Appendix 10.3. Communitywide Actions List

Thurston Climate Mitigation Plan Climate Actions Menu

As of: **7/2/2020**

	KEY
В	Buildings & Energy actions
Т	Transportation & Land Use actions
W	Water & Waste actions
A	Agriculture & Forests actions
G	Cross-cutting actions
Action ID#	Unique identifier for each strategy and action
short name	1-3 word description of action
description	1-2 sentences describing action - see box for example of a well-defined
	action description. Additional details beyond 1-2 sentences can be
	included in "other notes"
source	person/entity that suggested or plan that provided the action
date added	The date that the action was added to the menu
implementor	agency or organization that could lead the action
potential partner	agency or organization that could participate in implementing the action
target stakeholders	groups affected by the action
opportunities	existing programs, partnerships, funding sources, legislation, regulations,
	or other resources that exist to support the action
barriers	potential obstacles to implementing the action, such as regulation, lack
	of expertise, lack of will, knowledge gaps, etc. Cost will be considered at a
	later step in the process, and should not be listed as a barrier at this
	stage.

This list of strategies and actions was developed by Thurston Regional Planning Council and Cascadia Consulting Group, with input from the Sector Focus Groups and Climate Advisory Workgroup of the Thurston Climate Mitigation Plan.

Example of a well-defined climate action

T1.1 urban infill

(source: Adaptation Plan action G-12)

clear policy mechanism

who will actually do the work

Increase local government incentives (e.g., tax credits and fee waivers) to make urban infill and redevelopment projects more viable financially.

what's affected

B Focus Area: BUILDINGS & ENERGY

Strategie

- 1: Reduce energy use in residential building
- Reduce energy use in existing commercial/industrial buildings.
- B 3: Peduce energy use across building type
- B. A: Paduce energy use in new or redevelopmen
- P. E. Increase the production of local renowable energ
- B.6: Convert to cleaner fuel sources.
- B.7: Address building and energy goals across sectors

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Action ID#	short name	description	source	date added	implementor	potential partners	target stakeholders	opportunities	barriers
B.1: Reduce e	nergy use in residential buildings.								
B1.1	residential energy performance ratings	Require energy performance ratings and disclosures for homes at time of sale, lease, or rent so that owners, tenants, and prospective buyers are informed before making purchasing or rental decisions.	Cascadia Consulting	Aug. '19	State and Local government	Realtors	realtors; home owners; low- income; rural communities	Emphasize benefits like higher resale value and lower maintence costs for property owners/ landlords.	
B1.2	residential energy audits	Develop and adopt policies that require residential properties to undertake an energy audit at the time of sale or during a substantial remodel. Work with financial institutions to develop mortgage products that incorporate audited energy efficiency recommendations.	Adaptation Plan	Jan '19	State and Local government	remodeling professionals, PSE, energy auditors, real estate professionals	realtors; home owners; low- income; rural communities	Review similar policy applied in Berkeley, CA and Portland, OR A potential model for Thurston County: The nonprofit Enhabit (enhabit.org), which grew out of a City effort, works with homeowners and partners to score home energy efficiency and advise on upgrades.	What is the percentage turnover of residential homes in the region annually? People who are already interested in this program are participating. What education and outreach? Short-term home owners are harder to convince to make investments in property.
B1.3	residential energy retrofit program	Partner with energy audit providers and loan providers to establish and market residential energy efficiency and weatherization retrofit programs, with a focus on low-income residents, low-interest loans, and post audit follow-through.	Cascadia Consulting	Aug. '19	Non-profit	energy auditors	Realtors; home owners; renewable energy companies; small business; lenders	Review/bring back Thurston Energy - a program that was once run by the Economic Development Council (EDC) providing free or subsidized energy efficiency audits and offering free or subsidized retrofits	
B1.4	rental housing EE incentives	Provide property tax breaks for landlords who install energy conservation measures in rental housing.	Cascadia Consulting/B Focus Group #1	Aug. '19	Local/state government	Landlords, property managers, renters	Realtors; landlords, property managers, renters		
B1.5	property tax credit	Create a property tax credit for property owners who participate in energy efficiency.	B Focus Group #1	Sep-19	Local/state government				
B1.6	rental housing EE baseline	Pass an ordinance to require rental units to meet baseline levels of energy efficiency and make more stringent over time.	Cascadia Consulting	Aug. '19	Local government	Landlords, property managers, renters	low-income communities; landlords, property managers, renters		PSE: Washington recently implemented a new building code and we now have one of the most progressive in the country. I'm concerned that, anything that increases the cost of housing amidst a housing crisis is going to be both counterproductive and nearly impossible to implement.
B1.7	residential utility outreach	Expand utility outreach to residential electricity customers about the benefits of clean and efficient energy technologies/practices and available rebates and bill credits for efficient appliances and equipment. Focus on neighborhoods with older buildings and create group packages for efficiency upgrades, if possible.	Adaptation Plan	Jan '19	PSE	Local government, equipment vendors, remodeling contractors, non profits	residents	Community action campaign	How do we get people to participate in programs/ offers that already exist?
B1.8	landlord education	Educate landlords on options and benefits for improved energy efficiency.	B Focus Group #1	Sep-19	Local government	nonprofit, property management companies			
B.2: Reduce e	nergy use in existing commercial/industrial build	dings.			"	companies			
B2.1	commercial energy benchmarking & disclosure	Require energy performance ratings for commercial structures be disclosed so that owners, tenants, and prospective buyers are informed before making purchasing or rental decisions.	Cascadia Consulting	Aug. '19	state and Local government		realtors (commercial)		
B2.2	commercial energy audits	Develop and adopt policies that require commercial properties to undertake an energy audit at the time of sale or during a substantial remodel.	Adaptation Plan	Jan '19	State and Local government		construction companies/ contractors; realtors (commercial)	Review similar policy applied in Berkeley, CA	
B2.3	LED lighting	Install LED lighting in public-sector buildings and infrastructure (e.g., street lights, traffic signals).	TRPC	Note 1	Local government				
B2.4	commercial lights-out	Introduce a "lights-out" policy that encourages businesses to turn off their signs and other lights at night when they are closed.	Lacey CR2 plan	Jan '19	Local government				
B2.5	commercial utility outreach	Expand utility outreach to commercial power customers about the benefits of clean and efficient energy technologies and practices.	Adaptation Plan	Jan '19	PSE			Incentives and penalties associated with House Bill 12587 (2019 Session) - \$1/square foot penalty after 2026 when requirement kicks in	If EE and conservation are successful, utilities operators business model affected. Need to plan for potential obsolescence of utility companies and implications
B2.6	cool roofs	Create an incentive program for the installation of reflective roofs on commercial buildings to reduce building energy consumption and the urban heat island effect.	Adaptation Plan	Jan '19	Local government			See Denver, CO program: https://www.denvergov.org/content/denvergov/en/denver-development-services/commercial-projects/green-roof-initiative.html	
								Incentives and penalities associated with House Bill 12587 (2019 Session) - \$1/square foot penalty after 2026 when requirement kicks in.	
B2.7	commercial utility rebates	Offer additional utility rebates or bill credits to encourage businesses to buy and install energy-efficient appliances and equipment.	Adaptation Plan	Jan '19	PSE			Incentives and penalities associated with House Bill 12587 (2019 Session) - \$1/square foot penalty after 2026 when requirement kicks in	Upfront investment needed, no cash to follow through with offers.
B2.8	performance standard	Set energy efficiency performance standards for commercial buildings with gross floor areas smaller than 50,000 square feet.	B Focus Group #1	Sep-19	Local government		construction companies/ contractors; realtors (commercial)		Could this be done on a local level, or would it need to be done through State Building Code Council? PSE: Washington recently implemented a new building code and we now have one of the most progressive in the country. I'm concerned that, anything that increases the cost of housing amidst a housing crisis is going to be both counter-
									productive and nearly impossible to implement.
B2.9	municipal building retrofits	Continue to identify and implement priority energy efficiency improvements in municipal buildings.	CAW	Oct-19	Local government				
B2.10	energy project grants	Secure grant funding for high-profile, innovative energy efficiency and/or technology projects on commercial buildings in the county.	CAW	Oct-19	Commercial property owners				
B.3: Reduce e	nergy use across building types.					<u> </u>			<u></u>
B3.1	energy education	professionals, building owners and managers on all aspects of energy efficient building design, retrofits, and operations for new and existing	CAW	Oct-19	Local government	Nonprofits, colleges			
	1	buildings.	l			-	_	1	

B3.2	efficiency rebate	Adopt "energy efficiency as a service" utility rebate model to direct energy savings to building owners who bear the costs of energy efficiency retrofits.	CAW	Oct-19	UTC, PSE				
B3.3	PACE	Assess whether PACE is still desirable and, if so, how local and state policymakers could pursue a legislative solution or state constitutional	TRPC-ST Plan	Jan '19	State government				
B3.4	exemplary buildings	amendment to develop a PACE program. Create a Zero-Energy Building Challenge by partnering with public, private, non-profit and faith-based organizations. Facilitate rapid deployment and public awareness of high-profile demonstration buildings.	CAW	Oct-19	Local government	Public and private organizations			
B3.5	green building tracking	Develop data methodology to monitor use and impacts of green building incentives, to inform future incentives and develop recommendations for policy or programs.	CAW	Oct-19	TRPC				
R / Paduca a	energy use in new or redevelopment.	poncy or programs.				<u>'</u>	<u>'</u>		
D.4. Reduce e		Adopt the International Court County stice Code (I-CC)	TRAC	Note 1	Charles and a second	In and an arrange to distance and a			
B4.1	green construction code	Adopt the International Green Construction Code (IgCC).	TRPC	Note 1	State government	local government, building code inspectors, OMB			
B4.2	green building tracking	Develop data methodology to monitor use and impacts of green building incentives, to inform future incentives and develop recommendations for policy or programs.	Adaptation Plan	Jan '19	TRPC			Mandate energy efficent performance standards at point of sale (carrot & stick) Develop ways to regulate and require implementation then reward and incentivize participation	Adapatation of the existing building code, motivations for participants? Landlords- split incentives between owner and renter? New buildings are not reflecting these goals/ outcomes. E.g. no solar, no energy efficency shift.
B4.3	commercial EE recognition	Create program that recognizes energy efficiency leadership in new construction.	B Focus Group #1	Sep-19	Local government		construction companies/	Brussels, Belgium exemplary building program/initiative	
B4.4	green municipal buildings	Require that new local government facilities (e.g., the new Olympia City Hall and LOTT building) demonstrate green building technologies and practices.	TRPC	Jan '19	Local government		construction companies/ contractors	provide education though city and state implementation, and lead by example. The proposed new Thurston County courthouse is a good opportunity. Making the proposed facility a living laboratory would be consistent with TC Resolution 14395, passed in 2010.	
B4.5	grid-connected appliances	Require smart appliances in new construction, especially water heaters that	TRPC	Jan '19	Local government			Review existing programs in Seattle and Shoreline	Need to differentiate between strategies for residential and strategies for
B4.6	multifamily submetering	control timing of demand. Require submetering for new multifamily buildings so residents can track	B Focus Group #1	Sep-19	Local government		contractors; realtors construction companies/	Could operate similar to Open Space tax program	commerical.
54.0	multifamily energy measures	energy use. Develop and advertise a business case financial model for multi-family	CAW	Oct-19	Local government		contractors construction companies/	See Shift Zero Policy Toolkit	
B4.7	, ,	developers to take energy efficiency and renewable energy measures.					contractors	•	
B4.9	permit counter technical assistance	Hire or contract with dedicated green building specialists to provide technical assistance through the permitting and development process.	Rich Hoey		Local government		contractors; realtors	Review existing program in Tacoma	
B4.11	grid-connected appliances	Require smart appliances in new construction, especially water heaters that control timing of demand.	B Focus Group #1	Sep-19	Local government		construction companies/ contractors; realtors		
B4.12	multifamily submetering	Require submetering for new multifamily buildings so residents can track energy use.	B Focus Group #1	Sep-19	Local government		construction companies/ contractors		
B4.13	multifamily energy measures	07	CAW	Oct-19	Local government		construction companies/ contractors		
B4.14	state building code	Advocate for stricter energy efficiency requirements in state building code.	CAW	Oct-19	Local government		construction companies/		
B.5: Increase	the production of local renewable energy.						Contractors		
	clean energy bonds/levy	Sell municipal bonds or create a local tax levy for local clean energy		Note 1	Local government			www.cleanenergyfinance.org; See Portland Clean Energy Fund	
B5.1 B5.2	feed-in tariffs	projects. Offer feed-in tariffs to incentivize solar projects.			State				
B5.3	municipal building solar	Install solar photovoltaics on all available and feasible municipal sites, including building rooftops, city hall, schools, police and fire stations, community centers, municipal water pump sites, and transit depots.	Cascadia Consulting		Local government			Olympia's McAllister well site could be a location to consider	
B5.4	net metering production incentive								
B5.5	1	Increase incentive ratio for connecting residential solar from 1:1 to 2:1.	Thurston Thrives/B Focus Group #1	Jan '19	State, UTC	PSE	renewable energy companies	Program currently exists through PSE - is there a way to expand it or increase incentives?	
	solSmart	Pursue SolSmart designations and adopt solar friendly practices.	Thurston Thrives/B Focus Group #1 Rich Hoey		State, UTC Local government	PSE Olympia Community Solar	renewable energy companies		
B5.6	solSmart utility-scale renewables			Aug '19			renewable energy companies		Need-opportunity conundrum > Highest need for energy comes when there is no solar available, and wind is typically low at night = highest period of need. Must make incentives related to the value of the property and cost of upgrades.
B5.6 B5.7		Pursue SolSmart designations and adopt solar friendly practices. Promote Thurston County as a location to build more utility-scale renewable energy projects such as solar and wind farms. Support locally owned/operated renewable energy companies. Expand and retrofit the region's energy distribution, monitoring, and storage infrastructure to support more on-site renewable energy generation.	Rich Hoey Adaptation Plan Adaptation Plan	Aug '19 Jan '19 Jan '19	Local government	Olympia Community Solar	renewable energy companies	incentives? Community energy authority/ community agragate modeling? This provides momentum and reduces costs through bulk procurement. Community action	no solar available, and wind is typically low at night = highest period of need.
	utility-scale renewables	Pursue SolSmart designations and adopt solar friendly practices. Promote Thurston County as a location to build more utility-scale renewable energy projects such as solar and wind farms. Support locally owned/operated renewable energy companies. Expand and retrofit the region's energy distribution, monitoring, and storage infrastructure to support more on-site renewable energy	Rich Hoey Adaptation Plan Adaptation Plan	Aug '19 Jan '19 Jan '19	Local government Local government	Olympia Community Solar	renewable energy companies renewable energy companies	incentives? Community energy authority/ community agragate modeling? This provides momentum and reduces costs through bulk procurement. Community action	no solar available, and wind is typically low at night = highest period of need.
B5.7	utility-scale renewables electric infrastructure for renewables	Pursue SolSmart designations and adopt solar friendly practices. Promote Thurston County as a location to build more utility-scale renewable energy projects such as solar and wind farms. Support locally owned/operated renewable energy companies. Expand and retrofit the region's energy distribution, monitoring, and storage infrastructure to support more on-site renewable energy generation. Amend local development code to require solar-ready construction for all	Rich Hoey Adaptation Plan Adaptation Plan	Aug '19 Jan '19 Jan '19 Sep-19	Local government Local government PSE; UTC?	Olympia Community Solar	renewable energy companies renewable energy companies renewable energy companies; construction companies/	incentives? Community energy authority/ community agragate modeling? This provides momentum and reduces costs through bulk procurement. Community action plan. PSE - There IS a requirment to move towards EE standards	no solar available, and wind is typically low at night = highest period of need. Must make incentives related to the value of the property and cost of upgrades. Cart before the horse- people are excited about incentives but infrstructure is not workable. Need to fix existing problems before incentives of energy use
B5.7 B5.8	utility-scale renewables electric infrastructure for renewables solar-ready	Pursue SolSmart designations and adopt solar friendly practices. Promote Thurston County as a location to build more utility-scale renewable energy projects such as solar and wind farms. Support locally owned/operated renewable energy companies. Expand and retrofit the region's energy distribution, monitoring, and storage infrastructure to support more on-site renewable energy generation. Amend local development code to require solar-ready construction for all building types. Provide additional utility incentives such as on-bill financing to support energy efficiency and renewable energy investments on buildings.	Rich Hoey Adaptation Plan Adaptation Plan B Focus Group #1	Aug '19 Jan '19 Jan '19 Jan '19 Sep-19 Jan '19 Oct-19	Local government Local government PSE; UTC? Local government	Olympia Community Solar	renewable energy companies renewable energy companies renewable energy companies; construction companies/	incentives? Community energy authority/ community agragate modeling? This provides momentum and reduces costs through bulk procurement. Community action plan. PSE - There IS a requirment to move towards EE standards	no solar available, and wind is typically low at night = highest period of need. Must make incentives related to the value of the property and cost of upgrades. Cart before the horse- people are excited about incentives but infrstructure is
B5.7 B5.8 B5.9	electric infrastructure for renewables solar-ready on-bill financing group purchasing solar zoning	Pursue SolSmart designations and adopt solar friendly practices. Promote Thurston County as a location to build more utility-scale renewable energy projects such as solar and wind farms. Support locally owned/operated renewable energy companies. Expand and retrofit the region's energy distribution, monitoring, and storage infrastructure to support more on-site renewable energy generation. Amend local development code to require solar-ready construction for all building types. Provide additional utility incentives such as on-bill financing to support energy efficiency and renewable energy investments on buildings. Develop/support a city-sponsored group solar purchasing program. Review and amend zoning and development regulations where necessary to allow utility or community solar generation facilities less than 20 megawatts.	Rich Hoey Adaptation Plan Adaptation Plan B Focus Group #1 Adaptation Plan CAW CAW	Aug '19 Jan '19 Jan '19 Jan '19 Sep-19 Oct-19 Oct-19	Local government Local government PSE; UTC? Local government PSE Local government, community solar company Local government	Olympia Community Solar Chamber of Commerce, EDC SPARK NW, Olympia Community Solar	renewable energy companies renewable energy companies renewable energy companies; construction companies/ contractors renewable energy companies renewable energy companies	incentives? Community energy authority/ community agragate modeling? This provides momentum and reduces costs through bulk procurement. Community action plan. PSE - There IS a requirment to move towards EE standards See City of Lacey's adopted code. Brussels, Belgium exemplary building program/initiative	no solar available, and wind is typically low at night = highest period of need. Must make incentives related to the value of the property and cost of upgrades. Cart before the horse- people are excited about incentives but infrstructure is not workable. Need to fix existing problems before incentives of energy use
B5.7 B5.8 B5.9	electric infrastructure for renewables solar-ready on-bill financing group purchasing solar zoning neighborhood grants	Pursue SolSmart designations and adopt solar friendly practices. Promote Thurston County as a location to build more utility-scale renewable energy projects such as solar and wind farms. Support locally owned/operated renewable energy companies. Expand and retrofit the region's energy distribution, monitoring, and storage infrastructure to support more on-site renewable energy generation. Amend local development code to require solar-ready construction for all building types. Provide additional utility incentives such as on-bill financing to support energy efficiency and renewable energy investments on buildings. Develop/support a city-sponsored group solar purchasing program. Review and amend zoning and development regulations where necessary to allow utility or community solar generation facilities less than 20 megawatts. Fund the creation of low barrier grant opportunities for neighborhood clean energy and energy efficiency projects.	Rich Hoey Adaptation Plan Adaptation Plan B Focus Group #1 Adaptation Plan CAW CAW	Aug '19 Jan '19 Jan '19 Jan '19 Sep-19 Oct-19 Oct-19 Oct-19	Local government Local government PSE; UTC? Local government Local government, community solar company Local government Local government	Olympia Community Solar Chamber of Commerce, EDC	renewable energy companies renewable energy companies renewable energy companies; construction companies/ contractors renewable energy companies renewable energy companies renewable energy companies renewable energy companies; low income communities; rural	incentives? Community energy authority/ community agragate modeling? This provides momentum and reduces costs through bulk procurement. Community action plan. PSE - There IS a requirment to move towards EE standards See City of Lacey's adopted code. Brussels, Belgium exemplary building program/initiative provide education though city and state implementation, and lead by example. The proposed new Thurston County courthouse is a good opportunity. Making the proposed facility a living laboratory would be consistent with TC Resolution 14395, passed in 2010.	no solar available, and wind is typically low at night = highest period of need. Must make incentives related to the value of the property and cost of upgrades. Cart before the horse- people are excited about incentives but infrstructure is not workable. Need to fix existing problems before incentives of energy use reduction can be implemented.
B5.7 B5.8 B5.9 B5.10	electric infrastructure for renewables solar-ready on-bill financing group purchasing solar zoning	Pursue SolSmart designations and adopt solar friendly practices. Promote Thurston County as a location to build more utility-scale renewable energy projects such as solar and wind farms. Support locally owned/operated renewable energy companies. Expand and retrofit the region's energy distribution, monitoring, and storage infrastructure to support more on-site renewable energy generation. Amend local development code to require solar-ready construction for all building types. Provide additional utility incentives such as on-bill financing to support energy efficiency and renewable energy investments on buildings. Develop/support a city-sponsored group solar purchasing program. Review and amend zoning and development regulations where necessary to allow utility or community solar generation facilities less than 20 megawatts. Fund the creation of low barrier grant opportunities for neighborhood clean	Rich Hoey Adaptation Plan Adaptation Plan B Focus Group #1 Adaptation Plan CAW CAW	Aug '19 Jan '19 Jan '19 Jan '19 Sep-19 Oct-19 Oct-19 Oct-19	Local government Local government PSE; UTC? Local government PSE Local government, community solar company Local government	Olympia Community Solar Chamber of Commerce, EDC SPARK NW, Olympia Community Solar	renewable energy companies renewable energy companies renewable energy companies; construction companies/ contractors renewable energy companies renewable energy companies renewable energy companies renewable energy companies; low income communities; rural	incentives? Community energy authority/ community agragate modeling? This provides momentum and reduces costs through bulk procurement. Community action plan. PSE - There IS a requirment to move towards EE standards See City of Lacey's adopted code. Brussels, Belgium exemplary building program/initiative provide education though city and state implementation, and lead by example. The proposed new Thurston County courthouse is a good opportunity. Making the proposed facility a living laboratory would be consistent with TC	no solar available, and wind is typically low at night = highest period of need. Must make incentives related to the value of the property and cost of upgrades. Cart before the horse- people are excited about incentives but infrstructure is not workable. Need to fix existing problems before incentives of energy use
B5.7 B5.8 B5.9 B5.10 B5.11 B5.12	electric infrastructure for renewables solar-ready on-bill financing group purchasing solar zoning neighborhood grants	Pursue SolSmart designations and adopt solar friendly practices. Promote Thurston County as a location to build more utility-scale renewable energy projects such as solar and wind farms. Support locally owned/operated renewable energy companies. Expand and retrofit the region's energy distribution, monitoring, and storage infrastructure to support more on-site renewable energy generation. Amend local development code to require solar-ready construction for all building types. Provide additional utility incentives such as on-bill financing to support energy efficiency and renewable energy investments on buildings. Develop/support a city-sponsored group solar purchasing program. Review and amend zoning and development regulations where necessary to allow utility or community solar generation facilities less than 20 megawatts. Fund the creation of low barrier grant opportunities for neighborhood clean energy and energy efficiency projects.	Rich Hoey Adaptation Plan Adaptation Plan B Focus Group #1 Adaptation Plan CAW CAW	Aug '19 Jan '19 Jan '19 Jan '19 Sep-19 Oct-19 Oct-19 Oct-19	Local government Local government PSE; UTC? Local government Local government, community solar company Local government Local government	Olympia Community Solar Chamber of Commerce, EDC SPARK NW, Olympia Community Solar	renewable energy companies renewable energy companies renewable energy companies; construction companies/ contractors renewable energy companies renewable energy companies renewable energy companies renewable energy companies; low income communities; rural	incentives? Community energy authority/ community agragate modeling? This provides momentum and reduces costs through bulk procurement. Community action plan. PSE - There IS a requirment to move towards EE standards See City of Lacey's adopted code. Brussels, Belgium exemplary building program/initiative provide education though city and state implementation, and lead by example. The proposed new Thurston County courthouse is a good opportunity. Making the proposed facility a living laboratory would be consistent with TC Resolution 14395, passed in 2010.	no solar available, and wind is typically low at night = highest period of need. Must make incentives related to the value of the property and cost of upgrades. Cart before the horse- people are excited about incentives but infrstructure is not workable. Need to fix existing problems before incentives of energy use reduction can be implemented. Need to differentiate between strategies for residential and strategies for
B5.7 B5.8 B5.9 B5.10 B5.11 B5.12	electric infrastructure for renewables solar-ready on-bill financing group purchasing solar zoning neighborhood grants shore power	Pursue SolSmart designations and adopt solar friendly practices. Promote Thurston County as a location to build more utility-scale renewable energy projects such as solar and wind farms. Support locally owned/operated renewable energy companies. Expand and retrofit the region's energy distribution, monitoring, and storage infrastructure to support more on-site renewable energy generation. Amend local development code to require solar-ready construction for all building types. Provide additional utility incentives such as on-bill financing to support energy efficiency and renewable energy investments on buildings. Develop/support a city-sponsored group solar purchasing program. Review and amend zoning and development regulations where necessary to allow utility or community solar generation facilities less than 20 megawatts. Fund the creation of low barrier grant opportunities for neighborhood clean energy and energy efficiency projects.	Rich Hoey Adaptation Plan Adaptation Plan B Focus Group #1 Adaptation Plan CAW CAW T Focus Group #1	Aug '19 Jan '19 Jan '19 Sep-19 Jan '19 Oct-19 Oct-19 Sep-19	Local government Local government PSE; UTC? Local government Local government, community solar company Local government Local government	Olympia Community Solar Chamber of Commerce, EDC SPARK NW, Olympia Community Solar	renewable energy companies renewable energy companies renewable energy companies; construction companies/ contractors renewable energy companies renewable energy companies renewable energy companies renewable energy companies; low income communities; rural	incentives? Community energy authority/ community agragate modeling? This provides momentum and reduces costs through bulk procurement. Community action plan. PSE - There IS a requirment to move towards EE standards See City of Lacey's adopted code. Brussels, Belgium exemplary building program/initiative provide education though city and state implementation, and lead by example. The proposed new Thurston County courthouse is a good opportunity. Making the proposed facility a living laboratory would be consistent with TC Resolution 14395, passed in 2010.	no solar available, and wind is typically low at night = highest period of need. Must make incentives related to the value of the property and cost of upgrades. Cart before the horse- people are excited about incentives but infrstructure is not workable. Need to fix existing problems before incentives of energy use reduction can be implemented.

B6.2	electric appliances in new construction	Update municipal code to require electric appliances in new construction.	Cascadia Consulting	Aug '19	Local government		construction companies/		
50.2							contractors;		
В6.3	heat pumps	Investigate options and costs for using geothermal heat pumps for heating and cooling.	Lacey CR2 plan	Note 1	Local government				
B6.4	natural gas ban	Ban all new natural gas connections in new buildings.	CAW	Oct-19	Local government		construction companies/ contractors		
B6.5	natural gas fee	Create a utility fee for natural gas use.	CAW	Oct-19	PSE, UTC?		low-income communities	Use to fund electrification or other programs.	
B6.6	demand pricing	Adjust fee scale to charge higher rates during high use times of day.	B Focus Group #1	Sep-19	State, UTC	PSE	low-income communities		
B6.7	utility advocacy	Add as a high priority to municipality's legislative agenda - State and Utilities and Transportation Commission in implementing SB 5116, which requires a shift to clean electricity.	CAW	Oct-19	Local government				
B6.8	Clean energy	Local government adopt and communicate policy statements and positions with the State Electeds that call for rapid conversion to clean energy in the power supply that serves Thurston County.			Local government	Solar Installers of Washington (WASEIA)			
B.7: Address b	uilding and energy goals across sectors.								
B7.1	workforce development	Create and support opportunities to link clean energy companies with vocational training facilities.	TRPC-ST Plan	Jan '19	Worksource; local governments	PacMountain (Chamber of Commerce)	renewable energy companies; workforce development		
B7.2	public power	Transition to a publicly owned power utility district.	Public Survey		PUD				Large start-up and transition costs to purchase and develop power infrastructure. Undercuts PSE's ability to meet statewide energy goals.
B7.3	climate impact fee	Evaluate and, if feasible, implement a regional climate impact fee on new development to fund regional climate mitigation projects and programs.			Local government		construction companies/ contractors		
B7.4	embodied carbon	Create incentives to increase the use of less carbon intensive building materials (mass timber, reduced concrete).	B Focus Group #1	Sep-19	Local government		construction companies/ contractors		

T Focus Area: TRANSPORTATION & LAND USE

Troctus Area: TRANSPORTATION & LAND USE

Strategies:

T1: Set land use policies that increase urban density to support efficient transportation networks.

T2: Increase efficiency of the transportation system.

T3: Increase the adoption of electric vehicles, and the infrastructure to support electric vehicles.

T4: Increase the use of public transit.

T5: Increase use of active forms of travel and more efficient commuting modes.

T6: Support regional mass transportation connections.

Action ID#	short name	description	source	date added	implementor	potential partners	target stakeholders	opportunities	barriers
T1: Set land use	e policies that increase urban density to supp	ort efficient transportation networks.							
T1.1	coordinated long term planning- future infill	Coordinate long-term plans with transit agencies to project where increased density would support more transit corridors. Then change zoning/density that would support new transit corridors and variety of household incomes. Promote long-term equity and healthy communities by developing incentives such as density bonuses for development where a percentage of the units will be permanently affordable for household incomes.			Local government/ transit agencies	TRPC	low income		
T1.2	middle-density housing	Reevaluate and change zoning as needed to allow for a range of housing types to promote social economic integration of housing near the region's urban centers or moderate-density zones. Promote long-term equity and healthy communities by developing incentives such as density bonuses for development where a percentage of the units will be permanently affordable for household incomes that can no longer afford to live in these areas.	TRPC	Note 1	Local government		Construction companies/ contractors; low-income communities		First/ last mile
T1.3	Eco districts	Identify potential Eco districts to advance innovative district-scale urban development, sustainability, and neighborhood equity. Then make necessary code/zoning changes to support their development and set ambitious performance outcomes to ensure their long-term success.	Thurston Thrives	Jan '19	Local government		Construction companies/ contractors	Current pilot project in downtown Olympia: http://ecodistrict.fertileground.or	3/
T1.4	20-minute neighborhoods	Increase the number of 20-minute neighborhoods (walkable environment, destinations that support a range of basic living needs and a residential density). Identify key infrastructure components needed to grow the number of 20-minute neighborhoods, then change zoning and codes if needed and coordinate with other jurisdictions to make public investments where necessary.	Cascadia Consulting	Aug '19	Local government		Construction companies/ contractors; rural communities; low-income communities; communities of color		
T1.6	climate-aware UGB	Amend county wide planning policies to require analysis of climate impacts, the costs to mitigate those impacts, and the costs to ensure efficient transit (e.g., public transit services) to inform future Urban Growth Area expansions and Annexations of current UGA. Then weigh those costs and impacts with opportunities and investment needed to accommodate people and business within annexed areas and approved UGAs.		Sep-19	TRPC/UGM Subcommittee	Cities, County	rural communities		
T1.9	ADUs	Amend development codes to allow for attached and detached ADU's in urban residential areas.	T Focus Group #1	Sep-19	Local government				
T1.10	Multifamily Tax Exemption (MFTE)	Expand Multifamily Tax Exemption Programs to increase residential development where services exist, and consider extending exemption timeframes.	T Focus Group #1	Sep-19	Local government		construction companies/ contractors; realtors; low-income communities; communities of col		
T1.11	land use efficiency	Set integrated goals to consider network efficiency in land use decisions, including how density in certain areas supports transit, increases efficiency of utility service, and other support facilities. Consider VMT in identifying locations for large employment facilities.	T Focus Group #1	Sep-19	TRPC		rural communities	see comment	

T1.12	corridor-centered development	Increase residential and mixed use development along designated transit corridors with monetary incentives such as tax incentives and improved fee structures. Determine impact fees and connection charges that, if reduced or waived, would generate denser development where transit and other services already exist.	T Focus Group #1	Sep-19	Local government		construction companies/ contractors; realtors; low-income communities; rural communities	Create tax incentives	
T1.13	downtown development	Work with developers and investors to identify barriers to new investment and reinvestment projects of residential and commercial in urban centers. Then develop and implement policy changes and incentive programs in response.	T Focus Group #1	Sep-19	Local government		construction companies/ contractors; realtors		
T1.14	development VMT caps	Require caps on VMT or vehicle trips for development on Olympia's Capitol Campus and other public development near clustered government offices.	T Focus Group #1	Sep-19	State	Olympia, Tumwater, Lacey	rural communities; low-income communities; communities of color	Leverage city location	
T1.15	land use emissions	Revaluate emissions tracking data for land use to ensure accuracy and tracking changes and to inform future regulatory policy in land use.	Cascadia Consulting	Aug '19	TRPC			Review King County's approach to including in their inventory.	
T2: Increase eff	iciency of the transportation system.								
T2.1	traffic analysis	Incorporate greenhouse gas emissions calculations into traffic impact analyses to identify land use proposals that have the potential to generate a	TRPC-ST Plan	Jan '19	Local government				
	congestion mitigation	substantial positive impact on the region. Develop congestion mitigation programs to increase transportation	Cascadia Consulting	Aug '19	Local government			see comment	
T2.2		efficiency, reduce delay, and reduce emissions such as signalization coordination improvements along with application of speed harmonization techniques (ex. reevaluate speed limits, roundabouts vs signalized intersection, street connectivity). Added benefits are decrease idling time (pollution) and improve fuel efficiency (cost savings to driver).							
T2.3	reduce idling	Work with the State and/or region to enacted legislation to minimize vehicle idling for GHG reductions, improved air quality and increased fuel efficiency. Coordinate with public agencies and private companies that transport people and materials to develop and enact internal policies that reduce idle time.	Thurston Thrives	Jan '19	Association of Washington Cities			see comment Work with local businesses such as gas stations, grocery pick up, and drive thru's to educate, sign and promote voluntary idle reduction programs for customers. Motivate private entities by showing a potential reduction in fuel expense. Improve air quality for vulnerable populations such as children (school bus) and disabled/elderly (paratransit).	Hard to enforce. See comment
T2.3	transportation efficiency service	Create and fund a transportation efficiency service for local residents that gives an assessment of a households current transportation costs, shows cost saving potential by using cleaner forms of transportation, connection with vendors and financing as needed, and follows to see if changes were adopted by household.	TCAT	1-Oct	Local governments		low-income communities; rural communities/those who work outside; realtors;		
T2.4	vehicle efficiency outreach	Develop educational campaigns about benefits (reduced GHG emission, increase fuel efficiency, safety) of properly inflated tires, including signage at gas stations and local businesses and partnering with schools.	Cascadia Consulting	Aug '19	Local government				
T2.7	carpooling	Work regionally to increase the HOV and HOT lanes available during peak times for car shares and carpools to reduce single occupancy trips.	Lacey CR2 plan/T Focus Group #1	Jan '19	TRPC, DOT	local governments,	rural communities; those who work outside		Coordinating multipul partners. Addition of lanes increase more hard scape.
T2.8	reduced parking requirements	Reduce the cost of development by reducing parking requirements for new residential and mixed use development along transit corridors and in urban centers. Could allow substitution of care share programs.	Cascadia Consulting	Aug '19	Local government				
T2.9	congestion pricing	Explore congestion pricing between Thurston and Pierce counties along I-5 during peak hours to improve mobility by reducing traffic congestion, reduce greenhouse gas emissions, and create a more equitable transportation system. Target revenues to projects that enhance system efficiency.	TRPC-ST Plan	Jan '19	TRPC, DOT			Learn from Seattle who has published a phase one report on their congestion pricing study.	
T2.12	Eco driving education	Include awareness of fuel economy through driving techniques in curriculum for new drivers to reduce GHG emissions and develop long term habits.	T Focus Group #1	Sep-19	State Department of Licensing				
T2.15	TMAs	Mitigate traffic congestion and reduce GHGs by providing government grant dollars to Transportation Management Associations (TMAs) to provide membership-controlled transportation services in a range of areas including regional or city-wide service, along a specific corridor, or central business districts.		Sep-19	Local government (public/private partnership)			Examples in other communities (Lloyd district example in Portland). Provides service that are not currently being met by existing transportation agencies. Commute Trip Reduction (CTR) may provide the framework.	
T2.16	Internal policy - decrease idle time	Coordinate with public agencies and private companies that transport people and materials to develop and enact internal policies that reduce idle			Local government				
T2.17	teleworking/flex work	Government agencies increase opportunities for employee teleworking options and staggering work days to reduce employees driving during peak traffic times.			Local and state government		workforce development	CTR programs	
T3: Increase the	e adoption of electric vehicles, and the infrastr								
T3.1	EV parking new construction	Require large commercial and residential buildings to dedicate a percentage of parking spots for electric vehicle charging.	TRPC (CALGreen)	Jan '19	Local government		construction companies/		
T3.2	free EV parking	Allow free parking for all electric vehicles at local government buildings and in city centers to encourage the adoption of all electric vehicles. Increase cost of parking for Non-EV vehicles.	Clean Technica and Greenway	Jan '19	Local government				
T3.3	solar parking lots	Work with utilities to develop installation of solar panels over surface parking spaces and structured parking garages to produce green energy for electric vehicles.	Thurston Thrives	Jan '19	Local government	PSE	renewable energy companies		

	EV charging retrofit	Partner with business and utilities to develop incentives and streamlined process to install EV charging infrastructure at large government and	TRPC	Jan '19	Local government Private installer			
		commercial facilities with low public transit and high personal vehicle						
T3.4		utilization to access (e.g., the Great Wolf Lodge, St. Martins Pavilion, IT						
		transit stations, rural gov buildings/services).						
	EV ready building code	Require all new residential construction be built EV ready. Create a simple	TRPC (CALGreen)	Jan '19	Local government	construction companies/	CALGreen drafted a model code, adapted from Lancaster, CA's municipal	
T3.5		and consistent residential charging station permitting process to reduce				contractors; renewable energy	code. Model code: http://www.opr.ca.gov/docs/Example_Building_Codes.docx	
	EV integration	costs and time to development.	TRPC-ST Plan	Jan '19	Local government	companies; realtors	Several jurisdictions including Lacey (LMC Ch. 16.73) and Rainier (RMC Ch.	
	EV integration	Reevaluate regulations and make necessary changes to ensure charging stations are able to be permitted in locations where they are needed.	TRPC-31 Plati	Jan 19	Local government		18.40) stipulate which zoning designations (including residential) allow	
T3.7							electric vehicle charging stations. EV charging stations are permitted but not	
	public building EV infrastructure	Require new public facilities (buildings, park-and-rides, trailheads) have EV	TRRC CT Rise	Jan '19	l seel see see see	construction companies/	required.	
T3.8	public building EV infrastructure	infrastructure. Ensure that the infrastructure is adequate to meet the	TRPC-ST Plan	Jan 19	Local government	contractors; renewable energy		
		growing number of electric vehicles.				companies		
	convert to EV fleets	Set policies and timetable for electrification of municipal and other	Rich Hoey	Aug '19	Local government		see comment	
T3.10		governmental fleets. Require replacement of public fleets with cleaner, energy-efficient vehicles to reduce long term fuel costs, improve air quality						
		and reduce greenhouse gas emissions.						
	EV education	Partner with environmental and other agencies to increase consumer	T Focus Group #1	Sep-19	Local government			
T3.11		awareness about EV options and incentives for use and purchase.						
	gas station colocation	Require all new gas stations install EV stations and that current gas stations	T Focus Group #1	Sep-19	Local government			
T3.12		have low barriers (permitting, expense) to installing EV stations.						
	EV mass purchase discounts	Create a group purchase program for residents to get deep discounts on	CAW	Oct-19	Local government (public/private	low-income communities; rural		
T3.14		EVs, other fuel efficient and alternative fuel vehicles.		1000 15	partnership)	communities/those who work		
	EV.		CANY	0.140		outside		
	EV purchase incentives	Partner with car sale and lease dealerships to provide incentives for purchase of electric vehicles by Thurston County residents. Pilot with those	CAW	Oct-19	Local government (public/private partnership)			
T3.15		neighborhoods, individuals with greatest VMT potential.			partitership)			
T4: Increase th	e use of public transit.							
	increase transit	Increase local public transit routes/frequency with a focus on expanding	Thurston Thrives/ T Focus Group #1	Jan '19	Intercity Transit	low-income communities; rural	see comment	
T4.1		transit service before and after traditional business hours and on weekends	-			communities/those who work		
						outside; communities of color;		
	bus rapid transit	Expand rapid transit (ex. add transit only lanes in UGA or add express bus	Rich Hoey/T Focus Group #1	Aug '19	Intercity Transit	low-income communities; rural		
T4.2		connections between South Sound cities), then develop funding				communities/those who work		
		mechanisms.				outside; communities of color;		
	rural transit	Identify and implement first/last mile solutions for rural ridership (engage	Public comment/ T Focus Group #1	Aug '19	TRPC/RT	low-income communities; rural	Ruby Ride	
T4.3		rural home owners associations for representation and feedback). Present				communities/those who work		
		this plan to TRPC with direction to explore pilot programs and secure funding sources.				outside; communities of color;		
T4.4	fareless system/youth ride free	Develop a fareless system for public transit.	Rich Hoey	Aug '19	Intercity Transit	low-income communities		
	Sound Transit in Thurston County	Work with State Legislators and Governor's Office to identify opportunities	TCAP	Jan '19	State			
T4.5		and funding to expand Sound Transit to Thurston County.						
	public transit ease	Create a partnership of transit providers and agree to a common goal of	Cascadia Consulting	Aug '19	TRPC			
T4.7	ľ	having an integrated navigation and payment system. Then work together						
74.0	alternative fuel buses	to make an action plan. Transition area transit services to 100% renewable energy.	Cascadia Consulting	A 110	Intercity Transit/IT	renewable energy companies		
T4.8	fed-compliant alternatives analysis	Work with the State partners and elected officials to understand future	TRPC-ST Plan	Aug '19 Jan '19	TRPC	renewable energy companies		
	,	plans for mass transit. Secure funding in the State budget to conduct an						
T4.9		alternatives analysis to determine what types of high capacity transit the						
1		region may be able to support in the future what funding mechanisms are available.						
	rider education/benefits	Maintain and expand a regional online page that lists all the mode shift	T Focus Group #1	Sep-19	TRPC		- Cost of trip -> trip changing	
T4.10		education efforts and employer benefits opportunties (Thurston Here-To-						
		There). Include a comments section for suggestions to further transit education and ridership.						
T4.43	park & ride	Work with transit providers to explore expansion of park & rides and park &	T Focus Group #1	Sep-19	Intercity Transit			
T4.13		pools.		· .	i i			
T4.14	transit & schools	Work with school and transit providers to understand if there is a likely	T Focus Group #1	Sep-19	Intercity Transit			
14.14		partnership to coordinate routes with transit start and top times.						
	promote transit benefits	Work with employers and transit agencies to develop ways to incentivize			TRPC	workforce development		
T4.15		employee ridership (ex. rebates for employees who give up use of employe	r					
TE: Inc.		parking facilities).					<u></u>	<u></u>
15: Increase us	e of active forms of travel and more efficient							
1	walk/bike infrastructure	Coordinate cities of Thurston Counties Master Bicycle and Pedestrian plans into a large regional plan to expand walking and biking infrastructure,	Thurston Thrives	Jan '19	TRPC	rural communities/those who wor outside	k	
T5.1		into a large regional plan to expand walking and biking infrastructure, including separated and protected opportunities. Coordinate efforts to				Juisiue		
		maximize funding mechanisms and opportunities.						
	harriers to transportation alternation	Develop a regional inventor the identify access to the first	Cassadia Consultin-	Aug 110	TRRC			
T5.2	barriers to transportation alternatives	Develop a regional inventory to identify gaps in connectivity for safe cycling and walking. Then develop a strategy to prioritize projects and a plan for	Cascadia Consulting	Aug '19	TRPC			
		funding.						
	biking to work	Require municipal and large employers to provide a shower and/or	Cascadia Consulting	Aug '19	Local government			
T5.3		changing area for employees to facilitate biking to work, and secure/dry bike parking. Provide financial incentives for employer-sponsored bicycle						
		programs.						

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	school drop-off alternative modes	Maintain and expand a walking/biking incentive program with safety	Cascadia Consulting	Aug '19	School Districts	Intercity Transit	low-income communities; rural
T5.4	school drop on alternative modes	education for families.	Cascadia Consulting	Aug 13	School Districts	interesty Transie	communities/those who work
		caddion of families.					outside
T5.6	park & pool	Require covered and safe bike storage at carpooling and pick up locations.	T Focus Group #1	Sep-19	Local governments		
T5.7	urban bikeshare	Pilot and, if successful, implement a bike/scooter share program.	TRPC	Jan '19	Capitol City Bikes? / private third- party	-	
	car-free zones	Reevaluate long term plans and update to prioritize pedestrians and people	T Focus Group #1	Sep-19	Local government		low-income communities; rural
T5.11		riding bikes. Set goals for mode shift and plans on how to achieve those					communities/those who work
13.11		goals like developing car-free corridors in commercial and mixed use areas					outside; communities of color
		to encourage mode shift.					
	bike/transit	Coordinate a meeting with bicycle advocacy groups and transit agencies to	T Focus Group #1	Sep-19	TRPC	Local governments, advocacy	communities of color; low-income
T5.12		explore barriers (ex. limited bike storage on bus). Prioritize solutions and				groups	communities
		develop plan to reduce barriers.					
T5.13	telecommuting infrastructure		G Focus Group #1	Sep-19	Local government/TRPC		
		infrastructure necessary to support telecommuting.					
T6: Support re	gional mass transportation connections.						
	Olympia-Seattle rail	Update plans to prioritize commuter rail connection between Olympia and	T Focus Group #1	Se	p-19 State?		
T6.1		Seattle. Work with State partners to develop a plan and find other partners					
10.1		that have similar vision to coordinate with.					
	Ol and for a section		75		40 W. Line Co. 2		
TC 2	Olympia ferry service	Provide ferry service between Olympia and Seattle. Work with State	T Focus Group #1	Se	p-19 Washington State?		
T6.2		partners to develop a plan and work with other partners that have similar					
		VISION.	I			[

W Focus Area: WATER & WASTE

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Strategies:
W1: Increase the efficiency of water infrastructure + wastewater
W2: Reduce water consumption
W3: Reduce emissions from wastewater treatment operations
W4: Divert more solid waste from landfills
W5: Generate energy from waste sources
W6: Reduce consumption of carbon-intensive goods and services
W7: Reduce emissions of solid waste operations

ction ID#	short name	description	source	date added	implementor	potential partners	target stakeholders	opportunities	barriers
1: Increase t	the efficiency of water infrastructure + v						,		
W1.1	municipal energy efficiency	Conduct efficiency improvements to municipal water and sewage treatment systems. Prioritize components that consume the most energy and have high GHG emissions.	Adaptation Plan	Jan '19	Local government, PSE, LOTT, Thurston PUD, (Lead depends on system operator)			Olympia has completed an energy audit of its water infrastructure - tracks water loss and has looked at motor efficiency. Currently buys Green Power through PSE. LOTT has also conducted an energy audit, and is making investments in	energy audit
W1.2	public water systems	Prioritize efficiency improvements to public water systems (Group A and Group B). Prioritize components that consume the most energy and have high GHG emissions.	TRPC	Aug-19	Thurston PUD, Lacey, Olympia, Tumwater			efficiency upgrades (see note). Streamflow Restoration funding	New pumps aren't always more efficient Need to ensure redundancy, so will need a traditional backup, even if switch to solar or other renewable power (could use rechargeable batteries as a power source)
W1.3	rural wells	Provide a low interest loan program to encourage the use of efficient technology when permitting wells to serve new rural development.	TRPC		Thurston County		lenders; construction companies/ contractors		
W1.4	gravity sewer	Study the energy efficiency and cost impacts of gravity sewers versus STEP systems. As needed, introduce programs, regulations, and/or incentive programs.	WW Focus Group Meeting #1	Aug '19	Lacey, Olympia, Tumwater			gravity effluent easier to treat	
W1.5	lifecycle costs	Assess the energy use or energy savings of wastewater-related projects, and other lifecycle costs. Make analysis available to decision-makers.	WW Focus Group Meeting #1	Aug '19	Local government, Thurston PUD, LOTT			LOTT does this already.	
V2: Reduce w	rater consumption								
W2.1	municipal water ordinance	Develop a mandatory municipal water conservation ordinance.	Lacey CR2 plan	Jan '19	Local government		construction companies/		
W2.2	water audits	Conduct water audits of city and county facilities to determine prioritization of capital improvements.	Ashland Climate & Energy Action Plan	Aug '19	Local government				Look at plumbing fixtures in municipal buildings
W2.3	water conservation outreach	Expand water conservation outreach and incentive programs for residents and businesses through new funding sources (ex. grants) and partnerships.	Ashland Climate & Energy Action Plan	Aug '19	Local government			Low return on investment.	
W2.4	permitting	Review and update building code to ensure most efficient water practices and technologies are applied to new development.	TRPC	Aug '19	Local government		construction companies/	Challenging for commercial b/c tenant changes.	
W2.5	rural conservation	Provide technical assistance for rural "exempt" wells to conserve water.	Art Starry, Thurston County Environmental Health	Aug '19	Thurston County, TCD		rural communities		
W2.6	agricultural water use	Evaluate agricultural water use and develop a program to buy back or reclaim excess capacity.	Art Starry, Thurston County Environmental Health	Aug '19	Local government		farmers/ ranchers		
W2.7	low-water landscaping	Require water landscaping conservation practices for new development.	Art Starry, Thurston County Environmental Health/WW Focus Group Meeting #1	Aug '19	Local government		construction companies/ contractors		
W2.8	integrated incentives	Integrate City incentives for water and wastewater reductions with other aligned incentive programs (ex. PSE rebates for washing machines and dishwater energy savings) to encourage broader usage and conservation.	Thad Curtz	Sept '19	Local government				
W2.9	tiered rates	Study effectiveness and strategies for conservation with tiered rating structures for water and sewer, and if proven, apply new rate structures.	Thad Curtz	Sept '19	Local government		Most (all?) utilities		

W2.10	water reuse	Develop a water reuse program for water conservation on site. Provide technical assistance and incentives, such as free rain barrels, to gather water and use on site (e.g., rain barrels for irrigation).	WW Focus Group Meeting #1	Aug '19	LOTT, local government				
W2.10b	reclaimed water	Expand the use of reclaimed water, especially where needed for irrigation.			LOTT				
W2.11	watering schedule	Institute mandatory watering schedule that limits irrigation to certain days.	WW Focus Group Meeting #1	Aug '19	Local government		farmers/ ranchers; rural communities; realtors	Lacey has a current program	
W2.12	high users		WW Focus Group Meeting #1	Aug '19	Local government, LOTT		communities; realtors		
W2.13	combined sewer	support to reduce water consumption. Separate combined sewer and stormwater system. Start with feasibility	WW Focus Group Meeting #1	Aug '19	Olympia, LOTT				Extra infrastructure
W2.15	renter incentives	study and follow through on findings. Develop and offer incentives for water conservation targeted to renters and multifamily residential units.	WW Focus Group Meeting #1	Aug '19	Local government		construction companies/		
	metering	Use metering to inform water consumers about their use compared to	WW Focus Group Meeting #1	Aug '19	Local government		contractors; realtors		
W2.16		others on their utility bill. Provide technical assistance and education to higher users on ways to conserve water and improve household/business efficiencies.							
W2.17	gray water use	Require use of gray water in new residential and commercial buildings. Start with feasibility study and change building codes based on results.	CAW	Oct '19	Local government	DOH			Would require DOH approval.
W2.18	HOA watering outreach	Provide education and technical assistance to HOAs related to revising covenants that may be causing increase water consumption and/or prohibiting energy savings (ex. lawns must be irrigated and green, no water	Public Survey		Local government		realtors		
	well conversion to public systems	barrels). Provide technical assistance to rural "exempt" well owners to convert to			Thurston County, PUD		farmers/ ranchers; rural		
W2.19		public water systems when service connections are available.				<u> </u>	communities		
W3: Reduce en	missions from wastewater treatment operations	5							
W3.1	nitrous oxide capture	Research and implement nitrous oxide mitigation strategies and strategies to avoid or reduce nitrous oxide emissions. Present findings and cost vs benefits analysis to policy makers to determine what changes should be	WW Focus Group Meeting #1	Aug '19	ГОТТ				
W3.2	methane capture	Capture methane from wastewater operations and use to generate power to run systems. Begin by researching cost-effective methods and identifying funding sources to implement.	WW Focus Group Meeting #1	Aug '19	LOTT				
W3.3	hydrogen power	Investigate and determine if hydrogen power is a cost effective alternative energy source for operations, including technical vehicles, or for distribution and if so, identify funding source to implement.	WW Focus Group Meeting #1	Aug '19	LOTT				
MA. Divort mo	ve colid vecto from landfills								
	residential composting	Expand residential programs for composting and recycling food waste.	Thurston Thrives	Jan '19	Local government			TC waste is being converted into renewable natural gas (RNG)	Expensive to construct, and hard to find available space. Air quality implications
W4.1	commercial composting	Expand commercial programs for composting food waste. Start by	WW Focus Group Meeting #1	Aug '19	Local government			Thurston County Restaurant Rescue program	to burning waste, what are emissions in burning?
W4.2	waste audits	identifying funding and partners. Provide waste audits for business owners and education on practices that	Cascadia Consulting	Aug '19	Local government				
W4.4	gleaning	decrease waste (ex. compost, recycling, reuse). Expand gleaning programs and recovery and use of edible yet unwanted	Thurston Thrives/AF Focus Group #1	Jan '19	Thurston County Food Bank				
W4.5	deconstruction ordinance	foods from restaurants, grocery stores, and schools. Develop a building deconstruction ordinance, with requirements for	Thad Curtz	Sept '19	Local government		construction companies/	Examples at: https://sustainableconsumption.usdn.org/initiatives-	
W4.7		deconstruction, reporting, inspections, and compliance tools.					contractors	list/encouraging-and-mandating-building-deconstruction Also Portland's ordinance at: https://www.portlandoregon.gov/bps/68520	
W4.8	fruit teams	Partner with food banks and neighborhoods to harvest fruit from urban fruit trees.	Thad Curtz	Sept '19	Food Bank		food banks	Portland's Fruit Tree Project (https://www.portlandfruit.org/) or Seattle's City Fruit (https://www.cityfruit.org/join-us/about-us)	
	organics collection	Require food waste pickup at residential and commercial buildings to reduce landfill methane. Compliment with an ordinance that restricts compostables from going into the garbage and has a fining structure to enforce.	Thad Curtz	Sept '19	Local government		food bank; realtors	Seattle has an existing program. "Seattle Municipal Code (SMC) sections 21.36.082 and 21.36.083 require that residents and businesses do not put food scraps, compostable paper, yard	
W4.9								waste, and recyclables in their garbage Seattle Public Utilities (SPU) gives warning notices for garbage containers that contain recyclables or compostables. For each warning, the property will receive a tag on the container and a notice will be mailed to the account. After 2 warnings, properties may receive a \$50 fee on their waste bill for recyclables in the garbage.	
W4.10	waste less food program	Expand the TC Public Works "Waste Less Food" program.			Thurston County				Increasing education/outreach and programming drives up consumer rates, which decentivizes participation
W4.11	regional recycling	Conduct an analysis of how a regional recycling facility could build local markets for recyclable materials. Develop a cost vs benefits analysis and present to policy makers.	WW Focus Group #1	Aug '19	Thurston County, EDC,			Longview Paper Mill - takes all mixed grade paper	
W5: Generate	energy from waste sources								
W5.1	waste-to-energy	Research the opportunities to generate additional energy from waste products (e.g., woody biomass and sewage) in Thurston County to reduce fossil fuel consumption and present to policy makers for consideration.	Adaptation Plan	Jan '19	Colleges, WSUx		renewable energy companies (?)	TC waste is being converted into renewable natural gas (RNG)	Expensive to construct, and hard to find available space. Air quality implications to burning waste, what are emissions in burning?
W5.2	heat exchange	Research the feasibility of heat exchange potential of embedded energy in wastewater and/or reclaimed water and present to policy makers for consideration.	Rich Hoey	Aug '19	LOTT			Similar to district heating idea.	
W5.3	kinetic energy	Research the feasibility of utilizing kinetic energy from transport of water and wastewater through piping networks and present to policy makers for consideration.	Art Starry, Thurston County Environmental Health		Thurston County				
W5.4	FOG waste	Research feasibility of program to digest Food, Oils, and Grease (FOG) and/or commercial food waste at LOTT to recover energy and increase methane production and present to policy makers for consideration.	Thad Curtz/WW Focus Group #1	Sept '19	LOTT	local restaurants, local schools			
	1	1	<u> </u>	1				1	

	dry anaerobic digesters	Evaluate feasibility of a dry anaerobic digester with associated combined	Thad Curtz/WW Focus Group #1	Sept '19	Thurston County		renewable energy companies;	
W5.5		heat and power facility to process organics and agricultural waste locally.					farmers/ ranchers	
VV 3.3		Present findings to appropriate policy makers for their consideration.						
N6: Reduce c	onsumption of carbon-intensive goods and ser	vices						
	consumption emissions education	Develop an education program about consumption-based emissions and	Ashland Climate & Energy Action Plan	Jan '19	Local government			
W6.1		simple ways to track and reduce consumption-based emissions for residents						
		of Thurston County.						
W6.2	meat reduction	Develop awards/recognition programs for restaurants that encourage plant-	Thurston Thrives	Jan '19	Local government			
VV 0.2		rich diet that reduce meat consumption.						
	collaborative consumption	Develop a awards/recognition programs for "collaborative consumption"	Cascadia Consulting	Aug '19	Local government		low-income communities;	
W6.3		community projects like tool libraries and repair cafes, through mini-grant					communities of color; rural	
VV0.3		programs to encourage their use and new projects.					communities	
	environmentally preferable purchasing policy	Local governments require departments, agencies, consultants and	Cascadia Consulting	Aug '19	Local government		construction companies/	
W6.4		contractors to use recycled products whenever possible and not cost					contractors	
		prohibitive.						
	product stewardship	Support state-level product stewardship legislation that requires producers	Cascadia Consulting	Aug '19	State government			
		to be involved in end-of- product-life management, either through product						
W6.5		design changes (e.g. compostable snack bags), investing in take back						
		programs , or placing a fee on the sale of products to support diversion.						
		p - 0 7 - p 0						
1116.6	supply chain	Provide free technical assistance to local businesses in reducing the carbon	Multnomah County Climate Action Plan		Local government			
W6.6		intensity of their supply chains.						
	water fill stations	Require all government-owned water fountains be replaced with water	Cascadia Consulting	Aug '19	Local government			
W6.7		bottle filling stations at end of life and all new construction requires water		_				
		bottle filling stations.						
	reusable takeout	Amend health code to allow reusable take out containers.	WW Focus Group #1	Aug '19	Department of Health, Local			
W6.8			·		government			
W6.9	single-use ban	Ban single use plastics (e.g. straws, water bottles)	WW Focus Group #1	Aug '19	Local government			consumer behavior
W7: Reduce e	missions of solid waste operations							
	waste route efficiency	Partner with sanitation companies to evaluate the GHG reduction potential	Thad Curtz	Sept '19	Local government			Technology exists: Hybrid trucks and powered by CNG. Currently done by
W7.1	waste route emerciney	of utilizing one side for street pickup and present to policy makers for	Thad Cartz	3Cpt 13	Local government			Olympia; is this done by other providers?
****		consideration.						Olympia, is this done by other providers:
	waste service areas	Mandate that areas served redundantly by municipalities and private waste	Thad Curtz	Sept '19	Local government		+	
	waste service areas		mad curtz	зерт 19	Local government			
W7.2		collection are eliminated, such as the Tumwater/Olympia border south of						
		the high school, by trading service areas						
	garbage fleet electrification	Electrify garbage truck floot. Start by developing plan for acceptance	Thad Curta	Cont 110	Local government	+		Seattle's new BYD EV rear-loader
	garbage neet electrification	Electrify garbage truck fleet. Start by developing plan for municipal and	Thad Curtz	Sept '19	Local government			
		private waste collectors that includes financing options.						https://arstechnica.com/cars/2019/05/seattle-makes-history-with-electric-
								garbage-truck/
								Volvo EV garbage truck
W7.3								https://www.motorauthority.com/news/1116920_volvo-introduces-electric-
								delivery-garbage-truck-with-186-mile-range
								Mack EV garbage truck
								https://www.greencarreports.com/news/1123352_mack-plans-to-send-electric-
	i	I	1	1		I		trucks-to-the-garbage-dump

A Focus Area: AGRICULTURE & FORESTS

Strategie

A1: Reduce emissions from agricultural practices.

A2: Support agricultural practices that sequester carbon

A3: Support production of less carbon-intensive agricultural products, and local food market:

A4: Preserve existing trees, forest lands, and open space

15: Manage forests to sequester carbon.

A6: Reduce emissions from the urban landscap

A7: Increase carbon sequestration in marine ecosystems

ction ID#	short name	description	source	date added	implementor	potential partners	target stakeholders	opportunities	barriers
1: Reduce em	nissions from agricultural practices.								
A1.1	manure management	Provide education and incentives (grants, loans, technical assistance) to support manure management that reduces methane and nitrous oxide emissions (ex. covered manure storage facilities, manure application practices).	Cascadia Consulting	Aug '19	TCD, WSUx		Farmers/ranchers; rural communities	Existing outreach program through the Thurston Conservation District	Funding for staff and BMP implementation
A1.2	nutrient management	Provide education and incentives (e.g., grants, loans, technical assistance) reduce nitrous oxide emissions when managing fertilizer.	TRPC	Aug '19	TCD		Farmers/ranchers; rural communities		Funding for staff and BMP implementation
A1.3	waste-to-energy	Conduct a feasibility study on small-scale energy production (ex. capture and combustion of methane, anaerobic digestion, biofuel and biogas production), then identify partners, programs and incentives to develop across TC.	TRPC	Aug '19	WSUx		Farmers/ranchers		
A1.4	water use	Develop an incentive program (e.g., technical assistance) to improve the efficiency of agriculture irrigation systems. Identify grant funding.	TRPC	Aug '19	TCD		Farmers/ranchers; rural communities	Drought grant funding through Washington State Conservation Commission	Funding for staff and BMP implementation
A1.5	BMP audits	Develop and incorporate mandatory sustainability audits into conservation/farm plans. Develop program and identify funding reduce energy use and promote best management practices (BMPs).	Cascadia Consulting/TRPC	Aug '19	TCD		Farmers/ranchers	Washington State Conservation Commission (WSCC) cost-share; build on existing checklists and processes	Funding for staff and BMP implementation

A1.6	feed additives	Provide education to promote methane-reducing livestock feed additives (ex. seaweed derivatives). Make cost effective by partnering with local vendors and consumers to develop a bulk purchase program.	AF Focus Group #1	Aug '19	TCD		Farmers/ranchers		
A2: Support ag	ricultural practices that sequester carbon.								
		Conseduration and other languages (so languages at the street of	TRPC	Laure 140	TCD MCII:	TESC DOD St Martin	Farman / and also are a small	Dilet	Condition for shelf and DNAD involves what is a firm and sink for the involves which
A2.1	regenerative agriculture	Expand regenerative agricultural practices (ex. low-till, no-till education programs) among farmers that aim for a "whole farm" approach. Provide education on how to increase organic matter content and water retention in soils within urban and agricultural settings.	IRPC	Aug '19	TCD, WSUx	TESC POP program, St Martins	Farmers/ranchers; rural communities	Pilot programs with incentives for farmers; Expand regenerative Ag training programs at insitutions of higher learning to support a new generation of famers that use regenerative agricultural production practices. Existing Equipment rental programs through TCD	Funding for staff and BMP implementation; financial risk for trying new practices or expanding;
A2.3	biochar	Thurston EDC, Port Authority and TCD partner to explore feasibility of biochar enterprise in Thurston County to promote amending soils with biochar.	TRPC	Aug '19	TCD/EDC/Port Authority		Farmers/ranchers		
A2.4	soil carbon research	Fund/support regional soil carbon sequestration research to encourage adoption of region-specific conservation farming practices that store carbon.	WSU	Jan '19	WSUx		Farmers/ranchers		
A2.5	silvopasture	Develop education programs and incentives to encourage farmers to incorporate tree planting on farms (e.g., silvoculture, silvopasture, agroforestry, tree cropping).	AF Focus Group Meeting #1	Aug '19	TCD		Farmers/ranchers		
A3: Support pr	oduction of less carbon-intensive agricultural	products, and local food markets.							
			AF Facility Consideration #4	Jan. 110	Thurstee County	cereal	F	T T T T T T T T T T T T T T T T T T T	Farancia that land to any ording of faranta day day day a
A3.1	farmland preservation	Support farmland preservation through land use policies and financial incentives (e.g., conservation easements) to maintain production capacity and increase self-sufficiency.	AF Focus Group meeting #1	Aug '19	Thurston County	SSFSN	Farmers/ranchers		Economics that lead to conversion of farmland to development
A3.2	food system assessments	Encourage growth of local markets through market research and assessment of our ability to feed ourselves from regionally-produced foods.	AF Focus Group meeting #1	Aug '19	TESC, WSUx	TEDC, WSUx, Senior Svs South Sound/ SSFSN	Farmers/ranchers		Lack of understanding of current capacity to meet local market needs
A3.3	processing and distribution hub	Develop a hub to process and distribute regionally-grown agricultural products to local markets (including restaurants, supermarkets, jails, schools, colleges, and hospitals).	AF Focus Group meeting #1	Aug '19	TEDC	WSUx, SSFSN Infrastructure/Processing WIT, EDC	Farmers/ranchers	Regional food can be price competitive, existing EDC programs	Distribution is inefficient locally with many small famrs spread out
A3.5	institutional markets	Explore local policy and financial incentives to increase the percentage of regionally produced foods purchased by cafeterias in government and municipal institutions.	AF Focus Group meeting #1	Aug '19	State and Local governments, school districts	EDC	Farmers/ranchers; rural communities	Existing EDC programs, WSDA grants to food banks to purchase and contract wi	tf more research needed
A3.6	SNAP access	Publicize federal nutrition incentive programs that aim to support small and mid-sized farms, such as SNAP, FMPP, LFPP, and FINI grant.	AF Focus Group meeting #1	Aug '19	Local governments	WA-DOH, Olympia FM, WSUx SNAF program	Farmers/ranchers		
A3.7	hemp production	Develop an economic development plan for attracting industrial hemp production as a way to create local jobs and sequester carbon.	Public comment	Aug '19	EDC, local governments		Farmers/ranchers	Soil testing program	
	woody crops	Provide technical assistance to help residents, businesses, and the	Adaptation Plan	Jan '19	Residents, agricultural community,		Farmers/ranchers		
A3.8		agricultural community grow woody perennial crops that help conserve water, store carbon, and provide other ecosystem services.			TCD				
A4: Preserve e	xisting trees, forest lands, and open space.			_		_			
A4.1	natural area preservation	Identify and establish a range of diverse, stable, long—term funding sources for the acquisition, restoration, and preservation of prime natural areas.	Cascadia Consulting	Aug '19	Thurston County	land trusts, TCD		Many such programs exist: Conservation Futures, FarmLink, CREP, salmon recovery funding, federal grants, etc. TCD forest planting programs	Lack of consistent Conservation Futures funding leaves a gap of local match funding that dampens ability of Thurston County land trusts (CLT, NLT, SSCFLT) to get funding for projects.
	working land proconcition	Identify or doubles local funding courses for agricultural and forester.	Coscodia Consulting	Aug 110	Thurston County	land tructs TCD	Farmers/ranchers	Voluntary Stewardship Program, Sentinel Landscape Partnership, Regional	Any program should be additional or build on existing programs, new program could take away from what limited funding is there.
A4.2	working land preservation	Identify or develop local funding sources for agricultural and forestry conservation easements. This could include creating a system for bundling small monetary contributions to invest in collective conservation easement or land purchases.	Cascadia Consulting	Aug '19	Thurston County	land trusts, TCD	rarmers/ranchers	Conservation Partnership Program Conservation Partnership Program	Lack of consistent Conservation Futures funding leaves a gap of local match funding that dampens ability of Thurston County land trusts (CLT, NLT, SSCFLT)
A4.3	tree codes								to get funding for projects. Difficult to enforce restrictions through successive landowners
		Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory	TRPC	Aug '19	Local government				Difficult to enforce restrictions through successive landowners
A4.4	clearing limits	Review and revise local development regulations to require the carbon	TRPC AF Focus Group meeting #1	Aug '19 Aug '19	Local government Local government		Farmers/ranchers; construction companies/ contractors		
A4.4 A4.5	clearing limits stream buffers	Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot	AF Focus Group meeting #1				I .	collaborate with salmon preservation efforts	
		Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot development in county and city zoning codes. Update permitting requirements to increase the required stream buffer size to increase carbon sequestration. Increase monitoring and enforcement of City and County zoning and other	AF Focus Group meeting #1 AF Focus Group meeting #1	Aug '19	Local government		companies/ contractors	collaborate with salmon preservation efforts	
A4.5	stream buffers	Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot development in county and city zoning codes. Update permitting requirements to increase the required stream buffer size to increase carbon sequestration. Increase monitoring and enforcement of City and County zoning and other regulations that preserve sensitive areas. Incentivize cluster development, such as giving a 10-25% density bonus, to	AF Focus Group meeting #1 AF Focus Group meeting #1 AF Focus Group meeting #1	Aug '19 Aug '19	Local government Local government		companies/ contractors Farmers/ranchers Construction	collaborate with salmon preservation efforts	
A4.5 A4.6 A4.7	stream buffers code enforcement	Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot development in county and city zoning codes. Update permitting requirements to increase the required stream buffer size to increase carbon sequestration. Increase monitoring and enforcement of City and County zoning and other regulations that preserve sensitive areas.	AF Focus Group meeting #1 AF Focus Group meeting #1 AF Focus Group meeting #1	Aug '19 Aug '19 Aug '19	Local government Local government Local government		companies/ contractors Farmers/ranchers	collaborate with salmon preservation efforts	
A4.5 A4.6 A4.7	stream buffers code enforcement clustered development	Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot development in county and city zoning codes. Update permitting requirements to increase the required stream buffer size to increase carbon sequestration. Increase monitoring and enforcement of City and County zoning and other regulations that preserve sensitive areas. Incentivize cluster development, such as giving a 10-25% density bonus, to preserve more open space. Develop a coordinated reforestation/afforestation program. Begin by identifying priority areas where reforestation and afforestation may have	AF Focus Group meeting #1 AF Focus Group meeting #1 AF Focus Group meeting #1	Aug '19 Aug '19 Aug '19	Local government Local government Local government	TCD (Forest RCPP)	companies/ contractors Farmers/ranchers Construction	collaborate with salmon preservation efforts	
A4.5 A4.6 A4.7 A5: Manage fo	stream buffers code enforcement clustered development rests to sequester carbon.	Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot development in county and city zoning codes. Update permitting requirements to increase the required stream buffer size to increase carbon sequestration. Increase monitoring and enforcement of City and County zoning and other regulations that preserve sensitive areas. Incentivize cluster development, such as giving a 10-25% density bonus, to preserve more open space. Develop a coordinated reforestation/afforestation program. Begin by identifying priority areas where reforestation and afforestation may have carbon reduction benefits. Expand extent of community forests that consider carbon sequestration in	AF Focus Group meeting #1 AF Focus Group meeting #1 AF Focus Group meeting #1 WSU Thurston Thrives	Aug '19 Aug '19 Aug '19 Jan '19	Local government Local government Local government Local government Local government Array and Party nonprofit, Thurston	TCD (Forest RCPP)	companies/ contractors Farmers/ranchers Construction	collaborate with salmon preservation efforts Opportunity to learn from existing Nisqually Community Forest	Difficult to enforce restrictions through successive landowners Require extensive up front work with community to develop vision and plan -
A4.5 A4.6 A4.7 A5: Manage fo	stream buffers code enforcement clustered development rests to sequester carbon. reforestation & afforestation program	Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot development in county and city zoning codes. Update permitting requirements to increase the required stream buffer size to increase carbon sequestration. Increase monitoring and enforcement of City and County zoning and other regulations that preserve sensitive areas. Incentivize cluster development, such as giving a 10-25% density bonus, to preserve more open space. Develop a coordinated reforestation/afforestation program. Begin by identifying priority areas where reforestation and afforestation may have carbon reduction benefits. Expand extent of community forests that consider carbon sequestration in their management goals. Mandate that timber companies lengthen the rotation of timber harvesting	AF Focus Group meeting #1 AF Focus Group meeting #1 AF Focus Group meeting #1 WSU Thurston Thrives TRPC	Aug '19 Aug '19 Aug '19 Jan '19 Jan '19	Local government Local government Local government Local government Local government Local government	TCD (Forest RCPP) Weyerhauser	companies/ contractors Farmers/ranchers Construction		Difficult to enforce restrictions through successive landowners
A4.5 A4.6 A4.7 A5: Manage fo A5.1	stream buffers code enforcement clustered development rests to sequester carbon. reforestation & afforestation program community forests	Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot development in county and city zoning codes. Update permitting requirements to increase the required stream buffer size to increase carbon sequestration. Increase monitoring and enforcement of City and County zoning and other regulations that preserve sensitive areas. Incentivize cluster development, such as giving a 10-25% density bonus, to preserve more open space. Develop a coordinated reforestation/afforestation program. Begin by identifying priority areas where reforestation and afforestation may have carbon reduction benefits. Expand extent of community forests that consider carbon sequestration in their management goals. Mandate that timber companies lengthen the rotation of timber harvesting in Thurston County as part of their permits. Expand market-based approaches for ecosystem services such as carbon	AF Focus Group meeting #1 AF Focus Group meeting #1 AF Focus Group meeting #1 WSU Thurston Thrives TRPC	Aug '19 Aug '19 Aug '19 Jan '19 Jan '19 Aug '19	Local government Local government Local government Local government Local government Solution of the second o		companies/ contractors Farmers/ranchers Construction companies/contractors		Difficult to enforce restrictions through successive landowners Require extensive up front work with community to develop vision and plan - funding would be needed for up front costs.
A4.5 A4.6 A4.7 A5: Manage fo A5.1 A5.2 A5.3 A5.4	stream buffers code enforcement clustered development rests to sequester carbon. reforestation & afforestation program community forests long-rotation timber	Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot development in county and city zoning codes. Update permitting requirements to increase the required stream buffer size to increase carbon sequestration. Increase monitoring and enforcement of City and County zoning and other regulations that preserve sensitive areas. Incentivize cluster development, such as giving a 10-25% density bonus, to preserve more open space. Develop a coordinated reforestation/afforestation program. Begin by identifying priority areas where reforestation and afforestation may have carbon reduction benefits. Expand extent of community forests that consider carbon sequestration in their management goals. Mandate that timber companies lengthen the rotation of timber harvesting in Thurston County as part of their permits. Expand market-based approaches for ecosystem services such as carbon credit trading. As part of an educational/technical assistance program, promote species	AF Focus Group meeting #1 AF Focus Group meeting #1 AF Focus Group meeting #1 WSU Thurston Thrives TRPC	Aug '19 Aug '19 Aug '19 Jan '19 Jan '19 Aug '19 Jan '19 Jan '19	Local government Local government Local government Local government Local government Solution of the solu	Weyerhauser	companies/ contractors Farmers/ranchers Construction companies/contractors		Require extensive up front work with community to develop vision and plan - funding would be needed for up front costs. Need to change the way carbon credits are awarded
A4.5 A4.6 A4.7 A5: Manage fo A5.1 A5.2 A5.3 A5.4 A5.5	stream buffers code enforcement clustered development rests to sequester carbon. reforestation & afforestation program community forests long-rotation timber ecosystem services monetization	Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot development in county and city zoning codes. Update permitting requirements to increase the required stream buffer size to increase carbon sequestration. Increase monitoring and enforcement of City and County zoning and other regulations that preserve sensitive areas. Incentivize cluster development, such as giving a 10-25% density bonus, to preserve more open space. Develop a coordinated reforestation/afforestation program. Begin by identifying priority areas where reforestation and afforestation may have carbon reduction benefits. Expand extent of community forests that consider carbon sequestration in their management goals. Mandate that timber companies lengthen the rotation of timber harvesting in Thurston County as part of their permits. Expand market-based approaches for ecosystem services such as carbon credit trading. As part of an educational/technical assistance program, promote species mixes for reforestation or aforestation that result in high-density carbon sequestration. Deploy an educational program for smaller foresters to increase	AF Focus Group meeting #1 AF Focus Group meeting #1 AF Focus Group meeting #1 WSU Thurston Thrives TRPC TRPC	Aug '19 Aug '19 Aug '19 Jan '19 Jan '19 Aug '19 Jan '19 Jan '19	Local government Local government Local government Local government Local government, USFS 3rd Party nonprofit, Thurston County Thurston County, DNR	Weyerhauser	companies/ contractors Farmers/ranchers Construction companies/contractors		Require extensive up front work with community to develop vision and plan - funding would be needed for up front costs. Need to change the way carbon credits are awarded
A4.5 A4.6 A4.7 A5: Manage fo A5.1 A5.2 A5.3 A5.4	stream buffers code enforcement clustered development rests to sequester carbon. reforestation & afforestation program community forests long-rotation timber ecosystem services monetization species mix	Review and revise local development regulations to require the carbon sequestration value of existing trees be considered in regulatory requirements like site plan review. Add clearing limits (usually expressed as percentage) for large lot development in county and city zoning codes. Update permitting requirements to increase the required stream buffer size to increase carbon sequestration. Increase monitoring and enforcement of City and County zoning and other regulations that preserve sensitive areas. Incentivize cluster development, such as giving a 10-25% density bonus, to preserve more open space. Develop a coordinated reforestation/afforestation program. Begin by identifying priority areas where reforestation and afforestation may have carbon reduction benefits. Expand extent of community forests that consider carbon sequestration in their management goals. Mandate that timber companies lengthen the rotation of timber harvesting in Thurston County as part of their permits. Expand market-based approaches for ecosystem services such as carbon credit trading. As part of an educational/technical assistance program, promote species mixes for reforestation or aforestation that result in high-density carbon sequestration.	AF Focus Group meeting #1 AF Focus Group meeting #1 AF Focus Group meeting #1 WSU Thurston Thrives TRPC TRPC WSU AF Focus Group meeting #1 AF Focus Group meeting #1	Aug '19 Aug '19 Aug '19 Jan '19 Jan '19 Aug '19 Jan '19 Jan '19	Local government Local government Local government Local government Local government, USFS 3rd Party nonprofit, Thurston County Thurston County, DNR TESC DNR, NW Natural Resource Group	Weyerhauser	companies/ contractors Farmers/ranchers Construction companies/contractors		Require extensive up front work with community to develop vision and plan - funding would be needed for up front costs. Need to change the way carbon credits are awarded

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AND 1 miled clocks: AND 2	A5.8	slash-to-biochar		AF Focus Group meeting #1		WSU extension commercial			
Mail Marce Control Control Marce Control Control Mail	A5.9	slash-to-fuel	, ,	AF Focus Group meeting #1		WSU extension commercial			
A file of emissions from the what hardscape. A file of emissions from the what hardscape is accordance ramping connecting the planting of the	A5.10	laminated timber		AF Focus Group meeting #1		Local governments			
Commerce		carbon in the CAO	Authorize carbon as a justification for critical areas ordinance protection.	AF Focus Group meeting #1		Thurston County, Department of			
MA.1 International standarding in particular of international confidence of internatio	A5.11								
Act 1 months of the composition and the compos	A6: Reduce em	issions from the urban landscape.							
A6.3 re-protection A6.4 re-protection A6.5 municipally contribute of cases or office and an arrangement of cases or office institutions. A6.5 municipally contribute of cases or office institutions. A6.6 re-protection A6.6 re-protection A6.7 municipally contribute of cases or office institutions. A6.8 re-protection A6.9 municipally contribute of cases or office institutions. A6.9 use owner centring. A6.9 discipations. A6.9 use owner centring. A6.9 use office in centring of the owner centre of the owner office in centre of the owner centre office in centre of the owner centre office in centre of the owner centre office in	A6.1	low-maintenance landscaping		Adaptation Plan	Jan '19	Local governments	Thurston Conservation District		TCD and other Native Plant Sales
equanting tree tamoy in exhauge for rather corells purchased by businesses and other institutions. AG. The protection state (businesses and other institutions). AG. The protection state (businesses are considered by the protection ordinaces based on a review of state (businesses). AG. The protection state (businesses). AG. The prot	A6.2	street tree plan	prioritizes goals for carbon sequestration, climate change resiliency, and other equitably distributed co-benefits. Plan should include minimum	Cascadia Consulting	Aug '19	Local governments	Thurston Conservation District		
A6.5 malicipally-controlled canopy Maintire tere canopy on City-coveral or City-controlled land. A6.6 tree-ware zoning A6.6 tree-ware zoning A6.6 tree-ware zoning A6.7 adoptation A6.7 adoptation A6.8 landscape regulation A6.9 landscape appropriate to the site that provides and evelopements offered the use of landscaping appropriate to the site that provides shade in summer/s un in winter. A6.9 landscape regulation A7.1 marine vegetation Modify landscape development code requirements to direct the use of landscaping appropriate to the site that provides shade in summer/s un in winter. A7.1 marine vegetation Modify landscape development code requirements to direct the use of landscaping appropriate to the site that provides shade in summer/s un in winter. A7.2 landscape and the composition of the composition of the site of landscaping appropriate code requirements and regulatory action so medium to high composition of the site of landscaping appropriate code requirements and regulatory action so medium to high composition of landscaping appropriate code requirements and regulatory action so medium to high composition of landscaping appropriate code requirements and regulatory action so medium to high composition of landscaping appropriate code requirements and regulatory action so medium to high composition of landscaping appropriate code requirements and regulatory action so medium to high composition of landscaping appropriate code requirements and regulatory action so medium to high composition of landscaping appropriate code requirements and regulatory action so medium to high composition of landscaping appropriate code requirements and regulatory action so medium to high composition of landscaping appropriate code requirements and regulatory action so medium to high code requirements and regulatory action so medium to high code requirements active regulation active regulation	A6.3	urban tree canopy incentive program	expanding tree canopy in exchange for carbon credits purchased by	Adaptation Plan	Jan '19	Local governments	residents, property owners, K-12,		effort to not just get more urban tree cover but create incentives for it. Could be an avenue that municipalities can use to at least make the effort break even? Seattle Free Tree Program
A6.5 tree-wave zoning Modify coning setacks and similar provisions designed to provide promoter on and encourage large tree. A6.7 adaptation Educate City and County staff shout low cost ways to adapt infrastructure to conform to the needs of growing trees, rather than removing the trees. A6.8 Individual pregulation Modify individual provides shade in summer/ sun in winter. The canopy ordinance Develop a tree canopy ordinance that establishes a baseline for current urban canopy and sets goals for future canopy to increase cate's resilience. Construction companies/contractors Construction companies/contractors Construction companies/contractors Construction companies/contractors Construction companies/contractors Construction companies/contractors Local governments Construction companies/contractors C	A6.4	tree protection		AF Focus Group meeting #1		Local governments			
A6.6 In and encourage large trees. A6.7 adaptation Conform to the needs of growing trees, rather than removing the trees. A6.8 landscape regulation Modify landscape development code requirements to direct the use of anothorous properties to the site that provides shade in summer/sun in winter. A6.8 Tree canopy ordinance Develop a free canopy ordinance that establishes a baseline for current winter. A6.9 Tree canopy ordinance Develop a tree canopy ordinance that establishes a baseline for current winter. A7.1 Increase carbon sequestration in marine ecosystems. A7.2 Increase carbon sequestration in marine ecosystems. Bull carbon Research actions to implement blue carbon programs in Thurston County, Puget Sound proporty owners Bull carbon Research actions to implement blue action programs in Thurston County, Puget Sound partnership. DNR Partnership, DNR Partnership, DNR Partnership, DNR Partnership Partne	A6.5	municipally-controlled canopy	Maximize tree canopy on City-owned or City-controlled land.	AF Focus Group meeting #1		Local governments			
A6.7 to conform to the needs of growing trees, rather than removing the trees.	A6.6	tree-aware zoning	, ,	AF Focus Group meeting #1		Local governments			
A6.8 Iandscaping appropriate to the site that provides shade in summer/ sun in winter. Develop a tree canopy ordinance Develop a tree canopy ordinance that establishes a baseline for current urban canopy and sets goals for future canopy to increase cities' resilience. Combine direct cooling value (urban heat island mitigation) with carbon sequestration value when evaluating urban tree management. A7: Increase carbon sequestration in marine ecosystems. Increase ca	A6.7	adaptation		AF Focus Group meeting #1		Local governments			
urban canopy and sets goals for future canopy to increase cities' resilience. Combine direct cooling value (urban heat island mitigation) with carbon sequestration value when evaluating urban tree management. A7: Increase carbon sequestration in marine ecosystems. A7.1 marine vegetation marine vegetation marine vegetation marine vegetation such as eelgrass to improve water quality, sequester, and improve fish habitat and survival. A7.2 blue carbon Research actions to implement blue carbon programs in Thurston County, aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation and restoration of aimed at sequestering carbon through the conservation	A6.8	landscape regulation	landscaping appropriate to the site that provides shade in summer/ sun in			Local governments			
Marine vegetation Understand current efforts and develop a plan to enhance the protection of marine vegetation such as eelgrass to improve water quality, sequester, and improve fish habitat and survival. A7.2 Understand current efforts and develop a plan to enhance the protection of marine vegetation such as eelgrass to improve water quality, sequester, and improve fish habitat and survival. Adaptation Plan Jan '19 Thurston County, Puget Sound Partnership, DNR residents, agricultural community, property owners Thurston County, Puget Sound Partnership, DNR residents, agricultural community, property owners Thurston County, Puget Sound Partnership Partners	A6.9	Tree canopy ordinance	urban canopy and sets goals for future canopy to increase cities' resilience. Combine direct cooling value (urban heat island mitigation) with carbon			Local governments			Low emission sector and regulatory action so medium to high impact.
A7.1 marine vegetation such as eelgrass to improve water quality, sequester, and improve fish habitat and survival. A7.2 marine vegetation such as eelgrass to improve water quality, sequester, and improve water quality, sequester, and improve fish habitat and survival. A7.2 phulic survey A7.2 partnership, DNR residents, agricultural community, property owners Thurston County, Puget Sound Partnership A7.2 presidents, agricultural community, property owners Thurston County, Puget Sound Partnership	A7: Increase ca	rbon sequestration in marine ecosystems.			,		•	•	
A7.1 marine vegetation such as eelgrass to improve water quality, sequester, and improve fish habitat and survival. A7.2 marine vegetation such as eelgrass to improve water quality, sequester, and improve attended survival. Partnership, DNR residents, agricultural community, property owners Thurston County, Puget Sound aimed at sequestering carbon through the conservation and restoration of		marine vegetation	Understand current efforts and develop a plan to enhance the protection of	Adaptation Plan	Jan '19	Thurston County, Puget Sound	nonprofits, neighborhoods,		Squaxin Island Tribe research/project in Oakland Bay; decisions around Capitol
improve fish habitat and survival. blue carbon Research actions to implement blue carbon programs in Thurston County aimed at sequestering carbon through the conservation and restoration of	A7.1								
blue carbon Research actions to implement blue carbon programs in Thurston County aimed at sequestering carbon through the conservation and restoration of Partnership									
A7.2 aimed at sequestering carbon through the conservation of Partnership		blue carbon	Research actions to implement blue carbon programs in Thurston County	Public Survey		Thurston County, Puget Sound			
	A7.2								
			coastal and marine ecosystems.		1	· 1			

G Focus Area: CROSS-CUTTING (GENERAL)

Strategies:

nduct education and outreach across climate mitigation areas

G2: Support a green local economy

G4: Enhance monitoring and evaluation of climate mitigation measures and outcome

G5: Advocate for climate-mitigating state and federal poli

tion ID#	short name	description	source	date added	implementor	potential partners	target stakeholders	opportunities	barriers
L: Conduct e	ducation and outreach across climate miti	igation areas.							
G1.1	educational website	Develop user-friendly website and outreach materials to educate residents of the health and cost benefits of reducing GHG emissions in their lives and homes and resources on how to do it.		Aug '19	Other community partner				
G1.2	consumption (COMBINE WITH G1.5)	Develop and run community based social marketing program to reduce consumption and inform consumers about options for reducing their carbor footprint.	Thad Curtz	Sept '19	Local governments/other community partner			Lower thermostats, buy more fuel efficient vehicles, buy l allow grass to grow longer or even die, stop washing sidev	
G1.3	ClimeTime	Coordinate OSPI ClimeTime program with local government to bring youth into the feedback and planning process of developing climate mitigation programs and policy.	G Focus Group #1	Sep-19	OSPI/Local government				
G1.4	Career Connects	Set a target to increase the percentage of green jobs in the Career Connects WA program each year.	G Focus Group #1	Sep-19	State		workforce development		
G1.7	social research (COMBINE WITH G1.2)	Work with higher education institutions to research effective behavior change through marketing and educate. Use this information in developing campaigns to reduce high emissions GHGs.	G Focus Group #1	Sep-19	Higher education/Local government				
G1.9	staff training	Develop climate mitigation practices for government employees at work and require they be implemented. Set outcomes to measure effectiveness.	CAW	Oct-19	Local government				
: Support a	green local economy.	·			<u> </u>			·	
G2.1	clean energy economy	Set policy that requires recruitment and retention practices for clean energy economy companies.	/ TRPC	Jan '19	Local government, EDC		workforce development		
G2.2	sustainable businesses	Develop a green guide for area businesses and build award programs to reward implementation.	Cascadia Consulting	Aug '19	Local government, EDC, Cambers of Commerce	f			
G2.3	clean economy roundtables	Organize and facilitate roundtables with business leaders focused on clean economy strategies.	Cascadia Consulting	Aug '19	Local government				

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Continue		technical clearinghouse	Have TRPC or another entity function as a clearinghouse for government	G Focus Group #1	Sep-19	TRPC			
Marie Mari	G2.4			- · · · · · · · · · · · · · · · · · · ·					
Section Sect									
Section Sect		cleantech park	Develop a "cleantech" business park and provide incentives (tax utility) for			Local government Port	rural communities		
April Apri	G2.5	cleantech park				Local government, Fort	Tural communities		
				C F C #1	C 10	M/TD /I and an anatom			
Control Cont	63.6	training diversification		G Focus Group #1	Sep-19	w i B/ Local government	workforce development		
Marie Mari	G2.6		to ensure a wide variety of green jobs is part of the workforce training.						
Marie Mari						ļ			
Part	62.7	jobs leadership	Provide technical assistance to local businesses to generate green jobs and	G Focus Group #1	Sep-19	EDC			
1	G2.7		practices.						
1	G3: Fund clin	rate mitigation actions							
March Marc	OS. Tuna cim	ate magation actions.							
April Continue C	62.1	tax benefits	Develop tax incentives for businesses that demonstrate GHG reductions in	G Focus Group #1	Sep-19	Local government			
Author Control of Control	63.1		their production.						
March		cost-sharing		G Focus Group #1	Sep-19	Local government, EDC			
A	G3.2				·				
Continue		green energy hond	i i	G Focus Group #1	Sen-19	Local government		San Diego's- green energy hond?	
See the second s		green energy bond		G 10cus Gloup #1	3CP 13	Local government			
Control Cont	G3.3							- could be a model for other public entities for energy retroits	
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service to the property of the control of the contr	 	+	,	0.5	640	1.0.1	+		
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CAL PROPER CANAL LESS CAPPE. THE CANAL LESS CAPPE. THE CANAL LESS CAPPE. THE CAPPE CAPPE CAPPE.	C4. Full-sur	monitoring and avaluation of discrete with the	management and autonomon						
France TEXT, stew sometimes and transport framework from the control of the contr	G4: Ennance	nonitoring and evaluation of climate mitigation	i measures and outcomes.						
France TEXT, stew sometimes and transport framework from the control of the contr		emissions inventory	Prepare and publish an annual emissions inventory that tracks greenhouse	TCAT	Aug '19	TRPC, TCAT	Thurston County, Lacey, Olympia,	TCAT has been producing regular emissions inventories using a comparable EPA	
A STANDAM STAN	1	· · · · · · · · · · · · · · · · · · ·				1 '			
profused contained and profused and profused contained and profused and profused contained and profused and profused contained and profused and profused contained and profused and profused contained and profused and profused contained and profused cont							Turningter, Turni, others	methodology, and has past data effected into dealt dail	
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Act Section									
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As a first market staturs, and who is regarded common and untion is finite services. Security (IA) and segment of the common of the services of the common o		performance measures				Local government, TCPC			
the creation sources of sinks Cycled sources of extract entitions mentione in four consider (consider to 15 km) FC (27)	G4.2		Regularly update and publicize for community to track their progress.						
Management Man									
with critic populations. Value ratio of criticis. Value ratio of cri		other emission sources and sinks	Expand sources and sectors in future emissions inventories to inform future	Cascadia Consulting, TCAT	Aug '19	TRPC, TCAT		Review Cascadia and TCAT memos for suggestions on examples.	
New Age as sequentiation actions actions. Well past depositions in ministering receivement that is specific forming received that is specific forming received received received and received received and received received and received r	G4.3		regulatory policy to reduce GHG emissions. Connected to actions T1.5 and						
Age December of publishers December of p			W6.1, and sequestration actions.						
geograph and the international control of co		vulnerable populations	Develop a data and monitoring mechanism that is specific to marginalized	Cascadia Consulting	Aug '19	TRPC	communities of color; low-income		
social cost of real-point manufacture, access to Art. presentable, second selection by the recomplishing control and office second and control and office second and control and office second and control and con									
overlag part or plant production with confidence with respect to the service of a straight of the service of a straight of the service of the	G4.4								
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So Advocate for climate-mitigating state and federal policy: Track, montor and share information about Washington Utilities and Track planting or and schedy vercuit residents to give feedback and attention measure (UTC) meeting and actively vercuit residents to give feedback and attention measure to support both GMC emission publicy. Social ready building code	G4.6								
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