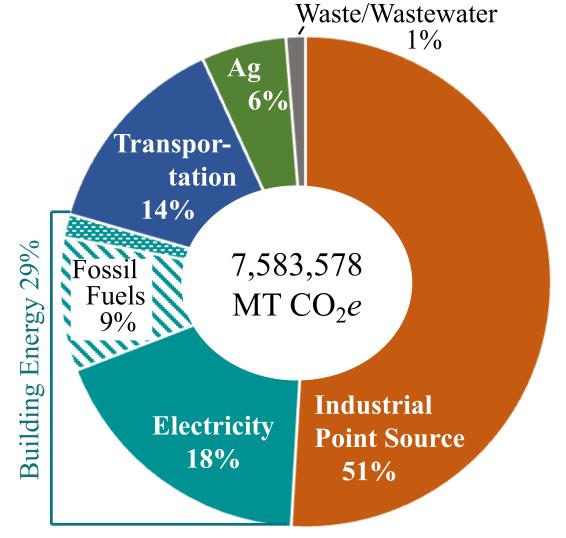
Whatcom 2021 Climate Action Plan

Climate Impact Advisory Committee August 10th, 2021

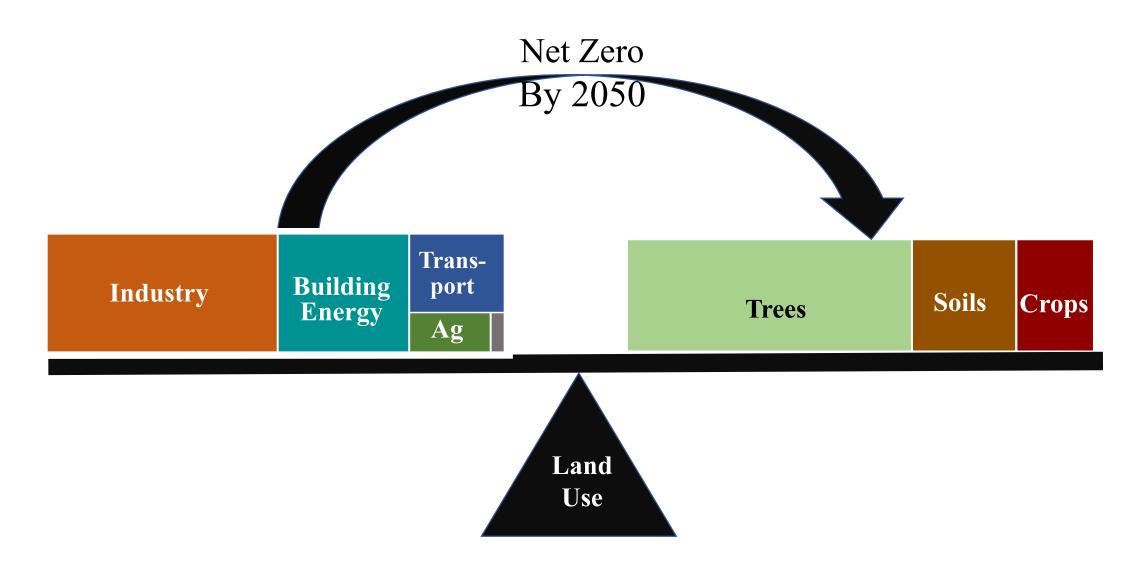
Between 2000 and 2017 Whatcom GHG Emissions Have Grown Faster than the Population

Communitywide Targets: we followed State Targets of 45% reduction below 1990 levels by 2030 & 95% reduction by 2050.

Our County emissions are almost 3 times the State-wide per capita emissions



Overall Challenge 2050 Goal



Climate Action Plan Organization

1. Climate Change in Whatcom County

 Observed climate trends, GHG assessment, Targets, State Legislation and Guiding Principles.

2. Built Environment

- Electricity & Buildings
- Industry
- Transportation
- Waste
- Land Use

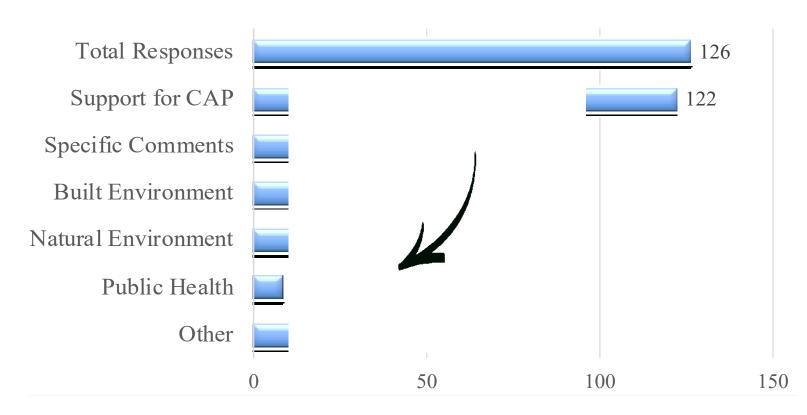
3. Natural Environment

- Water Resources & Fisheries
- Agriculture
- Forestry
- Ecosystems

4. Implementation

- Office of Climate Action (coordination, information, community engagement), Role of CIAC, & Funding.
- 5. Appendices: Technical reviewers for each area; suggested demonstration projects.

July 30-day Public Review Results

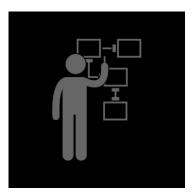


- 87 form letter response
- 4 organizations
 - North Cascade Audubon
 - RE Sources
 - Whatcom Million Trees
 - PSE
- 60 responses offered changes or suggestions

[Other category: coordinate with Tribes, public communication, organization of plan, wildfire concerns, etc.]

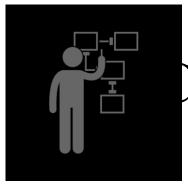
Discussion Today:

- What did you like or not like about the Plan?
- Do you have questions or suggestions?



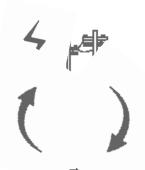
County Implementation

- Establish an Office of Climate Action & Senior Climate Advisor to the Executive and Council.
- Appoint an interim head from within current county staff while pursuing funding to hire a permanent head of the office.
- Hire a data analyst/information specialist to begin compiling relevant climate data and making them available to staff and the community.



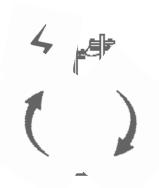
County Implementation

Key Priorities in Implementation			
2021	2022	2023	2024
Establish Office	Publicity and Advertising Ca	mpaigns GHG Asse	ssment for 2022
of Climate Action (Interim Director)	Initiate Town Halls wit to Prioritize CAP		CAP Progress Analysis & Plan Revision
Search/Hire Director	Coordinate CAP Project Implementation Across County Agencies & with Community Stakeholders		
Hire Data	Solicit Legislative/Funding	Support for CAP Actions at Sta	te/Federal Levels
Specialist		g for Initial Projects and Explor n Collaborations & Student Inte	•
	Ballot Initiative? to Fund OCA Permanently		



Electricity & Buildings

- Commit to net zero carbon emissions for government buildings & create resilience hubs for emergencies & community benefits.
- Accelerate deployment of distributed energy resources & broadband while ensuring equity & to promote energy resilience.
- Develop an equity-based financing plan to expand energy efficiency upgrades and electrification of space and water heaters.
- Promote leadership at the state and county levels through support of climate legislation and demonstration projects that promote climate resilience.



Electricity & Buildings

Key Priorities for Electricit	y and Buildings
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2021 2022 2023

Codes, Regulations

Incentives, Finance Tools

Program
Implementation,
Collaboration,
Advocacy

Net-zero C Emissions in County Buildings

Electrification & Efficiency Codes for New Buildings

Establish Resilience Hubs for County Services

Accelerate DERs & Microgrids Communitywide: Implement C-PACER→ PACE and Support NGO's

Collaborate with Port & PUD-1 on Fiber & Public Power Expansions

Establish Climate Resilience Leadership at State & County Levels



Industry Point-Source Emissions

- Facilitate a solutions-focused collaboration with bp's Cherry Point and energy experts in academia, state and federal governments to discuss ways to reduce emissions 45% by 2030.
- Promote the research, development, & collaboration needed to build a hydrogen electrolysis facility to create green hydrogen.

2019 Washington Clean Energy Jobs

- more clean energy jobs in Washington than fossil fuel jobs
- of Washington clean energy workers are veterans, nearly double the national average
- 8.3K rural Washington residents work in clean energy
- 7 **OUT OF** clean energy employees in Washington work at companies with fewer than 20 employees
 - 45% of Washington's clean energy workforce is located outside of the Seattle metro area
- 5 out of counties by clean energy jobs per capita have 10 populations fewer than 100,000 including Jefferson County which has 23 clean energy jobs for every 1,000 employable residents



Industry Point-Source Emissions

Key Priorities for Industry Point Source Emissions

2021 2022 2023

Codes, Regulations

Incentives, Finance Tools

Program Implementation,
Collaboration,
Advocacy

Cherry Point Amendment

Evaluate additional code updates that would promote sustainable infrastructure to attract new clean/green industries

Start tracking federal and state funding opportunities to support climate resilience strategies

Identify Person to lead discussions with refineries & bring together interested parties into these discussions



Transportation

- Accelerate adoption of EVs through pooled EV purchases, charging stations at all government buildings and parks, & building codes that promote EV charging at businesses and homes.
- Implement the regional trails plan for commuting and recreation and provide safe active transportation routes for schools.
- Explore and encourage electrification of buses throughout the county.



Transportation

Key Priorities for Transportation			
2021	2022	2023	
Codes, Regulations Incentives, Finance Tools	Require or incentivize businesses to provide charging stations Offer pooled purchasing of EVs to reduce cost for county reside		
Program Implementation, Collaboration, Advocacy	Create safe, active transportation ro	outes to schools	
	Evaluate County vehicle fleet for efficiency Prioritize climate in transportation		



- Collect the necessary data through expanded audits to evaluate the success of existing programs & the benefit of new programs.
- Eliminate single use plastic containers & utensils.
- Expand the Food Recovery Program to add a food kitchen to reduce food waste.



Key Priorities for Waste			
2021	2022	2023	
Codes, Regulations	Eliminate Single Use Plastic (containers, utensils)		
rtegalatione	Request more Detailed Data Through Waste Audits		
Incentives, Finance Tools	Fund & Expand the Food Recovery Program to Add a Food Kitchen		
Program	Install Water Refill Stations at Cou	unty Parks	
Implementation, Collaboration, Advocacy	Success of the	ecessary Data to Evaluate the Existing Solid Waste Program & nefit of New Programs	



Land Use

- Ureate a climate-resilient regulatory framework for new County development.
- Use regulations to enhance active & public transportation systems & infrastructure.
- Require a climate-focused risk assessment for all County infrastructure.
- Protect ecological zones that create climate resilience such as riparian areas, floodplains, shorelines, wetlands & migrations corridors.



Land Use

Key Priorities for Land Use			
2021	2022		2023
Codes/	Update codes/regs using	յ climate resilience cr	iteria
Regulations	Avoid critical areas & design infrastructure based on climate scenarios		
Incentives, Finance Tools	Revise zoning codes a	nd compensate lando	owners to preserve lands
	Increase Impact Fees to incentivize climate resilience		
	Expand Transportation Benefit Districts		
	Ex	kpand municipal owr	ned broadband
Program Implementation, Collaboration, Advocacy		Climate resilie	ence into Comprehensive Plan
	Climate vulnerability &	GHG assessments f	or new large developments
	Increase	multi-modal transpor	tation throughout county

Prioritize NR programs that enhance ecosystem health



Water Resources and Fisheries

- Resolve uncertainty in current & future water supply under climate change.
- Restore and protect watersheds that enhance streamflow and reduce water temperature to ensure year-round salmon migration & survival.
- Incentivize efficiency upgrades to water consumption systems and new augmentation approaches.
- Rebuild connectivity of our fragmented hydrologic system to increase natural water storage on the landscape & reduce flood damage.
- Enhance estuarine, marine shoreline and coastal wetland habitats for fish and shellfish.

Water Resources and Fisheries

Key Priorities in Water Resources and Fisheries

2021 2022 2023

Codes/Regulations

Revise shoreline codes/regs that create healthy, climate-resilient ecosystems, including implementation of the Shoreline Restoration Plan

Designate coastal and riverine floodplains according to climate projections and update code to ensure climate resilient development (riverine & coastal)

Incentives, Finance Tools

Incentivize efficiency upgrades to water consumption systems & coordinate water conservation efforts

Program
Implementation,
Collaboration,
Advocacy

Begin development of a managed retreat plan to move people and infrastructure out of climate impact zones

Restore connectivity of our fragmented hydrologic system to increase water storage & reduce flood damage through conservation acquisitions with watershed partners

Incorporate climate projections when determining future water supply and watershed planning efforts

Increase storage capacity of floodwaters & promote climate resilient floodplain management



Agriculture

- Adopt farm management practices that maximize soil carbon storage and increase water and nutrient availability.
- Ensure a minimum of 100,000 acres of farmland is available for agriculture including rezoning the Rural Study Areas to agricultural zoning
- Reduce agriculture emissions & increase renewable energy, while providing farmers with new income opportunities.
- Promote use of climate research including drought- and heatresistant crops.



Key Priorities in Agriculture			
2021	2022	2023	
Codes/Regulations	Revise codes to in	crease renewable energy projects	
	Rezone Rural St	udy Areas to Agricultural Zoning	
Incentives, Finance	Expand CEP including significant increase to program staffing & funding		
Tools	Initiate a carbon credit marketplace to incentivize carbon storage		
Program	Irrigation mod	ernization & efficiency technologies	
Implementation, Collaboration, Advocacy		ng & agroforestry to increase ge & soil moisture	
		lemonstrations to generate data to greater flexibility in state water law	



- Protect, enhance, & monitor carbon storage and sequestration in forest ecosystems through implementation of a carbon credit program and other mechanisms.
- Increase forest health, survival & climate resilience using forest management practices that reduce wildfire risk, increase soil moisture, stream flows, & preserve wildlife habitat.
- Promote climate resilient planning & programs to maintain our forest economy for recreation and wood products.
- Reduce development pressure on rural forestry & other forested lands through voluntary conservation easements & review/ updating of zoning codes.



Key Priorities in Forestry			
2021	2022	2023	

Codes/Regulations

Require Locally-Sourced Lumber for County Buildings

Rezone Rural Forestry Zone to Commercial Forestry Zoning

Promote locally-sourced lumber in private developments

Incentives, Finance Tools

Demonstrate Climate Resilient Forest Management Practices

Expand CEP including significant increase to program staffing & funding

Initiate a Carbon Credit Marketplace

Program
Implementation,
Collaboration,
Advocacy

Develop Database/Forest Inventory Plots to Monitor Forest Health, Survival & Carbon Potential

Incorporate Climate Change Risk in Comprehensive Plan



- Develop & implement zoning regulations that protect wildlife climate migration corridors.
- Revise land use & development codes based on current & projected climate impacts to reduce damage & enhance resilience, including designation of climate impact zones.
- Provide technical, logistical, and financial support for community efforts to restore & enhance ecosystems.
- Implement long-term monitoring to assess the impact of climate on ecosystem health.



Ecosystems

Key Priorities in Ecosystems
2021 2023

Codes/Regulations

Incentives, Finance Tools

Program
Implementation,
Collaboration,
Advocacy

Require climate vulnerability assessment including evaluation of ecosystem function in future projected climate scenario in development permits

Designate and protect wildlife migration corridors and core habitats from land use changes

Expand CEP including significant increase to program staffing & funding

Increase funding & community awareness of ecosystem restoration needs

Initiate a Carbon Credit Marketplace

Monitor ecosystem health for representative ecosystems in the County

Incorporate Climate Change Risk in Comprehensive Plan