LAUNCH – APRIL 22, 2020

HOUSTON CLIMATE ACTION PLAN

Climate Action Plan is vital first step

Energy capital of the world must lead way in fight to reduce greenhouse gas emissions.

City climate plan enlists oil firms, residents in aim for carbon neutrality by 2060

Join us for a series of conversations about Houston’s Climate Action Plan! Learn how you can help!
BACKGROUND
Globally -- Houston is one of C40 96 “Mega-cities” committed to global climate action

Nationally -- 481 Climate Mayors represent nearly 20% of the U.S. population

Texas -- Dallas, Austin, San Antonio, and Houston are all launching climate action plans
CLIMATE IN HOUSTON

2015 Memorial Day Flood, 2016 Tax Day Flood, 2017 Hurricane Harvey, 2018 4th of July Flood, 2019 Tropical Storm Imelda, 2020...

Low vs High Emission Climate Projections:

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<thead>
<tr>
<th></th>
<th>1970-1990</th>
<th>2050</th>
<th>2100</th>
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<tbody>
<tr>
<td>High Temp</td>
<td>99</td>
<td>104 - 106</td>
<td>104 - 109</td>
</tr>
<tr>
<td>Days above 100</td>
<td>1 day</td>
<td>12-23 days</td>
<td>14-54 days</td>
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<tr>
<td>Nights above 80</td>
<td>.6 nights</td>
<td>20-50 nights</td>
<td>30-96 nights</td>
</tr>
<tr>
<td>Heat Wave Length</td>
<td>2.5 days</td>
<td>15 – 27 days</td>
<td>19 – 47 days</td>
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<tr>
<td>Annual Rain Fall</td>
<td>Average remains the same, but extremes range from 5 to 100 inches</td>
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BASELINE EMISSIONS
HOUSTON CLIMATE ACTION PLAN
A science-based, community-driven strategy for Houston to reduce greenhouse gas (ghg) emissions, meet the Paris Agreement goal of carbon neutrality by 2050, and lead a global energy transition.

12 goals, 12 targets, 36 strategies, and 96 actions

**COMMUNITY BENEFITS:**

- Advance mobility and transportation safety
- Improve air quality
- Reduce energy costs
- Address environmental justice concerns
- Create more resilient, equitable communities
- Spur regional economic growth
Update Schedule:

- GHG inventory updated annually
- CAP updated every 4-5 years
- Resilient Houston KPI Dashboard
• Complementary Initiatives
• +30 stakeholder meetings
• 25 working group meetings
• 500+ one-on-ones
• 700+ comments from 400 individuals and organizations
CARBON NEUTRAL BY 2050

INTERIM TARGETS:

- 2030: 40%
- 2040: 75%
- 2050: 100%

MODELING EMISSIONS REDUCTION POTENTIAL OF CAP ACTIONS

*Base Year = Measured
TRANSPORTATION

GOAL 1 Shift Regional Fleet to Electric and Low-Emission Vehicles.

GOAL 2 Reduce Vehicle Miles Traveled (VMT) Per Capita.

GOAL 3 Provide Equitable and Safe Mobility Choices.
ENERGY TRANSITION

**GOAL 1** Grow Houston’s Investment in Renewable and Resilient Energy Systems.

**GOAL 2** Make Houston the Leader in Carbon Capture Technology and Energy Innovation.

**GOAL 3** Restore, Protect, and Enhance Houston’s Natural Ability to Capture and Store Carbon.
BUILDING OPTIMIZATION

GOAL 1 Reduce Building Energy Use and Maximize Savings.

GOAL 2 Expand Investment in Energy Efficiency.

GOAL 3 Invest in Skilled Local Jobs to Optimize Building Operations.
MATERIALS MANAGEMENT

GOAL 1  Reduce Waste and Transform the Circular Economy.


GOAL 3  Ensure Safe and Cost-Effective Long-Term Disposal Capacity.
IMPLEMENTATION
• bp partnership
• METRONext
• Walkable Places Ordinance
• 100% Renewable Energy
• Community EV Charging
• 4.6 million native trees
• 50 Energy 2.0 Companies
• Electrify City Fleet Vehicles
• Double the number of Clean Energy Projects via PACE
Establish a Climate Action Plan (CAP) Sec. 2-523:
• Require the city to establish, adopt, implement, and regularly update a CAP (at least every 5 years) and greenhouse gas (GHG) inventory (at least 4 years)

Establish an Official Office of Sustainability Sec. 2-521. That will
• Coordinate city-wide ghg emissions, climate, energy, and sustainability reporting,
• Educate the public and private sectors regarding best practices to reduce ghg emissions from building, energy, transportation, and materials management activities
• Develop policies and procedures to guide city departments in implementing the CAP and reducing municipal ghg emissions
• Establish an open, inclusive, public process for engaging the diverse ethnic, cultural, and economic communities in the development, implementation and update of the CAP

Departmental Requirements Sec. 2-526:
• Require city departments to designate a sustainability liaison and coordinate with the Sustainability Office on emission reduction programs and the CAP
QUESTIONS?

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THANK YOU!

Learn more:
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