



Climate Action Plan/Climate Adaptation Strategy Update

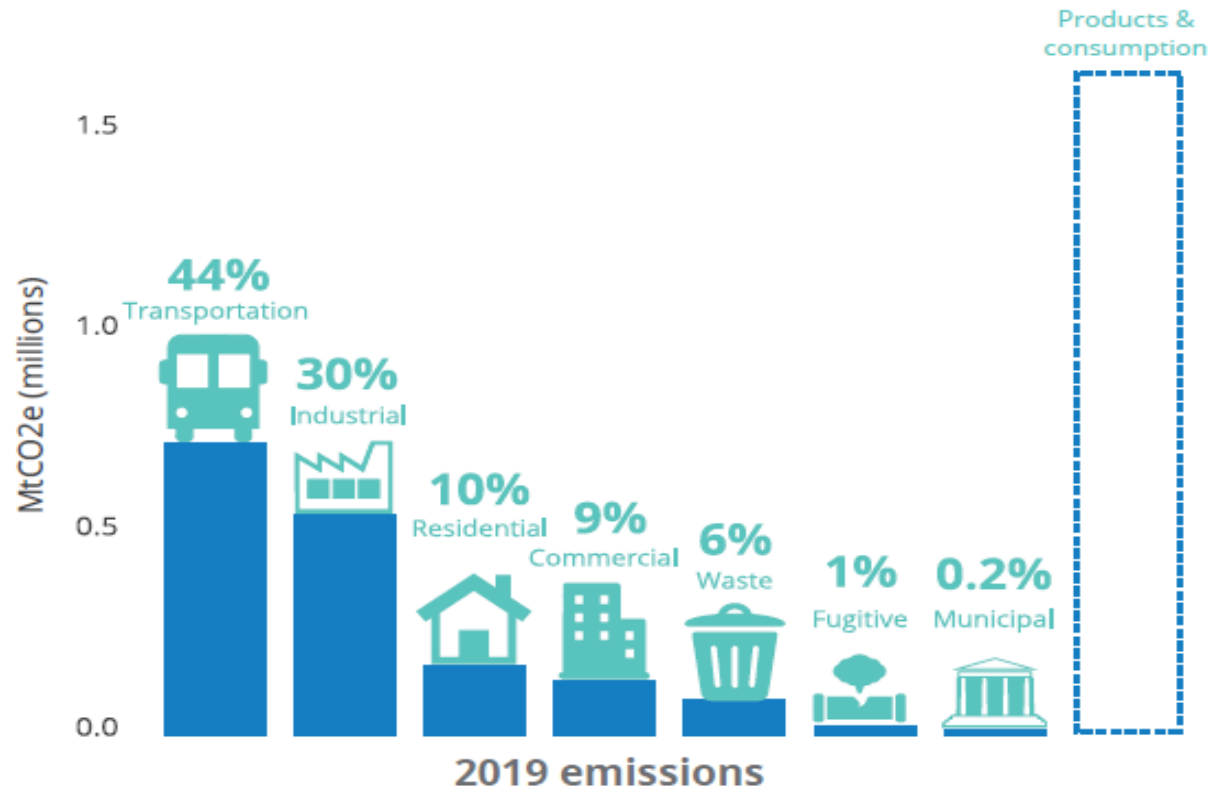
City of Tacoma | Environmental Services
City Council Study Session
November 9, 2021
ITEM #1

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BACKGROUND



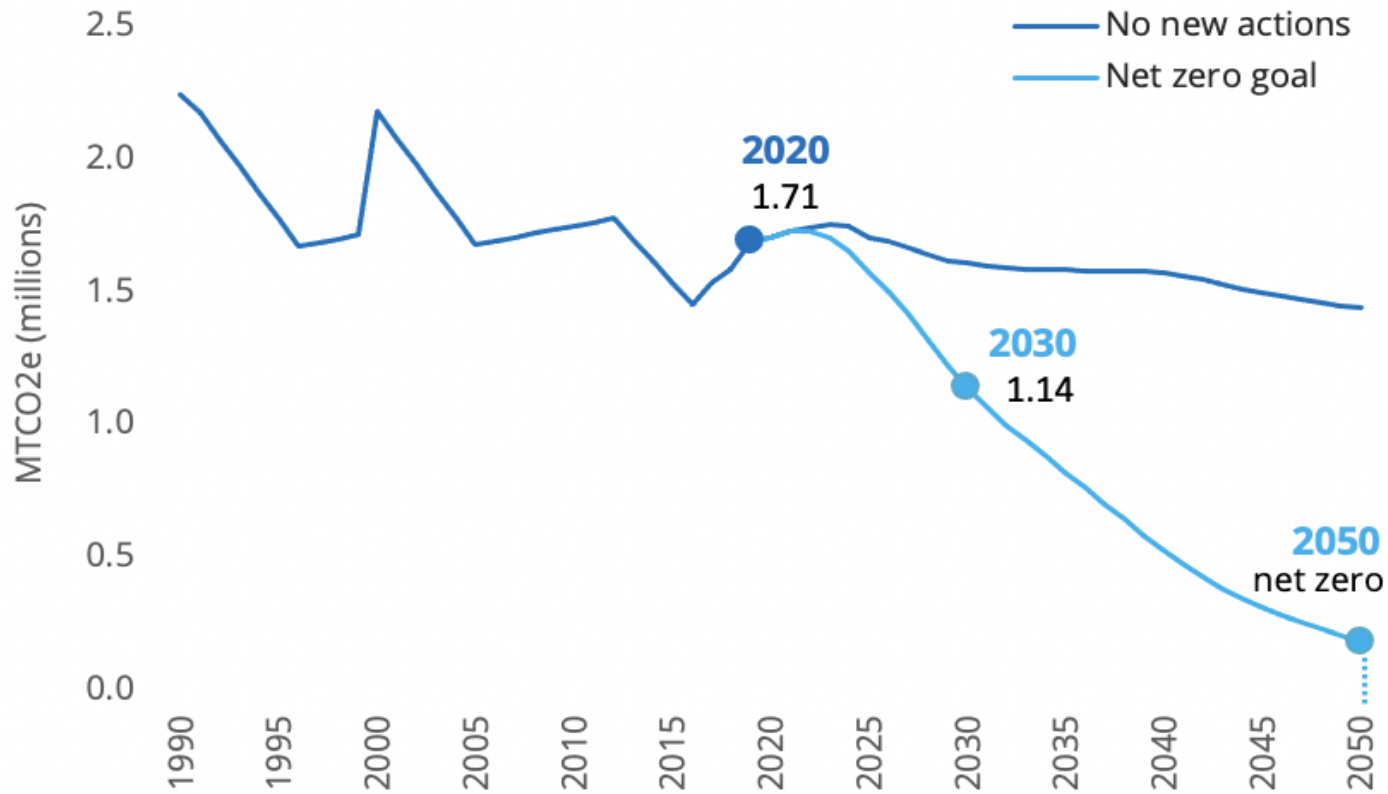
Tacoma's Current Emissions



CLIMATE EMERGENCY



Choosing a new path



“Humanity has long since run down the clock on climate change. It’s one minute to midnight on that Doomsday clock and we need to act now.”
- Prime Minister Boris Johnson, Host COP26

WHAT'S NEW & OLD



- Community Plan

- Why Tacoma needs a climate action plan
- The Opportunity
- The Work We Need to Do –
 - 2030 Better Tacoma stories & actions
- Holding Ourselves Accountable
- What You Can Do for Climate Action

- Sections

- Energy and Emissions Modelling
- *Implementation Actions by 2024*
- *2030 Indicator Targets*
- Financial Analysis
- Funding Options
- Plan Contributors
- Community Engagement Summary
- Environmental Justice Leaders Comments
- Municipal Carbon Neutrality Strategy
- Climate Adaptation Strategy

COMMUNITY INPUT

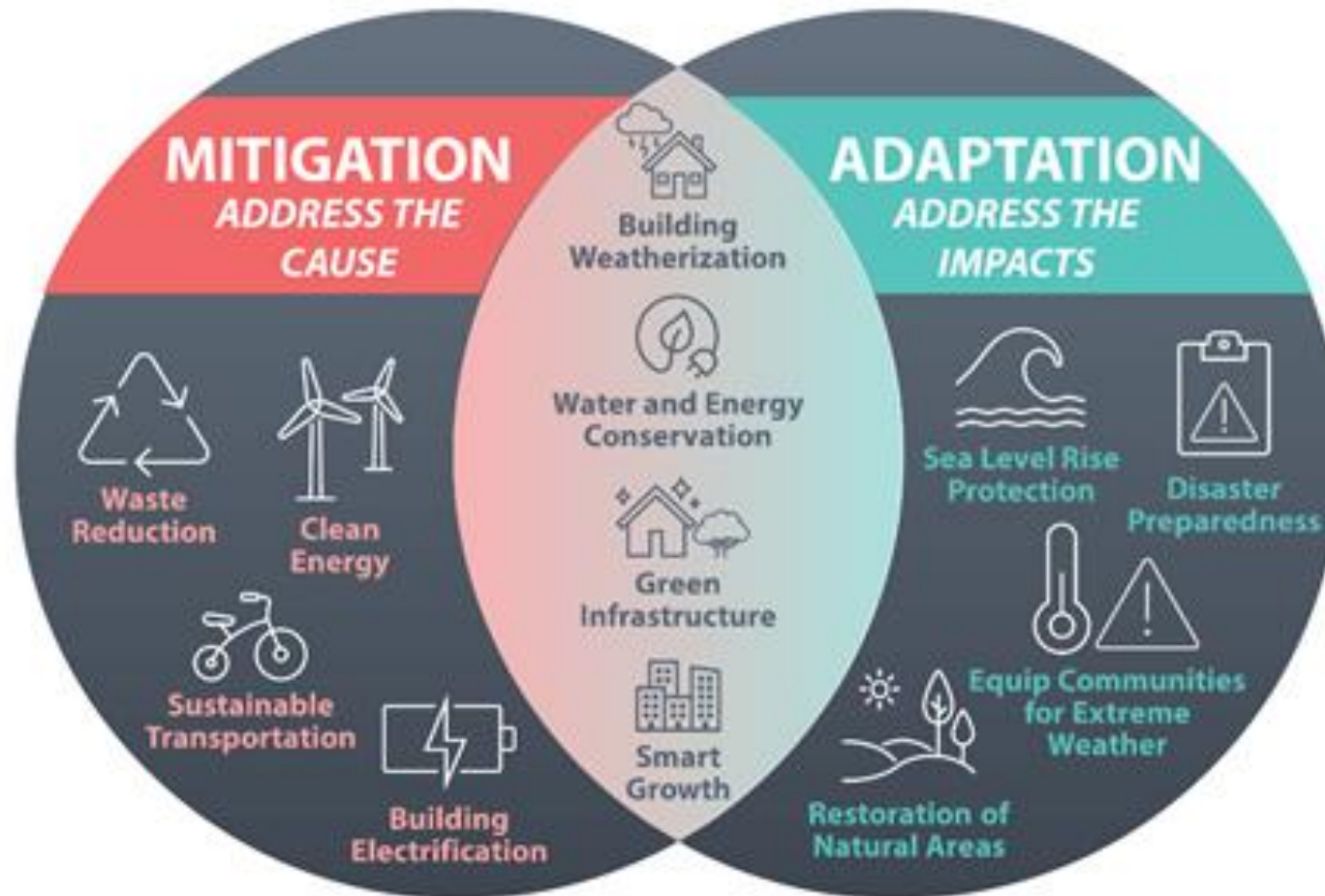


- Frontline voices
- New approaches – trial & growth
- Quality over quantity
- Informed by and built on past processes & Plans





MITIGATION vs ADAPTATION





CLIMATE & HEALTH



11. Increase partnerships and funding for active transportation and public transit programs and events that reduce barriers to using these modes and encourage their use.

40. Establish, fund, and implement right-of-way tree maintenance program focused in high heat, low & very low opportunity equity neighborhoods. Include policy, protocols, and standards

19. Support Pierce Transit in developing a zero-emission public transit plan.

22. Partner to support zero emission innovation in marine, rail and truck transportation.

39. Protect and restore biodiversity and habitat to be climate change ready.



CLIMATE & EQUITY



1. Prioritize building relationships with frontline communities in climate work.

3. Fund 10 community food access projects like community gardens, food forests, orchards, farms, food rescue efforts, or farmers markets.

4. Provide community and youth-serving organizations and climate justice leaders with education, tools, materials, compensation, professional development, and technical assistance to effectively engage and share their expertise.

21. Fund electric vehicle and bicycle programs.

24. Develop and support programs for food waste prevention, rescue, and diversion to keep food out of the landfill and improve local food security.

43. Co-create communication materials and trainings about climate impacts and emergency preparedness accessible.



CLIMATE & HOUSING



9. Actively implement the City's 2018 Affordable Housing Action Strategy by maintaining housing and making it affordable and resilient for residents to promote livability and avoid displacement.

10. Improve land use density bonuses and tax credits to require efficient zero carbon energy and green building certification

14. Partner with private and public partners to prioritize, support and create single and multi-family low carbon, healthy retrofit solutions

16. Research and pilot home and commercial building energy scores to be shared with buyers.



CLIMATE & SAFETY



12. Update street design guidelines and processes to make walking, biking, rolling, and riding transit easy and safe.

13. Develop and implement a funding plan to complete the City's bike and pedestrian network by 2050

15. Improve commercial energy codes to reduce most fossil fuel use, and require enhanced efficiency and health standards

41. Establish cooling/warming/clean air shelters in every neighborhood.

42. Partner to distribute clean air kits, including filter fans.

44. Develop Sea Level Rise Master Plan with partners to assess, monitor, and prepare natural systems & infrastructure.



CLIMATE & JOBS



32. Partner to train nature stewards for employment and restore green spaces.

33. Partner to retrain the workforce for good paying jobs in the green economy sector.

34. Research how to develop a community food hub, with space for food training, sharing, and business.

35. Use business taxes to encourage businesses to create more green job opportunities.

36. Amend zoning codes to encourage low carbon, resource-efficient, resilient, and just businesses.

37. Research, identify and prepare to recruit green industries and jobs that fit Tacoma.

38. Increase City staff capacity to grow green economy partnerships and resources.



Provide support to Pierce Transit to develop a zero emission transit plan and help Pierce Transit compete effectively for state & federal funding opportunities.

Support zero emission technology innovation in the marine, trucking and rail sector

In 2024 Tacoma Power Integrated Resource Plan, analyze net zero carbon scenario to ensure adequate electricity supply for transportation, building heating and industrial process load. Include analysis of ways to upgrade or manage the distribution system to enable electrification.

Collaborate with private and public partners to prioritize, support and create residential and commercial building low carbon retrofit solutions

Using data from new advanced water meter infrastructure, communicate and educate residents and businesses about water consumption patterns and probable leaks. Encourage and support timely leak repair.

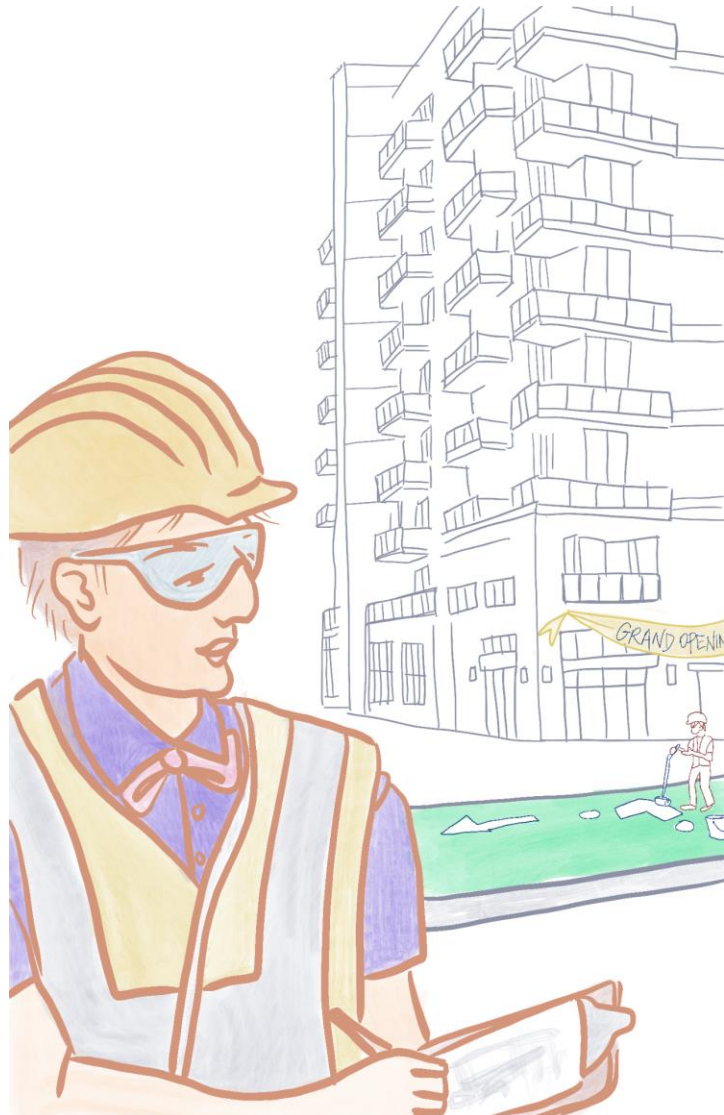


JUMP START ACTIONS



| Action Summary | Type of Action | City Cost Est | Funding Options |
|--|------------------------|--------------------|--|
| 3. Fund 10 community food access projects | Community Support | \$100,000 annually | Federal Recovery, General Fund, ES |
| 40. Establish, fund, and implement right-of-way tree maintenance & planting program | Program | \$500,000 annually | General Fund, Stormwater, grants |
| 4. Support community & youth-serving organizations & climate justice leaders | Community Support | \$25,000 annually | General Fund, Utilities, grants |
| 17. Improve land use density bonuses and tax credits to require sustainability | Policy | N/A | |
| 12. Update City policies and practices to design and implement streets that are safe, equitable, and accessible. | Planning | \$50,000 | General Fund |
| 14. Support and create single and multi-family low carbon, healthy retrofit solutions | Planning | \$50,000 | Federal & State grants/allocations, General Fund |
| 15. Improve commercial energy codes to reduce most fossil fuel use | Policy - Study | \$50,00 one-time | General Fund |
| 24. Develop and support programs for food waste prevention | Staffing & Programming | \$150,000 annually | Federal Recovery, Solid Waste, grants |
| 38. Increase City capacity to grow green economy partnerships and resources | Staffing & Programming | \$150,000 annually | Federal Recovery, General Fund, ES, Federal & State grants/allocations |
| 42. Partner to distribute clean air kits, including filter fans. | Community Support | \$30,000 annually | General Fund, grants |

FINANCIAL IMPACTS



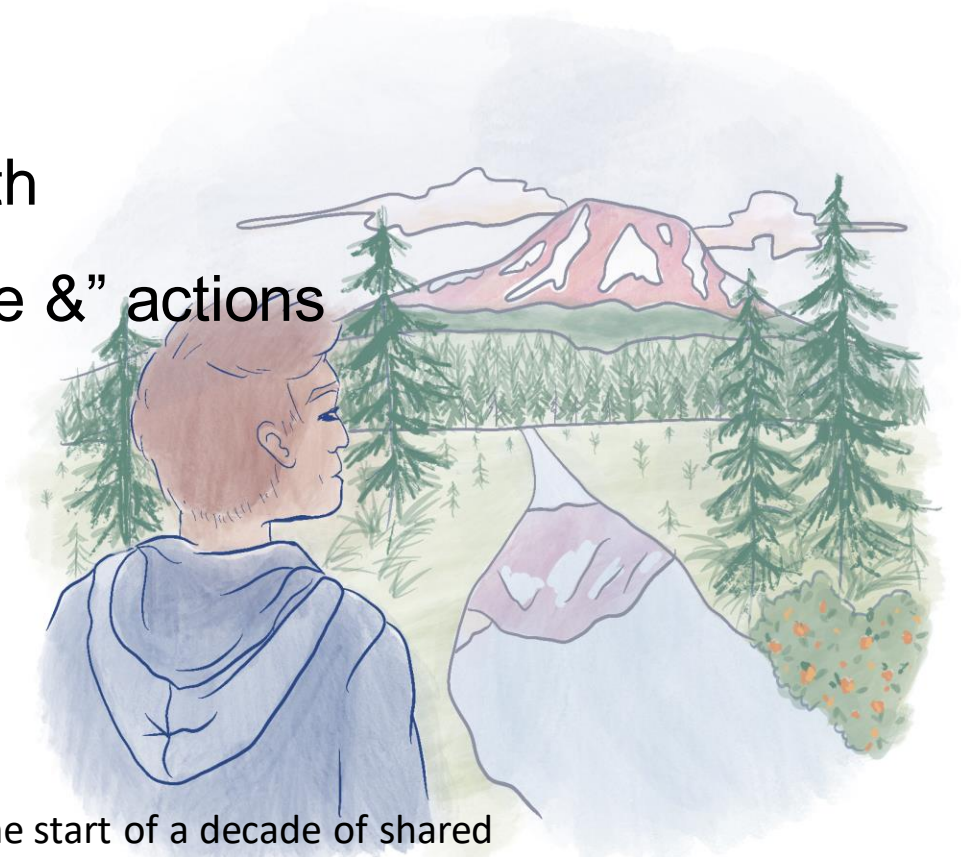
By 2050...

- Costs of inaction; over \$3 billion
- Costs of investments needed; \$2.5 billion
- Savings because of investments; \$3.4 - \$6.7 billion
- Job creation; 1,300



●●● NEXT STEP OPPORTUNITIES

- City Council Plan Resolution – November 30th
- Prioritize federal and state funding for “climate &” actions
- Department budget requests for CAP actions
- Annual progress reports



“Glasgow must be the start of a decade of shared ambition and innovation to preserve our future. We can do this – we just have to make a choice to do it.” – President Joe Biden, COP26