

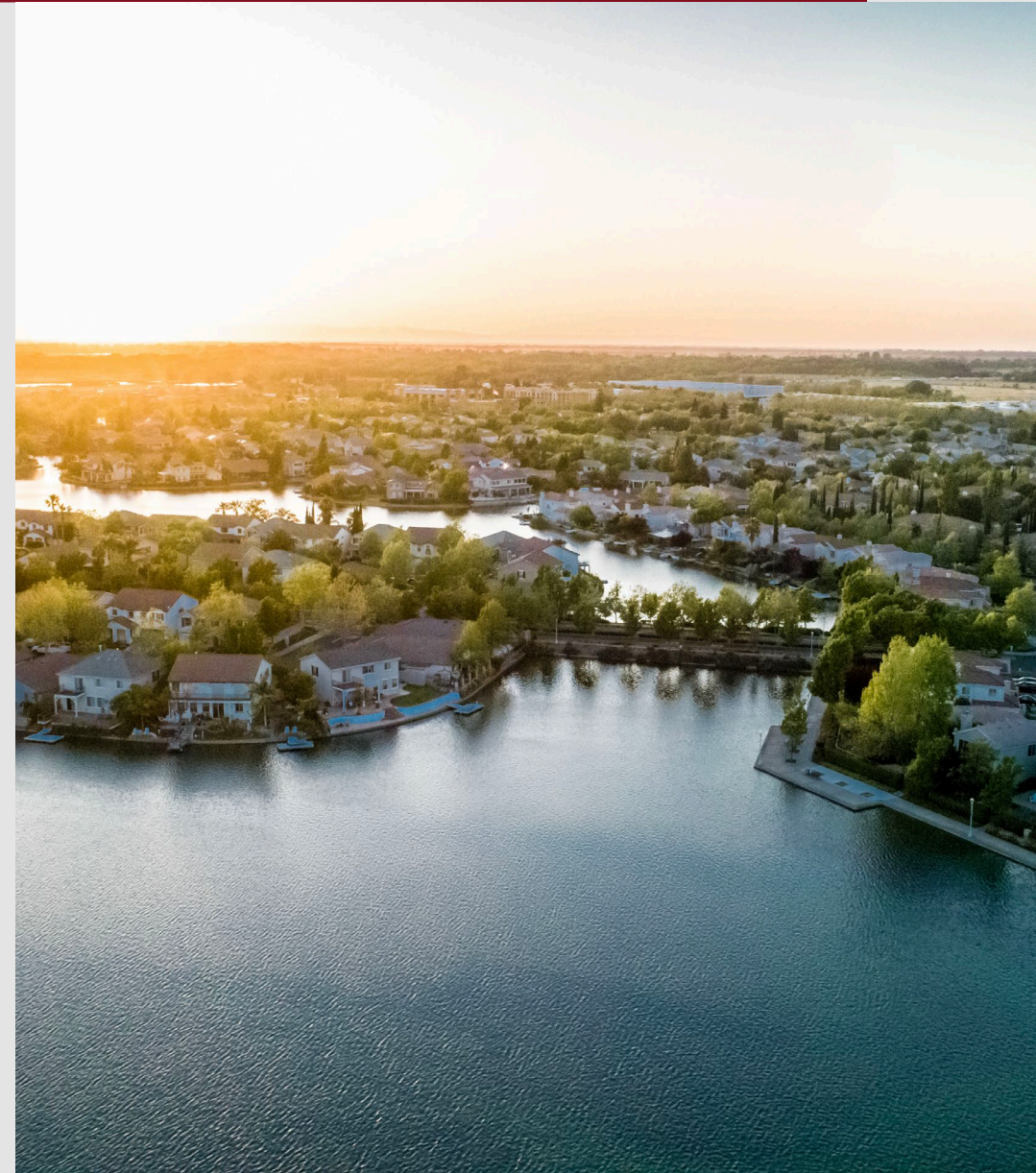


Climate Compass: Information Session #1

July 24, 2024

Summary

- Information sessions on the update to the 2019 Climate Action Plan
- First of three sessions:
 - 1. Greenhouse Gas Inventory & Forecast; Potential Strategies/Actions for Resilience/Adaptation, Resource Consumption, the Green Economy**
 2. Potential Strategies/Actions for Buildings & Energy
 3. Potential Strategies/Actions for Transportation



Background

- Adopted in February 2019
- Amended in December 2019 and 2022
- Update CAP every 5-years
- Climate Compass: A Plan for Implementing Elk Grove's Climate, Sustainability, and Resilience Goals
- CEQA Streamlining

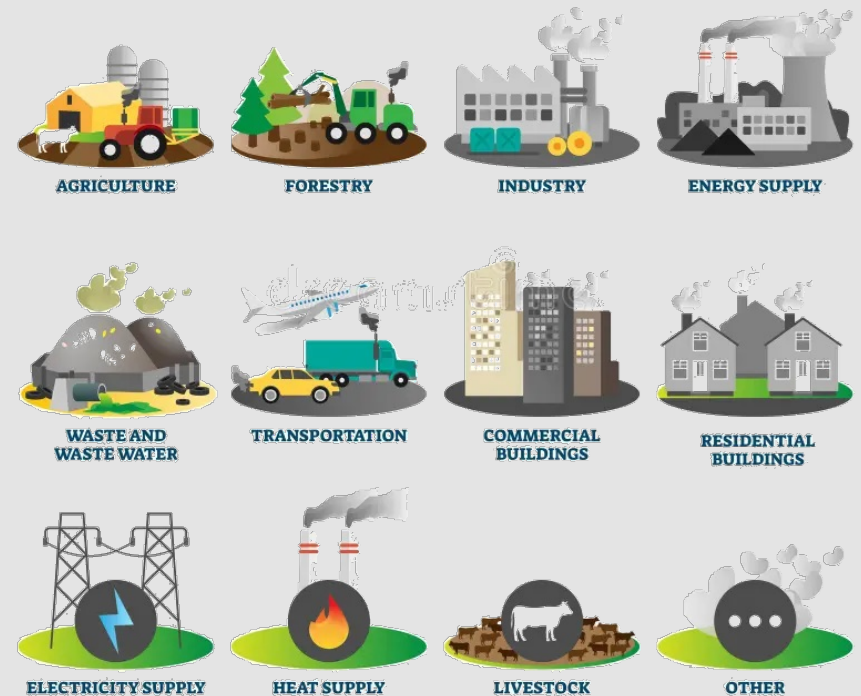
State GHG Emission Reduction Objectives

- Executive Order S-3-05 (2005)
 - GHG emission reductions: 80% below 1990 levels by 2050
- SB 32 (2016) – Global Warming Solutions Act
 - GHG emission reductions: 40% below 1990 levels by 2030
- AB 1279 (2022) – Climate Crisis Act
 - Net Zero GHG emissions by 2045
- California Air Resources Board (CARB) Scoping Plan (2022)
 - GHG emissions reductions: 48% below 1990 levels by 2030
 - GHG emissions reductions: 85% below 1990 levels by 2045
 - 15% carbon capture and carbon sequestration by 2045

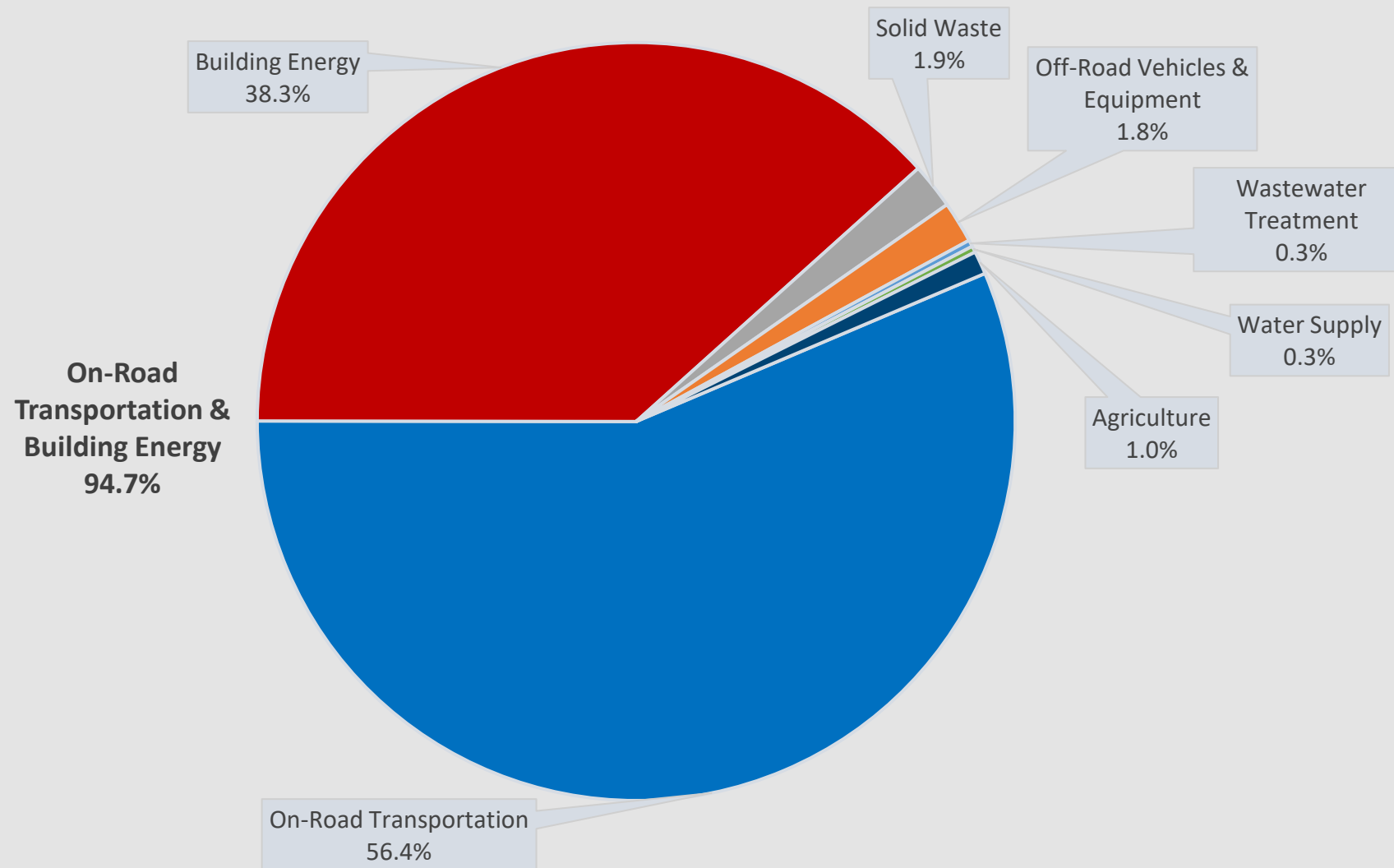
Greenhouse Gas Inventory & Forecast

- Community-wide & Local Government Operations Inventories
- Conducted with 2021 data
- Previous Community-wide GHG inventories in 2013 and 2005
- Previous LGO inventories in 2019 and 2005
- Methodological differences
- Forecast for Business-as-usual & Legislative-Adjusted

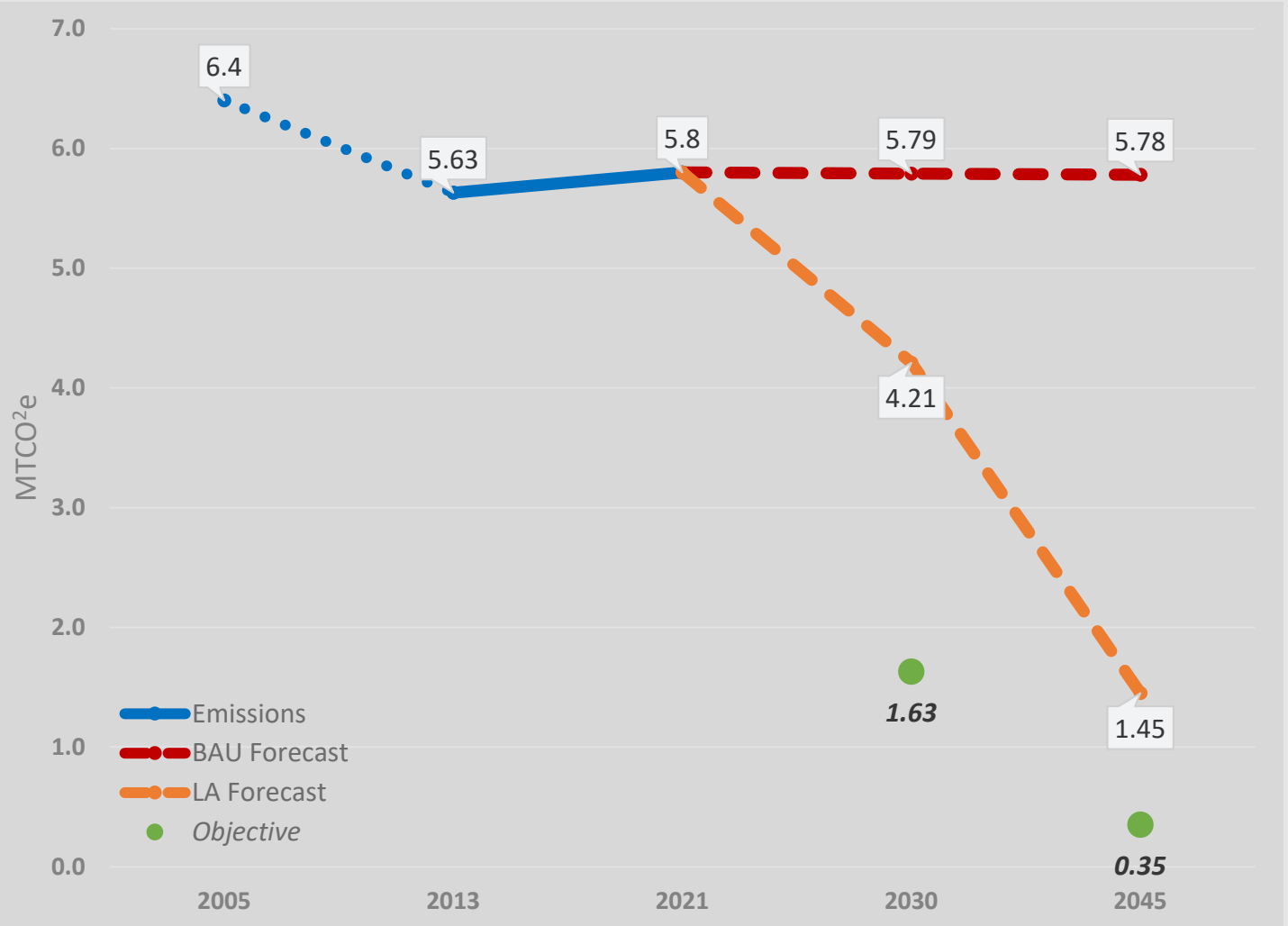
GREENHOUSE GAS EMISSIONS



2021 Community-wide Emissions by Sector

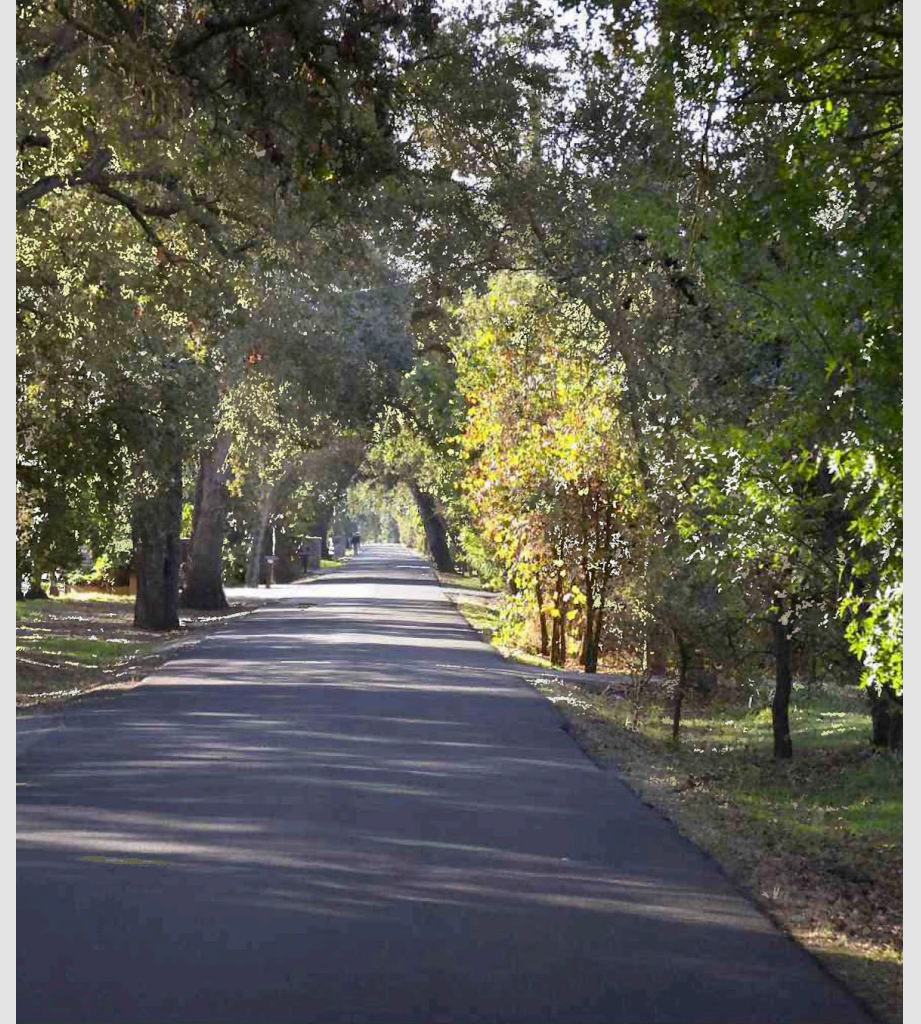


Per Capita Community-wide Emissions & Forecast



Resilience & Adaptation

- **Strategy: Reduce Exposure to Extreme Heat and Mitigate the Urban Heat Island Effect**
 - Action: Consider establishing heat mitigation measures for public spaces, including specific design features, cooling materials and treatments, and increased tree/landscaping requirements.
- **Strategy: Expand the Urban Tree Canopy**
 - Action: Consider updates to the Tree Preservation and Protection Regulations to improve effectiveness and ensure enhancement of tree canopy. Update tree planting requirements for new developments to increase tree canopy coverage.



Natural and Working Lands



- **Strategy: Expand Nature-Based Solutions**
 - Action: Explore incentivizing climate smart land management in the rural area of the city, such as increasing tree canopy coverage, development that promotes groundwater recovery, and additional land use protections that restrict densification.
 - Action: Evaluate rural lands for current and historical carbon storage (including mapping and modeling), the potential for future carbon sequestration with restoration, avoided conversion, or management, and the stability of the stored carbon and risk of carbon loss due to climate change or land use change.
 - Action: Assist agricultural operations in developing and implementing climate change mitigation and adaptation plans, such as Carbon Farm Plans.

Resource Consumption & Green Economy

- **Strategy: Promote a Circular Economy**
 - Action: Undertake a Circular Economy Baseline Assessment of existing waste streams, resource flows, and economic activities to identify opportunities and areas of highest potential.
 - Action: Partner with the Sacramento Public Library to expand the Library of Things Program to Elk Grove.



Resource Consumption & Green Economy



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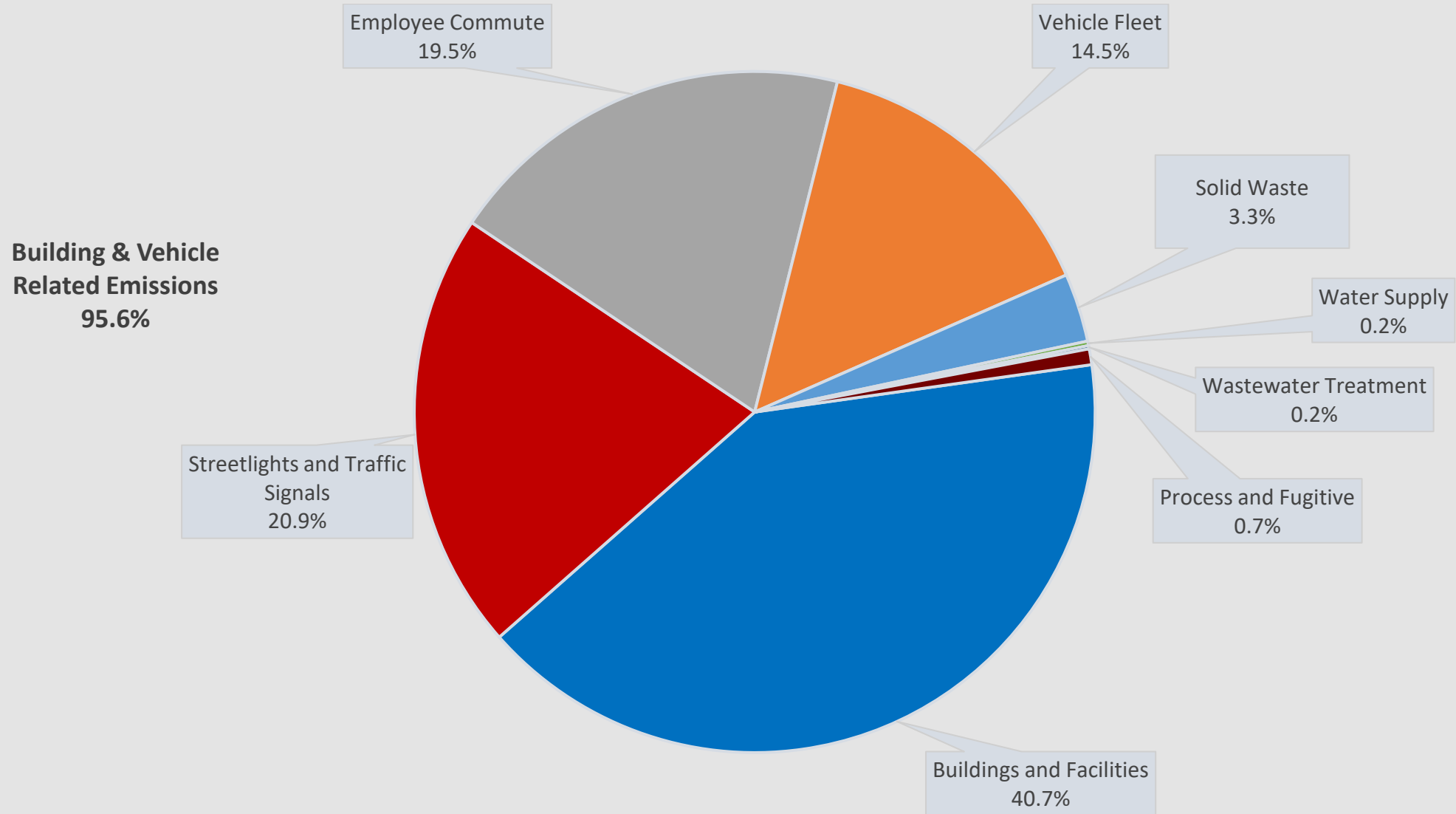
- **Strategy: Reduce Water Use**
 - Action: Mandate water efficiency standards for new construction that require water-neutral development for projects expected to exceed the historical water use of a parcel. If a project exceeds water use, the developer must offset the new water demand by installing water-efficient fixtures on the property or paying a fee to support fittings at existing properties elsewhere in the City.

Climate Action Commitment

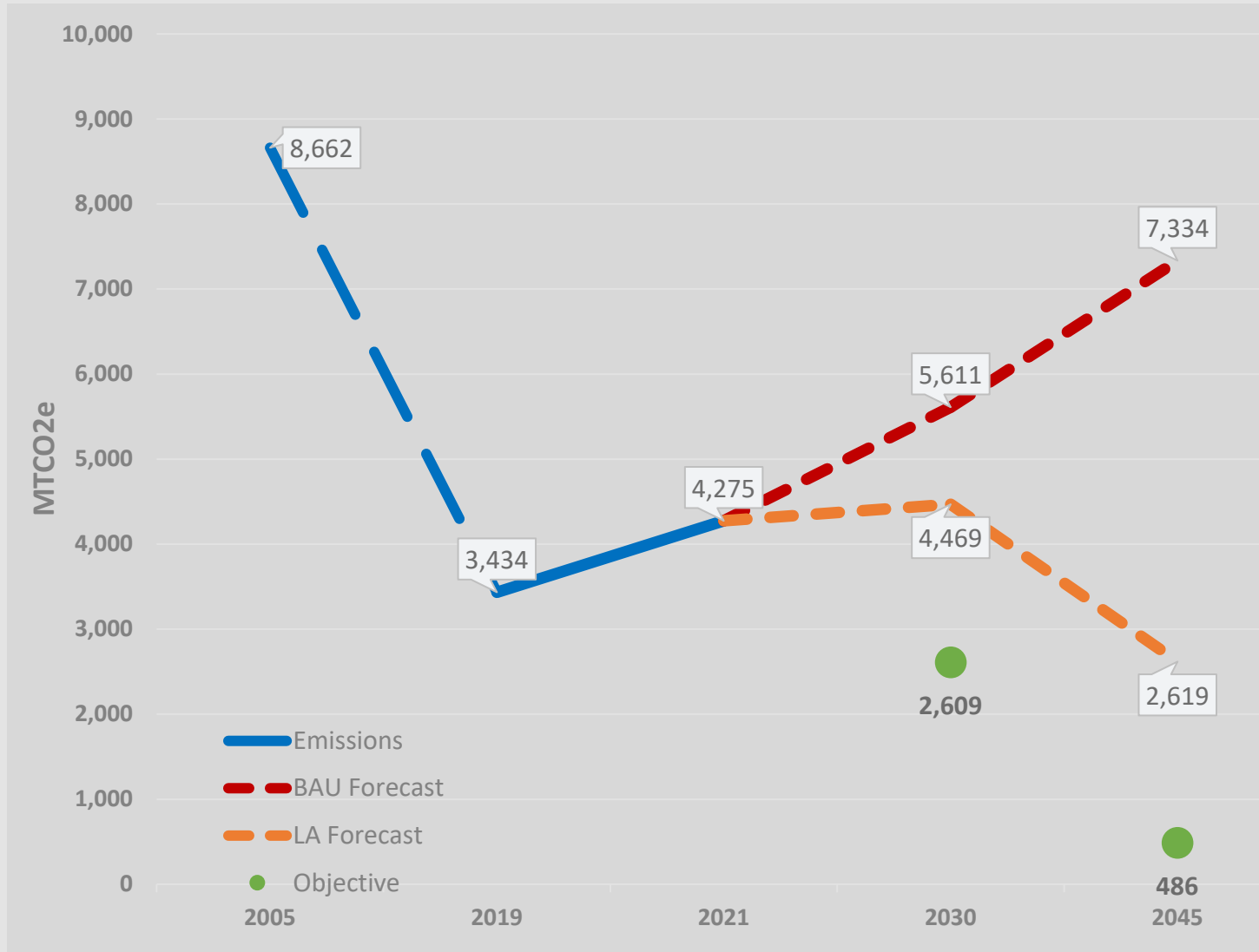
- **Strategy: Conduct Meaningful Community Outreach**
 - Action: Develop a neighborhood resilience committee program to increase connectedness among community members and provide support during climate hazard events, such as extreme heat events.



2021 LGO Emissions by Sector



Total LGO Emissions & Forecast





Thank you

July 24, 2024