



# City of Houston Climate Action Plan

Working Group Meeting  
3/1/2019

# What is a Climate Action Plan (CAP)?

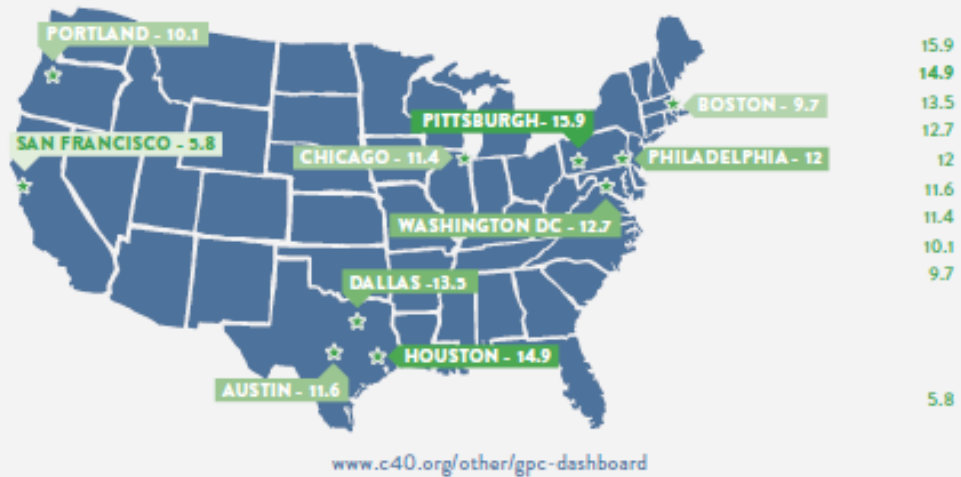
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- A climate action plan should address the need to reduce greenhouse gas emissions, adapt to the impacts of climate change and deliver wider social, environmental, and economic benefits.
- **Objectives of plan are to:**
  - ❖ Decrease traffic congestion
  - ❖ Improve air quality
  - ❖ Provide better access to green space
  - ❖ Improve quality of life
  - ❖ Reduce energy costs through energy efficiency and renewable energy
  - ❖ Increase resilience

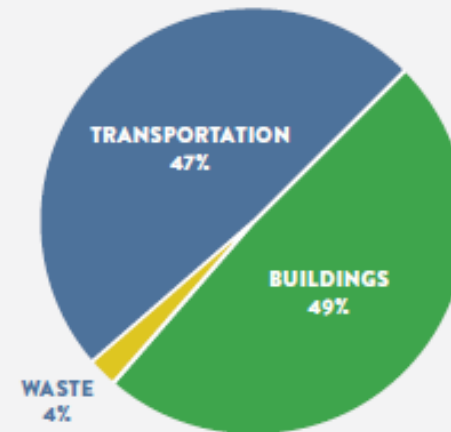


# Houston Community Greenhouse Gas Emissions

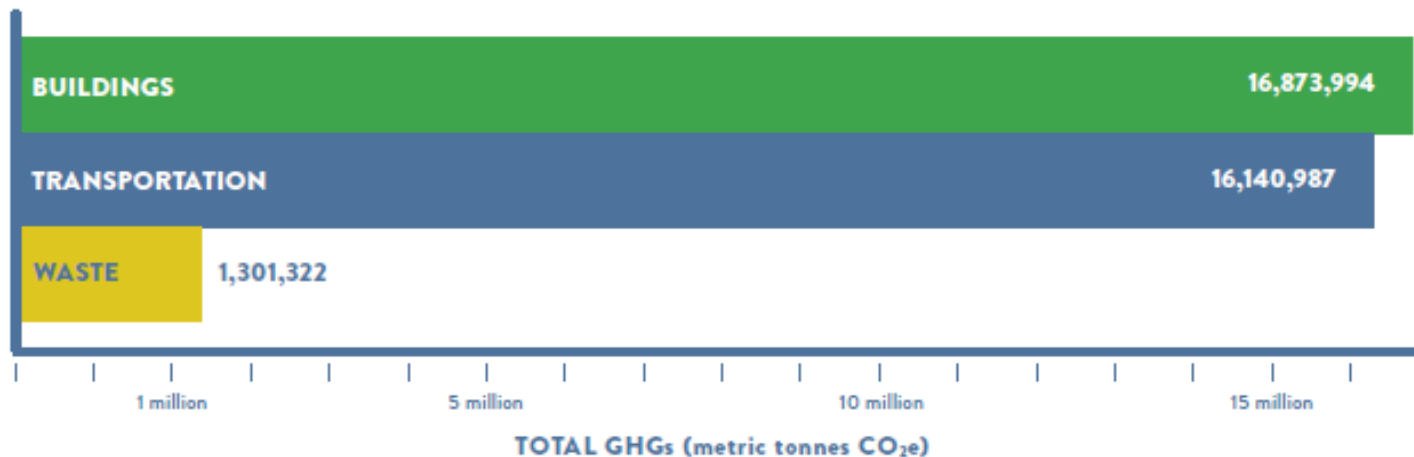
TOTAL ANNUAL EMISSIONS PER CAPITA  
(Metric Tonnes CO<sub>2</sub>e)



GREENHOUSE GAS EMISSIONS SOURCES  
HOUSTON 2014

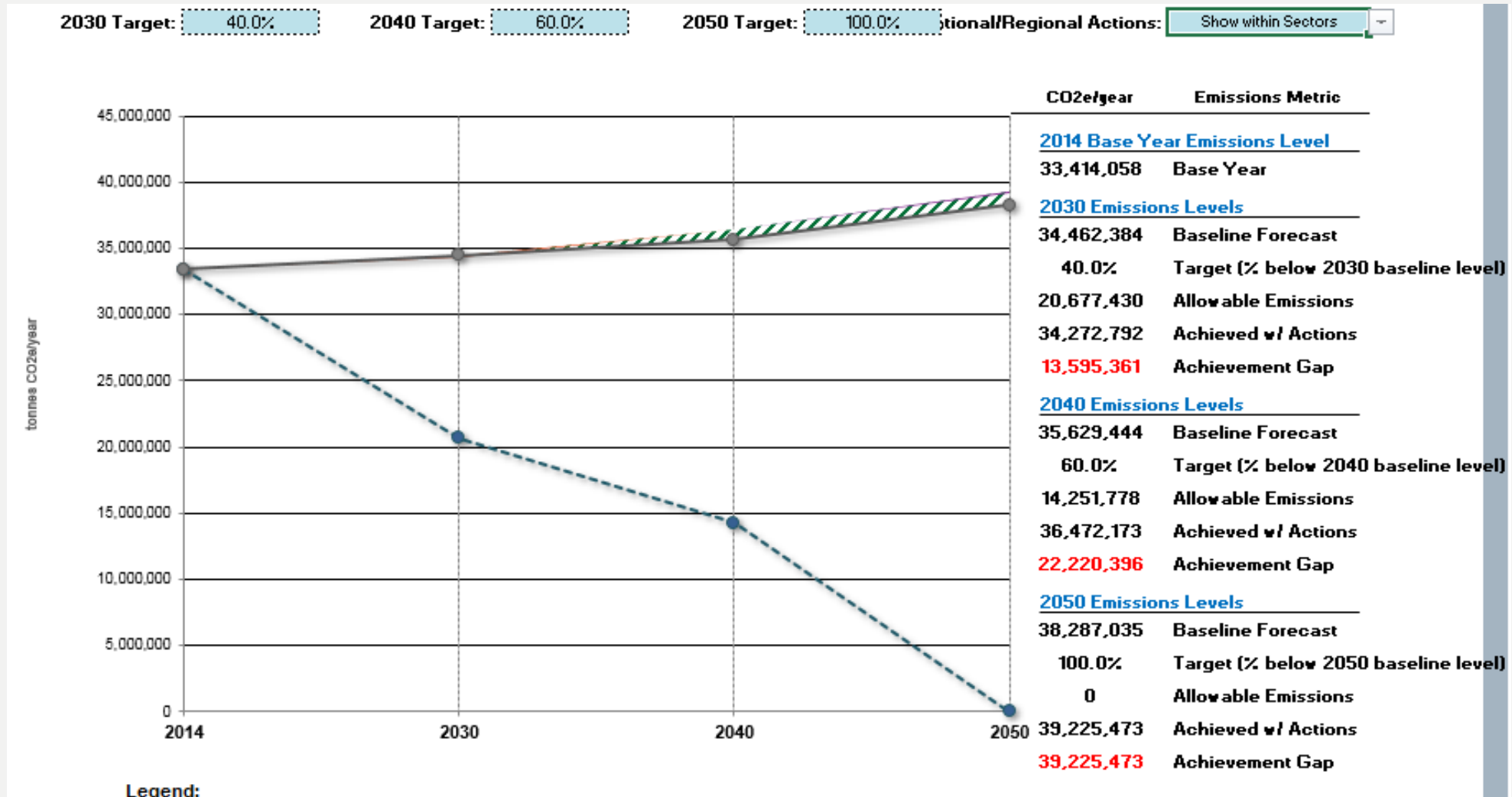


GHG EMISSIONS SOURCE (BY SECTOR)



# Goals of the Houston CAP

- **Goal:** Lay the foundation for actions that will make the City carbon-neutral by 2050.



# Climate Action Plan Technical Approach



# CURB

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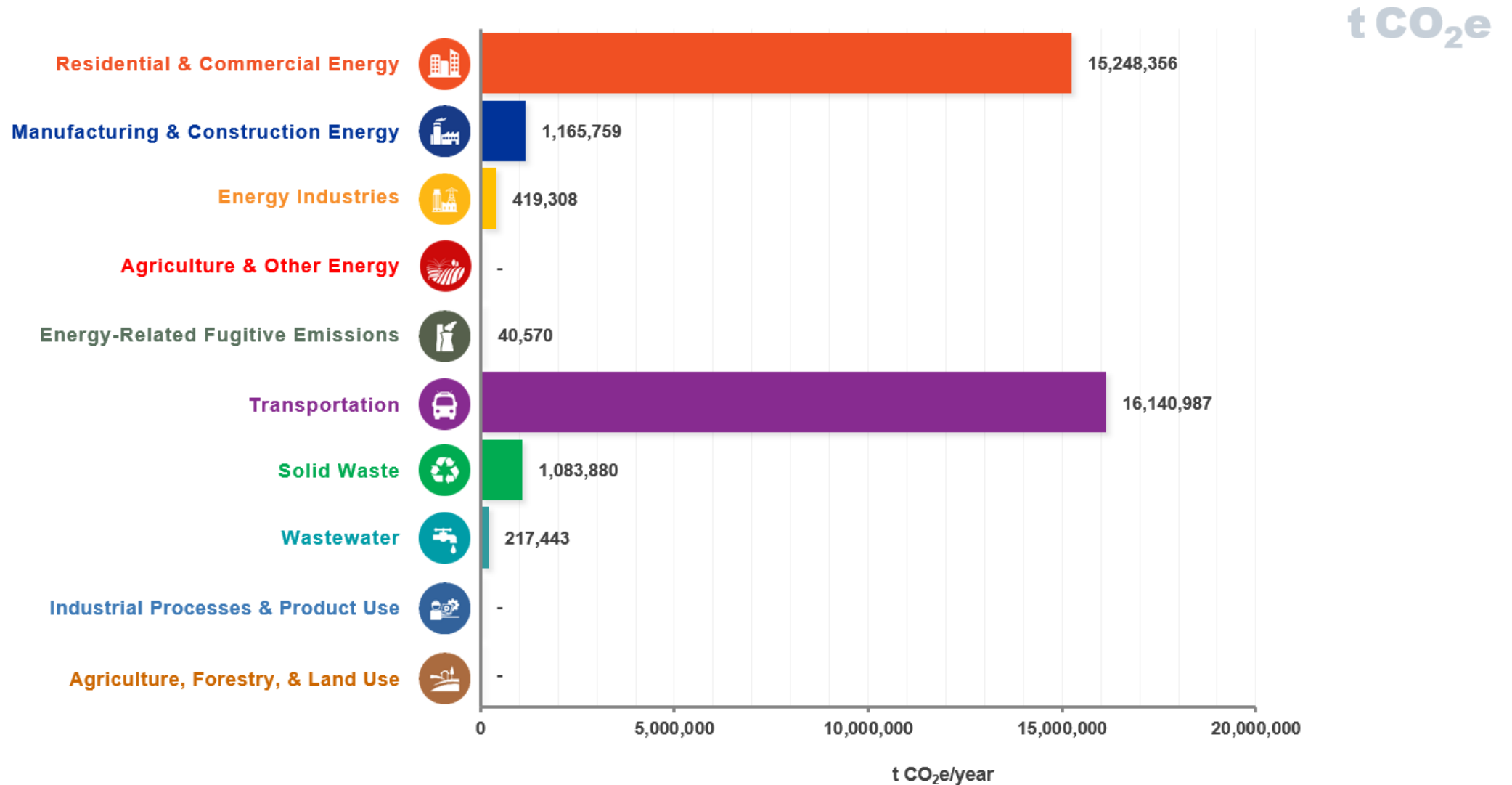
- Climate action for URBan sustainability (CURB) - scenario planning tool
- The CURB tool is a powerful data-driven scenario planning tool that helps cities make decisions about the future of their energy, transport and waste systems, which will ultimately result in higher greenhouse gas (GHG) emissions reductions.
- CURB helps to analyze the impacts of GHG mitigation initiatives in different scenarios.



# Base Year Inventory

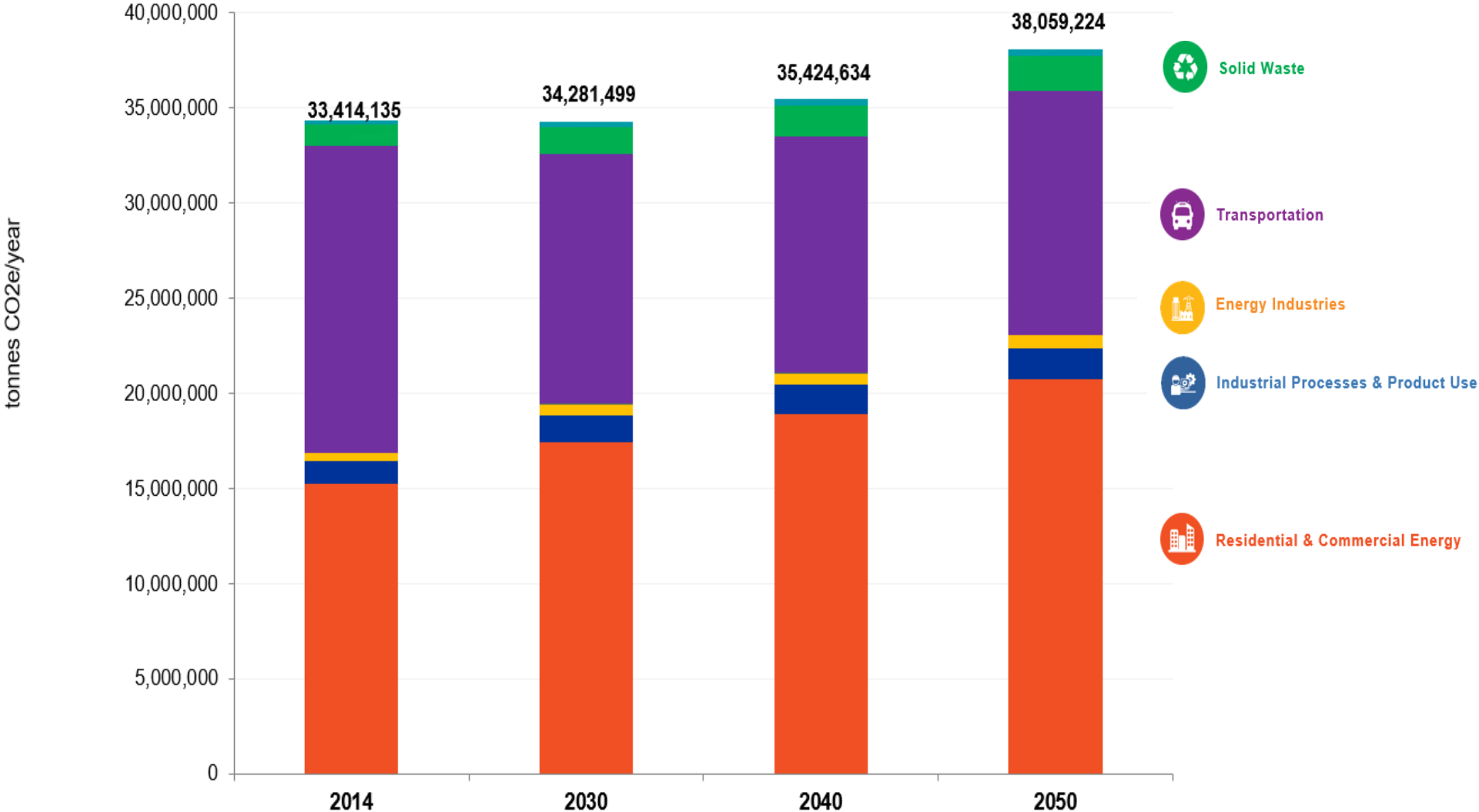
## 2014 Base Year Community Emissions by Sector

Note: Click on icons below for definitions of the emission sector or sub-sector.



# Emissions Projections

Community Emissions by Sector 2014 to 2050





# CAP Example Policies and Programs

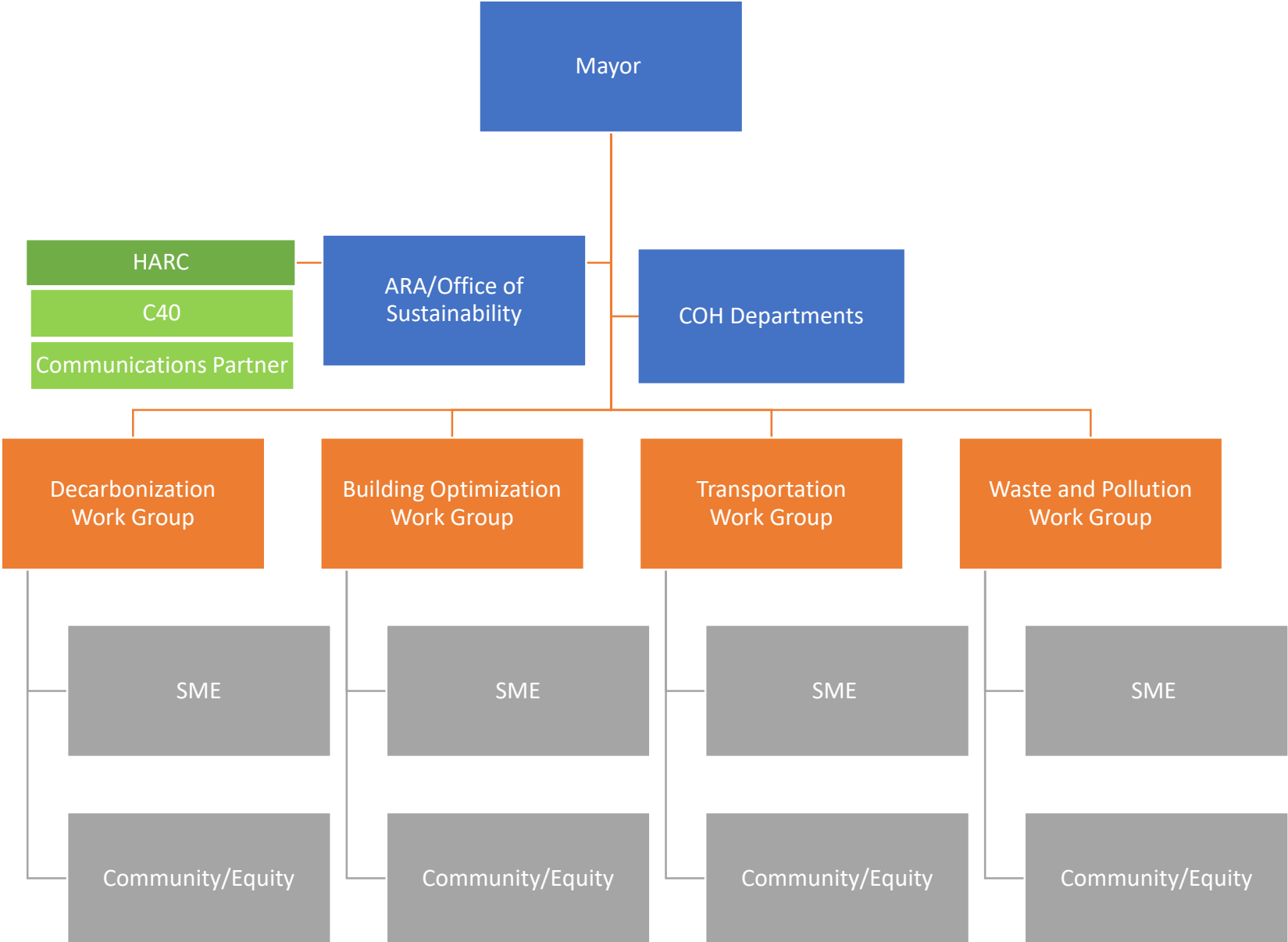
| Policy/Program  | Sector                                    | Sub-sector                 |
|---|---|----------------------------|
| Deploy City-wide EV charging network  | Transportation                            | Electric Personal Vehicles |
| Procurement of buses take into account air quality and GHG improvements of electric buses   | Transportation                            | Electric Buses             |
| Adjust parking fees (congestion pricing) or adjust availability of parking to reduce traffic congestion   | Transportation                            | Parking Management         |
| Ensure building codes are continually improved and updated over time  | Building Optimization                     | Codes                      |
| Develop voluntary building benchmarking and energy auditing program that complements utility incentive programs                                       | Building Optimization and Decarbonization | Clean Energy               |
| Expand single stream recycling program for Houston residents  | Waste                                     | Solid Waste                |
| Continuous improvement of building codes and permitting for solar + battery installations in residential and commercial properties; solar ready homes | Decarbonization                           | Renewable Energy           |
| Work with community partners to increase rate of tree planting  | Decarbonization                           | Green Infrastructure       |
| Implement residential and commercial water conservation program   | Building Optimization                     | Water                      |



# Climate Action Planning Structure



# Climate Action Planning: Organizational Structure

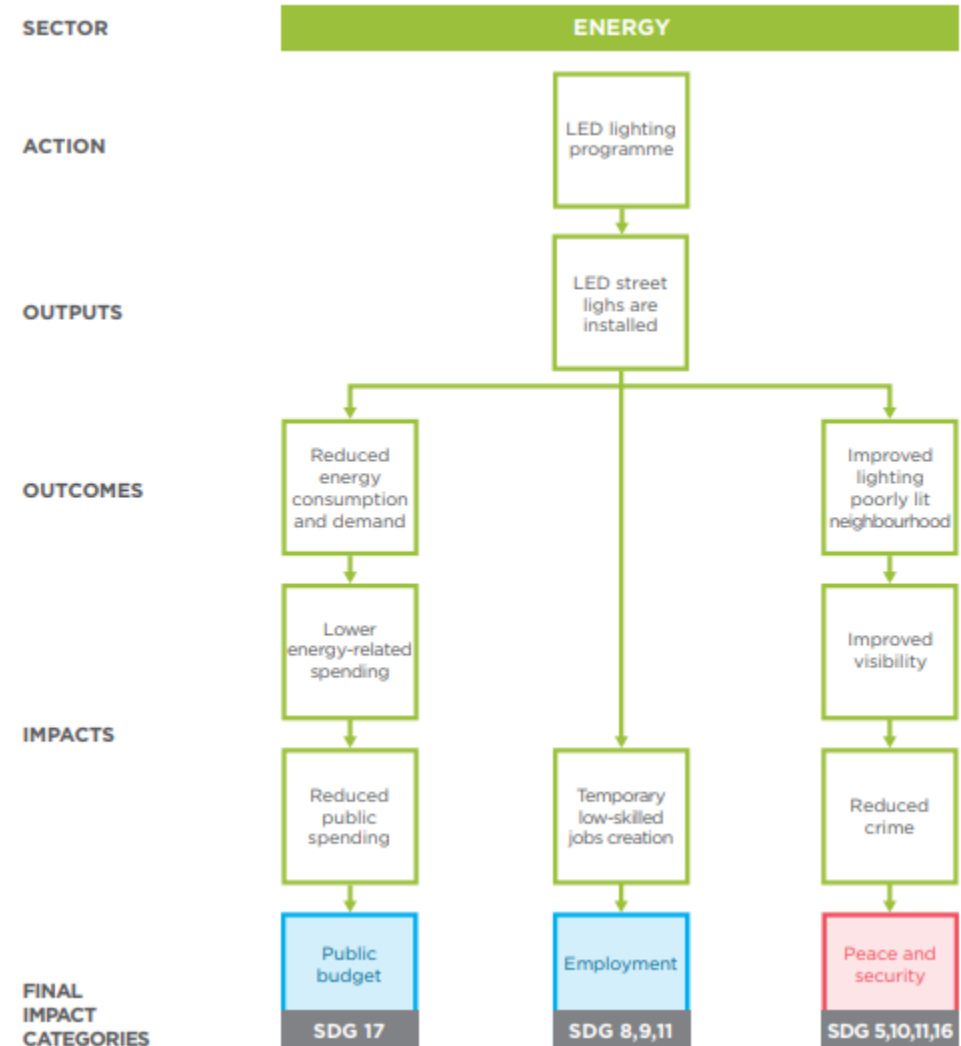


# Thinking Through Climate Action Planning

- This is an example used by C40 to help structure thinking around the Outputs, Outcomes and Impacts of each Action.
- An action is the policy/program in place that will lead to a GHG reduction

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Source: C40 Climate Actions Impact Framework



# Schedule



# Timeline

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# Program Schedule

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- February 18<sup>th</sup> – Working group leads convene sectors and begin work
- March 1<sup>st</sup> to May 6<sup>th</sup> – Working Group and Public meetings to identify and discuss CAP actions
- May 15<sup>th</sup> – Working group leads provides first set of recommendations to City



# Public Workshop Meetings

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- The City plans to hold four public workshop meetings.
- This does not preclude individual working group additional meetings.
- These workshops will bring all working groups together in a facilitated environment that will allow for community input via table top discussions.

## **Planned Meetings:**

- March 19<sup>th</sup> – 6:00 pm Sunnyside Multi-Service Center
- May 2<sup>nd</sup> – 6:00 pm Northeast Multi-Service Center

## **Other Meetings being set in the following locations during the months of March to May:**

- West Houston - Southwest Multi-Service Center
- East Houston - Magnolia Multi-Service Center or Denver Harbor
- North Houston – Acres Home Multi-Service Center
- Bonus – Metropolitan Multi-Service Center



# Thank you! Questions?

Contact Information:

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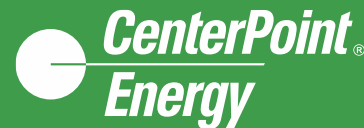
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Learn more:  
<http://bit.ly/Houston-CAP>



**HARC**

