

# 2025 Comprehensive Plan Update Climate Change Element Resilience Sub-Element Review

*Balancing Nature and Community:  
Tumwater's Path to Sustainable Growth*

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General Government Committee March 18, 2025



# Intent

Discuss the draft Resilience Sub-Element of the new Climate Change Element of the Tumwater Comprehensive Plan



# New State Climate Element Requirements

1. A **climate mitigation sub-element** to address actions to reduce overall greenhouse gas emissions and vehicle miles traveled
2. A **climate resilience sub-element** to address climate adaptation
3. Consideration of **environmental justice** to avoid worsening environmental health disparities



# Community Engagement to Date

- Continued participation from the Climate Policy Advisory Team (CPAT)
- Held in-person open house at ASHHO on August 14, 2024
  - About 60 participants
- Opened online open house from August 15 – October 31, 2024
- Feedback provided by the Thurston Climate Mitigation Collaborative's Community Advisory Workgroup
- Meeting with Thurston Climate Action Team's Community Organizer
- Direct emails with Community Based Organizations, Non-Profits, interested community members, and Affinity Groups
- Tabled at the Thurston County Food Bank and Tumwater Timberland Library
- Presented to the South Sound Asian and Pacific Islanders Coalition twice
- The draft Climate Element was open for Public Comment online through January 31.
- Social media posts
- Community Assembly hosted by Thurston Climate Action Team



*We're focused here this morning.*

### Mitigation



Expand Multimodal Transportation



Electrification & Energy Efficiency



Reduce Vehicle Miles Traveled (VMT)



Protect Natural Carbon Sinks

### Adaptation



Renewable Energy & Onsite Storage



Protect & Expand Urban Canopy



Weatherize & Harden Homes & Infrastructure



Develop Densely and in Low Risk Areas



Improve & Restore Habitat Connectivity



Expand Access to Local & Culturally Significant Foods

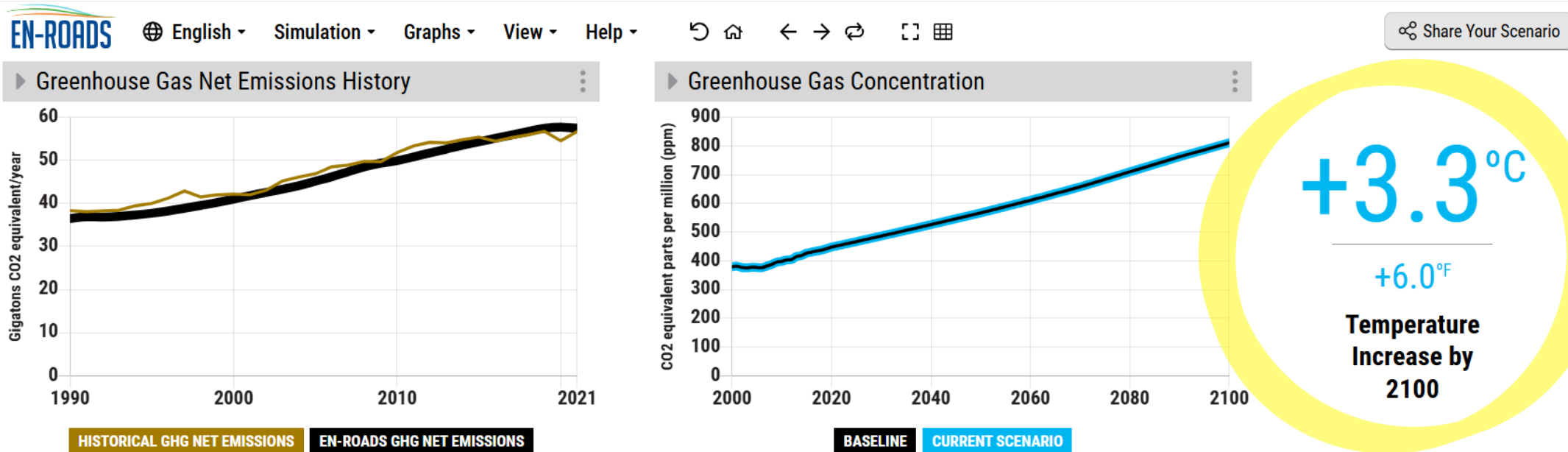


# Key Terms

- **Adaptation:** The process of adjusting to new climate conditions in order to reduce risks to valued assets
- **Climate Resilience:** The ongoing process of anticipating, preparing for, and adapting to changes in climate and minimizing negative impacts to our natural systems, infrastructure, and communities
- **Passive Survivability:** Building to ensure that residences will remain at a safe temperature for occupants if the power goes out and that they will overall require less power to keep at a regulated temperature. Can also entail building single-family residences with one room designed to maintain comfortable temperatures or multifamily residences with a designated common area designed to serve this same function. Building for passive survivability also reduces demand on local energy infrastructure.



# Tumwater Forecast to be in “High Emission” Scenario



WHEREAS, the United Nations Framework Convention on Climate Change’s “Paris Agreement,” which the United States and other nations brokered in late 2015, includes the 2°C target; and

WHEREAS, the City of Tumwater is greatly concerned about the economic, public health, and environmental impacts of climate change on all communities in the Thurston County region; and



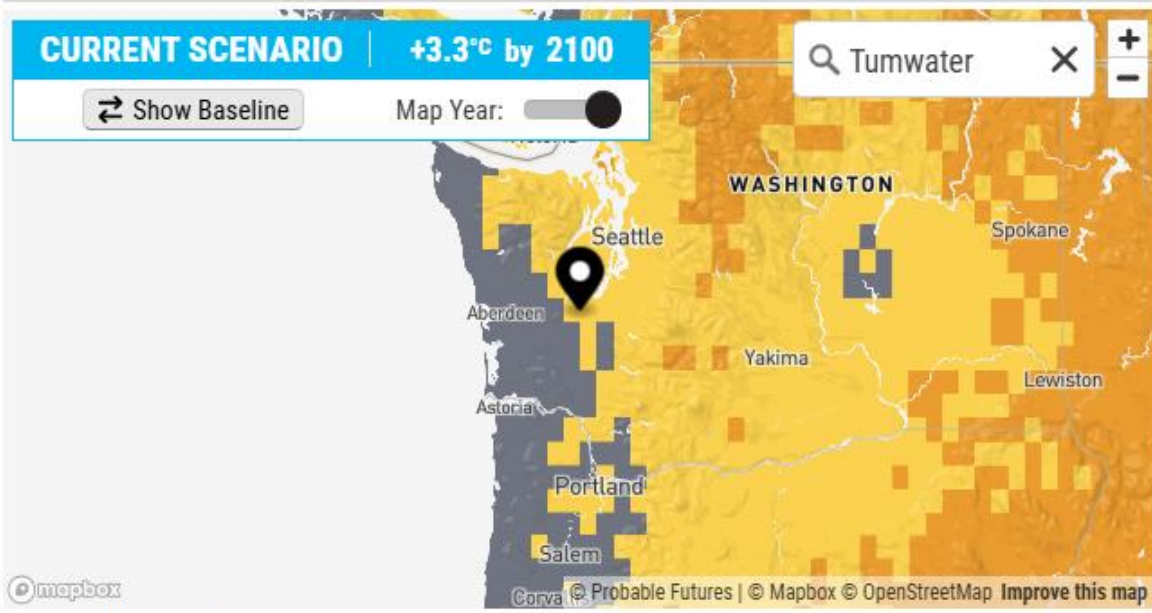
# Climate Hazards

Climate Projection	By 2100	
	Low emissions scenario	High emissions scenario
Average summer temperature in June-August	↑ 5.4°F increase	↑ 9.5°F increase
Summer maximum temperature	↑ 4.7	↑ 9.6
Number of hot days (humidex over 90 degrees)	↑ 29.1 days	↑ 58.2 days
Total annual precipitation	<i>no data</i>	↑ 5.1% increase
Intensity of extreme rainfall events (change in the magnitude of 2-year storms)	<i>no data</i>	↑ 14% increase
Percent change in the magnitude of 25-year storm	<i>no data</i>	↑ 25% increase
Peak streamflow	↑ 15% increase	↑ 14% increase
Return interval of 25-year peak streamflow	↓ 9.6 years	↓ 13.8 years
Likely sea level rise	↑ 2.17 ft. increase	↑ 2.67 ft. increase
Change in high fire danger days	↑ 7 days ( <i>by 2040</i> )	↑ 10 days ( <i>by 2040</i> )
Precipitation drought (likelihood of a year with summer precipitation below 75% of historical normal)	<i>no data</i>	↑ 38% increase
Total late summer precipitation July-September	<i>no data</i>	↓ 22% decrease
Percent change in April 1 snowpack	<i>no data</i>	↓ 100% decrease





### Wildfire Danger Days from Warming—Map



**Change in wildfire danger days per year**

-18 to -7   -6 to +6   +7 to +13   +14 to +29   +30 to +59   +60 to +155



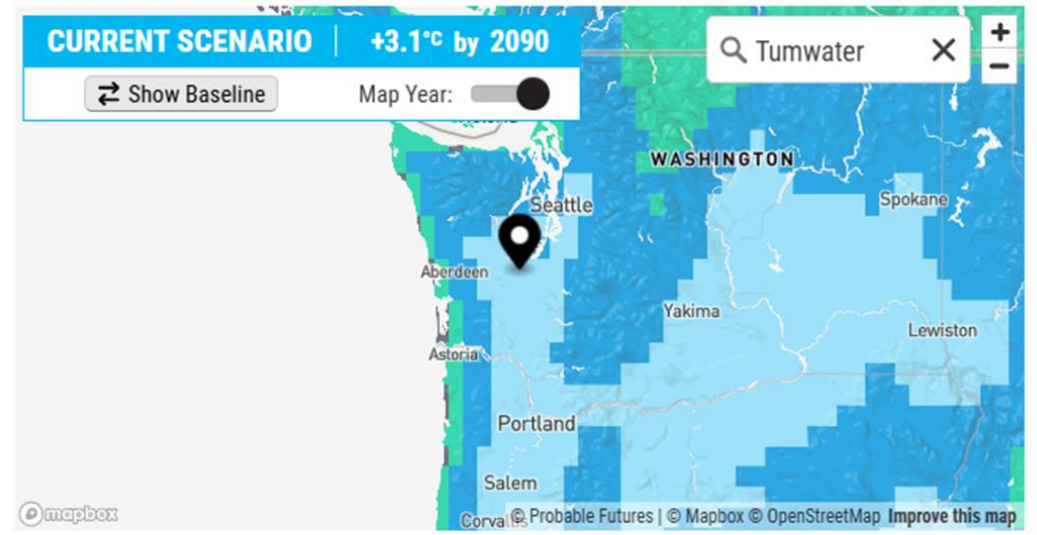
### Likelihood of Prolonged Drought—Map



**Annual likelihood of 12+ month drought**

0 - 10%   11 - 33%   34 - 50%   51 - 67%   68 - 90%   91 - 100%

### Extreme Heat Days—Map



**Days per year above 32°C (90°F)**

0   1 - 7   8 - 30   31 - 90   91 - 180   181+

# Goal CL-9

- Do you have any general or specific comments that you'd like to share under this Goal?
- Are there shifts in action timelines that you'd like to suggest under this Goal?
- Do you foresee any unintended consequences or burdens associated with policies and/or actions under this Goal?
- Do you anticipate anyone in the Tumwater community being left out by any policy and/or action under this Goal? If so, how could we fix that?
- Using the Icons to see which actions are *publicly identified priorities*, which would/could impact you or the things you care about most?
  - What do you expect that impact might be?
- Do you have any additional thoughts you'd like to share related to this goal and its associated policies and actions?



# Goal CL-10

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# Goal CL-11

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# Goal CL-12

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# Goal CL-14

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# Goal CL-15

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# Goal CL-16

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# Comments and Contact Information

Written comments are welcome at any time during the periodic update process and staff will address and publish all formal comments

City of Tumwater Contact:

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The periodic update email is [compplan@ci.Tumwater.wa.us](mailto:compplan@ci.Tumwater.wa.us)

All documents related to the periodic update will be located on the [City's periodic upgrade webpage](#)





# Questions?

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