



City of Tualatin

CITY OF TUALATIN Staff Report

TO: Honorable Mayor and Members of the City Council
THROUGH: Sherilyn Lombos, City Manager
FROM: Maddie Cheek, Management Analyst II
DATE: September 12, 2022

SUBJECT:

Climate Action Plan Update: Greenhouse Gas Emissions Inventory Results

EXECUTIVE SUMMARY

Tualatin's Community Climate Action Planning effort is currently underway. Staff will provide a brief update on Tualatin's climate action planning process including a public engagement update, review the greenhouse gas emissions inventory report and future emissions forecast, share best practices to reduce emissions in a targeted way based on the emissions inventory report, and discuss next steps.

PUBLIC AND STAKEHOLDER ENGAGEMENT

The project team recently wrapped up phase 1 of public engagement, focused on building public awareness and understanding of the planning process and learning about the community's concerns and interests related to climate change. Common concerns include concerns related to wildfires and smoke, drought, protecting the ecosystem and river, and extreme weather. Community members also expressed interest in learning more about what actions will have the most impact, how the community can work together to achieve results, protecting animals, bioswales and rain gardens, and how to drive less and improve access to active transportation such as biking and walking.

The project team is hosting a series of mitigation-themed stakeholder meetings in October with representatives from businesses, industry, nonprofit organizations, and other local agencies to discuss challenges and opportunities related to emissions reductions (mitigation) across four different themes: buildings and energy, urban form and land use, transportation – modes and fuel switching, and consumption – food and goods.

GREENHOUSE GAS EMISSIONS INVENTORY RESULTS AND FORECAST

During 2019, all emissions combined totaled nearly 677,000 metric tons of carbon dioxide equivalents (MT CO₂e), or an average of 25 MT CO₂e per resident.

Of this, local emissions (emissions generated *inside* City boundaries) totaled nearly 386,000 MT CO₂e, or an average of 14 MT CO₂e per resident. This is slightly lower than the U.S. average of 15 MT CO₂e per capita, but significantly higher than the global average of roughly 4 MT CO₂e per capita.

Imported emissions (emissions generated *outside* City boundaries) totaled over 290,000 MT CO₂e and include upstream emissions from production of goods, food, fuel, and air travel.

Building energy use made up 42% of Tualatin's total emissions, followed by production of goods (15%), production of food (13%), and transportation energy (12%).

State-level policy is projected to significantly reduce emissions from building energy over the next 30 years. However, to reach the City's goal of net zero carbon by 2050 and meet the targets set out by the 2015 Paris Climate Accords, Tualatin will need to significantly decrease emissions from transportation energy, industrial processes, and refrigerants.

BEST PRACTICES

Given the inventory results and emissions forecast, the project team has outlined a list of "best practices" related to transportation, buildings and energy use, and consumption of food and goods to target Tualatin's community greenhouse gas emissions reduction efforts and make the biggest impact.

NEXT STEPS

This fall, the project team will focus on gathering community feedback on potential adaptation and mitigation actions in line with the "best practices" mentioned above. Engagement strategies include an online open house with an interactive map and three in-person workshops targeted at households, youth, and small businesses. The team will use social media, a newsletter article, listserv updates, and in-person conversations to invite and encourage community members to participate in the online open house and/or the interactive workshops.

ATTACHMENTS:

- PowerPoint slides
- Tualatin's Community Greenhouse Gas Emissions Inventory report