



City of Kenmore, Washington

City Council Meeting
October 23, 2023

Climate Action Plan **2023 Annual Report**

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EXECUTIVE SUMMARY

The City has developed and is implementing a climate action plan and the plan requires an annual update to the City Council. This update summarizes actions worked on this year and outlines proposed plans for 2024 through 2029.

2023 Recap Highlights

- Hired a Climate Action Program Manager
- Hired a part-time consultant (grants specialist)
- Grant research
- Developed and adopted a Climate Action Element (Comprehensive Plan)
- GHG emissions inventory update underway
- Starting a Climate Action Advisory Committee
- Education and outreach
- Develop expedited habitat conservation/restoration capital plan

2024-2029 Proposed Next Steps

- Develop an Urban Forest Management Plan (grant funded)
- Develop an EV Infrastructure Plan (grant funded)
- Ramp up education and outreach to the community (additional funding needed)
- Work in concert with the Financial Sustainability Plan process to strategize a funding plan to fund ongoing climate programs, including education and outreach
- Push for energy efficient buildings (education & outreach and incentives)
- Push for electric vehicles (education & outreach and incentives)
- Push for clean energy sources (lobbying efforts, education & outreach and incentives)
- Produce a Green Economy/Jobs Strategy
- Implement sustainable waste management initiatives, including more composting and recycling
- Increase energy efficiency of municipal operations (EV fleet, solar energy improvements, efficient streetlights)
- Move forward on more habitat conservation and restoration projects

Implementation of these actions is critical to achieve the City's GHG emissions reduction targets (50% by 2030 is the first target) and to increase the community's resiliency to climate impacts affecting the city now and into the future. Work in all sectors of the CAP is being done; however, resources are primarily focused on reducing emissions in *Buildings & Energy* and *Transportation & Land Use* community-wide, which account for over 91% of Kenmore's (community-wide) emissions, and in habitat conservation/restoration

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and urban forest management, which are the primary actions identified for increasing community resiliency.

INTRODUCTION

In 2020, the City Council set a vision and priority for creating a climate action plan for the City. After numerous outreach efforts, public engagement events, and many City Council meetings, the Kenmore City Council unanimously voted to adopt the first City of Kenmore Climate Action Plan (CAP) on May 16, 2022. The CAP establishes actions the City and community can take to reduce greenhouse gas (GHG) emissions 50% by 2030, 75% by 2040, and achieve net zero GHG emissions by 2050. The CAP also provides strategies to adapt to future climate change impacts. The strategies and actions in the CAP include five focus areas: Buildings & Energy, Transportation & Land Use, Consumption & Materials Management, Natural Systems & Water Resources, and Community Resilience & Wellbeing. Additionally, the City identifies actions it can take in its day to day operation of the City to reduce GHG emissions identified as Municipal Operations.

Reducing Greenhouse Gas Emissions

The following figure summarizes the primary sources of GHG emissions in the City. Knowing where the City's emissions come from helps guide where City resources and time should focus to achieve GHG emission reduction goals.

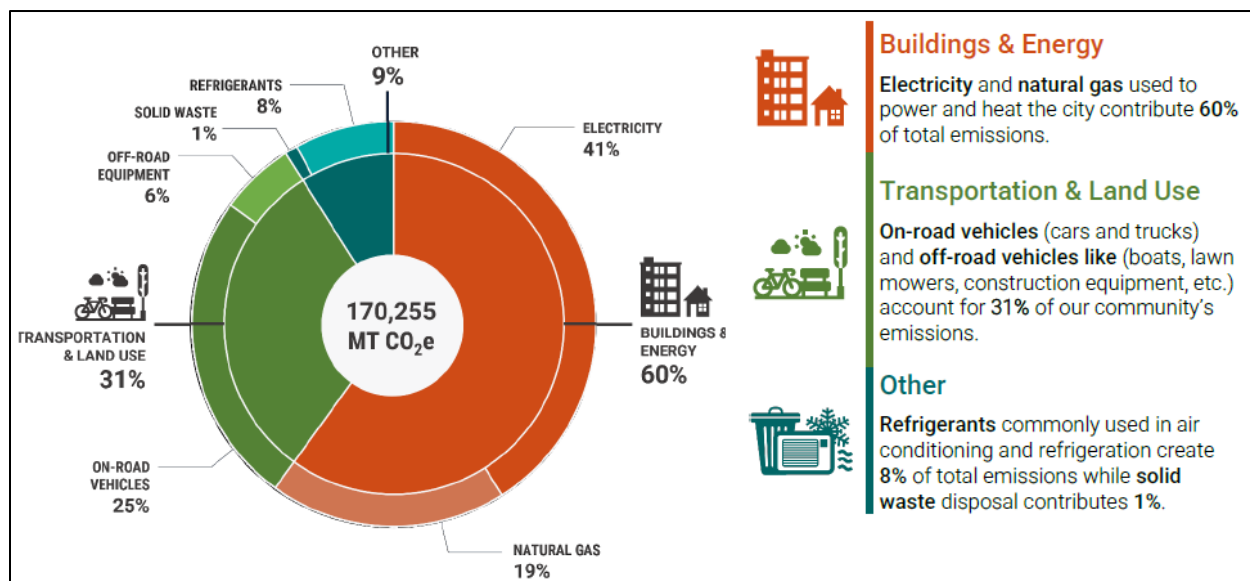


Figure 1: 2019 City of Kenmore GHG Emissions

The City's primary source of GHG emissions come from the electricity and natural gas used to power and heat the community. Transportation and land use come in second, which primarily includes the use of vehicles. These two sectors account for 91% of GHG emissions and efforts should be prioritized to implement actions here first.

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In addition to understanding where the City's GHG emissions come from, the figure below demonstrates that the City must support regional efforts to reduce emissions. Building and energy codes that push climate action must be supported and lobbied for, fuel standards must improve, and one of the most important factors in achieving our climate goals is to have a clean energy source powering our electrified homes, businesses, and vehicles by ensuring that the State Clean Energy Transformation Act (CETA) is successful.

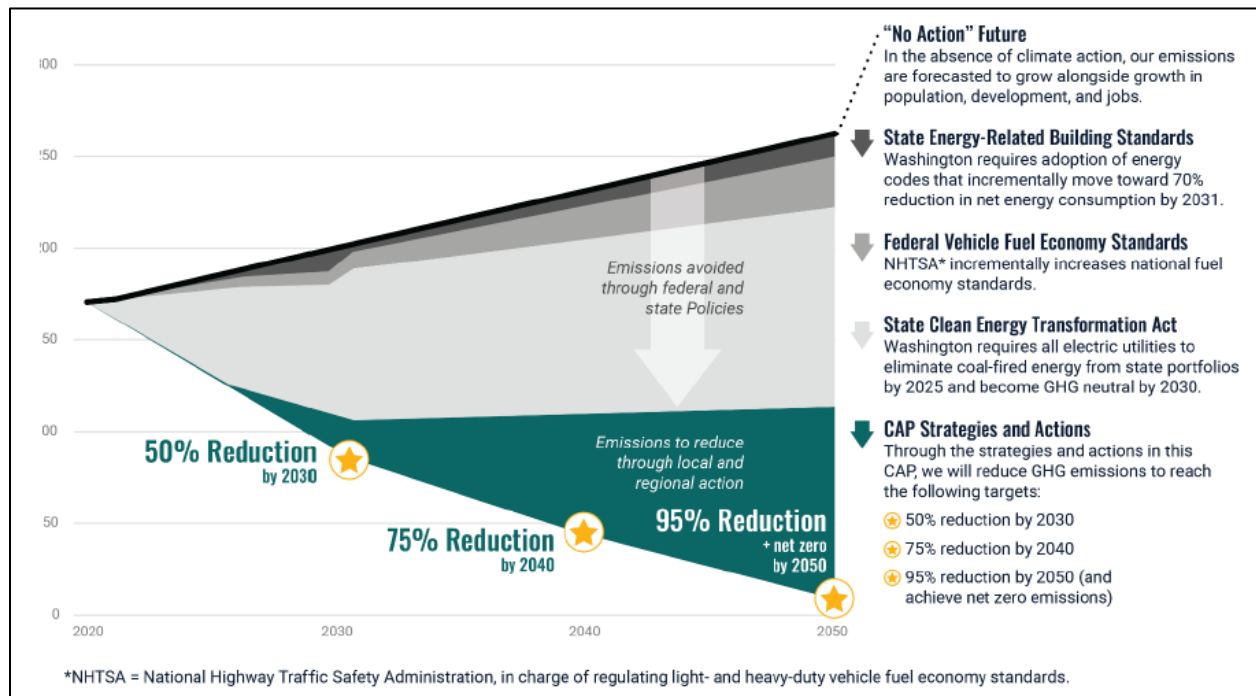


Figure 2: Emissions Reduction Goals and Key Actions

Increasing Community Resiliency and Adapting to Climate Impacts

An important aspect in Kenmore's climate planning and action is building resilience for communities and ensuring the ability to respond and adapt to climate impacts or events.

Being located on the shorelines of Lake Washington and the Sammamish River with miles of tributaries providing riparian habitat connected through urban forests, wetlands and floodplains provide the City with opportunities to counter impacts of climate change through conservation, restoration and protection of these natural resources. These natural environments provide carbon sequestration and can buffer some impacts of climate change in progress as local weather patterns change. Environmental stewardship needs to remain a priority.

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Additionally, as the City implements actions to achieve climate goals it must recognize that different members of the community face different challenges and not everyone has the same ability to adapt to these changes. Equity considerations will be included with any action the City implements.

To better anticipate potential adverse impacts, monitoring and evaluation is conducted on a regular basis. This includes regularly updated reports, such as Climate Vulnerability Assessments to better understand the local and regional risks and GHG emissions inventories to determine emissions trends. These evaluations can inform the direction of programming to best prepare for climate impacts.

COMMUNITY & PARTNERSHIPS

In completing climate action work it is crucial that the City of Kenmore forms partnerships to achieve regional and local goals. Additionally, receiving feedback, concerns, priorities and other input from the public is a necessary step to ensure Kenmore's work benefits all residents. Involving the community has occurred at various points in the planning process and will continue in future milestones and processes.

Some of Kenmore's existing partners include:

- King County-Cities Climate Collaboration (K4C)
 - K4C is a regional partnership that brings together local governments to accelerate climate action through joint efforts and resource sharing.
- ICLEI
 - ICLEI is an international organization that provides support to local jurisdictions in climate planning and reporting. ICLEI's ClearPath tool is used to track GHG emissions and determine projections for reductions.
- Olympia Community Solar
 - Kenmore's in-the-works residential solar campaign is being led by Olympia Community Solar, a regional non-profit that works to bring solar to more communities and that advocates for solar-friendly legislation.
- Northwest Electric & Solar
 - A local solar installer based in Kenmore, Northwest Electric & Solar has supported climate education through the Go Electric series and continues to be an involved participant in providing helpful solar knowledge to the community.
- Lake Forest Park & Shoreline
 - Kenmore began a partnership with the cities of Lake Forest Park & Shoreline earlier this year to host a summer seminar series. Staff are currently exploring other opportunities for collaboration with the cities.

OPERATING BUDGET & GRANTS

Climate Action Operating Budget

City Council approved three funding sources to establish a climate action operating budget in March 2023. Ongoing Surface Water Management (SWM) funds are also budgeted to support climate action. The following table summarizes the current climate action operating budget.

Funding Source	Estimated Annual Revenue
Natural Gas Utility Tax	\$42,546
Solid Waste Utility Tax	\$175,120
TBD Vehicle License Fee	\$104,469
SWM Service Charge	\$20,000
Total Annual	\$342,135

Climate Action Grants

Grants are a critical component of the City's implementation plan and staff have been working, with assistance from a consultant hired earlier this year, to research, prioritize and, if feasible, apply for grant funds to support climate action.

- Urban & Community Forestry (Washington Department of Natural Resources)
 - This funding supports the development of an Urban Forest Management Plan, a tree canopy assessment, public tree inventories, education and outreach, and tree planting and pruning. Awards range between \$5,000-\$40,000 with a 50% match requirement.
- Climate Planning (Washington State Department of Commerce)
 - Funding to support the addition of climate elements in comprehensive plan updates. This may include implementation items related to a climate element. Kenmore has a formula funding designation of \$500,000 to be guaranteed through 2029. The current round of funding offers \$30 million in total to be dispersed.
- Charge Where You Are (Washington Department of Ecology)
 - Grant provides funding for EV charging installation for fleets and workplaces, multi-unit residential buildings, and publicly available charging. \$1 million is available covering up to \$10,000 per plug or up to 80% of project costs.
- Washington State Electric Vehicle Charging Program (Washington State Department of Commerce)

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- Similar to the Ecology EV grant, this funding prioritizes multi-family, public, and fleet charging access, with a focus on overburdened areas. \$64 million is available, covering between \$7,500-\$85,000 per plug, depending on charger type.
- Climate Pollution Reduction Grant – Phase II (Environmental Protection Agency)
 - Phase II grants will be awarded to implement GHG reduction programs identified in a Priority Climate Action Plan in Phase I. Puget Sound Regional Council and Puget Sound Clean Air Agency will develop the plan with input from municipalities. Awards will be given in a range between \$2 million and \$500 million but will be very competitive. A collaborative approach is intended for successful applications.

CAP CURRENT IMPLEMENTATION (2022 - 2023)

The City hired a Climate Action Program Manager in May 2023, established an ongoing funding source to support Climate Action staff and programs, developed and adopted a new Climate Action Element in the City's Comprehensive Plan, hired a consultant to work with the CAP Manager on researching and applying for grant opportunities, provided climate education and outreach at several city and partnered events, and continued meeting with City Council and the community to develop this continually evolving plan to progress the City towards its climate action goals.

Climate Action Element – Comprehensive Plan Update

Development of a Climate Action Element was identified as an action in the City's CAP. After the adoption of the CAP, the Growth Management Act added a Climate Element as a requirement in Comprehensive Plan updates moving forward. The City was awarded an \$80,000 grant to develop a Climate Element, which is currently on schedule for City Council adoption in November 2023.

The Climate Element establishes climate goals, objectives, and policies for consideration in all of the City's on-going and long-term planning. Citywide implementation efforts, including the City's primary implementation plan, the CAP, will be consistent with the Climate Element.

The Element was reviewed by City Planning Commission and the community from February - June 2023 and City Planning Commission provided their final recommendation for City Council action in June 2023. Staff completed SEPA and Commerce review by September 2023 and presented the draft Climate Element to City Council in September 2023. The Climate Element is currently scheduled to be adopted November 2023.

Education & Outreach

Education and outreach efforts are one of the primary tools for implementing change needed to achieve the City's climate goals. The following opportunities were provided to the community throughout 2023.

Go Electric Series

The City of Kenmore partnered with the cities of Shoreline and Lake Forest Park to implement a summer seminar series around home electrification. Each city hosted an event to inform residents about clean energy and energy efficient options in their homes. The topic areas presented were induction stoves, home solar, and heat pumps. Staff plan on continuing this partnership to provide additional seminars and workshops in the future.

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Farmers Market Outreach

Staff engaged Farmers Market attendees through climate trivia and educational materials over the summer. Residents were asked how much they knew about climate change to help establish a baseline for future education needs. Staff also focused on educating children through activities and youth-tailored information.

Concert Series Outreach

Staff provided hands-on activities and games for concert attendees to learn about surface water and water quality. The Adopt-a-Drain program was promoted alongside other actions people could take related to climate change.

25th Anniversary Celebration Outreach

Kenmore's 25th anniversary was an opportunity to engage residents about the climate work that has been done thus far and Kenmore's climate plans for the future. Staff promoted the community workshop and encouraged residents to provide feedback in person and online. Energy and transportation were focus areas and staff showcased the electric GEM utility vehicle as an example

Information Pieces Via the City's Media Channels

The City has published a number of climate and environmental stewardship articles in its various media, including the quarterly newsletter, weekly top four listserv, and other channels.

Greenhouse Gas Emissions Inventory

An update to Kenmore's Greenhouse Gas Emissions Inventory is underway. Cascadia Consulting created Kenmore's first inventory for 2019. The current update will provide information for 2021 to assess trends in emissions reductions. In 2024 an additional update will be completed by staff to provide 2023 emissions numbers and additional trends. The 2021 update is being reviewed for methodology to ensure a capture of all appropriate activities and a resulting robust inventory.

Grants Pursuit

In addition to the grants identified above, staff have spent considerable effort researching a number of funding opportunities to support Kenmore's climate action work. While not

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every opportunity has been a good fit and Kenmore was not always likely to be a competitive applicant, it is important to continue to research upcoming grants to continue to see progress in the City's climate goals.

CAP Community Workshop and Online Open House

The City of Kenmore hosted a community workshop in September 2023 to gather feedback from the public on existing project options and to have the public put forward their own project ideas. An online open house mirrored the content of the workshop and allowed for further reach. The open house was open for two weeks with a survey to gather feedback and a forum to pose projects. There was ample participation with several new projects and priorities noted. The feedback gathered in both formats helped to inform the CAP implementation recommendations below.

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PROPOSED CAP IMPLEMENTATION (2024 – 2029)

In Progress Items

The following table highlights actions that are currently in progress. These actions are possible through utilizing existing staff, resources, or upcoming grants.

Sector	Action
Buildings & Energy	Local and regional review of building/energy codes and lobbying efforts to promote CAP goals.
	Solarize Kenmore
	Support development of community solar projects
	Green Power Program
Transportation & Land Use	Encourage transition to electric vehicles
	Incorporate environmental justice criteria into land use decisions
	Provide dense, mixed-use, transit-oriented developments and affordable housing
	EV infrastructure plan and charging stations
Consumption & Materials Management	City facility composting
	Conduct education, outreach, and technical assistance to promote recycling and composting
	Green purchasing policy, incl. contracts and goods
	Require fast food/take out compostables in restaurants
	Require vendors at city events to compost/recycle
	Requiring composting + recycling in res + commercial
	Strengthen construction and demolition (C&D) diversion requirements
Municipal Operations	Embed climate action considerations in City planning efforts
	Retrofit + solarize city buildings
Community Resiliency & Wellbeing	Advisory committee
	Strengthen transportation resiliency
	Green jobs strategy + hub
	Education & Outreach Program
Natural Systems & Water Resources	Habitat restoration + long term stewardship
	Protect, preserve, and restore local waterways
	Stream Culvert replacements
	Develop an Urban Forest Management Plan and increase tree canopy

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Recommended Actions to Start/Continue

Staff have received input from City Council, City Planning Commission, the community, and regional partners on a variety of implementation actions and strategies to consider for the City. Implementing every option isn't feasible; therefore, staff have identified actions that are impactful, feasible and fundable. The table below summarizes staff recommended actions and more detail on each action is provided on the following pages. A list of actions identified prior to the community workshop is listed in Appendix A. This list also tallies community votes and compares relative impact to cost. Appendix B shows additional identified projects from the community.

Proposed Action	Funding Source	
	2023-2024	Ongoing
EV Infrastructure Plan (EV charging)	Grant (plan)	Grants (implementation) FSP (implementation)
Solarize Kenmore Program	CAOB	CAOB
Green Power Program (w/ incentive program)	CAOB (Outreach)	FSP (Incentives) Grants
Green Jobs hub	Grant (feasibility study) CAOB	FSP (implementation)
Climate Advisory Committee	CAOB	FSP Grants
Education & Outreach Program	Grants CAOB	Grants FSP
Urban Forest Management Plan	Grant (plan)	FSP (implementation) Grants
Natural systems & habitat restoration	SWM Grants, Loans	SWM Grants, Loans
Expand solar at City Hall	Grant	FSP (implementation) GF, SWM
Electrify City fleet		FSP (implementation) GF, SWM
LED Streetlight replacement		FSP (implementation) Grants, GF
Public Works Operations Center solar		Grants, GF, SWM, Loans
FSP – CAP Team will work with Financial Sustainability Plan Staff & Task Force Grant – Project relies on grant for funding CAOB – Project is funded through existing Climate Action Operating Budget with staff time and/or direct funds SWM – Project is funded through Surface Water Management Fund GF – General Fund		

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EV Infrastructure Plan

Action:	Develop an EV Infrastructure Plan and expand access to public EV charging
Source:	CAP: TL 3.2, Expand EV Charging CAE: Objective 3.3, Increase the percentage of electric vehicles (EV), electric equipment, and other low emission transportation modes operating within the city.
Description:	Develop a comprehensive EV infrastructure charging strategy that encompasses fleet, public, and private property charging. Plan would ensure charger installations are placed in high-demand and high-convenience areas and serve a broad range of the city. Increase number of EV charging stations throughout the city to encourage a faster transition to EVs.
Implementation Considerations:	Strategy planning lead time may delay implementation of EV charger placement. Requires coordination and cooperation of commercial businesses and multi-family housing complexes.
Key City Department(s):	Environmental Services: Project Management Engineering: Review Operations: Review, installation, maintenance Development Services: Review
Regional Partnerships:	Possibility to develop a regional strategy with neighboring cities
Deliverable:	EV Infrastructure Plan EV charging projects
Impact Potential:	Moderate potential for GHG emissions reduction.
Staffing	0.15 FTE Environmental Services Project Manager 0.10 FTE Fleet & Facilities Manager 0.10 FTE Maintenance Worker 0.05 FTE GIS Analyst 0.15 FTE Engineer
Consultant	Planning: EV Infrastructure Plan development
Budget	\$1,866,000 (2024-2029 Estimated Cost) \$251,000 (Average Annual Cost) Grant support may be possible through the Washington Department of Commerce for plan development. Additional rebates and grants are possible for EV charging installation.

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Solarize Kenmore Program

Action:	Implement a Solarize Kenmore Program
Source:	CAP: BE 2.1, Incentivize a full transition to electric or solar energy in existing buildings CAE: Goal 4, Eliminate GHG Emissions from Buildings through Energy Efficiency and Electrification.
Description:	Work with a regional solar educator and local installers to promote residential solar to residents. Residents would be able to take advantage of a bulk discount during the campaign period and be walked through the process with the educating organization.
Implementation Considerations:	Control and implementation of the project would largely lie in the hands of the solar educator. Equity – Bulk discount does not provide substantially easier means for low-moderate income households to implement.
Key City Department(s):	Environmental Services: Project Management, Education & Outreach
Regional Partnerships:	Build partnerships with local installers, solar non-profits
Deliverable:	Report on campaign from solar educator including GHG reductions
Impact Potential:	Moderate potential for GHG emissions reduction. Moderate potential for community resiliency.
Staffing	0.10 FTE Environmental Services Project Manager
Consultant	NA
Budget	\$14,000 (2024 Estimated Cost) Program costs shouldered by partner organization. Budget accounts for staff time needed to assist in program implementation.

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Green Power Program

Action:	Encourage residential enrollment in PSE's Green Power Program
Source:	CAP: BE2.2, Encourage enrollment in PSE's Green Power Program CAE: Goal 4, Eliminate GHG Emissions from Buildings through Energy Efficiency and Electrification.
Description:	Transition homes and businesses in the community to PSE Green Power program, which provides renewable energy sourcing. Kenmore would subsidize the additional cost on electricity bills that would be required, especially for low-income residents. Monitoring and evaluation would be required to report impacts. Education and outreach would be implemented to gain buy-in and participation from residents.
Implementation Considerations:	Incentive programs for community – need to develop criteria for low-income prioritization
Key City Department(s):	Environmental Services: Project Management, administration, education & outreach
Regional Partnerships:	PSE
Deliverable:	PSE Report – number of Kenmore program participants, quantified kWh moved to clean energy
Impact Potential:	High potential for GHG emissions reduction.
Staffing	0.025 FTE Environmental Services Program Manager 0.20 FTE Administrative 0.125 FTE Education & Outreach
Consultant	NA
Budget	\$357,000 (2024-2029 Estimated Cost) \$59,500 (Average Annual Cost)

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Green Jobs Hub

Action:	Transform Kenmore into a Green Jobs hub and bolster the green economy
Source:	CAP: CR 2.2, Develop a green jobs strategy CAE: Goal 15, Support a Resilient and Green Local Economy Community workshop: 1 st highest overall comment
Description:	Establish Kenmore as a business center for green jobs, green innovation and industry. This involves a multi-pronged approach to incentivize companies in the green economy to move/do business in Kenmore and to build a green workforce. Specific action items include: <ul style="list-style-type: none"> • Green jobs economic feasibility study • Joining EnviroStars as a community partner • Recruit green tech employers for any future Lakepointe development • Host green events (summits, job fairs, trainings)
Implementation Considerations:	Economic feasibility study may delay implementation of other actions
Key City Department(s):	Environmental Services: Project Management, administration City Manager's Office: Economic development, outreach
Regional Partnerships:	Potential to partner with local schools, universities, businesses, and land owners
Deliverable:	Green Jobs Economic Feasibility Study Green jobs projects Green jobs, companies (as percentages of total Kenmore workforce and businesses)
Impact Potential:	Moderate potential for community resiliency.
Staffing	0.025 FTE Environmental Services Program Manager 0.8 FTE Economic Development Manager (new)
Consultant	Planning: Green Jobs Economic Feasibility Study
Budget	\$978,000 (2024-2029 Estimated Cost) \$147,500 (Average Annual Cost) Staff anticipate the availability of grants to cover the Economic Feasibility Study. Costs for implementation could vary wildly based on the program options identified in the study.

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Community Climate Advisory Committee

Action:	Establish a Climate Advisory Committee comprised of Kenmore residents, business owners, and students
Source:	CAP: CR 1.2, Co-create climate communications with Kenmore's communities
Description:	Implement a committee to advise the City Manager on climate-related issues. The committee will work closely with City staff to review plans, reports, and strategies for climate action. The committee may also lead volunteer activities, events, and other outreach needs.
Implementation Considerations:	
Key City Department(s):	Environmental Services: Project Management, administration
Regional Partnerships:	Local community groups, neighborhoods, schools, business associations
Deliverable:	Advisory reports Community projects
Impact Potential:	Low potential for community resiliency.
Staffing	0.05 FTE Environmental Services Program Manager 0.05 FTE Administrative
Consultant	NA
Budget	\$102,000 (2024-2029 Estimated Cost) \$17,000 (Average Annual Cost)

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Education & Outreach Program

Action:	Establish an Education & Outreach program to support climate projects and goals
Source:	CAP: BE 2.2, Encourage enrollment in PSE's Green Power Program; TL 3.1, Encourage transition to electric vehicles; CM 2.2, Conduct education, outreach, and technical assistance to promote recycling and composting; NS 1.1, Conduct outreach and education on water conservation strategies; NS 1.2, Utilize educational campaigns to encourage low-impact, drought-resistant landscape development and design
Description:	An Education and Outreach program will support various climate projects and goals and establish key programming to reach youth, low-income residents, business owners, and others. An Education and Outreach Specialist would be hired to implement the program. Each category of projects has needs for education and outreach in some form, which this role would fill. The program would include reports on number of students reached, events held, and other key metrics.
Implementation Considerations:	Funding may only provide staffing for term-limited position to fulfill specific projects.
Key City Department(s):	Environmental Services: Project Management
Regional Partnerships:	Local community groups, neighborhoods, schools, business associations
Deliverable:	Outreach reports
Impact Potential:	Low potential for community resiliency.
Staffing	1.0 FTE Education & Outreach Specialist (new)
Consultant	NA
Budget	<p>\$720,000 (2024-2029 Estimated Cost) \$120,000 (Average Annual Cost)</p> <p>Budget covers cost to hire new position. The amount listed is the high-end estimate for a full-time position. Other options such as intern support and/or part-time staffing would significantly lower budget.</p> <p>Grant funding may be available to fund position in part as it relates to specific projects.</p>

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Urban Forest Management Plan

Action:	Develop an Urban Forest Management Plan Increase Tree Canopy
Source:	CAP: NS & WR Strategy 2, Preserve and restore natural systems CAE: Policy CA-5.1.2, Develop an Urban Forest Management Plan Community Workshop: 2 nd highest overall comment
Description:	Develop an Urban Forest Management Plan to preserve, maintain and increase the city's tree canopy. Implementation can include updated regulations, programs to incentivize community participation (e.g. tree giveaways, tree planting events), and improved forest management practices on public properties.
Implementation Considerations:	Leverage other conservation/restoration projects Landscaping, tree and critical area standards/regulations Incentive programs for community Establishment protocols to consider (watering, inspections)
Key City Department(s):	Environmental Services: Project Management Engineering: Review Development Services: Review, Permits Operations: Maintenance
Regional Partnerships:	NA
Deliverable:	Urban Forest Management Plan Tree planting projects Tree canopy (as percentage coverage and number of trees)
Impact Potential:	High potential for community resiliency. High potential for carbon sequestration.
Staffing	0.05 FTE Environmental Services Project Manager 0.05 FTE Environmental Services Technician 0.10 FTE Maintenance Worker 0.05 FTE GIS Analyst 0.025 FTE Administrative
Consultant	Planning: UFMP Development Arborist: Design, inspection Engineering: Design, permits (if needed) Property Acquisition
Budget	\$563,000 (2023-2029 Estimated Cost) \$93,833 (Average Annual Cost) Grant funding for development of the UFMP is anticipated.

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Habitat Restoration

Action:	Protect, preserve, and restore local streams, shoreline and wetlands through habitat restoration, conservation, and long-term stewardship.
Source:	CAP: NS & WR Strategy 2, Preserve and restore natural systems Community Workshop: 4th highest overall comment
Description:	Protect, preserve, and restore local waterways: Partner with local and regional environmental groups and other jurisdictions (e.g., Conservation Corps, King County, and other cities along Sammamish River) to restore and protect Lake Washington, Sammamish River, Swamp Creek, and other critical waterways through actions such as invasive species removal, water quality monitoring (e.g., harmful algae), and riparian habitat restoration and conservation.
Implementation Considerations:	Land Acquisition Environmental Review Permitting Establishment (watering, inspections)
Key City Department(s):	Environmental Services: Project Management Engineering: Review Development Services: Review, Permits Operations: Maintenance
Regional Partnerships:	NA
Deliverable:	Restoration Projects Land Acquisition/Conservation
Impact Potential:	High potential for community resiliency. High potential for carbon sequestration.
Staffing	0.10 FTE Environmental Services Project Manager (New) 0.05 FTE Environmental Services Technician 0.10 FTE Maintenance Worker 0.05 FTE GIS Analyst 0.025 FTE Administrative
Consultant	Engineering: Design, permits (if needed) Property Acquisition
Budget	\$8,452,600 (2023-2029 Estimated Cost) \$1,408,800 (Average Annual Cost) Project is highly competitive for conservation and restoration grants. Grant reimbursement of 50%-75% is anticipated for projects. Budget would be provided by SWM Fund.

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Replace Fish Passage Barrier Stream Culverts

Action:	Remove and Replace Fish Passage Barrier Culverts and Restore Riparian Habitat
Source:	CAP: NS & WR Strategy 2, Preserve and restore natural systems Community Workshop: 4th highest overall comment
Description:	Remove or replace fish passage barrier culverts and ensure they are adequately sized to accommodate increased peak flows resulting from climate impacts. Any new or replacement culverts will be fish passable, particularly for migrating salmonid species. Engage the public in restoring native salmon populations via public outreach campaigns.
Implementation Considerations:	Land Acquisition Environmental Review Long Design and Permit Schedules Fish Windows (Construction) Utility Coordination
Key City Department(s):	Environmental Services: Project Management Engineering: Review Development Services: Review, Permits Operations: Maintenance
Regional Partnerships:	NA
Deliverable:	Completed Culvert Projects
Impact Potential:	High potential for community resiliency. High potential for carbon sequestration.
Staffing	0.9 FTE Environmental Services Project Manager (New) 0.025 FTE Administrative
Consultant	Engineering: Design, permits Property Acquisition
Budget	\$15,987,200 (2023-2029 Estimated Cost) \$2,664,433 (Average Annual Cost) Grants are anticipated to reimburse 50% of construction costs. Budget would be provided from SWM Fund.

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Municipal Operations: Expand Solar at City Hall

Action:	Install additional solar panels at City Hall to maximize roof area and potential power output.
Source:	CAP: MO 1.2, Retrofit existing buildings to be energy efficient and carbon neutral CAE: Goal 4, Eliminate GHG Emissions from Buildings through Energy Efficiency and Electrification.
Description:	Increase City Hall solar output capacity by installing additional solar panels and/or replacing existing solar panels as needed.
Implementation Considerations:	Permitting
Key City Department(s):	Environmental Services: Project Management Operations: Facilities Management Operations: Maintenance
Regional Partnerships:	NA
Deliverable:	Solar Panels Electrical Upgrades (if required)
Impact Potential:	High impact for municipal operations. Low impact for overall community emissions.
Staffing	0.10 FTE Facilities and Fleet Management Supervisor 0.05 FTE Facilities Maintenance Worker
Consultant	Electrician: Design, installation, permits (if needed)
Budget	\$197,500 (Estimated Install Cost) \$2,500 (Ongoing Maintenance) Staff anticipate utilizing grants to cover most of the installation cost.

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Municipal Operations: Electrify City Fleet

Action:	Replace existing city fleet vehicles with electric vehicles (EV) when current vehicles reach the end of their lifespan. New vehicles added to the fleet shall be EV.
Source:	CAP: MO 2.2, Electrify the City's fleet CAE: Policy CA-3.3.1, Convert public-owned fleets to zero-emission vehicles as they need to be replaced (e.g., electric or renewably produced hydrogen) and as soon as feasible.
Description:	<p>In 2024, the City operates a fleet of approximately 11 passenger vehicles (car/SUV), 9 light trucks (e.g. Ranger, F150), 4 heavy trucks (e.g. F350 and larger). Additionally, the City operates one sweeper and one backhoe, which is included in this program.</p> <p>Vehicle lifespan can vary depending on usage, but 10 years is generally used for planning purposes. The City has 21 vehicles scheduled for replacement in 2024-2029, including the sweeper and the backhoe.</p> <p>Currently, based on state contract pricing, a premium of approximately 25% is expected on purchasing EV versus a gas-powered counterpart (e.g. 2023 Ford F150 base price is \$35,674 and 2023 Ford Lightning is \$44,792). This program funds the premium for upgrading to EV.</p> <p>Charging infrastructure will be required to support electric fleet. Installation of charging infrastructure can vary, and daily use vehicles will require dedicated chargers.</p>
Implementation Considerations:	<p>Some vehicles do not have comparable EV (e.g., large trucks)</p> <p>Potential long-term savings on charging versus gas</p> <p>Requires installation of charging infrastructure</p>
Key City Department(s):	<p>Environmental Services: Project Management</p> <p>Operations: Fleet Management</p>
Regional Partnerships:	NA
Deliverable:	<p>Electric vehicles</p> <p>Charging Infrastructure</p>
Impact Potential:	<p>High impact for municipal operations.</p> <p>Low impact for overall community emissions.</p>
Staffing	0.10 FTE Facilities and Fleet Management Supervisor
Consultant	NA
Budget	<p>\$602,750 (2023-2029 Estimated Cost)</p> <p>\$100,460 (Average Annual Cost)</p> <p>Staff anticipate that grants may become available for EV infrastructure installation.</p>

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LED Streetlight Replacement

Action:	Replace existing city streetlights with high efficiency LED lights.
Source:	CAE: Goal 4, Eliminate GHG Emissions from Buildings through Energy Efficiency and Electrification.
Description:	In 2023, the City operates approximately 1,341 streetlights. 309 streetlights are already LED, but 1,032 still need to be converted.
Implementation Considerations:	Upfront cost to replace streetlights Ongoing energy cost savings expected to be \$68,837, annually
Key City Department(s):	Operations
Regional Partnerships:	NA
Deliverable:	LED lights on all City operated streetlights
Impact Potential:	High impact for municipal operations. Low impact for overall community emissions.
Staffing	0.10 FTE Facilities and Fleet Management Supervisor
Consultant	Contractor will conduct installation.
Budget	\$460,000 (Estimated Installation Cost) Staff anticipate \$200,000 in grants are available for installation of LED lights reducing installation costs to \$260,000. Annual energy costs for streetlights is currently about \$243,974 and with LED lights that will reduce to about \$175,137.

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Public Works Operations Center Solar

Action:	Install a solar panel system at the Public Works Operations Center.
Source:	CAP: CAE: Goal 4, Eliminate GHG Emissions from Buildings through Energy Efficiency and Electrification.
Description:	The Public Works Operations Facility will be constructed “solar ready” meaning that the site will be designed to accommodate solar, conduit will be available for wiring and the electrical room will have capacity for upgrading. This action provides for the installation of solar after the site is constructed sometime in 2024-2025.
Implementation Considerations:	PWOC will be “solar ready”
Key City Department(s):	Environmental Services: Project Management Operations: Facilities Management
Regional Partnerships:	NA
Deliverable:	Solar system installation
Impact Potential:	High impact for municipal operations. Low impact for overall community emissions.
Staffing	0.10 FTE Facilities and Fleet Management Supervisor
Consultant	System will be installed by a contractor.
Budget	\$240,000 (Installation Cost Estimate) Staff anticipate that grants may become available for solar infrastructure installation.

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APPENDICES

Appendix A – CAP Action List

The following tables show all the actions provided by the CAP and additional actions identified by City Council and staff. Most items listed were presented to the public during the CAP Community Workshop and votes are tallied signifying public support. Items that were not presented are listed as “NA” under the Community Votes column. The diamonds indicate actions that staff are currently pursuing (included in the above In Progress Items chart). The check marks indicate items included in the recommended actions to start/continue.

Each action has a listed cost/impact ratio providing an estimated comparison of the outcome of the action versus the costs put into it. Costs and impacts are estimated on a “high”, “medium”, and “low” scale to determine the ratio.

+ = Higher impact than cost

o = Neutral

- = Higher cost than impact

Table 1: CAP action list for sector. Community input (if applicable) from September 2023 workshop. Cost/Impact considers cost relative to GHG emissions reduction potential or resiliency potential.

Sector	Action	Community Votes	Cost/Impact Ratio
Buildings & Energy	Advocate for increased electricity grid reliability	13	+
	Convert streetlights to LED ✓	16	o
	Energy audits for residents and businesses	10	o
	Heat pump incentives, rebates	29	o
	Ban gas-powered tools + replacement incentive	15	o
	Local and regional review of building/energy codes and lobbying efforts to promote CAP goals. ♦♦	NA	+
	PSE Green Direct	NA	+
	PSE Green Power – Community ✓*	21	+
	Solar incentives	NA	o
	Solarize Kenmore ♦♦✓	12	+
	Support development of community solar projects ♦♦	24	o

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Table 2: CAP action list for sector. Community input (if applicable) from September 2023 workshop. Cost/Impact considers cost relative to GHG emissions reduction potential or resiliency potential.

Sector	Action	Community Votes	Cost/Impact Ratio
Transportation & Land Use	Bike infrastructure – parking and charging	22	o
	Encourage transition to electric vehicles ♦♦	16	+
	Evaluate the development code related to landslide and flooding hazards	NA	o
	Incorporate environmental justice criteria into land use decisions ♦♦	15	+
	Micromobility/alternative transportation options	11	+
	Provide dense, mixed-use, transit-oriented developments and affordable housing ♦♦	19	o
	Trolley on wheels NS circularity	14	o
	EV infrastructure plan and charging stations ♦♦✓	12	+

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Table 3: CAP action list for sector. Community input (if applicable) from September 2023 workshop. Cost/Impact considers cost relative to GHG emissions reduction potential or resiliency potential.

Sector	Action	Community Votes	Cost/Impact Ratio
Consumption & Materials Management	Apply for Re+ grant to support business implementation	NA	+
	City facility composting ♦♦	NA	o
	Conduct city-wide waste audit and adopt waste prevention and diversion goals	11	o
	Conduct education, outreach, and technical assistance to promote recycling and composting ♦♦	21	o
	Green purchasing policy, incl. contracts and goods ♦♦	11	+
	Partner with Metropolitan Solid Waste Management Advisory Committee on policy, projects, and programs	NA	+
	Require fast food/take out compostables in restaurants ♦♦	20	+
	Require vendors at city events to compost/recycle ♦♦	14	o
	Requiring composting + recycling in res + commercial ♦♦	23	+
	Strengthen construction and demolition (C&D) diversion requirements ♦♦	16	+
	Support sustainable local food economy	29	o

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Table 4: CAP action list for sector. Community input (if applicable) from September 2023 workshop. Cost/Impact considers cost relative to GHG emissions reduction potential or resiliency potential.

Sector	Action	Community Votes	Cost/Impact Ratio
Municipal Operations	Backup power for critical facilities	NA	+
	Electrify City fleet ✓	17	-
	Embed climate action considerations in City planning efforts ♦♦	NA	+
	LID requirements in new/remodeled construction projects	14	o
	Prioritize sequestration opportunities on public lands	13	o
	PSE Green Power - Municipal ✓	21	+
	Require new City buildings to be energy efficient (adopt efficiency standards)	14	o
	Retrofit + solarize city buildings ♦♦✓	15	-
	Transition to native or drought-tolerant plants on City properties	31	+

Table 5: CAP action list for sector. Community input (if applicable) from September 2023 workshop. Cost/Impact considers cost relative to GHG emissions reduction potential or resiliency potential.

Sector	Action	Community Votes	Cost/Impact Ratio
Community Resiliency & Wellbeing	Advisory committee 00✓	NA	o
	Conduct a study to expand on WSDOT's vulnerability assessment	8	-
	Create climate emergency resilience hubs	17	o
	Green Jobs Strategy ✓	34	o
	Mitigate impacts of green gentrification	NA	+
	Education & Outreach Program ✓	19	+
	Leverage strategic partnerships (Eastside Climate Challenge, EERC, UW Bothell, PERK, Citizens' Climate Lobby, People for Climate Change, etc.)	13	+
	Provide free or discounted air filter box fans	14	o
	Strengthen transportation resiliency 00	NA	o
	Study and evaluate air quality and extreme heat interactions	9	-
	Climate Action Tracking Platform/Coordination Effort (e.g., BrightAction)	NA	o

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Table 6: CAP action list for sector. Community input (if applicable) from September 2023 workshop. Cost/Impact considers cost relative to GHG emissions reduction potential or resiliency potential.

Sector	Action	Community Votes	Cost/Impact Ratio
Natural Systems & Water	City-wide stream + stream buffer delineation	NA	o
	City-wide wetland + buffer delineation	NA	o
	Conduct outreach and education on water conservation strategies	NA	+
	Design and install flood prevention projects	11	o
	Develop an urban landscape strategy or framework	14	o
	Habitat restoration + long term stewardship 00 ✓	29	o
	Incentivize infiltration & LID on private property	20	o
	Natural Yard Care, Native plant, and LID workshops	22	+
	Protect, preserve, and restore local waterways 00 ✓	NA	o
	Stream Culvert replacements 00		o
	Develop an Urban Forestry Management Plan 00 ✓	19	o
	Increase tree canopy 00 ✓	33	o

Appendix B – Community Workshop Actions Added by Public

The following actions were provided by participants at the CAP Community Workshop and the Online Open House in September 2023. The “Stickers” column indicates support for these items from other attendees.

Comment	Category	Stickers
Assistance for electrical conversions needed to decarbonize local homes. These transitions are very complex, especially for older homes.	Buildings & Energy	
Call out PSE for being a fossil fuel corp. with fake green-energy programs (op-ed from City Council).	Buildings & Energy	18
Don't build an indoor aquatic center - huge gas consumer	Buildings & Energy	
Implement a commercial building emission standard (similar to Seattle's upcoming standard)	Buildings & Energy	6
Accelerate coding policy to require more efficient buildings, EV charging ready and LEED Gold+	Buildings & Energy	
No particle board, black mold	Buildings & Energy	
Require low carbon steel and cement in new buildings	Buildings & Energy	
Smart grid/load optimization to level-load energy needs	Buildings & Energy	
No cost permit for solar panels	Buildings & Energy	
Form a public utility district with surrounding communities to replace PSE. No coal or natural gas.	Buildings & Energy	
Educate adults with seminars, workshops and connections to companies who can provide green services.	Community Resilience	
Incentives for local tourism to show region natural beauty in a safe manner to travel companies (ecotourism)	Community Resilience	1
This would be partnering with NEMCo	Community Resilience	
End asphalt plant in Kenmore. Test all our waters for PCB and dioxins. Dirt too.	Community Resilience	2
Focus education on misinformation and disinformation	Community Resilience	
Locate appropriate places to install interactive water features to help people stay cool	Community Resilience	2

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Pea patch	Community Resilience	
Plastic bag ban means no plastic bags - "reusable" bags (plastic) should be included in the ban.	Consumption & Materials Management	2
Have a "waste monitor" at city events to ensure all waste ends up in the receptable intended for it	Consumption & Materials Management	
Compost at schools	Consumption & Materials Management	2
No need to ban gas lawn mowers. Public is already moving to electric mowers.	Consumption & Materials Management	1
I think we should ban small gas-powered equipment (leaf blowers, lawn mowers, etc.)	Consumption & Materials Management	
Pea patch/community gardens	Consumption & Materials Management	1
Ban single use plastics of all kinds (bags, straws, spoons, etc.)	Consumption & Materials Management	
Replace fireworks with an alternative (e.g., drone)	Consumption & Materials Management	
Acquire a kei truck > other large work trucks	Municipal Operations	1
Increase climate action budget (do more of these great ideas)	Municipal Operations	5
Upgrade city hall and all city buildings from current LEAD [sic] rating to zero emissions and include composting toilets.	Municipal Operations	1
Green roofs on city buildings with native plants	Municipal Operations	3
No more leaded aviation gas burned over Kenmore	Municipal Operations	
Restore Lake Washington Shoreline - No New Docks	Natural Systems & Water	
Rain Barrel Collection - Homes recycle commercial building rainwater	Natural Systems & Water	

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No more parking lots, especially in our natural areas. No new parking lot at Twin Springs.	Natural Systems & Water	
Annual native plant giveaway	Natural Systems & Water	
Rainwater collection encouraged in gardens to mitigate runoff into streams/Puget Sound	Natural Systems & Water	2
Swamp Creek invasive knotweed removal	Natural Systems & Water	1
Improve salmon spawning habitat (completely restore, stop buffer encroachment)	Natural Systems & Water	9
Incentivize/support lawns, pollinator gardens	Natural Systems & Water	
Plant shrubs, not trees along roadways	Natural Systems & Water	
Prohibit dogs/humans swimming in creeks during spawning season	Natural Systems & Water	1
Promote nonnative pollinator plants in urban environments. Native plants don't perform well in heat	Natural Systems & Water	
City should plan and identify locations for rain gardens and conifer trees with public ROW	Natural Systems & Water	
City should identify heavily forested neighborhoods as "urban forests." Educate and help property owners protect this resource. Encourage lawn removal and planting of nonnative habitat plants	Natural Systems & Water	
City should partner with KC parks to create a continuous tree canopy with native shrubs along BG trail	Natural Systems & Water	
City should pay property owners to permanently protect significant and exceptional trees on private property	Natural Systems & Water	
City should update city development standards for landscaping	Natural Systems & Water	
Tolt Pipeline trail to 185th station (trip 10mi to 3mi)	Transportation & Land Use	
On call electric fleet to provide rides to and from transit stops (as Bellevue's model)	Transportation & Land Use	3
Build boardwalks instead of removing trees with concrete busting roots	Transportation & Land Use	
Sound Transit link lite [sic] rail station here	Transportation & Land Use	3
Code for business/commercial bike parking and safety	Transportation & Land Use	2

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Not electric vehicles but non-petroleum vehicles	Transportation & Land Use	
More local work (i.e., offices, retail) to reduce need to travel out of Kenmore to work	Transportation & Land Use	1
Expand bicycle infrastructure north/south with access to B-G trail	Transportation & Land Use	3
Mindful on which company to partner with on microtransport	Transportation & Land Use	
Move away from NA zoning & favor European like Netherlands	Transportation & Land Use	
City should develop urban design plan for the TOD and downtown that emphasizes LID	Transportation & Land Use	

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