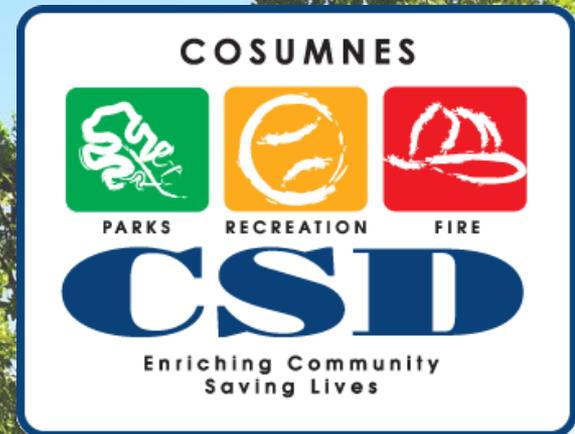


Climate Action Plan / Sustainability Action Plan

Community Outreach Meeting

July 29, 2020



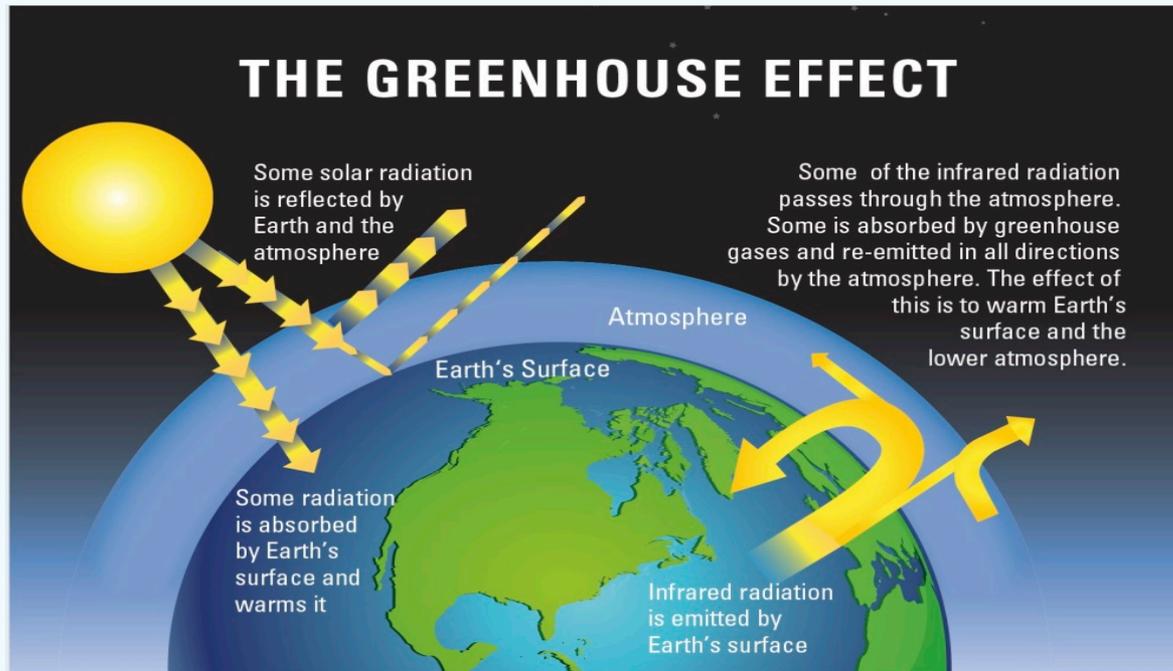
Overview

- **Background**
- **Purpose and Scope of the CAP/SAP**
- **Summary of CAP/SAP Results**
- **Benefits of the CAP/SAP**
- **Open Discussion**

Background

Greenhouse Gases (GHGs)

- Includes gases such as CO_2 and CH_4 that cause a “greenhouse effect” in Earth’s atmosphere.
- State regulations require reductions in GHG emissions.



Regional Impacts of Climate Change

Areas of Potential Impact

- More intense and frequent heat waves;
- More intense and frequent drought;
- Shrinking snowpack;
- Threats to biological diversity; and
- More severe and frequent wildfires.



CCSD's Role

Typical CAP Jurisdictional Reach

- CAPs are often prepared by County's and Cities
- Typically focused on regulating new development and guiding growth
- Strategies often include:
 - Safe Routes to School Programs;
 - Community Choice Energy Aggregations; and
 - Encouraging higher density development and transit accessibility.

An Operational Focus for CCSD

- CCSD does not maintain the same control over new development
- Focus instead on the operations of CCSD
 - Building energy demand, water demand, vehicle fleets, limiting future growth in emissions

Overview of the CAP/SAP

Quantification of GHG Emissions

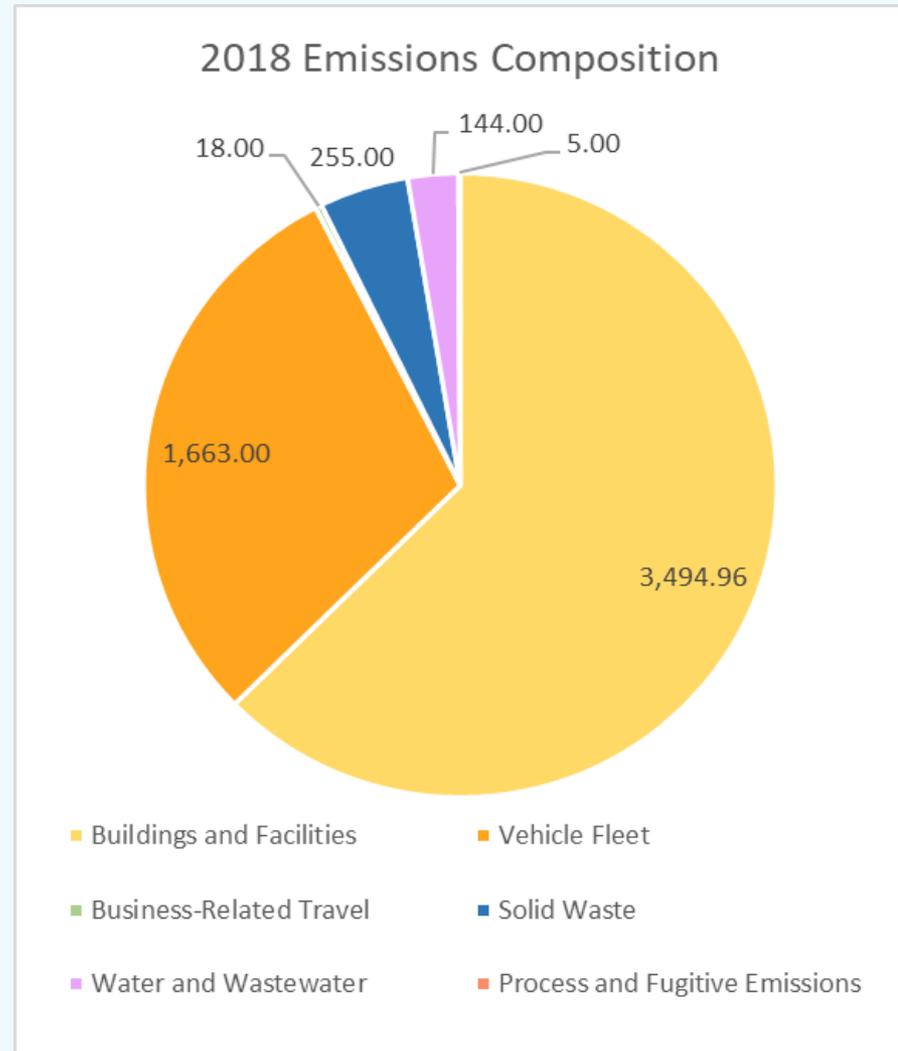
- Using a computer model to determine the CCSD's current GHG emissions
- Forecasting future GHG emissions

Emission Reduction and Sustainability Strategies

- Emission Reduction Strategies will reduce GHG emissions associated with operations of the CCSD.
 - Ex: produce more renewable energy
- Sustainability Strategies will improve the efficiency and environmental sustainability of CCSD operations.
 - Ex: reduce water use, encourage recycling
 - Ex: Protect biological resources (nature parks & gardens)

Summary of Existing Emissions

Source	CO2e (MT)
Buildings and Facilities	
Natural Gas Generators	0.59
Propane Generators	1.98
Diesel Generators	1.40
SMUD Electricity	514.00
PG&E Natural Gas	2,977.00
<i>Total</i>	<i>3,494.96</i>
Vehicle Fleet	
CSD Gasoline Fleet	371.00
CSD Diesel Fleet	760.00
Procida Landscaping	334.00
Coast Landscaping	158.00
EGP Landscaping Gasoline Fleet	19.00
EGP Landscaping Diesel Fleet	21.00
<i>Total</i>	<i>1,663.00</i>
Business-Related Travel	
Air Travel	18.00
<i>Total</i>	<i>18.00</i>
Solid Waste	
Procida Solid Waste	12.00
Rupublic Services Solid Waste	243.00
<i>Total</i>	<i>255.00</i>
Water and Wastewater	
Wastewater Collection	71.00
Water Conveyance	73.00
<i>Total</i>	<i>144.00</i>
Process and Fugitive Emissions	
Fertilizer Use	5.00
<i>Total</i>	<i>5.00</i>

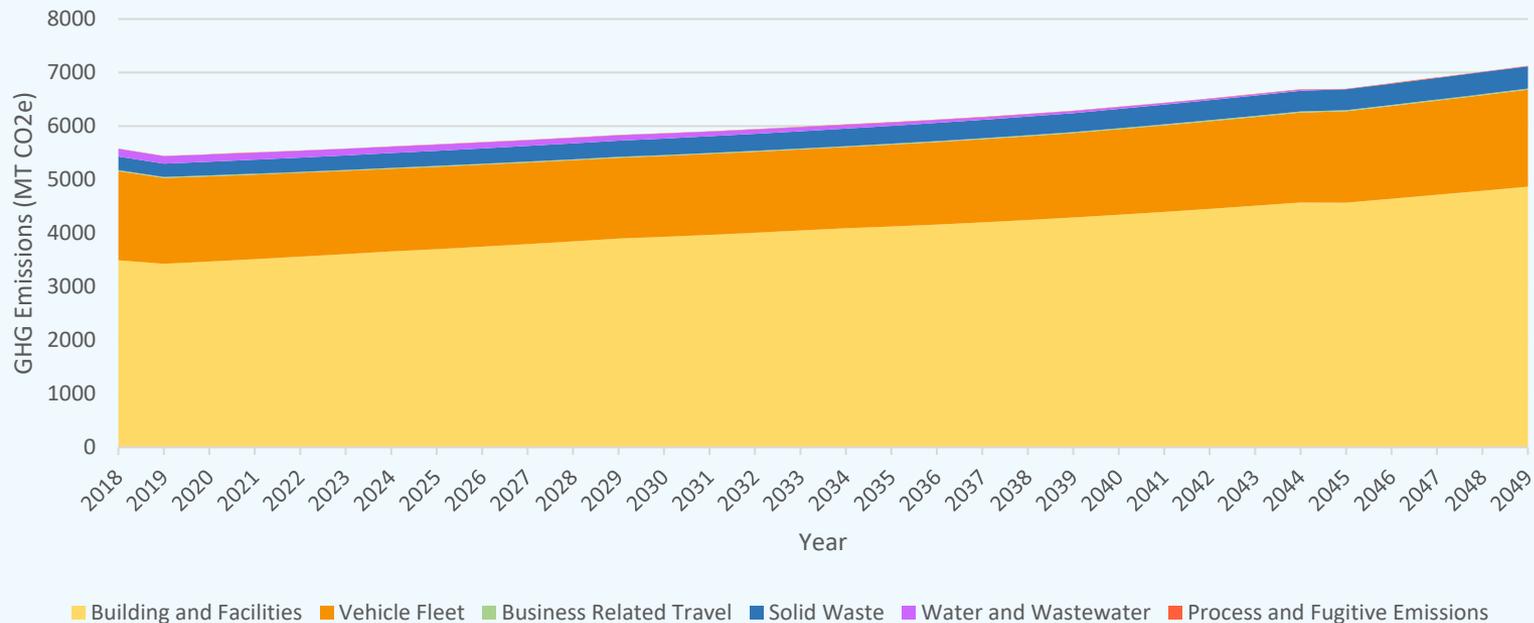


Summary of Forecasting Results

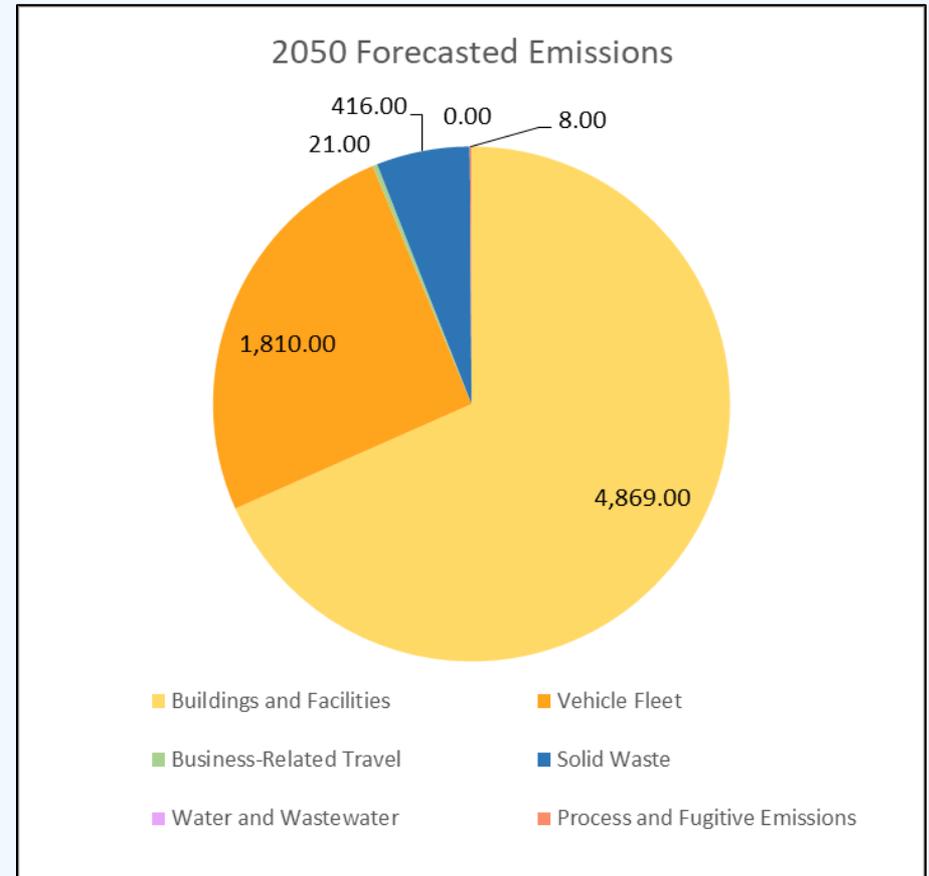
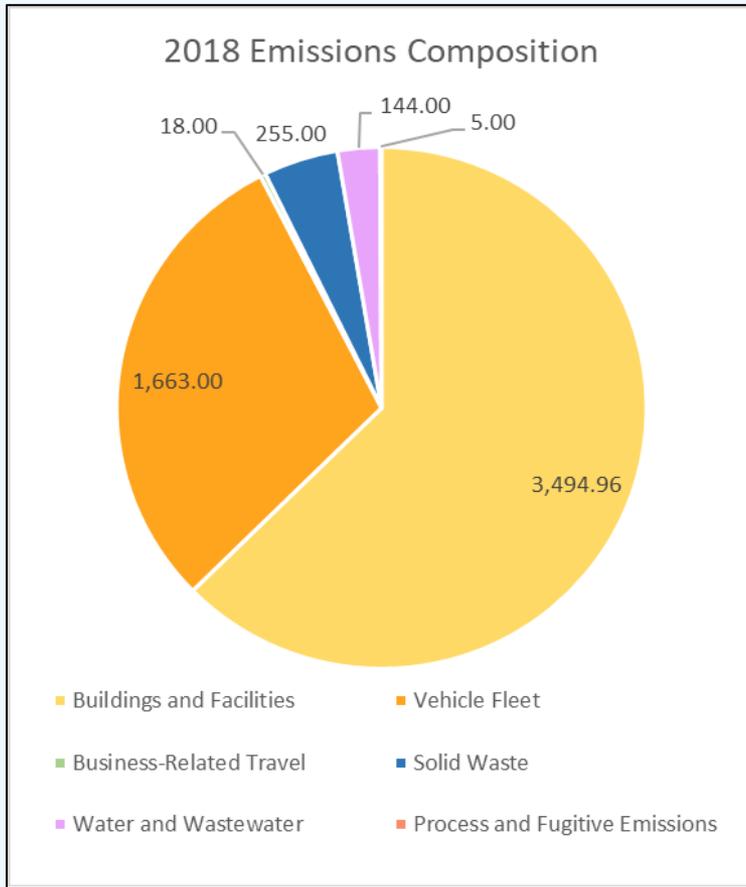
Forecasting Growth

- Growth in CCSD operations based on CCSD's 2018 Parks, Recreation & Facilities Master Plan, Elk Grove & Galt General Plans and CAPs

BAU 2050 Forecast: Emissions Per Sector



Summary of Forecasting Results



GHG Reduction and Sustainability Strategies

Strategies Target Certain Sectors:

- Building energy efficiency, transportation, waste reduction, and more.

Example Strategies:

- Improve bicycle and pedestrian infrastructure to increase non-motorized travel.
- Encourage installation of the electric vehicle charging stations at existing and future CCSD-owned facilities.
- Reduce natural gas consumption by electrification of appliances.
- Increase the use of recycling and composting receptacles at CCSD parks and facilities.

Benefits of the CAP/SAP

- Provides a roadmap to reduce existing and future GHG emissions;
- Reduces operating costs;
- Improves local air quality, community resilience to the effects of climate change, and overall quality of life.



Open Discussion

- Questions about methods?
- Ideas for reduction strategies?
- Additional questions may be emailed to:
ParkDevelopment@csdparks.com
- Further information is available at:
<https://www.yourcsd.com/Sustainability>

