



City of Houston Climate Action Plan

Working Group Lead Meeting
2/15/2019

What is a Climate Action Plan (CAP)?

- 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

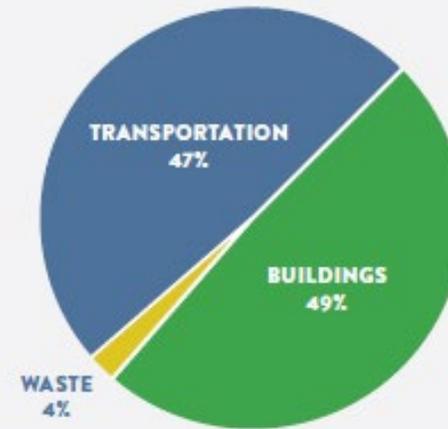


Houston Community Greenhouse Gas Emissions

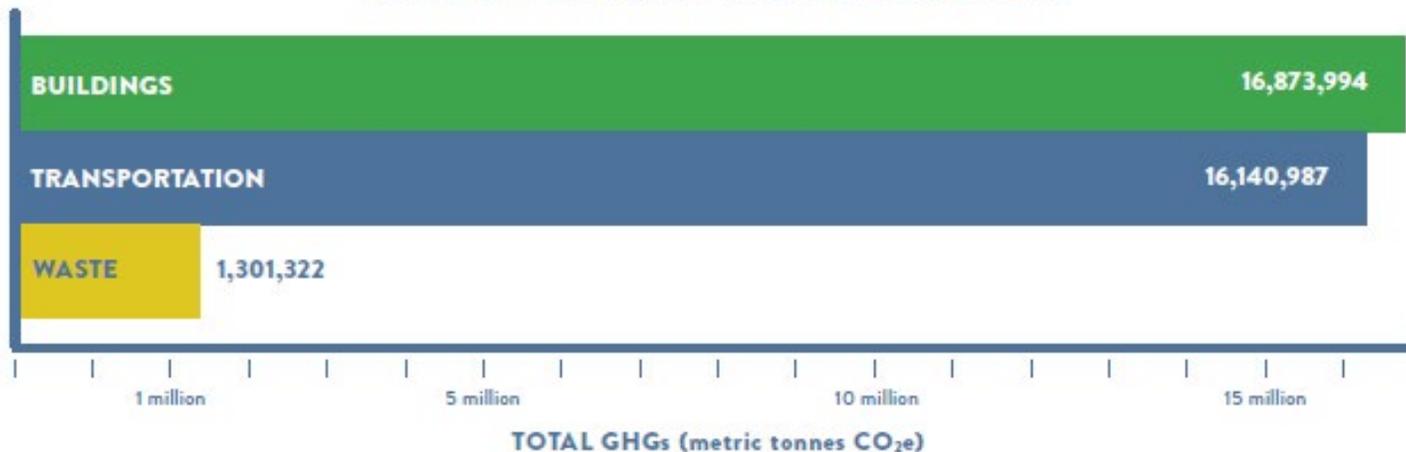
TOTAL ANNUAL EMISSIONS PER CAPITA
(Metric Tonnes CO₂e)



GREENHOUSE GAS EMISSIONS SOURCES
HOUSTON 2014

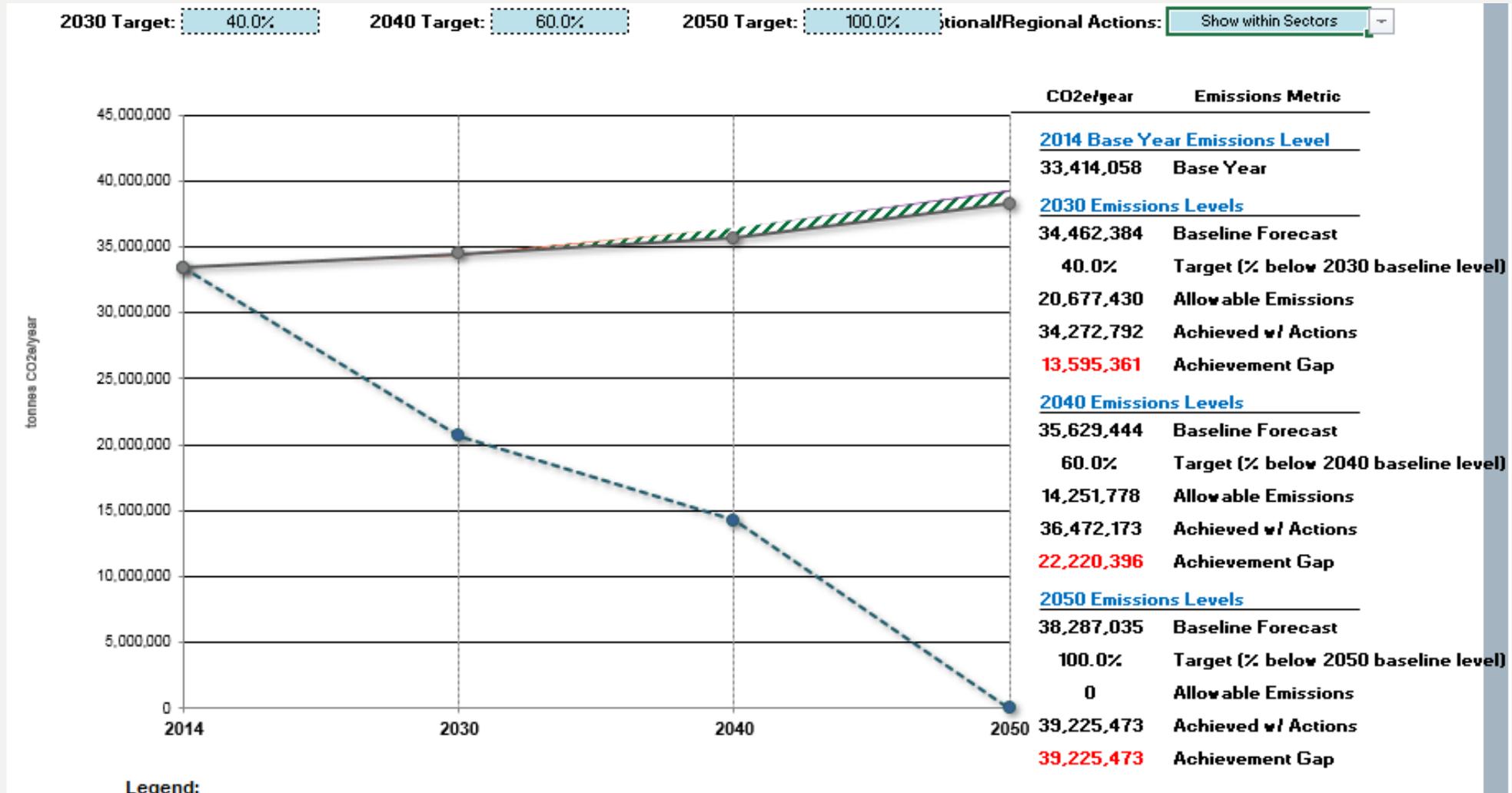


GHG EMISSIONS SOURCE (BY SECTOR)



Goals of the Houston CAP

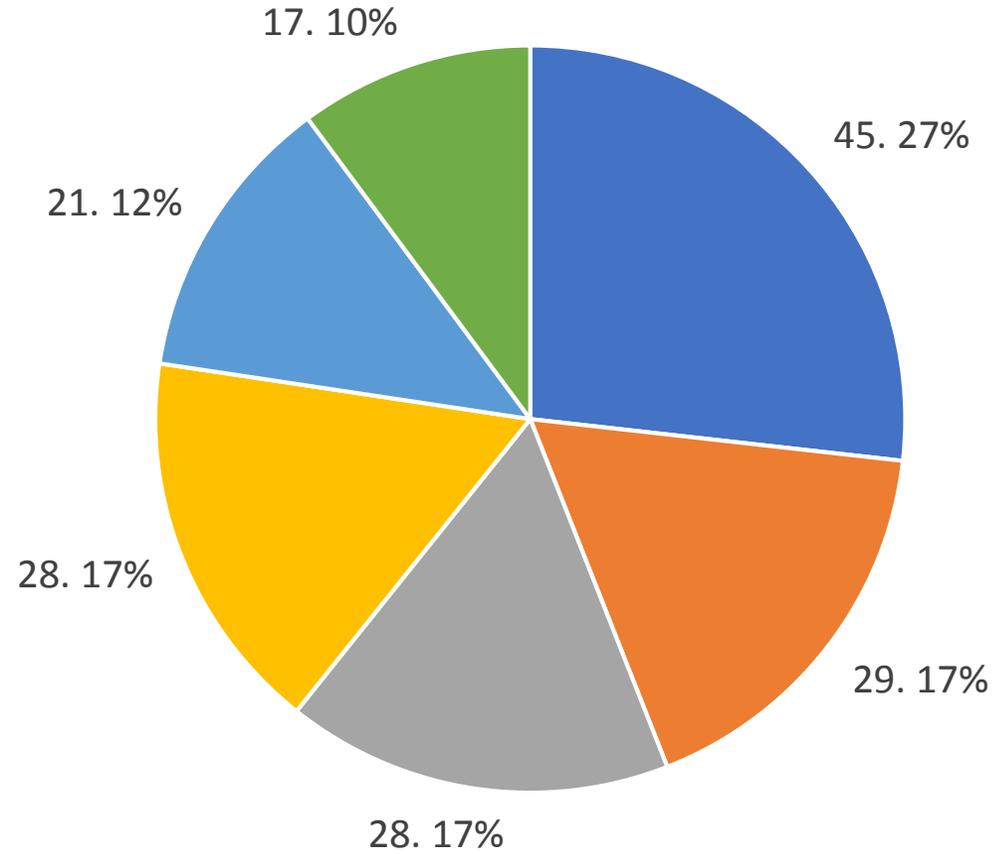
- **Goal:** Lay the foundation for actions that will make the City carbon-neutral by 2050.



Stakeholder Survey Results



Community Stakeholder Priorities



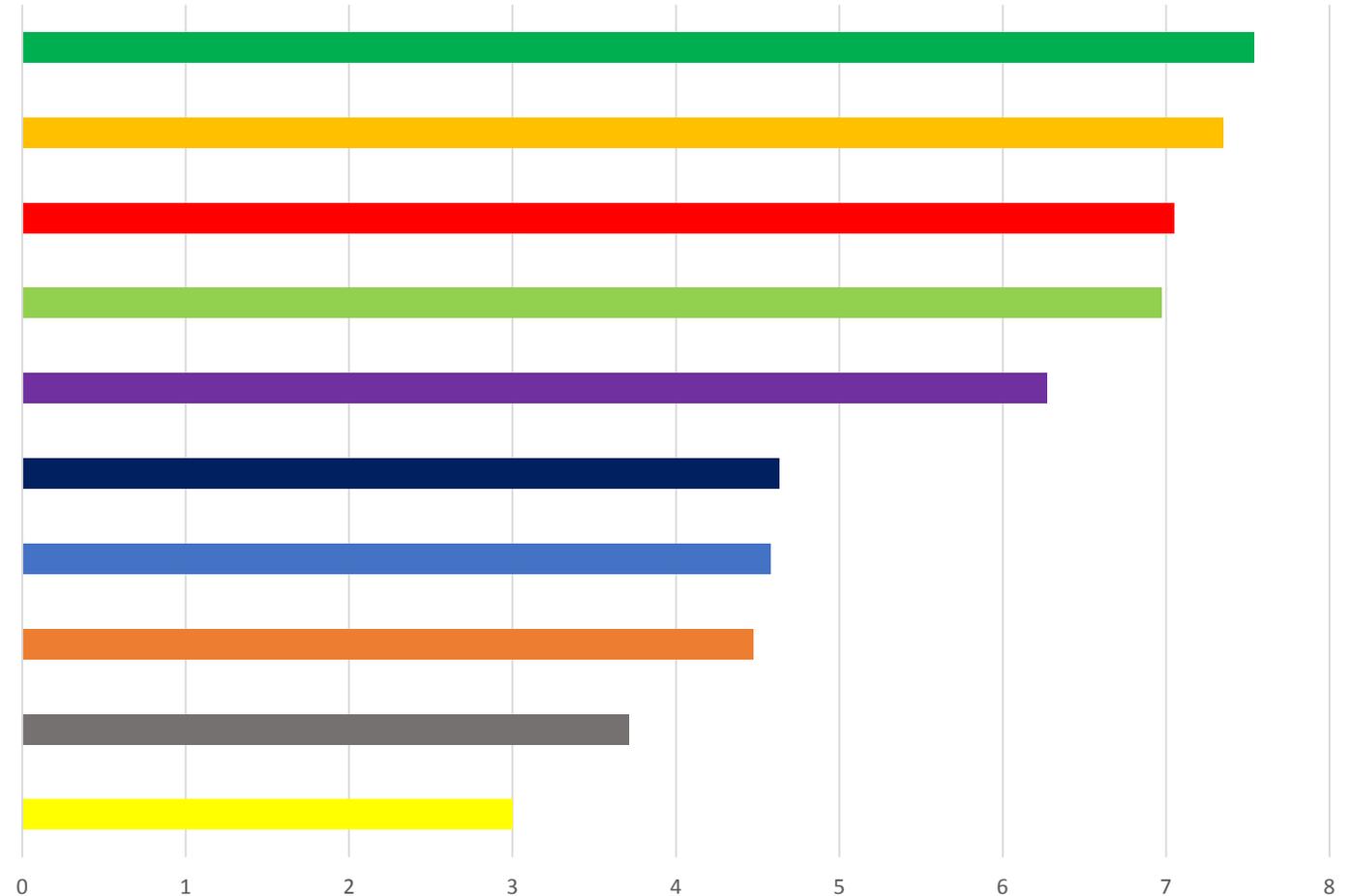
■ Transportation ■ Public Outreach ■ Decarbonization ■ Building Optimization ■ Equity ■ Pollution/Solid Waste ■

N = 93 Respondents from Stakeholder Survey



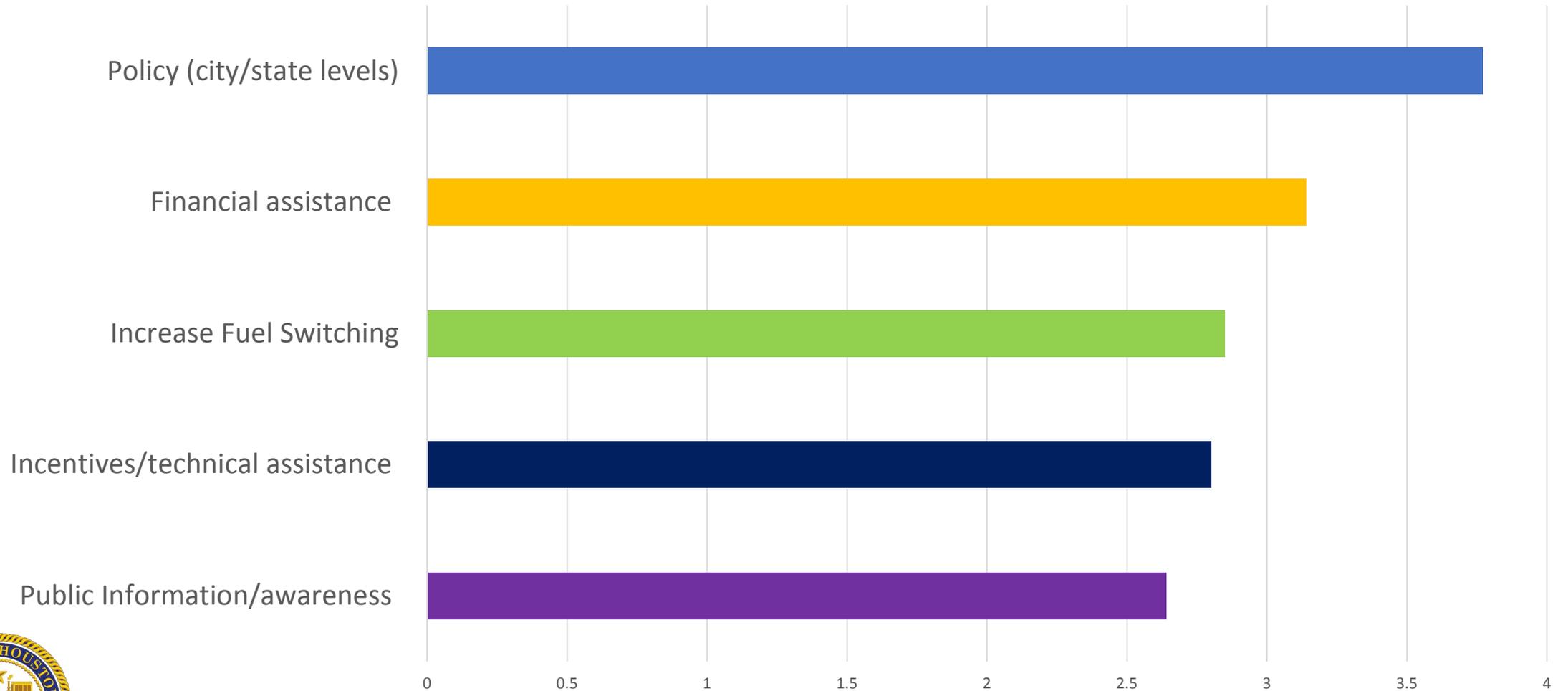
Stakeholder Ranking of Most Significant Measures

- Increased amount clean energy resources
- Community emission reductions
- Emission Reduction per Person
- Reduced Vehicle Miles Traveled (VMT)
- Increased number transit options
- Reduce Water Use
- Reduced Waste
- Increased green jobs
- Increased Affordable Housing
- More Local Food



N = 93 Respondents from Stakeholder Survey

Stakeholder Ranking of Effectiveness of Measures



N = 93 Respondents from Stakeholder Survey

Climate Action Plan Technical Approach



CURB

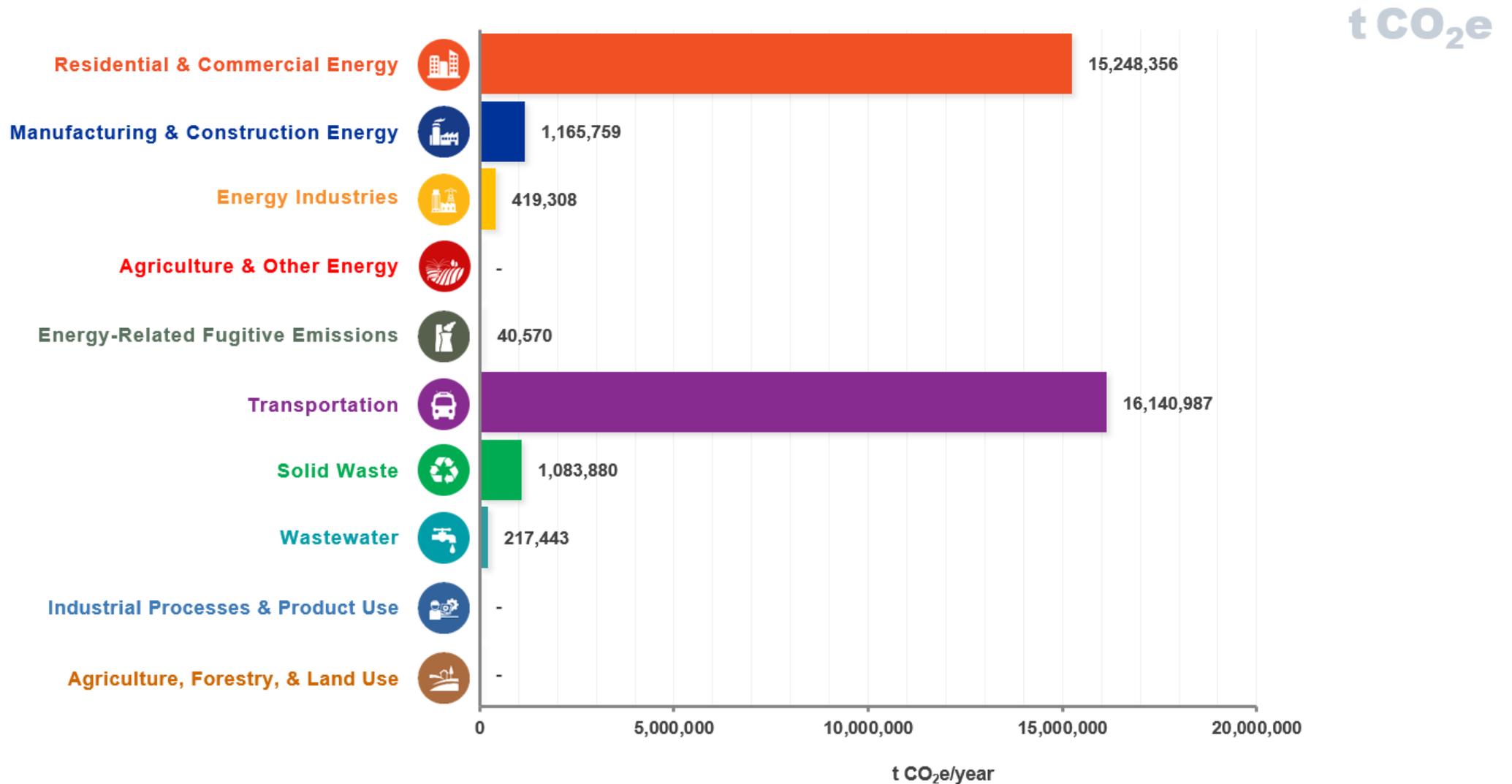
- Climate action for URBan sustainability (CURB) - scenario planning tool
- The CURB tool is a powerful data-driven scenario planning tool that helps cities make decisions about the future of their energy, transport and waste systems, which will ultimately result in higher greenhouse gas (GHG) emissions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



Base Year Inventory

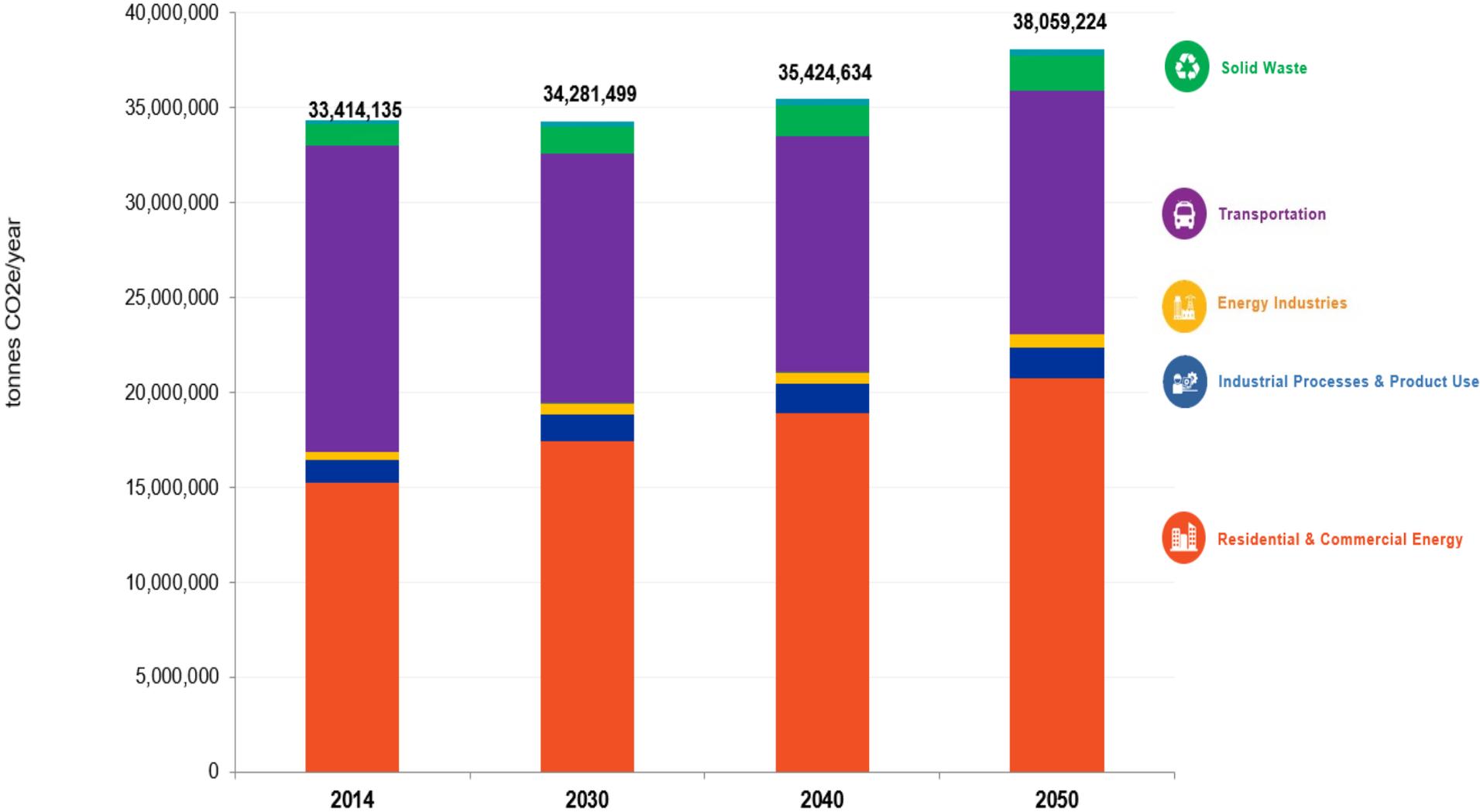
2014 Base Year Community Emissions by Sector

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

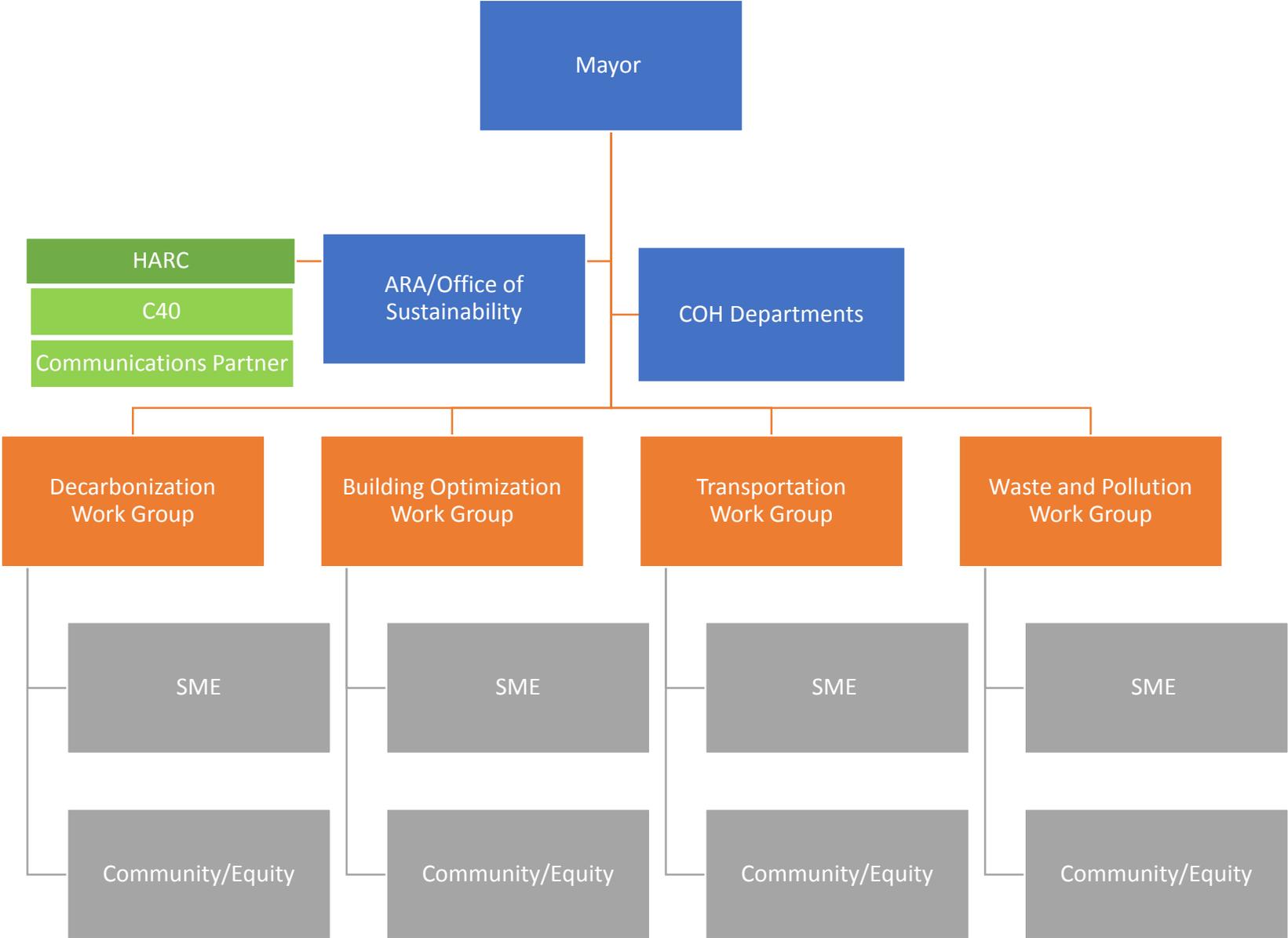
Policy/Program	Sector	Sub-sector
Deploy City-wide EV charging network	Transportation	Electric Personal Vehicles
Procurement of buses take into account air quality and GHG improvements of electric buses	Transportation	Electric Buses
Adjust parking fees (congestion pricing) or adjust availability of parking 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

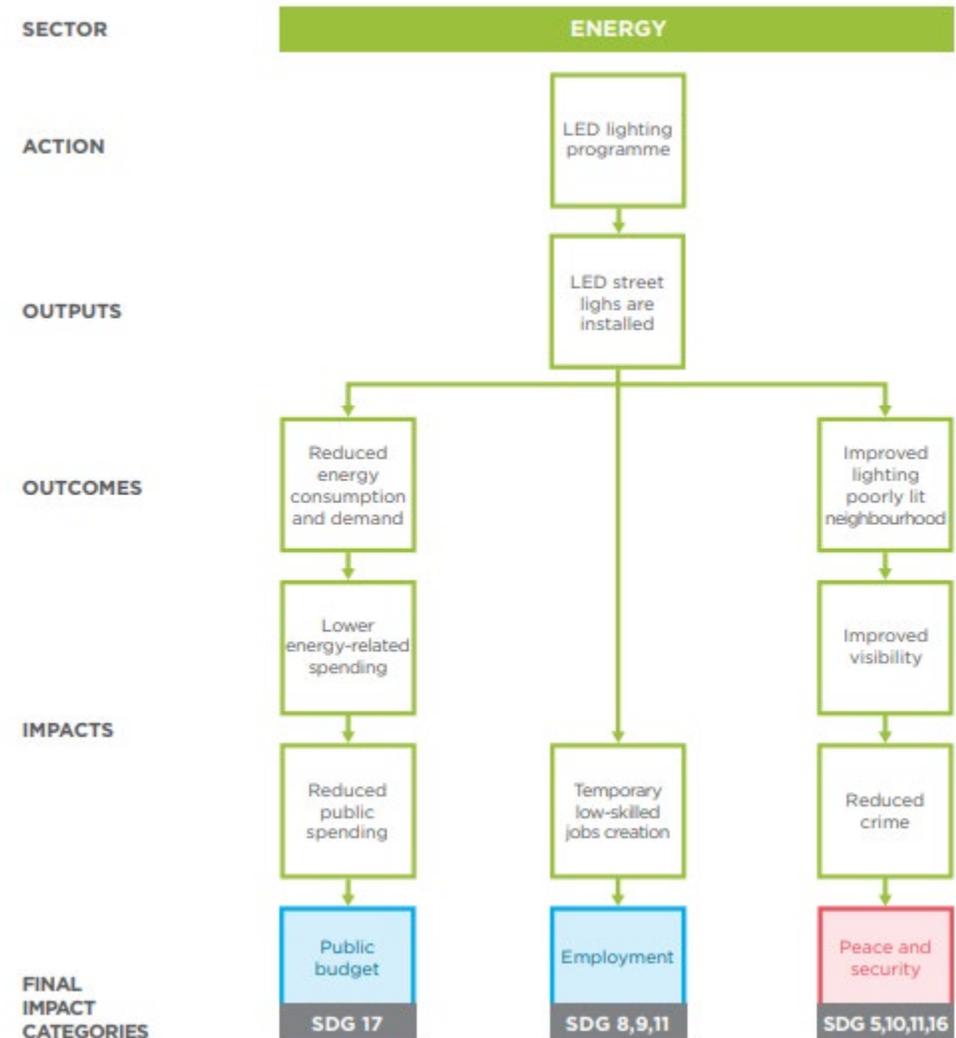


Thinking Through Climate Action Planning

- 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

Click to add text

Source: C40 Climate Actions Impact Framework



Schedule



Timeline



Program Schedule

- February 18th – Working group leads convene sectors and begin work
- March 1st to April 30th – Working Group and Public meetings to identify and discuss CAP actions
- May 1st – Working group leads provides first set of recommendations to City



Public Workshop Meetings

- 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.

Proposed Weeks :

- Week of March 4th
- Week of March 18th
- Week of April 1st
- Week of April 15th
- Bonus Week of April 29th

Locations dependent on date of availability:

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

Thank you! Questions?

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



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