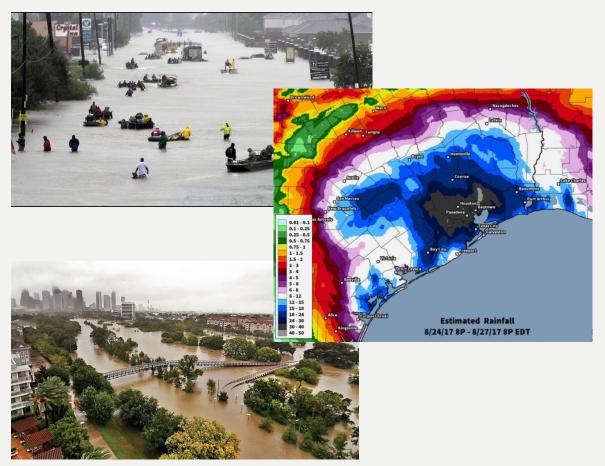


City of Houston Climate Action Plan

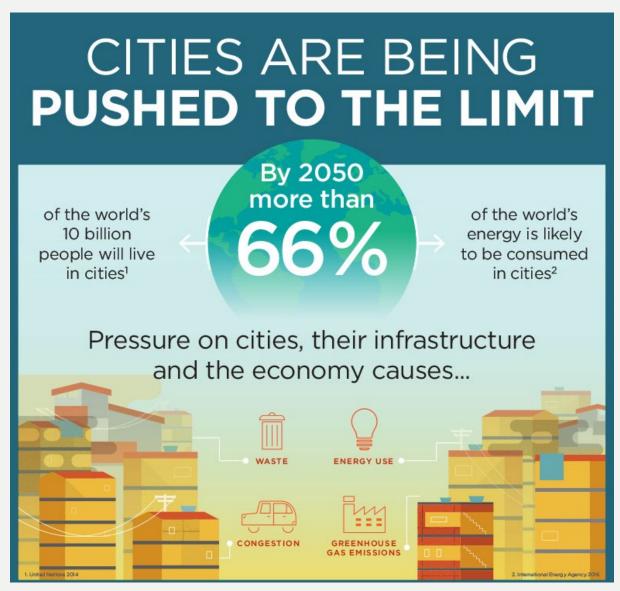
Mayor's Stakeholder Meeting 1/28/2019

Why Cities are taking Climate Action





Hurricane Harvey



Source: World Bank Group

Houston's Commitment to Climate Action



June 1, 2017: The U.S withdraws from the 2015 Paris Agreement

June 24, 2017: Mayor Turner, co-chair of Climate Mayors, commits to adopt Paris Agreement goals in Houston

407 US #ClimateMayors, representing 70 million Americans, have committed to adopt, honor and uphold the climate goals of the Paris Agreement

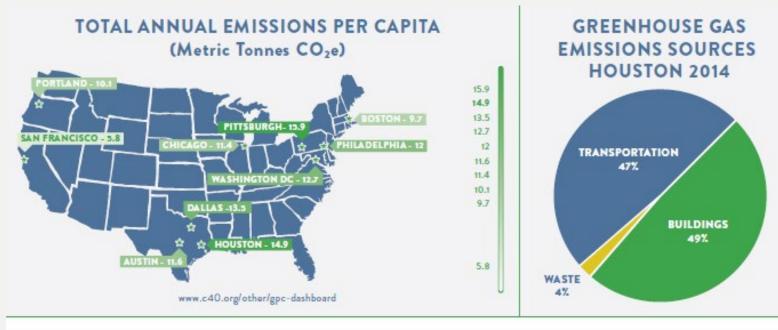


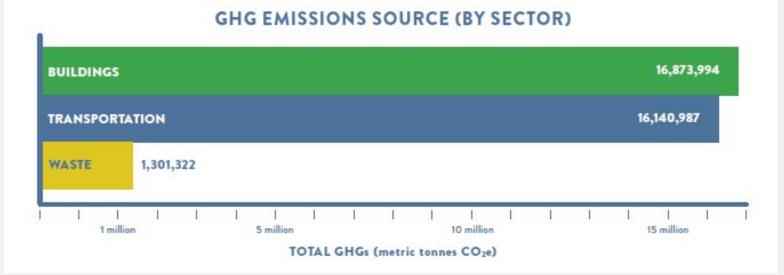






Houston Community Greenhouse Gas Emissions



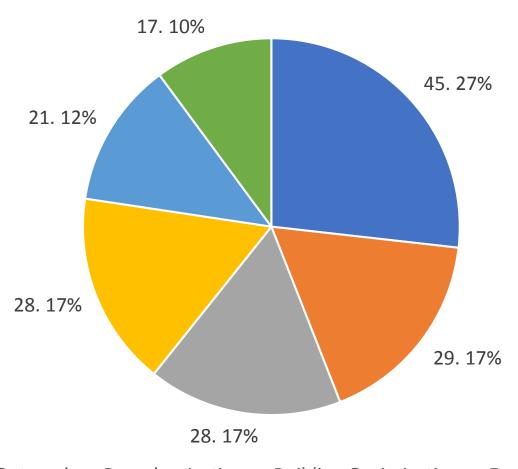




Stakeholder Survey Results

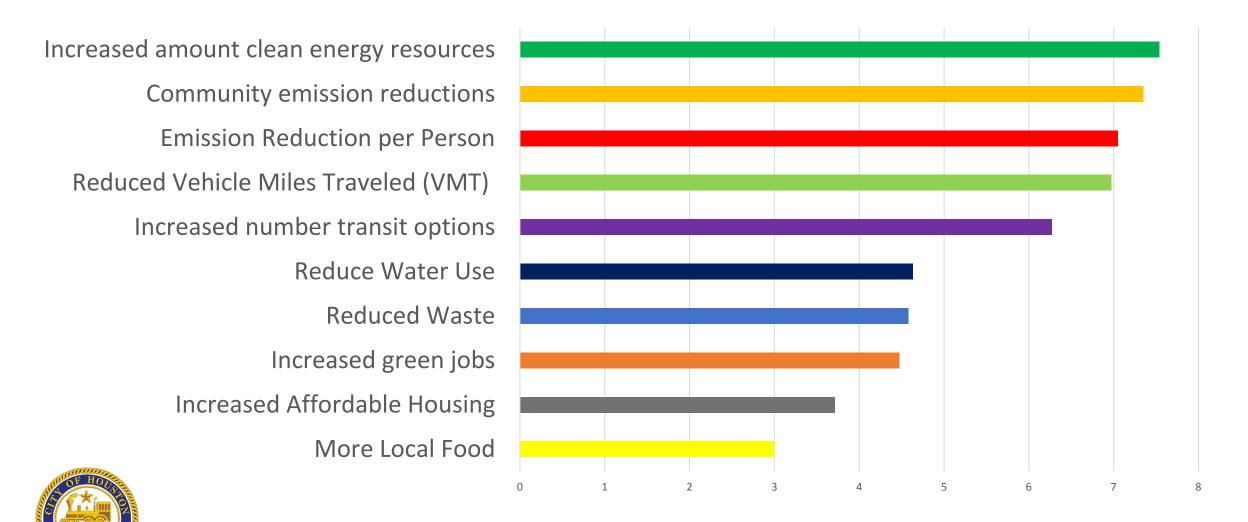


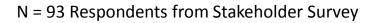
Community Stakeholder Priorities



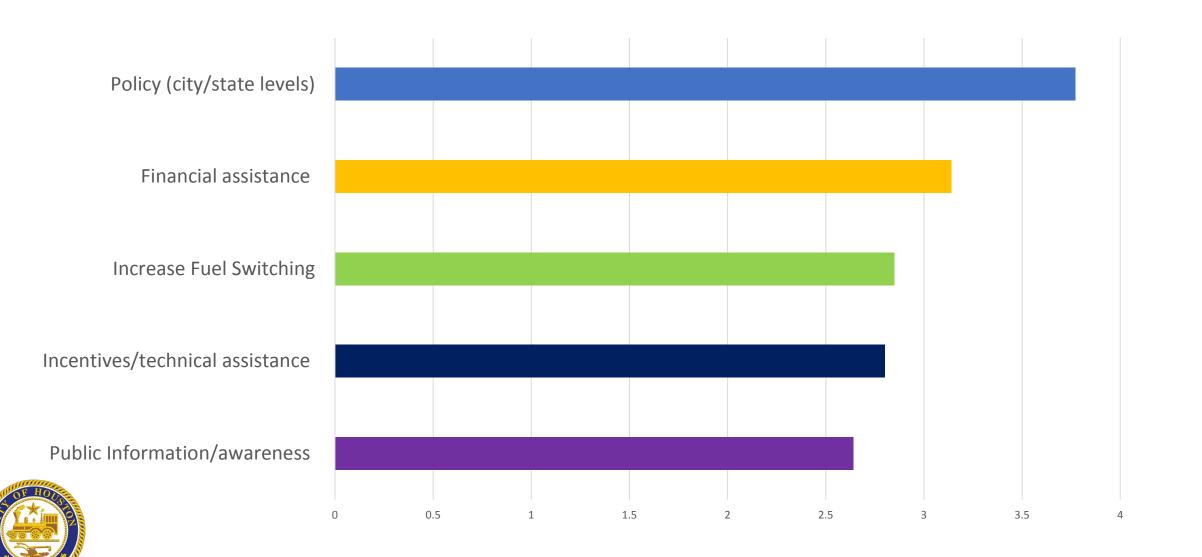


Stakeholder Ranking of Most Significant Measures





Stakeholder Ranking of Effectiveness of Measures



Climate Action Plan



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.

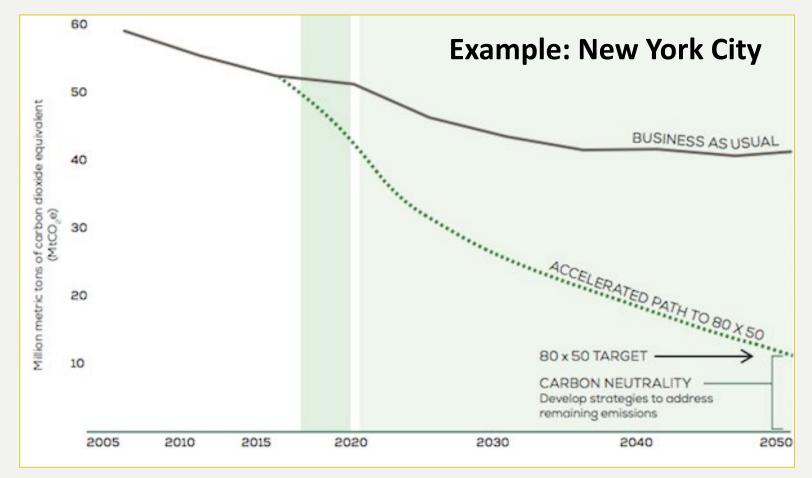
Objectives of plan are to:

- 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



Goals of the CAP

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





Leading by Example

Renewable Energy:

 The City is the largest municipal purchaser of renewable energy for city operations, receiving 92% of its power from renewable energy

• Building Optimization:

- Since 2004, the City has required all new buildings to be LEED Certified; currently have 37 LEED buildings
- Since 2007, the City has invested \$70 million in energy efficiency retrofits: 6 million square feet; achieving greenhouse gas emission reductions of 35%
- Converted ~175,000 streetlights to LED technology; reducing the City's streetlight energy usage by ~50%.

Transportation

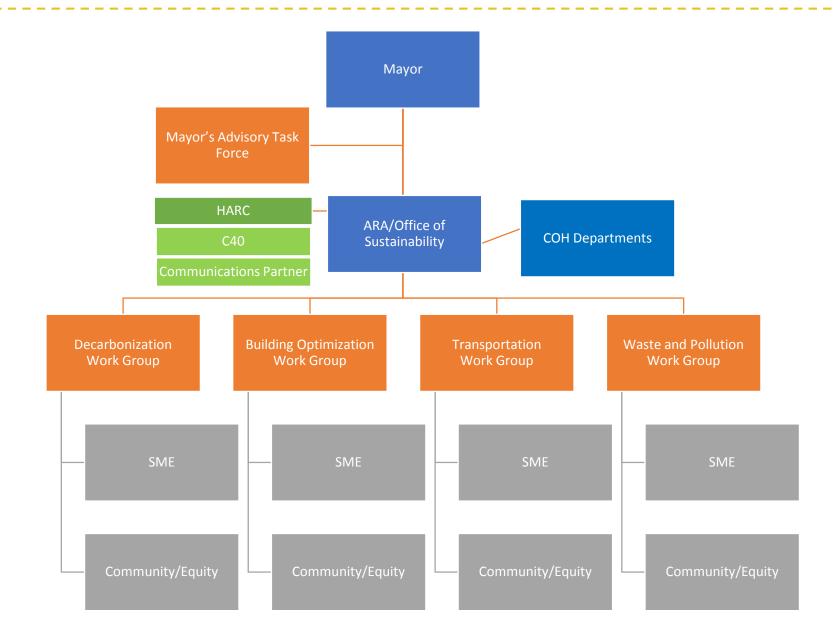
- 6.3% of the City's fleet is hybrid.
- Working to develop ambitious fleet electrification goals.



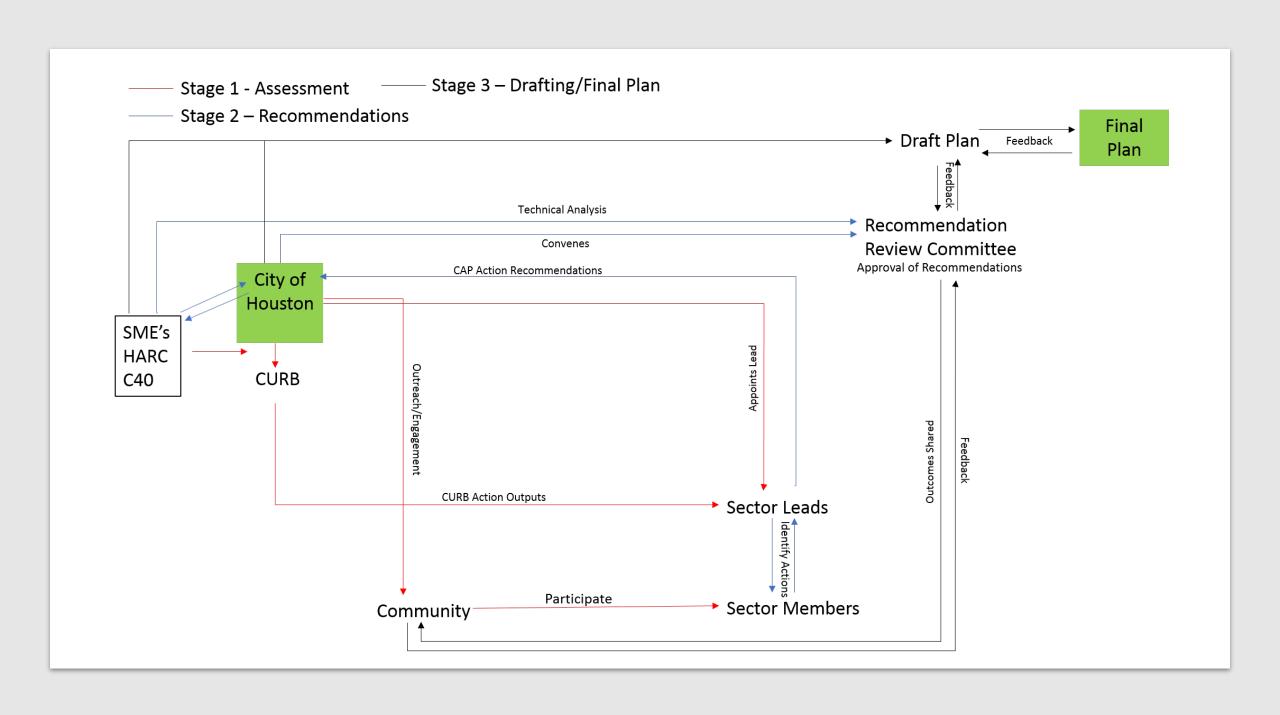
Climate Action Plan Structure and Process



Planning Organizational Structure







Climate Action Plan Technical Approach



Process for Plan Development



- Establish Plan Governance and Coordination
- Equitable Engagement and Communications







- Data Gathering
- Climate Risk Prioritization
- Evidence-Based
 Scenario Development





PRIORITIZE & IMPLEMENT

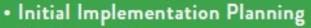






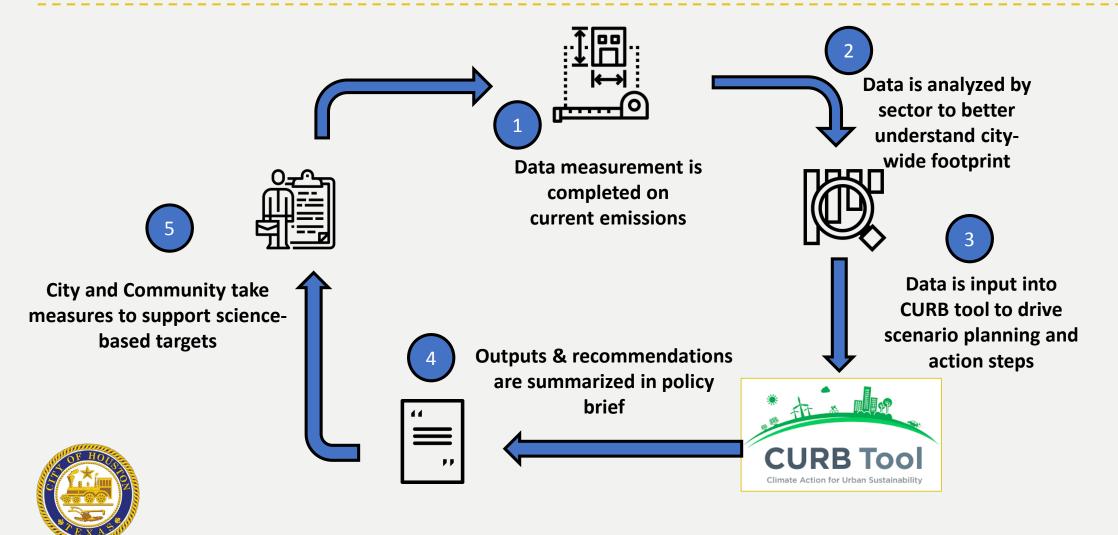






- Accelerate Actions
- Monitor, Evaluate and Revise

Using Scenario Planning to Drive Policy



Overview of CURB Model



 The CURB tool is an integrated model that measures GHG emissions among 6 different sectors



Private Building Energy



Municipal Buildings & Lighting



Electricity Generation



Solid Waste



Water & Wastewater



Transportation

- Model is data-driven and city-specific with 500+ data fields to complete
- CURB uses population growth, GDP growth or International Energy Agency's methodology to estimate future emissions



100+ cities have adopted the CURB model, allowing for comparability and benchmarking

Timeline

FALL 2018

PLAN

- Finalize baseline
- Stakeholder engagement and task force
- Kick-off workshops
- Governance and Communication

WINTER 2018

MODEL

- Preliminary modeling
- Scenario development
- Stakeholder engagement

SPRING-FALL 2019

ENGAGE

- Stakeholder dialogue
- Community town halls
- Incorporate feedback
- Draft CAP plan

WINTER 2019

COMPLETE

- Stakeholder plan review
- Stakeholder meetings
- Mayor approval

SPRING 2020

IMPLEMENT

 City and Community action



Thank you! Questions?

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