - T1.2 – Middle Density Housing: housing element changes will work towards this
 - T1.11 – Land Use Efficiency: Goals could be updated to facilitate this
- Docketing early 2024, expected completion June 2025

Fleet Electrification

Strategy T3. Increase adoption of electric vehicles.

- 2nd F150 Lightning pickup truck coming in 2023
- Fleet total will be 5 battery electric vehicles (BEVs) and 2 plug-in hybrids (PHEVs)
- Plans to purchase at least one more BEV in 2023, and more in 2024
- Seeking funding for EV charging infrastructure



Public Electric Vehicle Charging Stations

Strategy T3. Increase adoption of electric vehicles.

- Policy for “Publicly Available Electric Vehicle Charging Stations” in development
- Applied for Dept of Commerce “ETS Round Two” Grant to install 2 DC Fast Chargers and 2 dual-port Level 2 EV charging stations at the new Southwest Washington Agricultural Business & Innovation Park in Tenino
- Plan to submit budget request for EVSE Feasibility Assessment of County properties
- Reviewing other grant and partnership opportunities

Trail Extensions

Strategy T5. Increase use of active forms of travel and more efficient commute modes.

Trail Connectivity Program:

- Yelm-Rainier-Tenino Trail Extension
 - Extension of the 14.5-mile Yelm-Rainier-Tenino trail from the Tenino Train Depot south along West Park Avenue to Crowder Road Southeast
 - Construction expected to begin September 2023
- Gate-Belmore Trail Extension
 - First 1.6-mile leg of the Gate-Belmore Trail near Glacial Heritage Preserve
 - Eventually will extend 12.5 miles from SW County to Kenneydell Park
 - Construction to begin in 2024

Wastewater System Energy Efficiency Improvements

Strategy W1. Increase the efficiency of water and wastewater infrastructure.

- Preliminary audit of Grand Mound Wastewater Treatment Facility (Spring 2023)
 - Review of energy data
 - Site walk-through to identify potential Energy Efficiency Measures (EEMs).
 - Considering Energy Savings Performance Contract or incorporating improvements in planned wastewater treatment plant upgrade work
- Nutrient Optimization Plan
 - Compliance with the Puget Sound Nutrient General Permit
 - Includes energy efficiency improvements at Boston Harbor and Tamoshan wastewater treatment plants

Waste Studies and Enhanced Outreach

Strategy W4. Divert more solid waste from landfills.

- Waste Characterization Study (June 2023) – data to track progress toward waste reduction and diversion program performance, refine existing programs, and identify new program opportunities
- Multifamily Recycling Contamination Study (July 2023) – comparing impact of cart labels, quantifying contamination, and recommending improvements
- Business Organic Waste Outreach (launch in 2024) – Outreach campaign to help businesses impacted by Organics Management Law for Businesses
- Business Recycling & Waste Reduction Outreach – Audits & educational mailers
- Residential Outreach Expansion – updated recycling guides, food & yard waste guides, online search tool, educational billing inserts, Spanish translation

Healthy Forests Project (Development Code Docket Item A-25)

Strategy A5. Manage forests and other ecosystems to sequester carbon.

Phase 1: Managing Forest Conversions

- Forest Conversion Code draft is complete – **Public Hearing August 16**
- Ordinance Adoption January 2024

Phase 2: Studying our Forest Canopy

- Tree Canopy Assessment underway – baseline data to account for working lands harvest cycles and privately owned forest resources

Phase 3: Growing our Forest Canopy (Winter 2023 – Summer 2024)

- Use canopy data to inform policy changes to subdivision and zoning codes and Comprehensive Plan updates

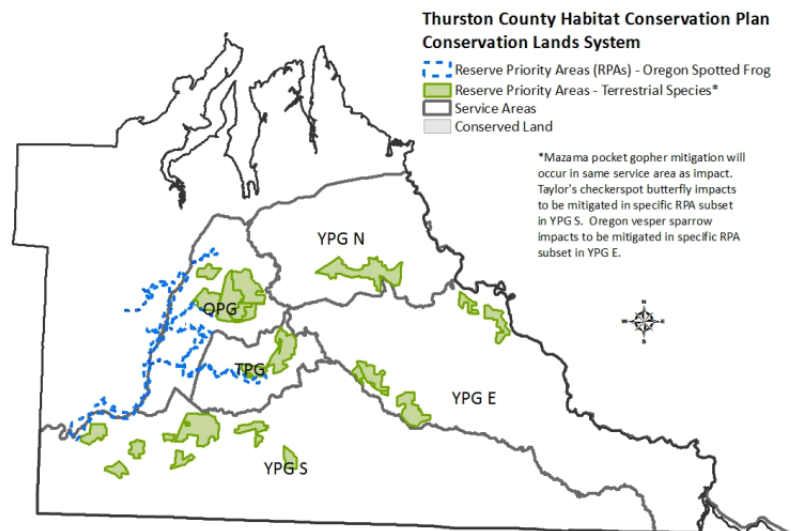
Phase 4: Planning for our Urban Forests (Fall 2023 – Fall 2024)

- Working with cities to update UGA areas

Habitat Conservation Program

Strategy A5. Manage forests and other ecosystems to sequester carbon.

- “One stop permitting” for building permits affected by Endangered Species Act (ESA) listing of Mazama pocket gophers and other animals in the county
- Mitigation credits to offset permitted development impacts
- Landscape approach to conserve habitat of Mazama pocket gopher, Oregon spotted frog, Oregon vesper sparrow, and Taylors checkerspot butterfly
- May preserve and restore up to 3,500 acres (will report annually at end of CY)



www.thurstonHCP.org

Agriculture, Forests & Prairies

Climate Change Website

Strategy G1. Conduct education and outreach across climate mitigation areas.



Thurston County
Washington

Living in
Thurston County



Climate Change

What is Thurston County doing to mitigate climate change?

Thurston County's climate mitigation program is a government-wide effort led by the Office of County Commissioners in collaboration with many County departments. The following are some key County programs that help meet the goals of the Thurston Climate Mitigation Plan.

For a full list of annual actions the County has taken, see the [2022 Progress Report](#) .



Solar Energy



C-PACER Financing
Program



Comprehensive Plan
Update



Waste Reduction
Programs



Conservation Incentive
Programs

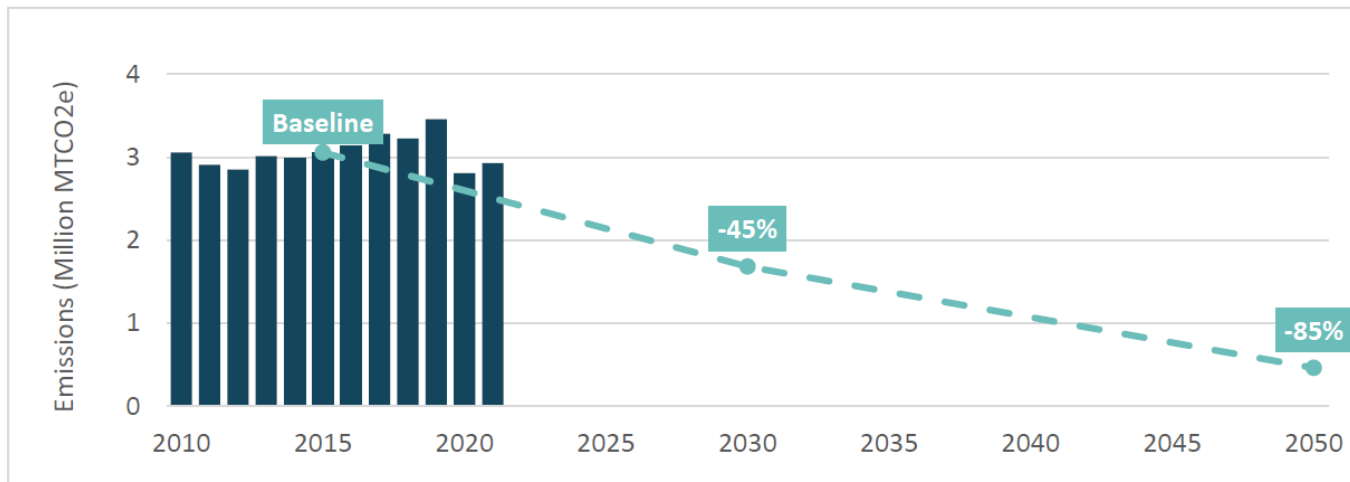


Habitat Conservation
Plan

Greenhouse Gas Emissions Inventory

Strategy G4. Conduct education and outreach across climate mitigation areas.

- The GHG inventory for the TCMP had been conducted by Thurston Climate Action Team (TCAT) and Thurston Regional Planning Council (TRPC).
- Per new interlocal agreement, Thurston County will contract with ICLEI (International Council for Local Environmental Initiatives) for countywide greenhouse gas inventory.
- Reduce costs and provide an updated emissions inventory methodology consistent with industry best practices.



Questions? Thank you!



Rebecca Harvey
Climate Mitigation Senior Program Manager
Board of County Commissioners
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City of Lacey

2023 Climate and Sustainability Projects



Background

- **2010 Carbon Reduction and Resiliency (CR2) Plan.**
- **2009 Energy Efficiency and Conservation Block Grant (EECBG).** \$164,000 was received and allocated at the City.
- **U.S. Mayors Climate Protection Agreement.** Lacey is a signatory city on the U.S. Mayors Climate Protection
- **Salmon Habitat Restoration.** 90% of Woodland Creek is protected.
- **Stormwater Treatment.** The majority of stormwater runoff from streets and parking lots is now receiving treatment before entering Woodland Creek.
- **Reclaimed Water Use.** Lacey's reclaimed water is produced by the LOTT Clean Water Alliance and used for groundwater recharge at WCCP.
- **Wetland and Environmental Protection.** Lacey was one of the first cities in the state to adopt an environmental protection ordinance. Enacted in 1992, the regulations require protection of wetlands and other critical habitat areas.



Background Cont.

- **Urban Forestry.** Lacey was also one of the first cities in the state to receive the “Tree City USA” designation from the National Arbor Day Foundation
- **2005 Multi-modal Transportation Choices.** This investment provides true alternative transportation options for bicyclists and pedestrians to core employment areas in the community, and intersects with the 23-mile Chehalis Western Trail with connections to communities in southern Thurston County.
- **LED Traffic Signals.** Lacey was the first Thurston County community to incorporate light-emitting diode (LED) technology into all of its traffic signals.
- **Green Power Community since 2007**
- **Green Power Buy Direct.** The City was among the first to sign on to PSE’s “Buy Direct” program, which directly support the Skookumchuck Wind Facility.
- **Fleet Conversion.** Nearly all of Lacey’s new municipal vehicles are capable of being powered by either electricity or 80/20 biofuel.
- **Electric Vehicle Charging Stations.**



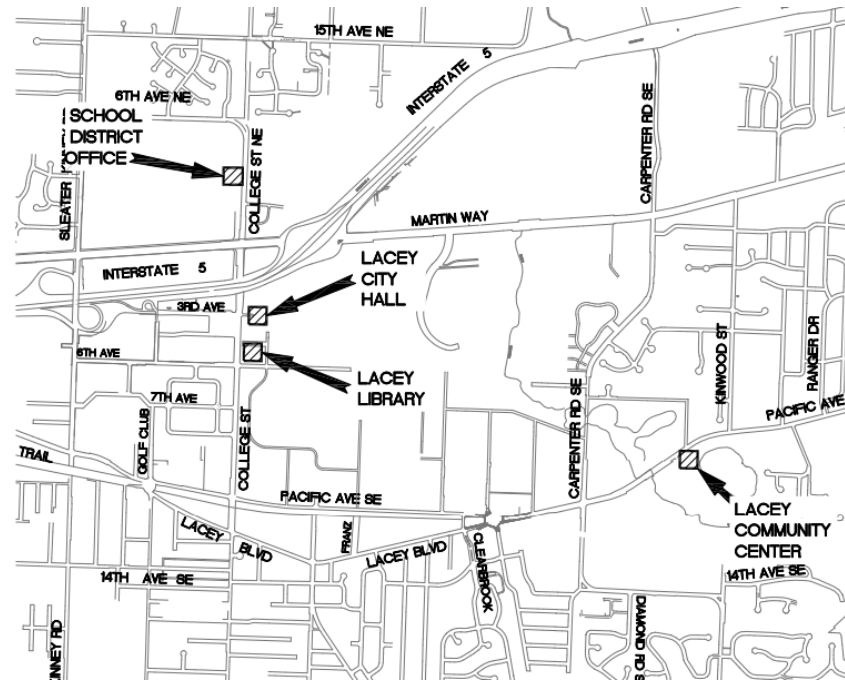
Buildings and Energy Codes

- PSE Matching Rebate- The City of Lacey is launching a matching rebate for residential energy efficiency upgrades. All residential homes within Lacey City limits will be eligible for a matching rebate through PSE.
- SolSmart-Lacey is pursuing a SolSmart designation and the program will be adopted in 2023.
- Lacey is adding a variety of new pre-designed ADU plans for pre-approval which lowers the cost and time in permitting ADUs.
- We are updating our Neighborhood/Commercial District zoning based on community outreach, feedback, and code reviews conducted at the City.
- LED Streetlight program has replaced around 75% of old lights with energy efficient LED lights.



Transportation and Land Use

- Comprehensive Transportation Plan Update.
- New EV Charging Stations at four City locations.
- College ST NE Extension
- College and 16th Phase 3
- College and 29th Phase 4
- Ruddell Road Pedestrian Beacons
- 7th Ave/College Roundabout
- Martin Way Park & Ride Improvements
- Comprehensive Plan Update ‘
- Fleet Electrification-purchasing 2 Ford Lightings



Water and Waste Sector

- Water infrastructure is replaced as needed and during transportation projects.
- Golf Club RD Water and Waste Water Improvements
- Terry Cargil Reservoir
- Update SCADA operating system from radio signal to Verizon Cellular.
- Maintain the mandatory watering schedule, and focus on the top water users.

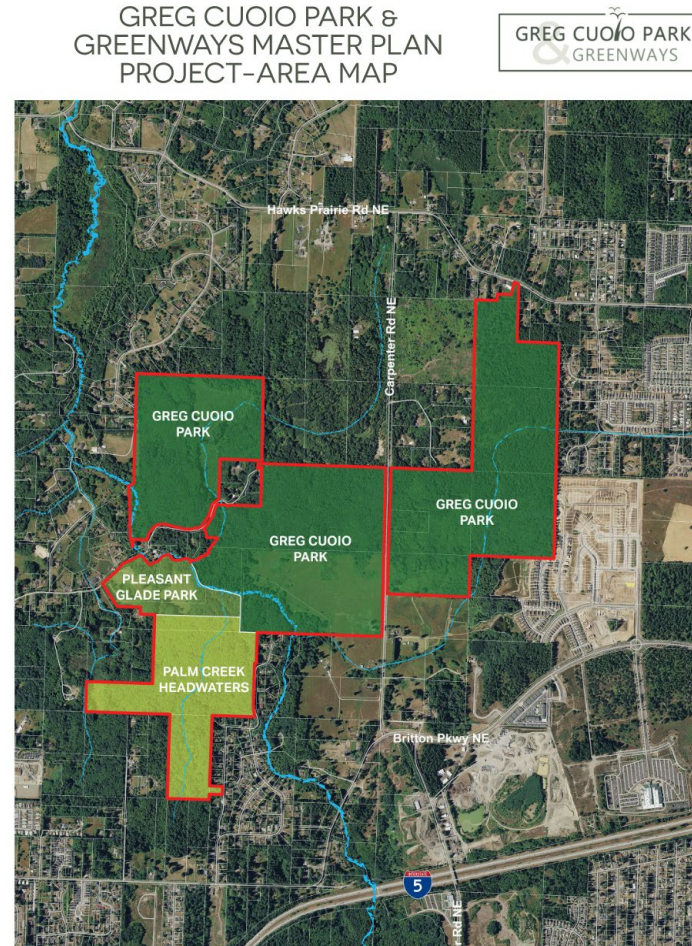


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Your watering days are:	MONDAY, WEDNESDAY & SATURDAY	Your watering days are:	SUNDAY, TUESDAY & THURSDAY	



Agriculture, Forests and Prairies

- Woodland Creek Community Park Riparian Restoration Project
- Lacey has a comprehensive forest and tree canopy program; which includes a goal of no net loss to our 2020 canopy of 28%
- Tree Canopy Analysis will be conducted in 2024
- Greg Cuoio Park and Greenways Phase 1A will begin in 2024
- Parks Comprehensive Plan Update
- Woodland Creek Oil Water Separator



Cross Cutting

- A new Climate and Sustainability Coordinator position was created and filled in 2023; job responsibilities for this position reflect cross cutting actions like conducting education and outreach.
- Inflation Reduction Act includes rebate money for residential energy audits/updates. Lacey will host information on our website when program information becomes available.
- Conduct emissions inventory in accordance with the Thurston Climate Mitigation Plan as a part of the collaborative.



PSE/Lacey Matching Rebate

The City of Lacey is partnering with Puget Sound Energy (PSE) to match rebates on PSE-provided, energy-efficiency rebates for Lacey residents who recently installed qualifying equipment. This matching rebate is funded by a City initiative as part of its Climate Action Plan.

This is a pilot program and the City has set aside \$200,000 for 2023 with the goal of extending the program year over year.

Residential energy use currently is the largest source of greenhouse gas emissions in our region.



EV Charging Stations

This contract provides for site preparation and installation of several Electric Vehicle Charging Stations at four distinct locations.

- Lacey City Hall
- Lacey Community Center
- Lacey Library
- School District Office

Two of the sites started construction in late 2022 but due to material delays the project has been on hold since December 2022. The project is expected to resume and reach completion this summer.

Five level 2 chargers and two level 3 chargers will be installed for a total of 12 charging positions once complete.



Greg Cuoio Park and Greenways

Greg Cuoio Park and Greenways encompasses 537 acres of public open space. The master plan development process started in 2021 and Phase 1A of construction will begin next year.

The site's natural amenities will enhance Lacey's overall park system with a focus on passive recreation and minimizing our footprint on the land.

Important goals for Greg Cuoio Park include:

Open-space Preservation

Water-rights Mitigation

Natural Storm Water Filtration

Water-quality Protection in the Woodland Creek Watershed

Wildlife Habitat Corridor Protection

Potential Fisheries Enhancement





City of Olympia Climate Program 2023 Workplan Update



Thurston Climate Mitigation Collaborative Retreat
June 24, 2023

Buildings and Energy

B1/B6. Decarbonize Residential Buildings

- **Energize Olympia ductless heat pump group purchase program (March – August 2023)**
 - Program exclusive discounts and incentives.
 - Installation and free site assessment from vetted installer.
 - Guidance and customer support.
 - Free installations for income-qualified households.
 - Community workshops.
- **Building Decarbonization Strategy Research**
 - Supported by AmeriCorps/Civic Spark Fellow.
 - Review of case studies, best practices, and key considerations for equitable outcomes.



B2/B6. Decarbonize Commercial Buildings

Commercial Energy Reach Code Proposal (PAUSED)

- The proposed “reach code” builds on the gains of the new energy code (WSEC) to:
 - Fully electrify new commercial construction in Olympia (with important flexibility for specific load types).
 - Accelerate the electrification retrofits of existing commercial buildings.
- The State Building Code Council voted on May 24, 2023, to delay the effective date of the 2021 state codes for 120 days. The new effective date for all building codes is October 29.
- The Council also directed SBCC staff to convene two Technical Advisory Groups to consider stakeholder proposals to modify sections in the commercial and residential energy codes. SBCC staff will compile those proposals for the full Council to consider at a later date.

B5. Increase Production of Local Renewable Energy

- **SolSmart Gold Designation (December 2022)**
 - Created a solar resource webpage at olympiawa.gov/solar.
 - Streamlined the solar permit process.
 - Identified code restrictions that prohibit solar PV development.
 - Supported a community-wide group purchase program and a community solar program.
- **Residential Solar Ready Proposal (anticipated October 2023)**
 - IBC solar-ready provisions for detached one- and two-family dwellings and townhouses.



Spotlight on Local Government Operations

- **Solar**

- Solar on 4 city-owned facilities.
- Conducted a site assessment of solar suitability on City-owned buildings.

- **LED Lighting Upgrades**

- Installed more than 300 fixtures at 108 State Street (old Family Support Center) facility in 2022.

- **Building Electrification**

- Passed a building electrification resolution, which requires new construction and major renovations of city-owned and city-funded facilities to be built all-electric (January 2022).
- Conducting an inventory of natural gas equipment in City-owned buildings.



Transportation and Land Use

T1. Urban Density

- **Neighborhood Centers Strategy (in progress)**
 - Business clusters within residential neighborhoods that serve the day-to-day retail and service needs of local residents.
- **Capital Mall Triangle Subarea Plan and Environmental Impact Statement (in progress)**
 - The vision is that over the next 20 years this area will grow into a more people-oriented urban neighborhood. A place where residents can commute to work, shop, recreate, and meet basic needs without a car.
- **Reduced Parking Minimums**
 - Reduces parking requirements for all new residential units to 0.5 spaces per unit.
 - Removes parking minimum for residential units within half a miles of frequent transit service.

T4/TG. Public Transit and Active Travel

- **Franklin Street pedestrian connection improvements (completed 2022)**
 - New sidewalks
 - Curb bulb outs at intersections
 - Improved streetlighting
 - Bike racks
 - Public art
- And many more projects to make it safer and easier to walk and bicycle.



T3. Electric Vehicles

- **EV-Ready Parking Proposal (anticipated July 2023, effective October 2023)**
- The proposed standards build on the gains of the new state building code to:
 - Make all new residential parking EV-ready (includes EV-Capable, EV-Ready, and EVSE-Installed).
 - Increase EV-readiness for non-residential buildings.
 - Accelerate EV-readiness retrofits for existing buildings undergoing significant renovations.



Spotlight on Local Government Operations

- **Two public chargers at City Hall.**
- **Issued RFP for a consultant to develop a fleet electrification and charging mater plan.**
- **Approved a new City Fleet Vehicle Acquisition Policy (June 2020).**
 - Requires all new City vehicles to be zero emission vehicles (ZEV).
 - When an exception is granted to purchase a non-ZEV, the requesting department will be charged an annual mitigation fee for the social cost of carbon associated with use of the vehicle.



Agriculture, Forests, and Prairies

A5/A6/A7. Preserve tree canopy and manage forests and prairies to sequester carbon.

- **Tree Canopy Assessment (anticipated July 2023)**
- **Urban Heat Island Assessment (Summer 2023 and 2024)**
- **Tree Plantings and Restoration (ongoing)**
 - During the 2021/2022 planting season, Olympia Parks and Public Works staff planted more than 1,800 trees.

Cross-Cutting

G1. Education and Outreach

- **Olympia Climate Response Webpage (olympiawa.gov/climate)**
- **Olympia Climate Action Newsletter (olympiawa.gov/news)**
- **Targeted outreach for ongoing programs:**
 - Energize Olympia
 - Climate Risk and Vulnerability Assessment
- **Climate and Equity Frameworks**
 - Standard framework for City Staff to conduct a climate and equity assessment for all City projects, plans, and policies.
 - In-depth training for staff “super-users”.
 - On demand training and drop-in support available for all staff.

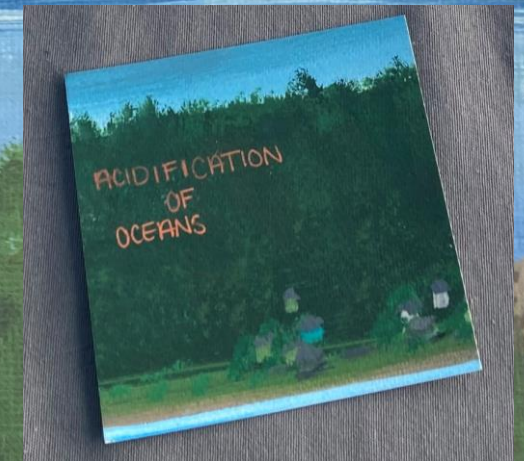
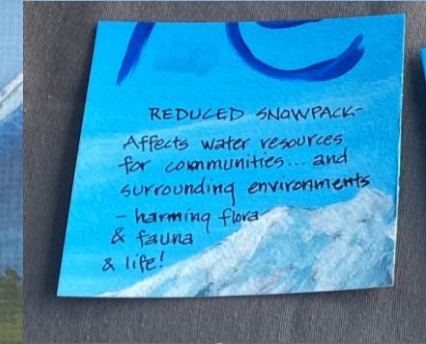
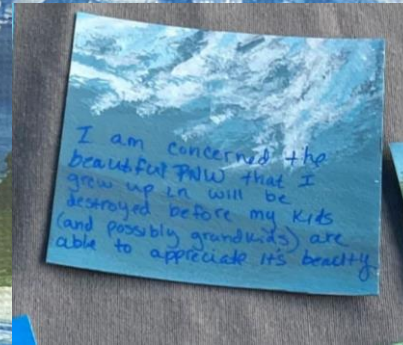
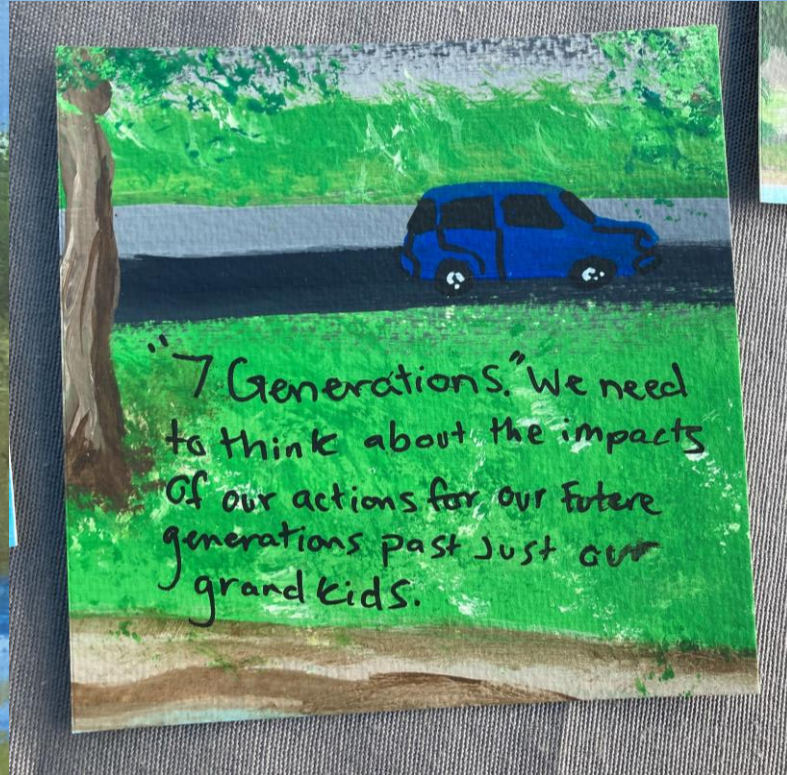


Energize Olympia Workshop 1



Climate Risk and Vulnerability Assessment Workshop

From Risk to Resilience



G4. Monitoring and Evaluation

- **Regional Greenhouse Gas Emissions Inventory**
- **Olympia Greenhouse Gas Emissions Inventory**
 - Community-wide Inventory + Carbon Wedge Analysis
 - Local Government Operations Inventory
- **Climate Risk and Vulnerability Assessment**
 - An assessment of the ways in which a community or region is susceptible to the impacts of climate change.

G6. Advocate for State and Federal Policy

- **2021 State Building Code Updates (2022-2023)**
 - City Council letters in support of commercial and residential energy code updates.
 - City Staff and Council Member testimony in support of energy code updates.
- **2023 Legislative Session**
 - Testified in support of SB 5562. Supporting Washington's clean energy economy and transitioning to a clean, affordable, and reliable energy future
- **2022 Legislative Session**
 - Testified in support of HB 1767. Targeted electrification.
 - Testified in support of HB 1776. Clean heat plans.
 - Testified in support of SB 5722. Building Performance Standard.

Thank you!

Pamela Braff

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City of Tumwater Climate Mitigation Update

Alyssa Jones Wood

Sustainability Coordinator



Buildings & Energy

Progress made in 2022 and 2023 so far

- LED Lighting Retrofit at the Tumwater Timberland Library completed December 2022
- Ground-mounted solar installed at two water infrastructure locations
- “Solar in Tumwater” webpage
- Coordinated with PSE for multiple days of site visits to Tumwater businesses for participating in their Small Business Energy Assessments Program

In progress or slated for 2023 and 2024

- “All-Electric Buildings” webpage
- Design of our new all-electric Operations & Maintenance Building
- Submitting for SolSmart Silver accreditation
- Investment Grade Audit for City Facilities with decarbonization measures to be proposed
- Adopting State Building Code update



Buildings & Energy



Transportation and Land Use

Progress made in 2022 and 2023 so far

- ADUs
- Transportation efficiency projects
- Participated in 2 TCAT EV Car Shows
- Revised City Commute Trip Reduction Policy
- Added 3 Level 2 EV Chargers at City Hall
- “Lower Carbon Transportation” section of Sustainability webpage
- Received 1 more EV into our fleet and ordered 10 more
- Purchased renewable diesel for Street Sweeper

In progress or slated for 2023 and 2024

- Comprehensive Plan update
- Design and/or construction for various transportation efficiency projects
 - Traffic Signal Controller and Detection Upgrade
 - I-5/Trosper Reconfiguration
- Adopting State Building Code update
- Fleet Electrification Assessment
- Pedestrian and Bike Infrastructure Project Design and/or Construction



Transportation and Land Use



Water and Waste

Progress made in 2022 and 2023 so far

- Investment Grade Audit of City Facilities
- Launched composting collection at City Facilities for City Operations
- Started including recycling and compost diversion at City Events, supported by volunteers
- Passed a Compost Procurement Ordinance for City Operations
- “Waste Reduction” section of the Sustainability webpage

In progress or slated for 2023 and 2024

- Continuing all composting programs
- Completion of the Investment Grade Audit and following through with recommendations for water and energy efficiency improvements



Water and Waste



Agriculture, Forests, and Prairies

Progress made in 2022 and 2023 so far

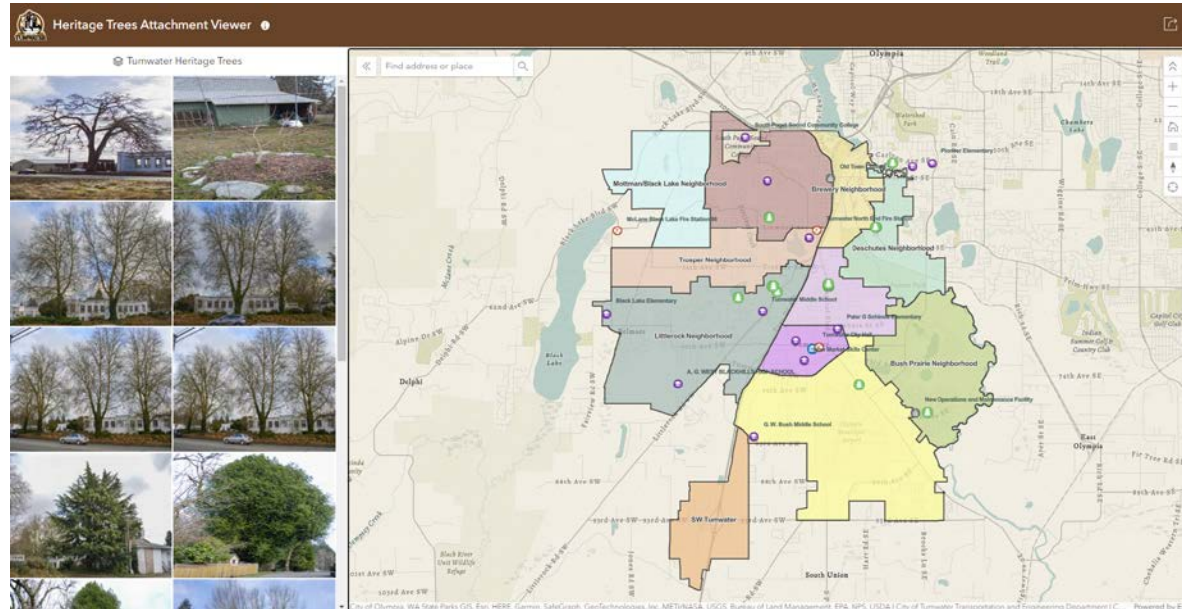
- Tumwater FRESH program teaches regenerative agriculture practices
- Began the revision of our Tree & Vegetation Protection Code (TMC 16.08), Street Tree Code (TMC 12.24), and Landscaping Code (TMC 18.47)
- Continued to work on our Habitat Conservation Program for Prairie habitat
- We were awarded a \$40,000 grant from DNR to inventory all trees on City properties and create a maintenance plan and budget
- Added 5 new Heritage Trees for protection
- Gave away 100 native trees and shrubs for Arbor Day 2023

In progress or slated for 2023 and 2024

- Adoption and implementation of the tree-related and landscape code amendments
- Continued progress adding Heritage Trees
- Continued progress on Habitat Conservation Plan
- Completion of the grant-funded Inventory project



Agriculture, Forests, and Prairies



**HELP STEWARD
TUMWATER'S URBAN
AND COMMUNITY
FOREST!**

Scan the QR code or visit the **Tumwater Urban & Community Forest Online Open House Website** for project updates, links to community meetings, and a public comment portal.

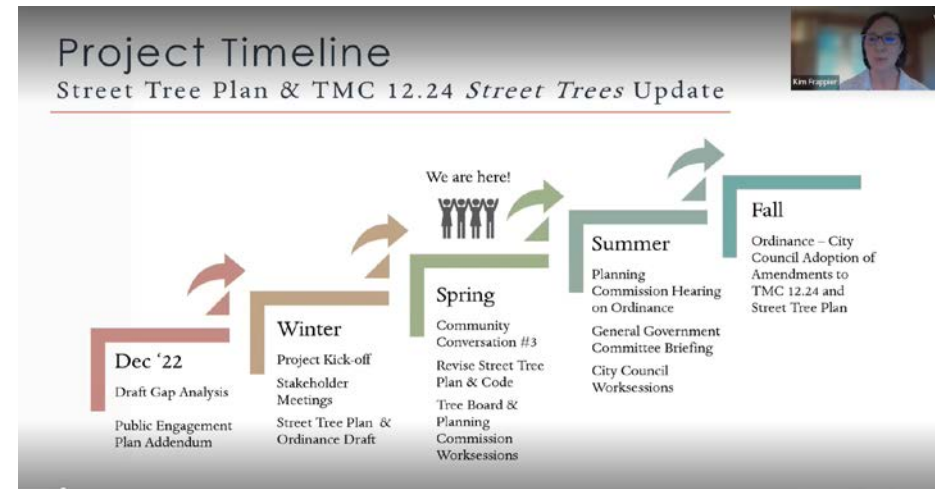
tumwatertreecity.com





**Tumwater Urban and Community Forest
Online Open House**

Help Steward Tumwater's Trees!

Urban Forestry Management Plan (2021) & Tree Board

CITY OF TUMWATER **URBAN FORESTRY MANAGEMENT PLAN**



"The Right Tree in the Right Place"



Community Development - City of Tumwater

City of Tumwater City Council
Adopted March 2, 2021 by Ordinance No. 2020-004



Cross-Cutting

Progress made in 2022 and 2023 so far

- 2021 Green Team Annual Report including 2021 City-Operations Greenhouse Gas Emissions
 - 70% reduction in **net** emissions for City Operations
- Started tabling quarterly at a Tumwater distribution of the Thurston County Food Bank
- Began building relationships with several agencies, community-based organizations, and groups
- Hosted 4 interns from Evergreen State College in Spring 2023 Quarter
- Inclusion of climate change on Legislative Agenda

In progress or slated for 2023 and 2024

- 2022 Green Team Annual Report including 2022 City-Operations Greenhouse Gas Emissions
- Summer Intern from Evergreen State College
- Continued commitment to including climate mitigation on Legislative Agenda



Cross-Cutting



Grant Proposals Pending Decision

Grant Program	Project Proposed	Funding Requested
Department of Commerce CEF ETS EV Charging	Solar-Powered Off-Grid EV Charger at Pioneer Park with other e-mobility charging options	\$91,090
Department of Commerce Solar + Storage	Solar + Storage Feasibility Study for City Hall	\$14,900
Department of Commerce Solar + Storage	Solar + Storage Feasibility Study for the Tumwater Timberland Library	\$14,900
US Forest Service URA Community and Urban Forestry	Funding for salary/benefits for an Urban Forester position, urban heat monitoring equipment, and tree related incentives designed for low- and moderate- income residents	\$334,589
Department of Energy's Energy Efficiency Block Grant Competitive Program (Tumwater is too small for Formula Funding)	Home Audit and Electrification Campaign Pilot including Energy Concierge	\$419,600
TOTAL FUNDING REQUESTED		\$875,079



Thank you!



Selection of Annual Regional Initiative

Thurston Climate Mitigation Collaborative - Staff Team

Regional Climate Mitigation Retreat

June 24, 2023

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Today's Goal

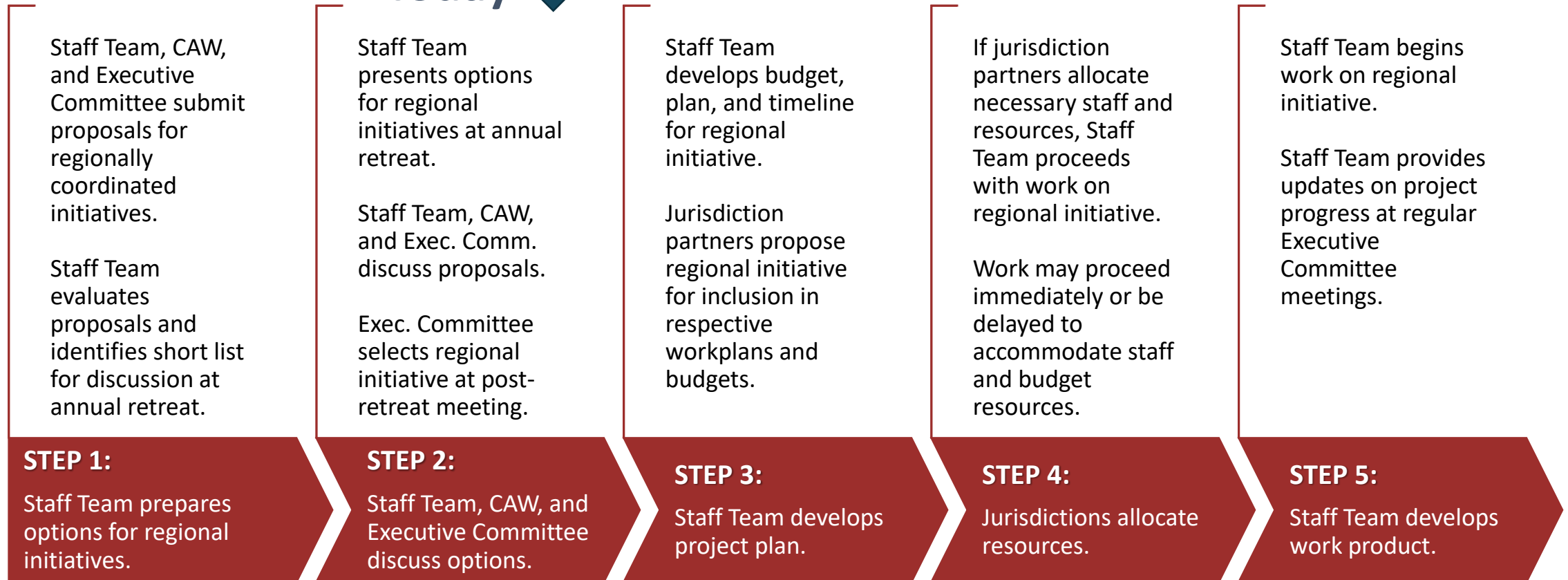
Build consensus around one Regional Initiative

A Regional Initiative is an action that all four TCMC jurisdictions will work together on with the support of their elected officials in 2024.

- Staff Team Presentation
 - Process for developing short list of Proposed Regional Initiatives
 - Summary of each Proposed Regional Initiative
- Breakout Groups
- Full Group Discussion / Consensus Building
- After Today:
 - 6/26 - Present Regional Initiative to Executive Committee for approval
 - Jurisdictions will consider including in 2024 work plans and budgets

Proposed Process for Regional Initiatives

Today ↓



Selection of a regional initiative by the Executive Committee does not guarantee that it will be implemented by the Staff Team. Jurisdiction partners must approve the necessary staff, resources and budget for this work to occur.

Executive Committee advocates for allocation of staff and budget resources.

Executive Committee supports and champions completed work product.

Selection of Potential Regional Initiatives

April – June 2023

- Community Advisory Workgroup (CAW) proposed initiatives at their April meeting and built consensus around top priorities.
- Executive Committee members provided their priority initiatives to Staff Team.
- Staff Team compiled a Matrix of all proposed regional initiatives.
- Tree protection initiatives were added based on Staff review of policy options in Carbon Sequestration White Paper.
- Staff Team evaluated all initiatives to develop a short list of Potential Regional Initiatives for discussion at the Annual Retreat.

Criteria for advancing proposed initiatives

- Is this initiative consistent with TCMP Strategies?
- Is this initiative substantially improved by regional coordination?
- Are jurisdictions one of the right entities to implement this action?
- Other Considerations, e.g.:
 - Already underway in partner jurisdiction(s)
 - Need for additional research or analysis
 - Already addressed by state policy
- Was the initiative proposed by the CAW full group, CAW individual member, and/or the Executive Committee? (priority given to items proposed by more than one person)



Buildings and Energy Initiatives

RESIDENTIAL ENERGY AUDITS

HOME ENERGY AUDIT AND EFFICIENCY CAMPAIGN

HEAT PUMP GROUP PURCHASE CAMPAIGN

1. Residential Energy Audits

Objective

- Develop a proposed policy and budget to implement a regional Home Energy Score (HES) disclosure policy and program.

Background

- Most homes in the Thurston region were built before 1988, and more than two-thirds of the housing units that will exist in 2050 already exist today.
- Limited information on the energy performance of new and existing housing is a barrier to improving residential energy efficiency. Without this information, it is challenging for consumers to prioritize energy efficiency in home purchasing and improvement decisions.
- A home energy labeling program provides homeowners and homebuyers with an assessment of home energy performance, expected energy costs, and cost-effective improvements to reduce energy use and costs.

1. Residential Energy Audits

Target Outcomes

- A model ordinance, which requires disclosure of residential energy performance ratings for residential buildings at the time of listing.
- Community engagement to solicit community input on the development of the model ordinance and identify potential barriers for successful implementation.
- Program proposal and budget for regionally coordinated implementation of the proposed model ordinance. Program budget may include costs such as program development and administration, workforce training, and quality assurance.
- All TCMP Partner consider the proposed policy and budget request for regionally coordinated policy adoption and implementation.

2. Energy Audit & Efficiency Campaign

Objective

- Design and implement a regional home energy efficiency and electrification campaign.

Background

- The Inflation Reduction Act (IRA) established several new federal rebates (e.g., Home Efficiency Rebates and Home Electrification and Appliance Rebates) to help households implement energy efficiency and electrification improvements.
- Limited technical support makes it difficult for homeowners to understand which improvements are most cost-effective for their households and navigate existing state, federal, and utility incentives.
- A Home Energy Audit and Efficiency Campaign would help community members utilize the forthcoming federal rebates by synthesizing relevant information and resources, conducting marketing and outreach to ensure broad community awareness, and providing technical and customer support for interested participants.

2. Energy Audit & Efficiency Campaign

Target Outcomes

- Design and implementation of a regional home energy audit and efficiency/electrification campaign, including:
 - Development of a shared program vision and goals.
 - Community outreach, education, and marketing.
 - Program incentives, rebates, and customer support.
 - Subsidized installations and assessments for low- and moderate- income households.
 - Contracts with third-party partners, as needed, to implement the program.

3. Heat Pump Group Purchase Campaign

Objective

- Implement a regional heat pump group purchase campaign to support community-wide adoption of air source heat pumps throughout Thurston County.

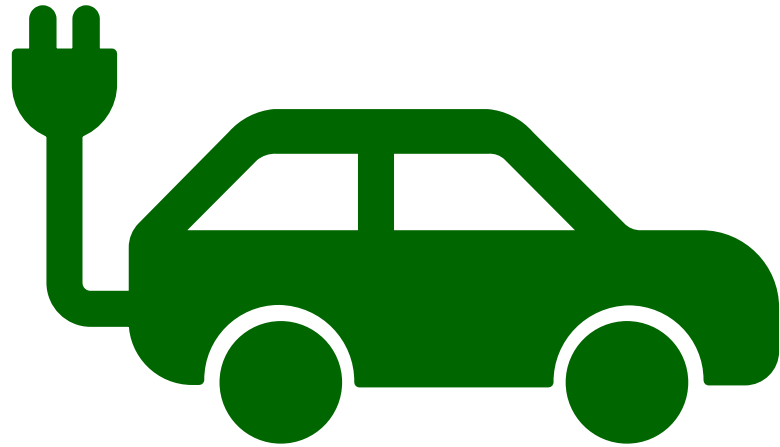
Background

- In Spring 2023, the City of Olympia launched a heat pump group purchase pilot program (Energize Olympia) to increase community awareness of the benefits of heat pump technology and increase local installations of air source heat pumps.
- As of June 20, 2022: More than 50 potential installation leads in progress (including 17 full subsidized installations for low- and moderate-income households).
- While conducting community outreach for the program, staff also met residents of Lacey, Tumwater, and the Thurston County who indicated their interest in participating in the program. A larger, county-wide campaign in 2024 would enable more community-members to access support and incentives for heat pump retrofits.

3. Heat Pump Group Purchase Campaign

Target Outcomes

- Design and implementation of a regional home energy audit and efficiency/electrification campaign, including:
 - Development of a shared program vision and goals.
 - Community outreach, education, and marketing.
 - Program incentives, rebates, and customer support.
 - Subsidized installations and assessments for low- and moderate- income households.
 - Contracts with third-party partners, as needed, to implement the program.
- Submission of 1 or more joint grant applications to fund subsidized installations for low- and moderate-income households.



Transportation and Land Use Initiatives

REGIONAL EV INFRASTRUCTURE PLAN

PUBLIC EV INFRASTRUCTURE PLAN

4. Regional Electric Vehicle (EV) Infrastructure Plan

Objective

- Develop a regional Electric Vehicle Infrastructure Plan.

Background

- Washington State has set a target for all model year 2030 or later passenger and light-duty vehicles sold in Washington State to be electric vehicles.
- There is no regional plan for the deployment of EV infrastructure in the Thurston region.
- Currently, Thurston region jurisdictions plan and deploy EV charging largely based on opportunity rather than a data-driven plan for regional transportation.

4. Regional EV Infrastructure Plan

Target Outcomes

- A Regional EV Infrastructure plan that includes (at minimum)
 - Future projections of available EV charging considering adopted EV charging, ready, and capable requirements and future development;
 - Suggested locations for the deployment of DC Fast Charging and Level 2 charging;
 - Prioritization of those locations; and
 - Timeline necessary for the deployment of those stations to meet current and future demand.

5. Public Property EV Infrastructure Plan

Objective

- To understand and plan for providing/siting community EV charging on public properties. This information can be used either for jurisdictions to directly install or for jurisdictions to work with third-party charging contractors.

Background

- Many jurisdiction-owned facilities have reached capacity for existing electric infrastructure.
- To be competitive for future grant opportunities to fund the installation of EV charging, jurisdictions must first know what capacity there is to add charging, what electrical infrastructure would be needed to support charging, and what those associated costs and timelines might be.
- This concept was proposed to the Department of Commerce for an ETS Grant in 2022 by Tumwater, Olympia, and Thurston County. That proposal was not awarded.

5. Public Property EV Infrastructure Plan

Target Outcomes

- Project sheets outlining the needs and future costs to deploy EV charging at public facilities, including right-of-way, for each jurisdiction.



Trees and Forestry Initiatives

RURAL/URBAN TREE OUTREACH AND EDUCATION

RURAL TREE CANOPY TARGETS

STATE FOREST LANDS MANAGEMENT ADVOCACY

Analysis of Policy Options for “Forests & Trees”

Action	Sequestration Potential	Current Status	Propose as Potential Regional Initiative? (6/24/23 Retreat)
Rural/Forest Landowner Outreach and Technical Support Program	Medium	Partners work with rural landowners, but no broad regional program	Yes
Urban Tree Outreach and Technical Support	Low	Some prior efforts by cities	Yes (combine with rural outreach program)
Regional Urban Tree Canopy Assessment	Enabling	Nearly complete for Thurston County and Olympia	No
Tree Canopy Targets	Enabling	Next step for TC; Tumwater has established targets	Yes (advocacy)
Urban Tree Management Plans and Code Review	Medium	Recently completed in Lacey and Tumwater; planned in Olympia and TC/UGAs	No
Forest Conversion Ordinance and Rural Tree Standards Update	High	Updated Forest Conversion Codes currently under review; rural tree standards will be next.	No
Comprehensive Plan Review and Update	High	All jurisdictions are planning Comprehensive Plan updates, but with different structures and timelines.	No
State Forest Lands Management Advocacy	High	Ongoing	Yes (advocacy)

Analysis of Policy Options for “Forests & Trees”

(Continued)



Action	Sequestration Potential	Current Status	Propose as Potential Regional Initiative? (6/24/23 Retreat)
Working Forest Conservation Easements	High		
Community Forests	High	Upon completion of the tree canopy assessment, Thurston County plans to use best available data to establish targets and actionable forest conservation goals in the Comprehensive Plan Updates. Programs listed here will be prioritized as potential strategies to reach the goals set throughout the public process.	No
Regional Tree Fund	Enabling		
Rural Forest Carbon Credit Program	High		
Urban Forest Carbon Credit Program	Low		
Transfer of Development Rights Program Update	Medium	More information can be found here as the project progresses: www.thurstonforests.org	
Land Conservation and Restoration Capacity	Enabling		
Reforestation/Afforestation Projects	High		

6. Rural/Urban Forest Outreach & Education Program

Background

- All jurisdictions identified the need for outreach and education about tree protection.
- Carbon Sequestration paper recommends rural and urban outreach/technical support programs.
- Local partners (TCD, WSU) provide ongoing technical support, so staff recommends making this a more general community-wide educational program.

Target Outcome: Regional “Healthy Forest” Education Campaign

- Consistent, science-based messages about tree benefits, healthy forestry practices, and laws
- Quantifiable community engagement through multi-media marketing
- May include specific rural and urban elements

Key Considerations

- **Pros:** Unified program for political support; feasible next step for jurisdictions; may leverage work of partner organizations
- **Cons:** Funding needed for program development and ongoing implementation

7. Rural Tree Canopy Targets*

Background

- Thurston County Healthy Forests Project is underway, including code updates and canopy assessment.
- Tree Canopy Targets are next step to inform Comp Plan updates and enable programmatic actions.
- Staff recommends setting regional targets focused on rural Thurston County because of outsize impact of rural forests in the region's carbon sequestration, and some cities have already adopted targets.

Target Outcomes

- Apply canopy assessment data to set targets for tree canopy at the regional level
- Targets, goals and policies to be integrated into County Comp Plan to guide future programs
- Cities may engage primarily as advocates and/or develop urban tree canopy targets

Key Considerations

- **Pros:** Political support for rural forest protection, well-timed with Comp Plan updates, low costs, potential partner support
- **Cons:** Primarily a Thurston County initiative

** Advance via Executive Committee Advocacy, with minimal Staff Team involvement.*

8. State Forest Lands Management Advocacy*

Background

- Washington State (mainly DNR) manages significant areas of timberland within Thurston County.
- Elected officials and other TCMP stakeholders have been advocating for legacy forest protection.
- “State Forest Lands Management Advocacy” is identified by the CSWP as a broader, high-impact action.

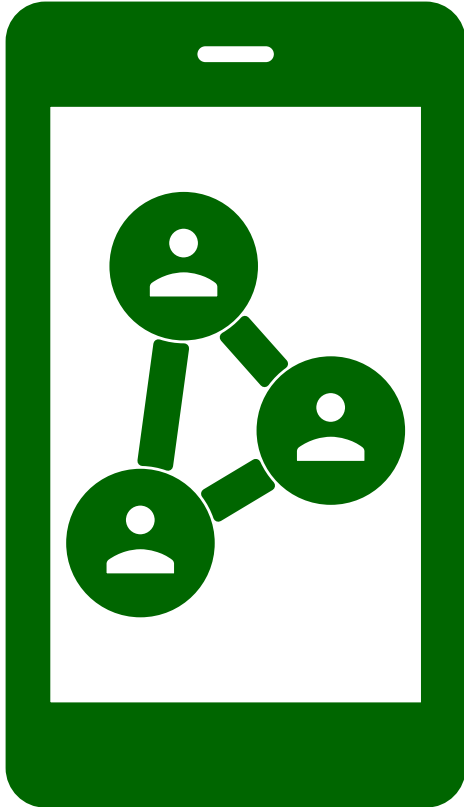
Target Outcome: State Forest Lands Management Advocacy Campaign

- Legacy forest protection including a dedicated funding source for replacement purchases
- Changes to DNR forest cutting permit rules (e.g., requiring carbon impact analysis, increasing protections of critical areas, creating incentives for climate-smart forestry practices)
- DNR enrolling more of its land in its Carbon Project
- Employing extended harvest rotations on DNR lands in Thurston County

Key Considerations

- **Pros:** Momentum from ongoing advocacy, low costs, potential high carbon sequestration impact
- **Cons:** Advocacy best achieved by elected officials, with minimal role for the Staff Team

* Advance via Executive Committee Advocacy, with minimal Staff Team involvement.



Cross-Cutting Initiatives

COMMUNITY BASED SOCIAL MARKETING CAMPAIGN

9. Communication and Outreach-CBSM Campaign

Objective

- Develop an education campaign that follows community based social marketing guidelines to advance knowledge and participation in the Thurston Climate Mitigation Collaborative (TCMC); or increase individual participation in reducing carbon footprints.

Background

- TCMC has been working together since 2020 to implement the Thurston Climate Mitigation Plan and take steps to reduce GHG emissions. Other than annual progress reports no steps have been taken to update the larger community on our work.
- The Inflation Reduction Act (IRA) is a historic act which gives unprecedented funding to local governments and residential home owners for energy efficiency updates.
- Homeowners will need resources to access funds and apply for IRA programs, in addition community members would benefit from access to resources to help transition to clean energy and lower their household's carbon footprints.

9. Communication and Outreach-CBSM Campaign

Target Outcomes

- Education Campaign: more community members are aware of the TCMC's work and access programs through the proper jurisdiction. Surveys could be used to quantify knowledge and behavior change resulting from education campaign.
- Resource Sharing for IRA: Increase participation in federal programs and incentives through the new IRA funding pools, web page hosted on the TCMC website; specific outcomes could be web page hits or web page to application conversions.
- Carbon footprint Campaign: web page hosted on the TCMC website. Could include a carbon footprint reduction pledge with links to specific climate programs in each jurisdiction. Outcomes could include number of pledges and program participation.

Decision Options

- Option 1
 - Reach consensus on one of the Proposed Regional Initiatives to advance to the Executive Committee for approval.
- Option 2
 - Reach consensus on one of the Proposed Regional Initiatives to advance to the Executive Committee for approval, AND
 - Advance one or more additional initiatives (*marked with **) for the Executive Committee to champion with minimal staff involvement.

Questions & Discussion



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