

# CivicSpark Project: Climate Action Planning

SBCCOG BOARD MEETING

---

THURSDAY, JULY 28, 2022



**SOUTH BAY CITIES**  
COUNCIL OF GOVERNMENTS



# Project Components

---

## GHG Emissions Inventory Update process

- Climate planning working group & contacts
- Data request templates & data collection
- Energy-related emissions analysis

## Other

- Electricity-related inventory (City of Rancho Palos Verdes)
- Research support (Air quality, transportation-related emissions)
- Solar Initiative



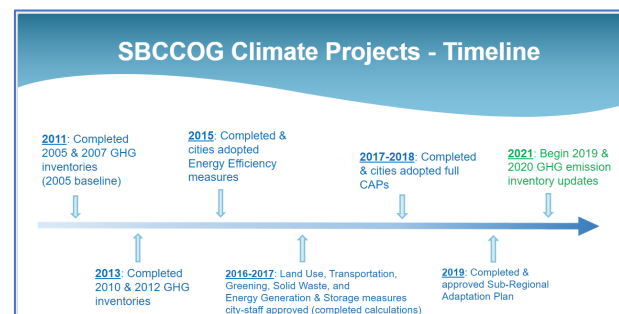
# Climate Working Group

## Background

- SBCCOG serves as a central hub to support cities in their climate-related projects and promote resource sharing
- Each member city has a unique organizational structure for allocating climate-related work

## Milestones

- Engaged with representatives from member cities
- 9 of 15 cities attended Fall Kickoff Meeting



## Next Steps

- Maintain central database of city climate contacts
- Facilitate communication and resource-sharing among cities

# Data Request Templates & Data Collection

---



## Background

- SBCCOG is a member of ICLEI ClearPath and uses their portal for GHG emissions inventories
- ICLEI provides sample request forms to guide data collection for an individual city



## Milestones

- Research past methods and consult with ICLEI to identify appropriate calculation methods for SBCCOG subregion
- Developed requests for 4 sectors, personalized by:
  - Data-providing agency
  - City or group of cities served
  - Year (2019 and 2020)

# Data Request Templates & Data Collection

---



## Milestones, cont'd.

- Engaged with 6 external data providers
- Submitted request to Southern California Association of Governments (SCAG) for data related to population characteristics and transportation sector emissions
- Supported 9 cities in submitting data request to Southern California Edison (SCE) and/or SoCalGas for electricity and natural gas usage
  - Received complete energy data for 5 cities
- Submitted request to 5 water providers for water-related emissions
- Submitted request to LA County Sanitation District for wastewater-related emissions
- Initiate data entry into ClearPath portal

# Data Request Templates & Data Collection



## Next Steps

- Continue to liaise with data providers and member cities to complete collection process across all sectors
- Complete necessary calculations or data manipulations and data entry into ClearPath portal
- Compare results to past years' inventories and present findings to member cities





# Energy Emissions Analysis

---

## Background

- The full GHG emissions inventory will include five sectors: energy, transportation, water, wastewater, and waste
- Most emissions fall under the energy and transportation sectors
- Energy includes residential, commercial, and industrial use of electricity and natural gas
- Data is requested by cities and provided by Southern California Edison (SCE) and SoCalGas



# Energy Emissions Analysis

---

## Milestones

- Complete energy data entry into ClearPath portal for 2019 and 2020 received for 5 cities
- Emissions factors for electricity identified from SCE and eGrid
- Energy-related emissions for 2019 and 2020 compared to previous years' inventories

## Next Steps

- Compare outputs to individual cities' energy-related GHG emissions reduction targets
- Celebrate successes and identify actions to meet future emissions reduction goals



# Electricity Emissions Inventory: City of Rancho Palos Verdes

---



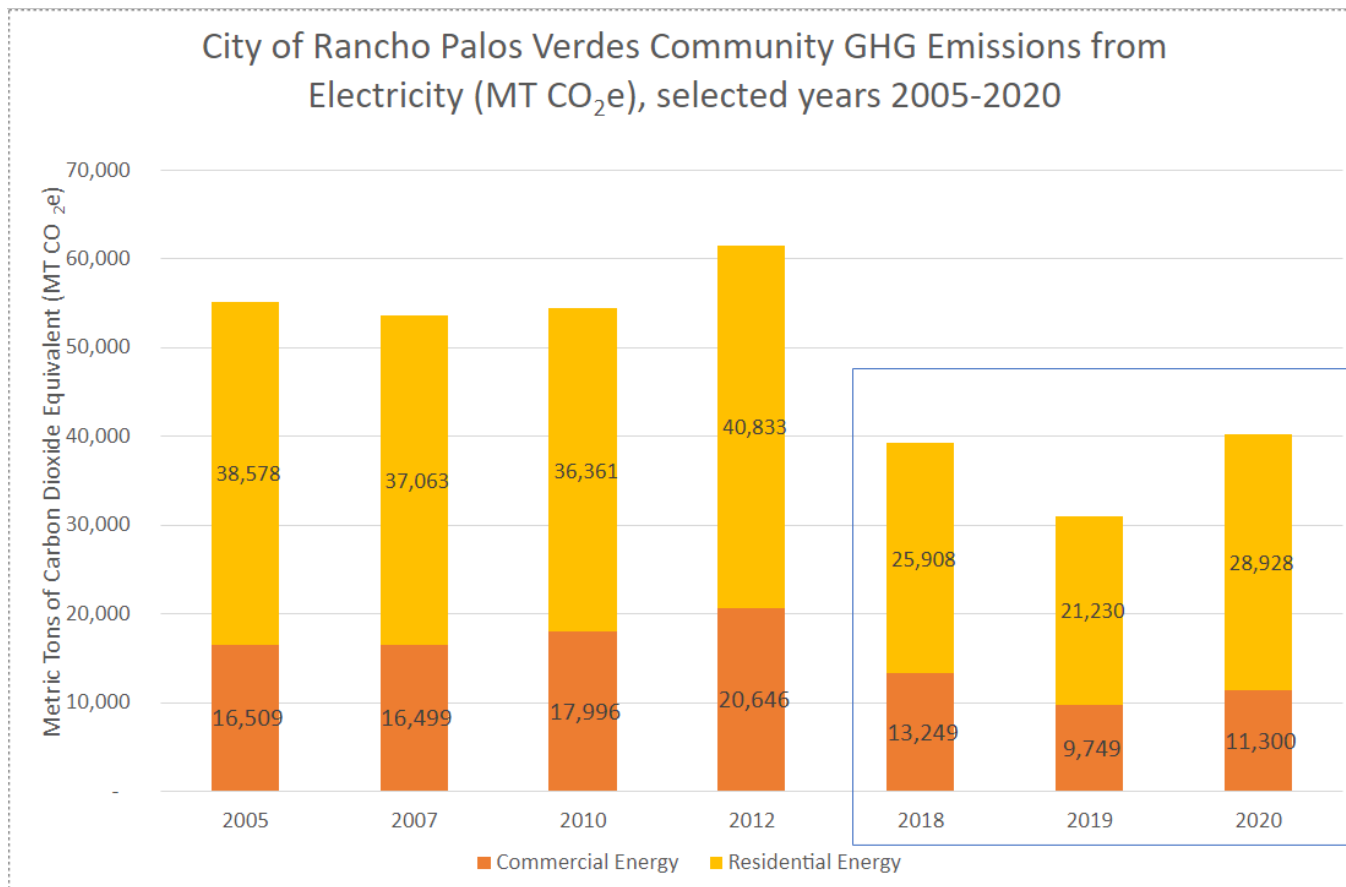
## Background

- City of Rancho Palos Verdes was interested in updated inventory of the GHG emissions from electricity for 2018, 2019, and 2020
- Used to guide decision about participation in Clean Power Alliance (CPA)

## Milestones

- Collect electricity usage data and relevant emissions factors from SCE for 2018-2020
- Enter data into ClearPath portal and export results

# Electricity Emissions Inventory: City of Rancho Palos Verdes



# Research & Data Support: Air Quality and Transportation

---



## Background

- The SBCCOG team presents to various audiences, including policy makers, on both past and planned work
- Transportation-related GHG emissions are modeled based on vehicle miles traveled (VMT); air pollutant emissions can be modeled from similar data

## Milestones

- Identify
  - total and transportation-sector GHG emissions for subregion
  - NO<sub>x</sub> emissions reductions from conversion to electric vehicles (EVs)
  - CO<sub>2</sub>e emissions totals at various geographic scales (international, national, state, and local)
  - Visualizations to communicate the greenhouse effect



# Solar Initiative

---

## Background

- The SBCCOG supports energy efficiency projects
- Funding for building a renewable energy resources portfolio typically comes from different sources
- The SBCCOG is exploring how best to increase solar energy resources to support both its own operations and its member cities





# Solar Initiative

---

## Milestones

- Research various solar programs in other municipalities
- Draft memo outlining potential program options

## Next Steps

- Gather input from stakeholders
- Finalize program structure, identify funding, and implement



# Questions?

---

Thank you to our Partners and Cities that worked with the SBCCOG on these projects!

Anne Youngdahl  
CivicSpark Fellow  
[anne@southbaycities.org](mailto:anne@southbaycities.org)

