



City of Sebastopol Climate Action Framework

Community Meeting
February 2nd, 2022 6 - 7:30pm



Agenda

- 6:00 pm – 6:05 pm** **Welcome!**
- 6:05 pm – 6:30 pm** **Introducing the Climate Action Framework**
- 6:30 pm – 7:00 pm** **Share Your Climate Concerns and Priorities**
- 7:00 pm – 7:30 pm** **Next Steps and Closeout**

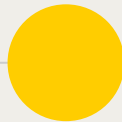


Land acknowledgement





Introducing the Climate Action Framework





Sebastopol values its community and natural environment

Sebastopol**READY**
neighbors helping neighbors



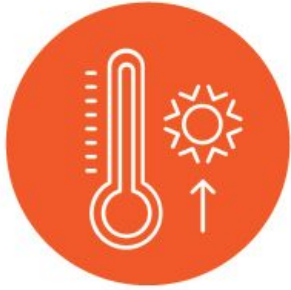
 **Sonoma
Clean Power**

BAYREN Water Upgrades **SAVE**



Photo credits: Josh Edelson, AFP Via Getty Images and Beth Schlanker, The Press Democrat

Climate Impacts in Sebastopol



Hotter temperatures



Longer and more frequent droughts



Greater frequency and intensity of wildfires



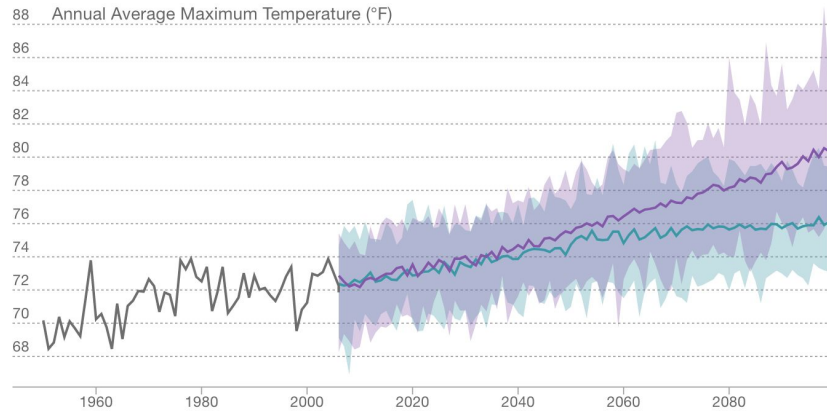
Bigger and more frequent floods



Climate predictions for Sebastopol

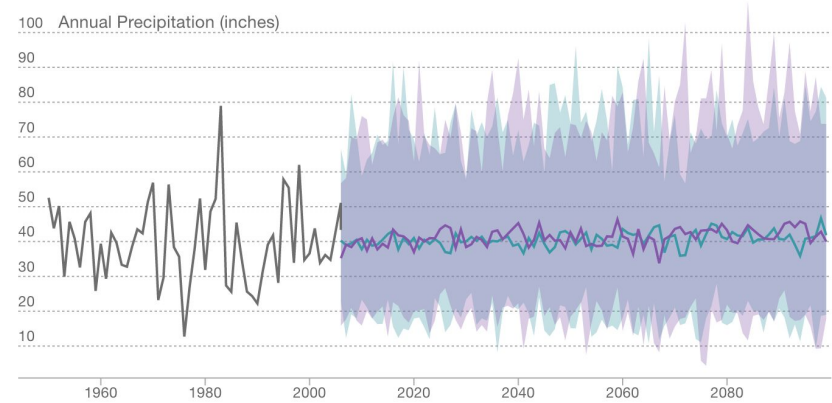
Temperature

OBSERVED MEDIUM EMISSIONS (RCP 4.5) HIGH EMISSIONS (RCP 8.5)



Precipitation

OBSERVED MEDIUM EMISSIONS (RCP 4.5) HIGH EMISSIONS (RCP 8.5)

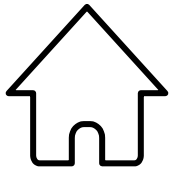




Emissions in Sebastopol

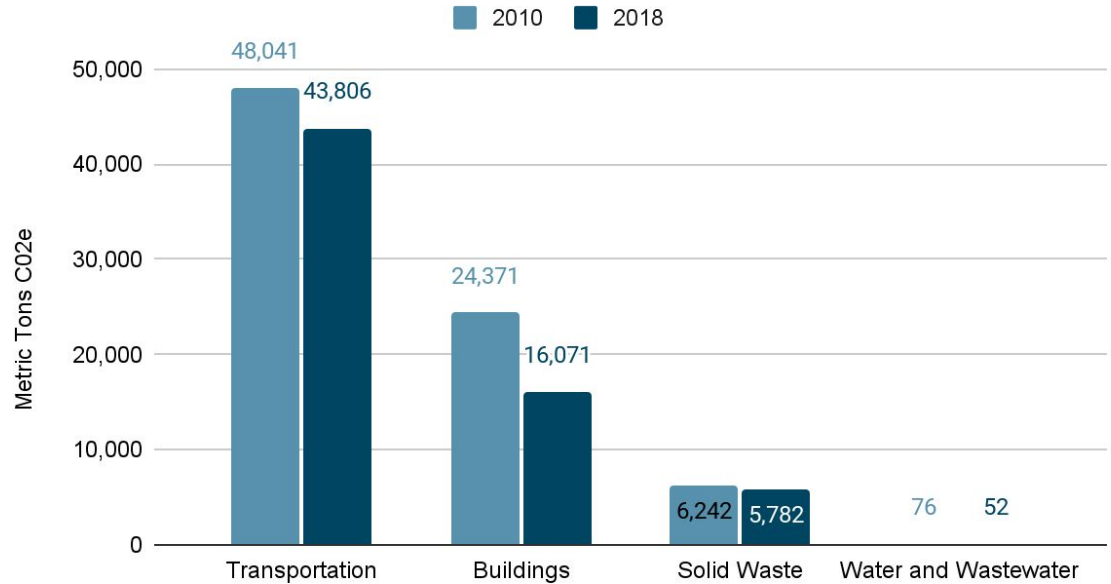


#1 Transportation



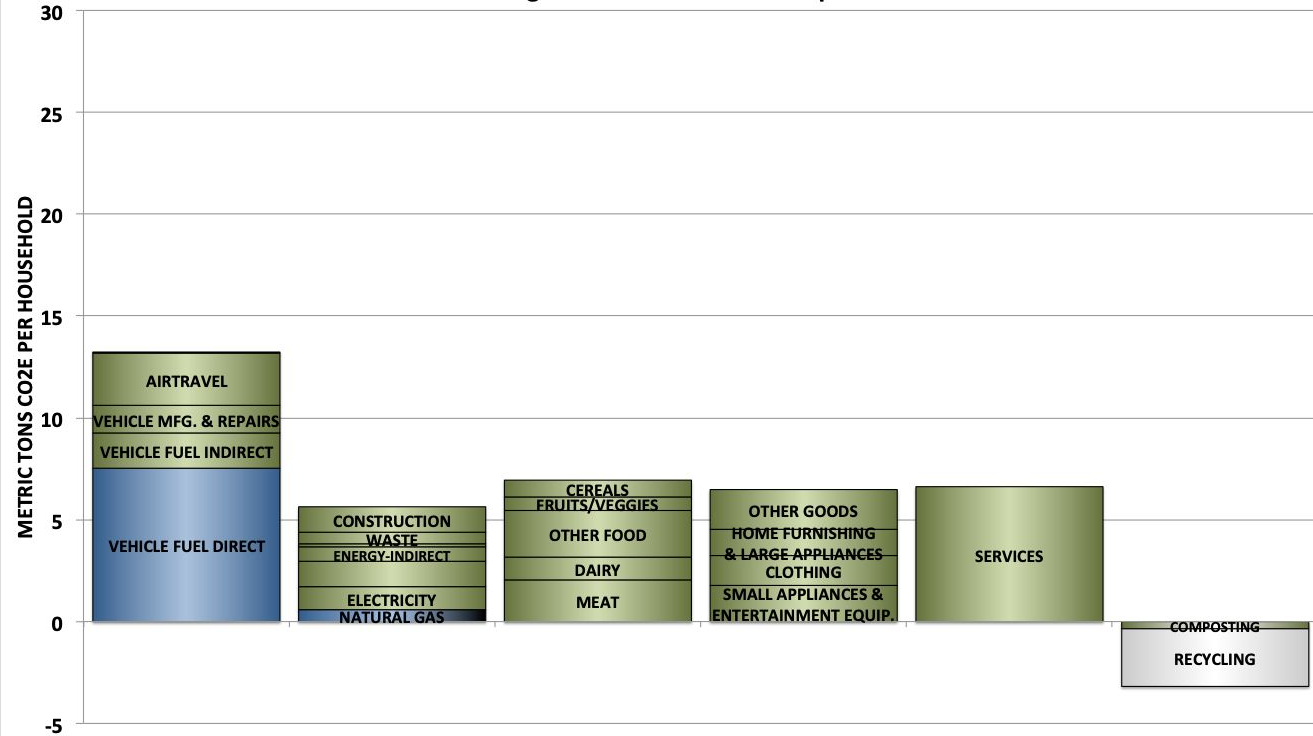
#2 Buildings

Sebastopol Greenhouse Gas Emissions





Average Household Carbon Footprint



| HOUSEHOLD CONSUMPTION | HOUSEHOLD CHARACTERISTICS | HOMES | NEIGHBORHOODS |
|-------------------------------|-------------------------------|----------------------|---------------------------|
| 17,939 Vehicle miles traveled | \$ 89,843 Income before taxes | 64% owner occupied | 1,469 Persons per sq.mile |
| 5,738 Air travel miles | 2.2 Persons per household | 83% single-dettached | 4,796 Heating degree days |
| 7,932 kWh electricity | 2.0 Vehicles per household | 53% heat natural gas | 177 Cooling degree days |
| 107 Therms natural gas | 16% with graduate degree | 1967 Avg. year built | |
| 123 Gallons of heating fuel | 92% white householders | 1,518 Square feet | Sonoma Clean Power |
| 0.98 Short tons of waste | | | 142 gCO2/kWh |
| 0.90 Short tons of recycling | | | |



December 3, 2019 Climate Emergency Resolution

Resolution Number 6274-2019

CITY OF SEBASTOPOL CITY COUNCIL RESOLUTION DECLARING A CLIMATE EMERGENCY AND COMMITTING TO ON-GOING ACTIONS TO RESTORE A SAFE CLIMATE

WHEREAS, all the nations of the world have signed the 2015 Paris Agreement which has a stated objective of "...keeping a global temperature rise this century well below 2° Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5° Celsius;" and

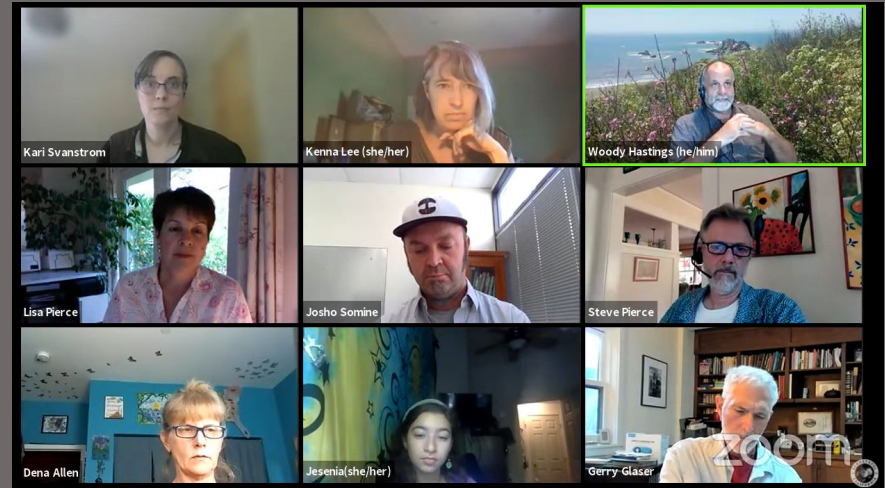
WHEREAS, in October 2018 the Intergovernmental Panel on Climate Change (IPCC), the largest collaborative, consensus-based effort among the world's scientific community, released a Special Report on Global Warming of 1.5°C2, stating that "Human activities are estimated to have [already] caused approximately 1.0°C of global warming above pre-industrial levels;" and

WHEREAS an increase in global average surface temperatures results in numerous secondary effects, including: rapidly rising sea levels, decreased snowpack, accelerating melting of ice sheets in Greenland and Antarctica, accelerated melting of Arctic permafrost, increasing incidence and intensity of extreme weather events such as heat waves, droughts, hurricanes, etc., increasing incidence and intensity of wildfires, spread of diseases, and more; and

WHEREAS, the IPCC's Special Report on Global Warming of 1.5°C states that the nations of the world must limit global temperature rise to 1.5°C above pre-industrial averages in order to maintain environmental conditions on earth that are compatible with life as it has evolved; and

WHEREAS, the IPCC's Special Report on Global Warming of 1.5°C states that in order to have a 2-in 3 chance of limiting global warming to 1.5° C, our remaining 'carbon budget' is equal to 10 years of current greenhouse gas emissions; and

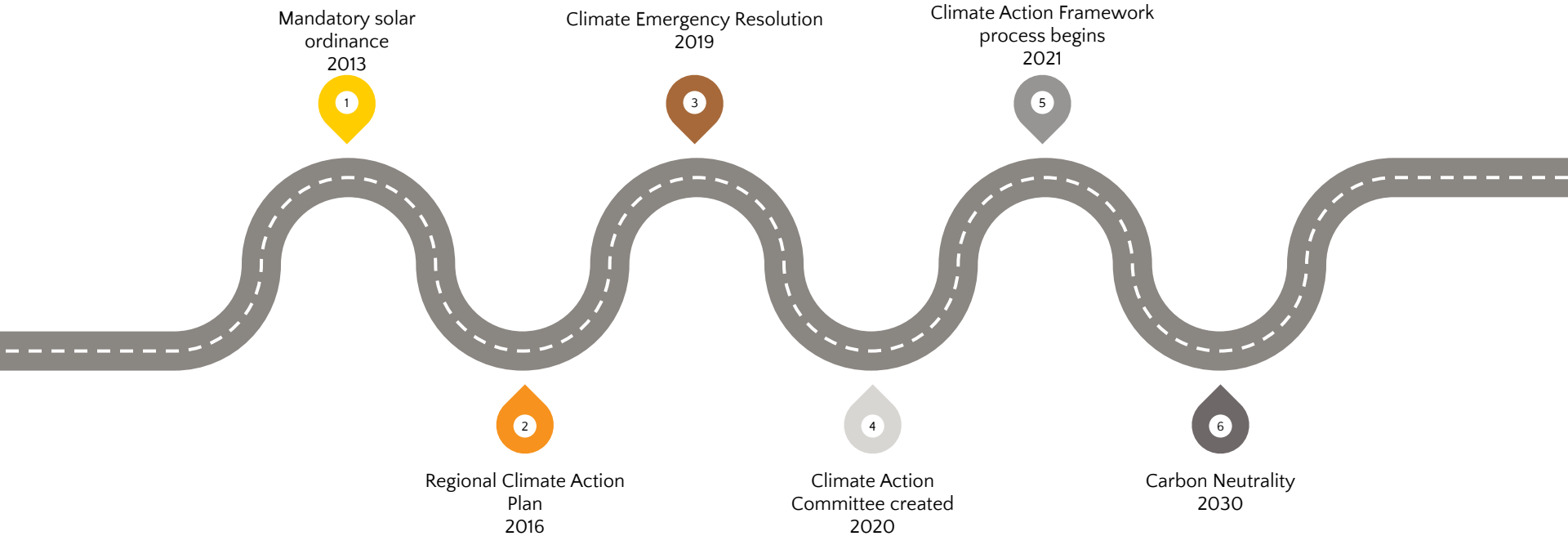
January 7, 2020 Climate Action Committee created



- 13 members from various backgrounds
- Meets 2nd & 4th Wednesdays on Zoom

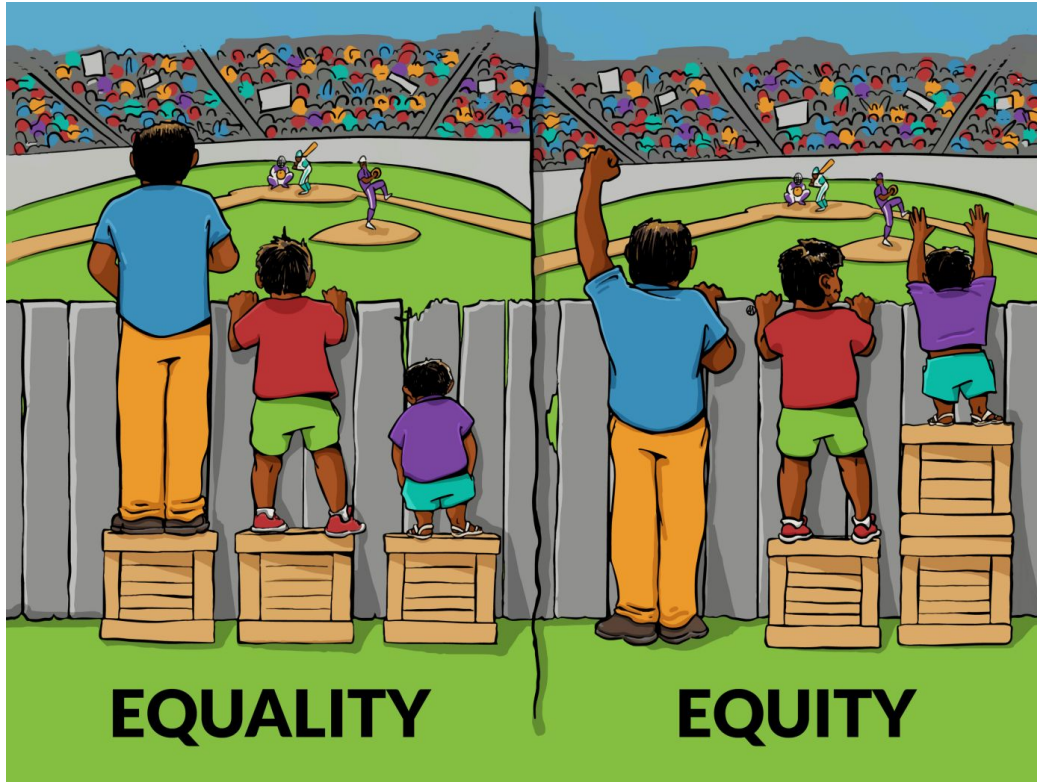


The Climate Action Framework will be a Roadmap





Centering equity



MITIGATION

actions to reduce emissions
that cause climate change



sustainable
transportation



energy efficiency



renewable energy

education



local food systems

water conservation



complete communities

new energy systems



urban
forests

ADAPTATION

actions to manage the risks
of climate change impacts

flood protection



disaster
management &
business continuity



infrastructure
upgrades



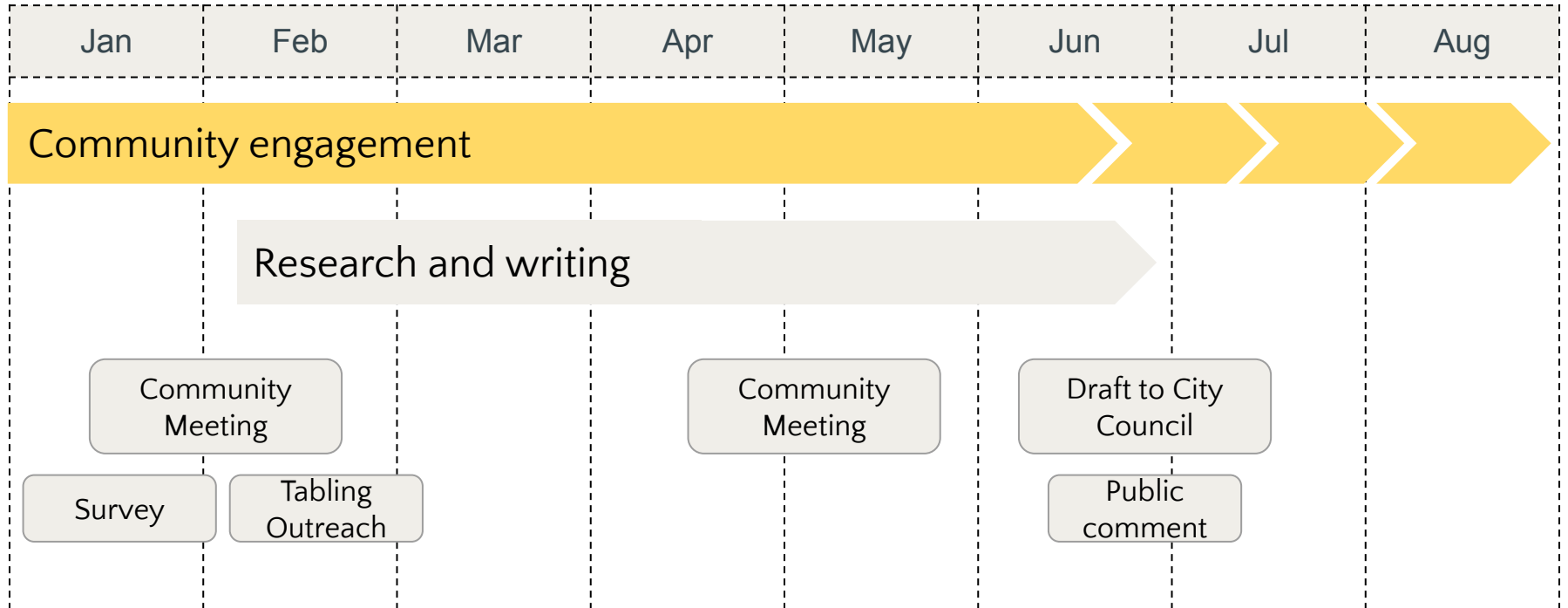


Sonoma Climate Mobilization Strategy

| Initiative | Sector | Strategy |
|--------------------------------------|-----------------|---|
| Decarbonization | Building Energy | <ol style="list-style-type: none"> 1. All-Electric Buildings Campaign 2. Carbon-Free Electricity |
| | Transportation | <ol style="list-style-type: none"> 3. Drive Less Sonoma County Campaign 4. EV Access for All Partnership 5. Sonoma County Vehicle Miles Traveled Mitigation Bank |
| | Solid Waste | <ol style="list-style-type: none"> 6. Zero Waste by 2030 |
| Sequestration and Ecosystem Services | | <ol style="list-style-type: none"> 7. Protect Existing Carbon Stocks 8. Increase Carbon Stocks 9. Scale Up Infrastructure for Sequestration |
| Resilience and Adaptation | | <ol style="list-style-type: none"> 10. Energy Grid for the Future 11. Climate Resilient Sonoma County |
| Equity and Community Engagement | | <ol style="list-style-type: none"> 12. Engage, Educate, and Empower for Equitable Climate Action 13. Equity and Climate in All Policies |



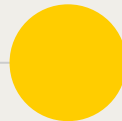
Timeline





Share Your Climate Concerns and Priorities

Any **questions?**



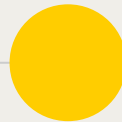


What is your vision for a carbon neutral, resilient Sebastopol?

- What climate change impacts are you facing or most concerned about?
- How do you think we should prepare for these climate change impacts?
- What do you think the City and/or residents should do to reduce our emissions?
- How can we make sure that all Sebastopol community members are included in and benefit from these efforts?



Next Steps and Closeout





Opportunities to get more involved



Share project information and take the survey



Sign up to receive project updates and event information



Host a presentation



Attend Climate Action Committee meetings



Actions you can take now

- Drive less
- Switch to an electric vehicle
- Consider heat pump technology for your next water heater or HVAC system
- Choose electric appliances
- Upgrade to EverGreen
- Rethink your waste: compost, reuse, reduce



Resources

- ◉ Calculate your carbon footprint:
<https://coolclimate.berkeley.edu/calculator>
- ◉ Take action: <https://regeneration.org/>
- ◉ Electrify your home: <https://www.switchison.org/>
- ◉ Switch to EverGreen:
<https://sonomacleanpower.org/programs/evergreen>



Thank you!

Any **questions?**



ClimateActionCommittee@cityofsebastopol.org



<https://bit.ly/ClimateActionFramework>



<https://bit.ly/Seb-ClimateSurvey>