



SA CLIMATE READY

Climate Action & Adaptation Plan Update

Presented by: Douglas Melnick, AICP, ISSP-SA, CNU-A
Special Meeting
April 8, 2021
Item #1

Our Goals for Today

- Review San Antonio's climate goals and projected impacts
- Review 2019 Greenhouse Gas Inventory results
- Review 2021 SA Climate Ready and Sustainability priorities

Paris Climate Agreement

On June 22, 2017, City Council passed Resolution No. 2017-06-22-0031R in support of the Paris Climate Agreement, directing city staff to develop a plan to help San Antonio meet the objectives of this agreement.

After extensive public input, City Council adopted the SA Climate Ready Plan by Ordinance 2019-10-17-0840 on October 17, 2019.

President Biden rejoined the accord on January 20, 2021.



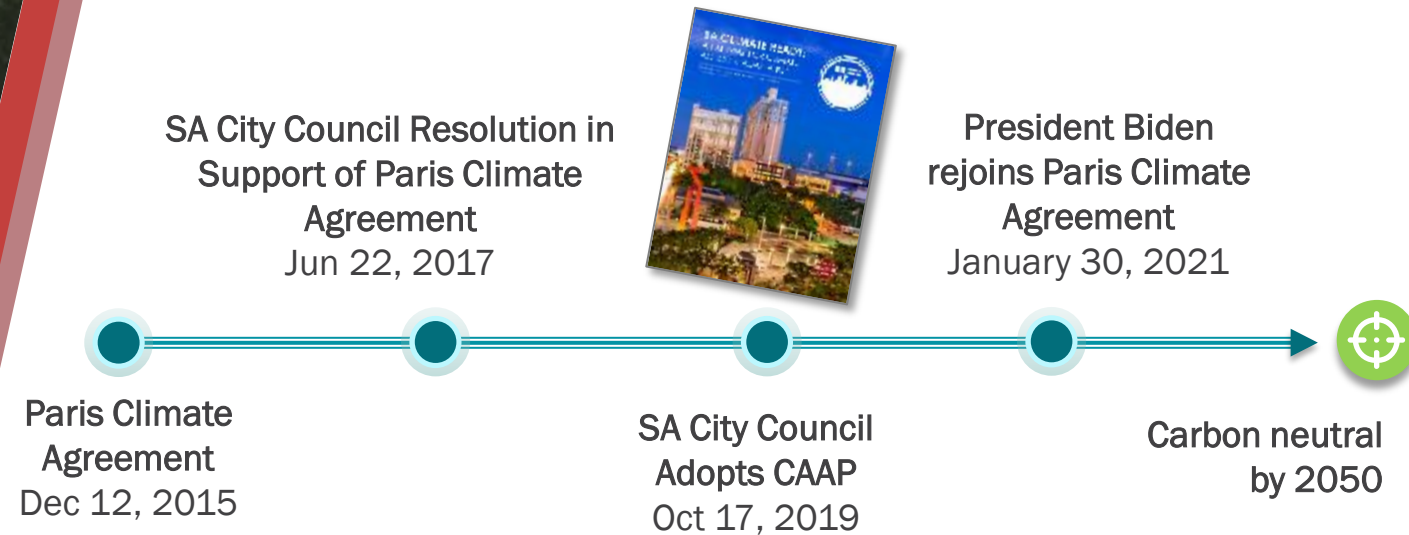
United Nations
Climate Change

Office of Sustainability



CoSA's Commitments

- Climate equity
- Carbon neutral by 2050
- Climate adaptation
- Reporting requirements



SA Climate Ready Initiatives



PASSED



Property Assessed Clean Energy (PACE)

LAUNCHED



Mayor's Youth Climate Council

COMPLETED



Share the Streets Pilot Project

LAUNCHED



SA Climate Ready Communications Initiative

ONGOING



Electric Vehicle Programs

ONGOING

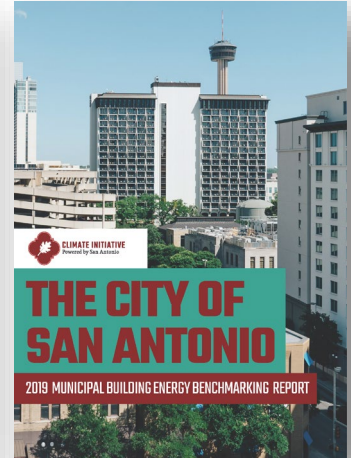


All-CoSA Staff Climate Training

LAUNCHED



Climate Advisory Committees Established



SA Sustainability Dashboard
sasustainability.com

SA Climate Ready Advisory Committees



Quarterly Advisory Committee Meetings

Kick-off Orientation Meeting

✓ November 17, 2020

Climate Equity Advisory Committee

✓ March 2, 2021

Tech & Community Advisory Committee

✓ March 3, 2021

Climate Change 101

Webinar with Dr. Andrew Dessler

✓ January 11, 2021

Racial Equity Trainings

Historical Truths Unveiled: An Intro to Racism in the U.S.

✓ January 16 & 23, 2021

Examining Power and Its Impact

✓ February 2 & 9, 2021

Race Equity Impact Assessment Tool

✓ February 24 & March 30, 2021

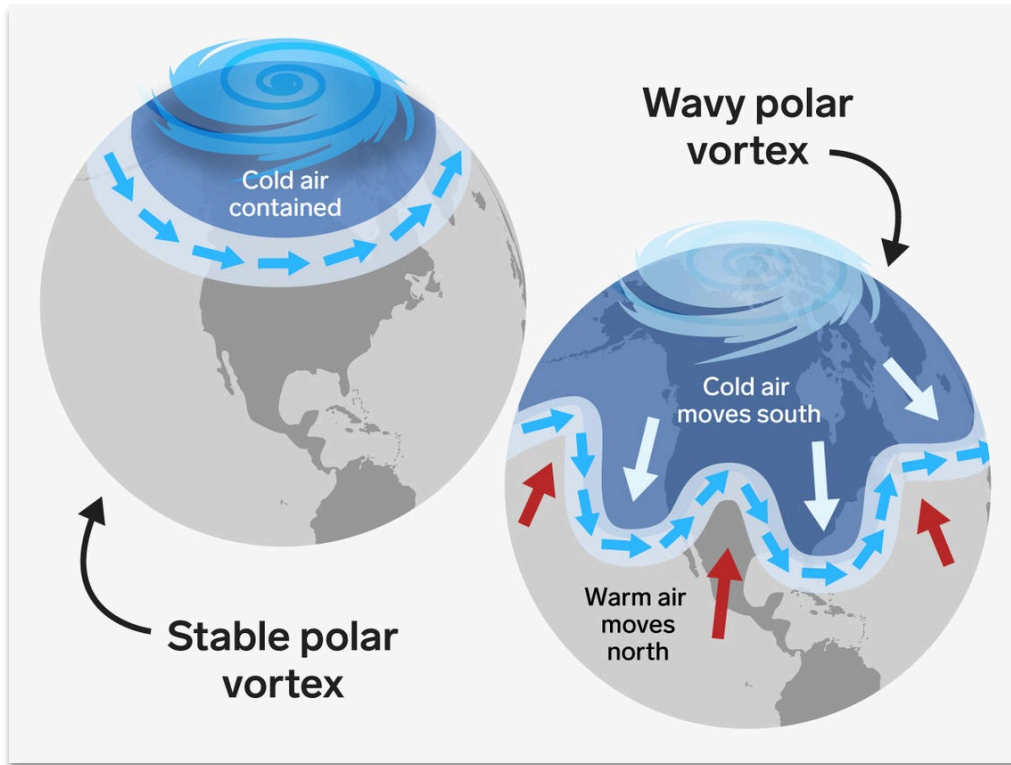
Special Meeting

- 2019 Greenhouse Gas Inventory
- Cost-Benefit Analysis
- Priority Projects & Policies
- Chair & Vice-Chair Selection
- Meeting Frequency
 - April 26, 2021

Subcommittees

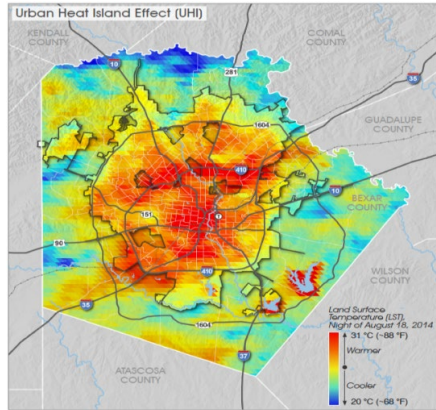
- Communications & Engagement
- Data & Indicators
- Climate Equity Screening Tool & Best Practices

Climate Projections

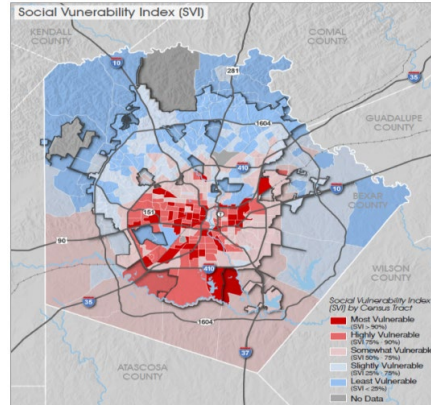


San Antonio End of Century	Low Emissions Pathway	High Emissions Pathway
Summer Maximum Temperature	+ 6° F	+ 10° F
Hot Days (Maximum Temperature >100° F)	+ 48 days	+ 94 days
Warm Nights (Minimum Temperature >80° F)	+ 10 nights	+ 55 nights
Annual Precipitation	- 3 inches	- 4 inches
+ Increased flooding + Increased extreme storms + Increased cold weather events		

Climate Impacts, Adaptation + Equity



Urban Heat Island
Effect (UHI)



Social Vulnerability
Index (SVI)

Priority Communities

- Communities of color
- Low-income communities
- Seniors
- People with disabilities

- ↑ Vulnerability to heat-related illnesses, respiratory illnesses, or vector borne diseases
- ↑ Exposure to GHGs emissions and environmental pollution
- ↑ Risks from extreme cold and impacts on housing lacking adequate weatherization
- ↑ Higher utility bills
- ↑ Negative impacts on transportation infrastructure resulting in reduced mobility choices
- ↑ Compounded environmental and economic stresses

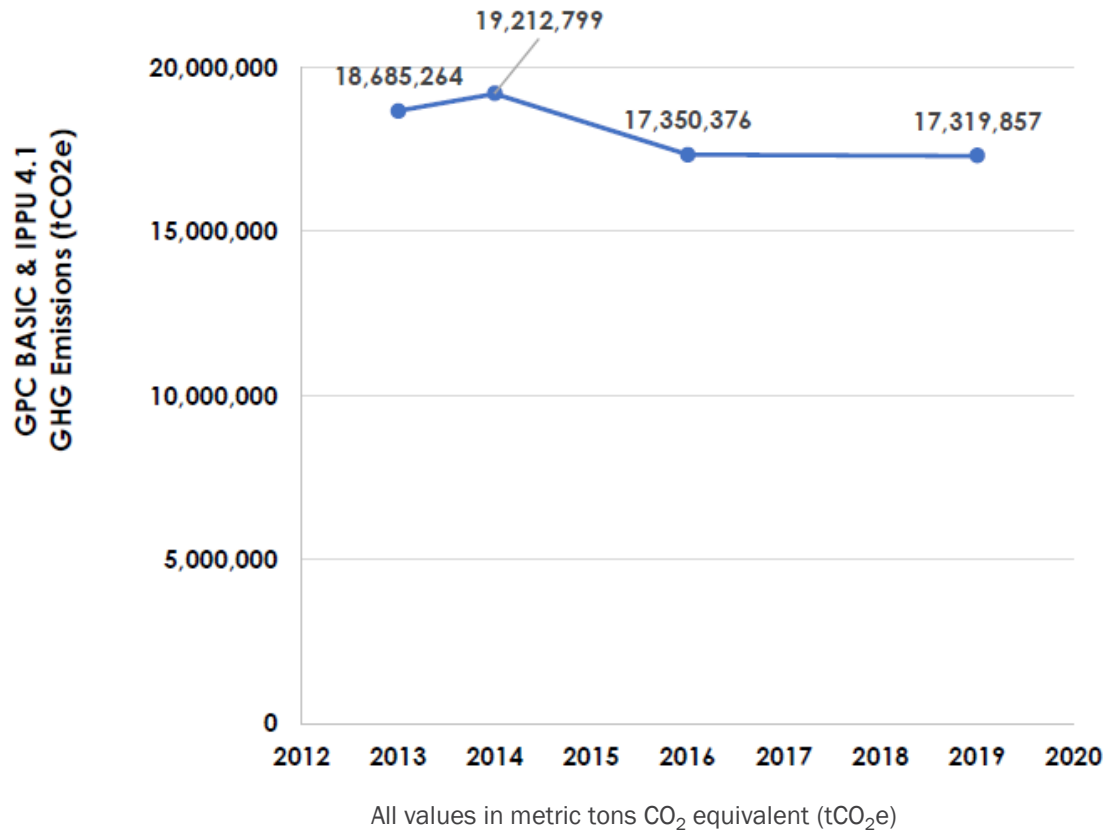
San Antonio 2019 GHG Emissions Inventory



Total Community Emissions



Historic San Antonio Community
GHG Emissions



Between 2016 and 2019,
total GHG emissions

decreased 0.2%



Population increased 4%



Total building energy consumed increased



Transportation emissions increased

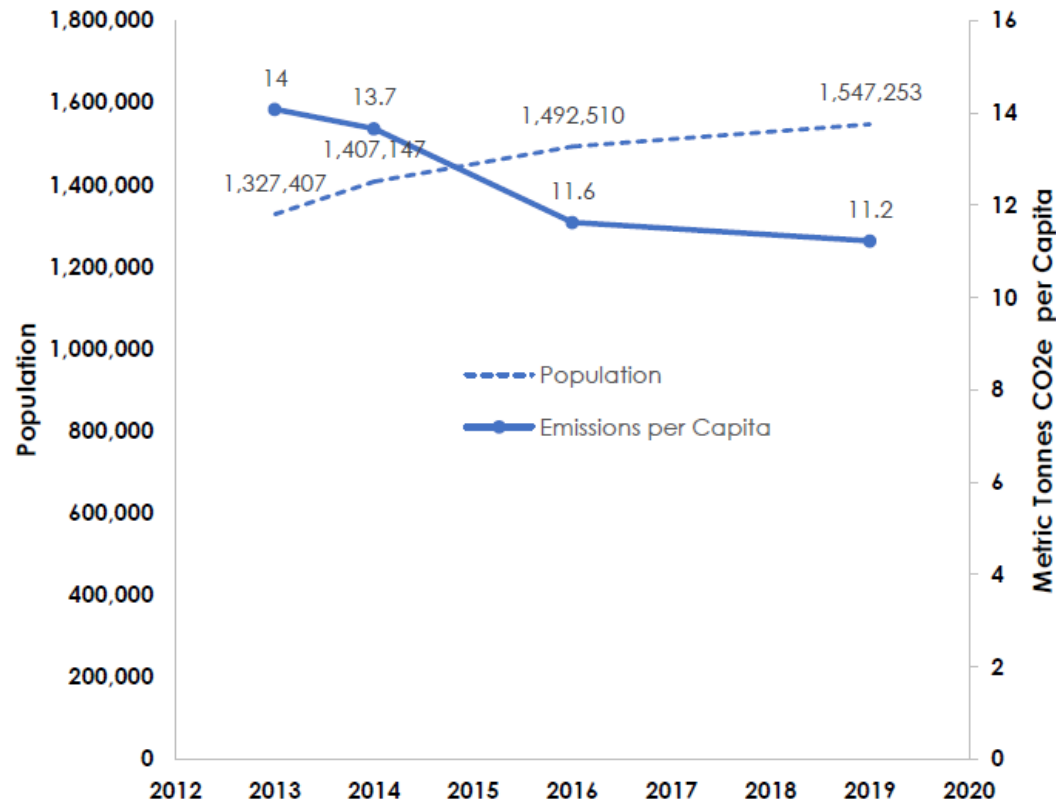


>10% reduction in CPS Energy's emissions
intensity of electricity

Per Capita Community Emissions



San Antonio Community GHG Inventory
Emissions Per Capita



2019 population source: <https://www.census.gov/search-results.html?q=san+antonio+tx+2016+population&page=1&stateGeo=none&searchtype=web&cssp=SERP>

Between 2016 and 2019,
per capita GHG emissions
decreased 4%



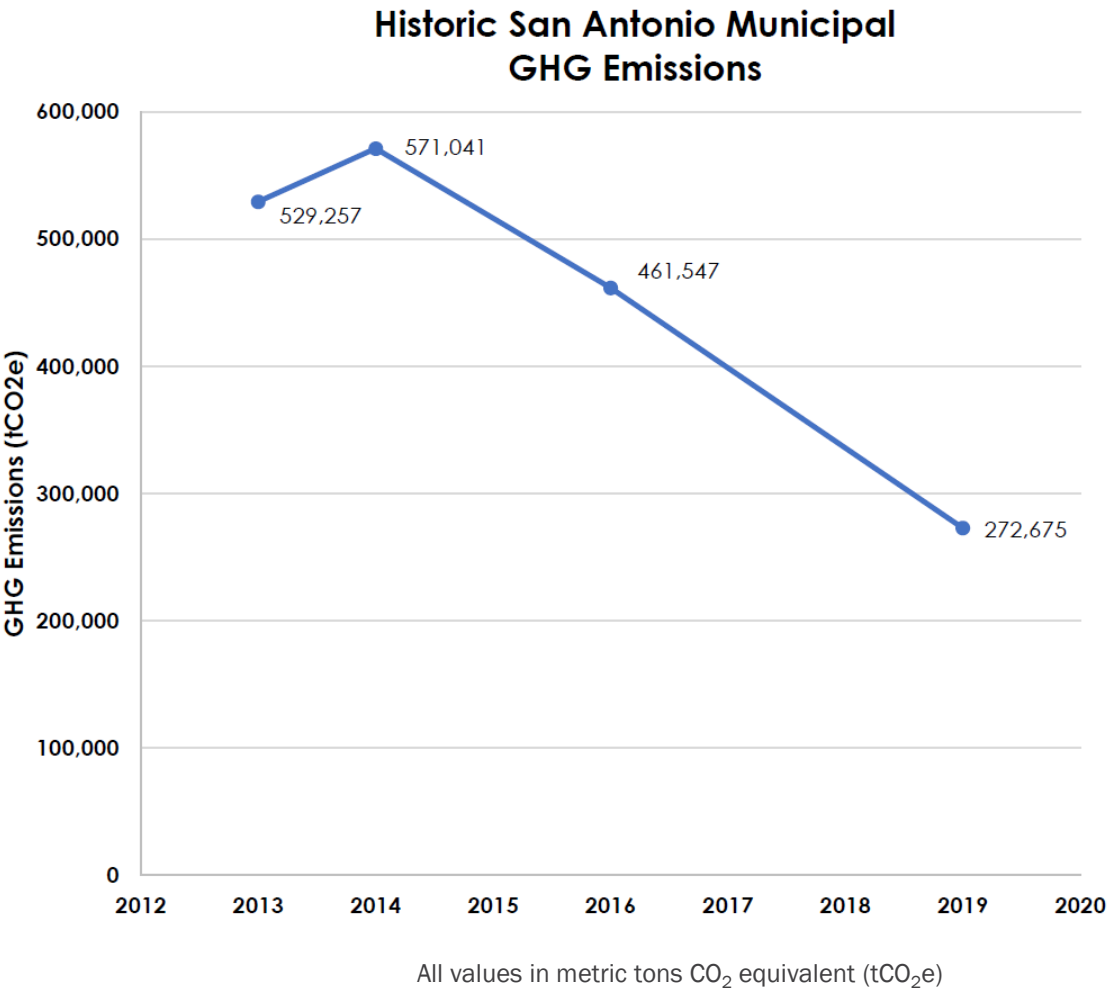
Population increased 4%



>10% reduction in CPS
Energy's emissions intensity of
electricity



Municipal Emissions



Between 2016 and 2019,
municipal GHG emissions
decreased 41%*



Building emissions decreased 19.5%



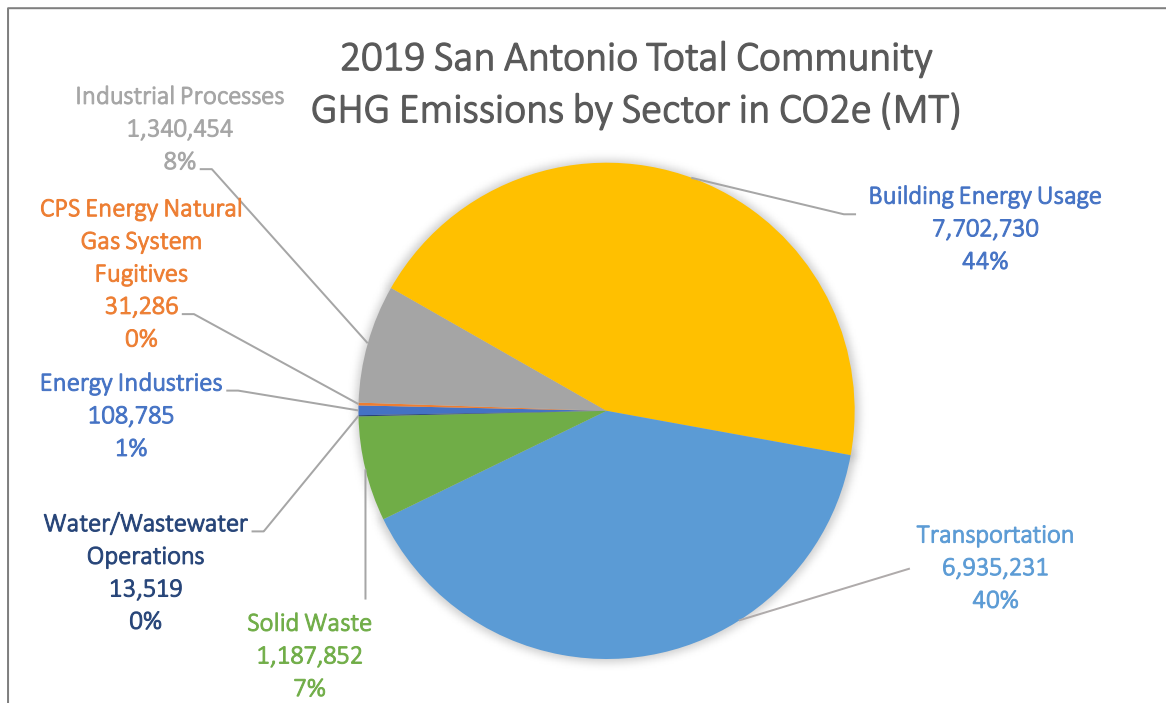
Fleet emissions increased 9%

*Decrease driven primarily by methodology changes to remain consistent with best practices

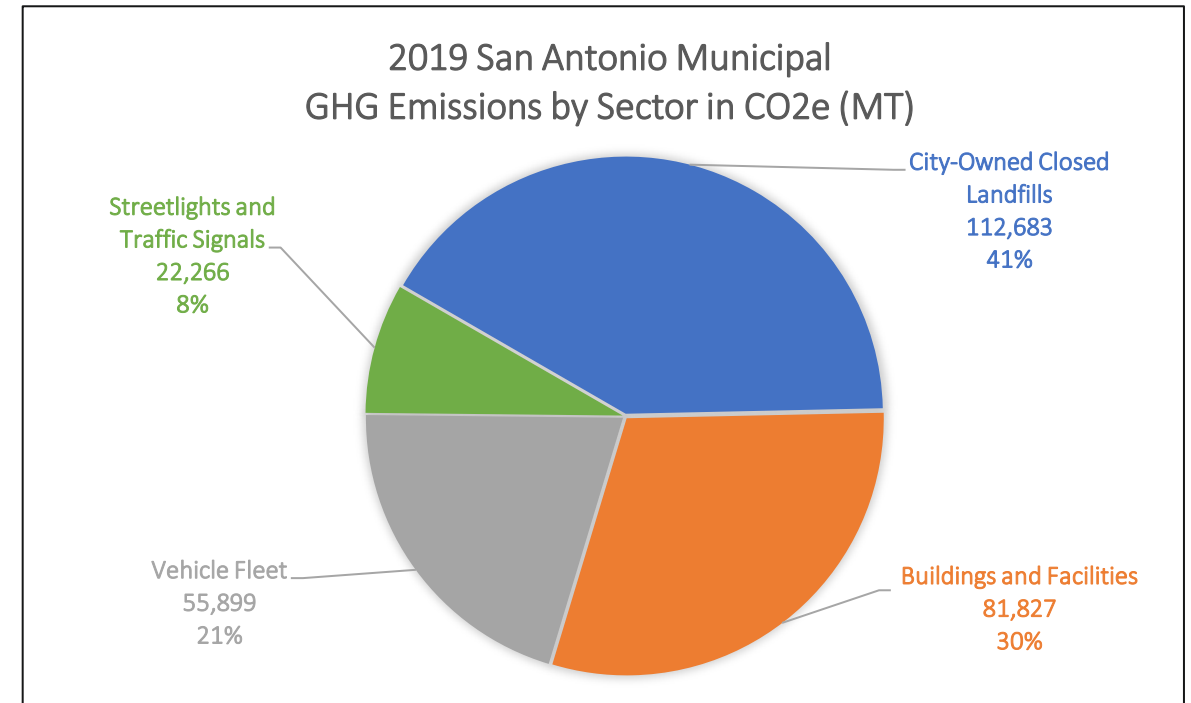
Emissions by Sector



Community



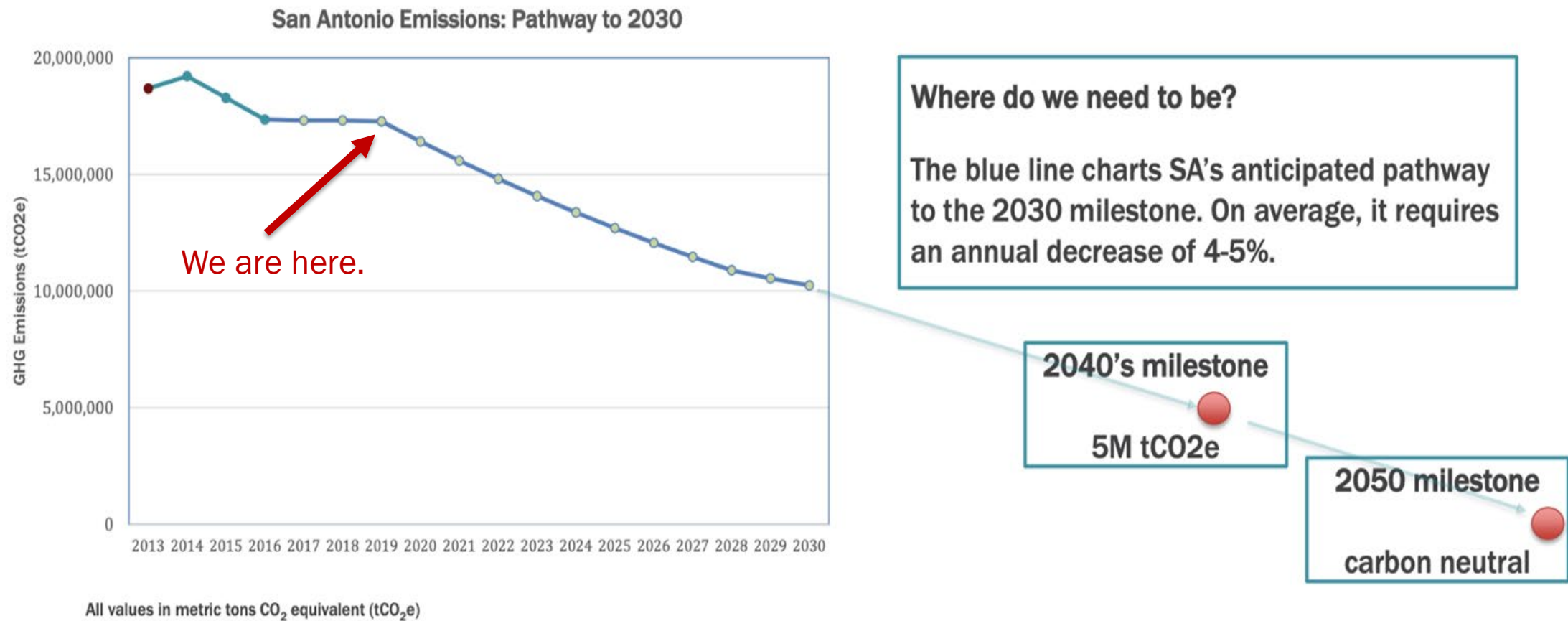
Municipal



Further Action Needed to Achieve CAAP Goals



This graphic is illustrative, as the pathway may not be linear.



Office of Sustainability Priorities

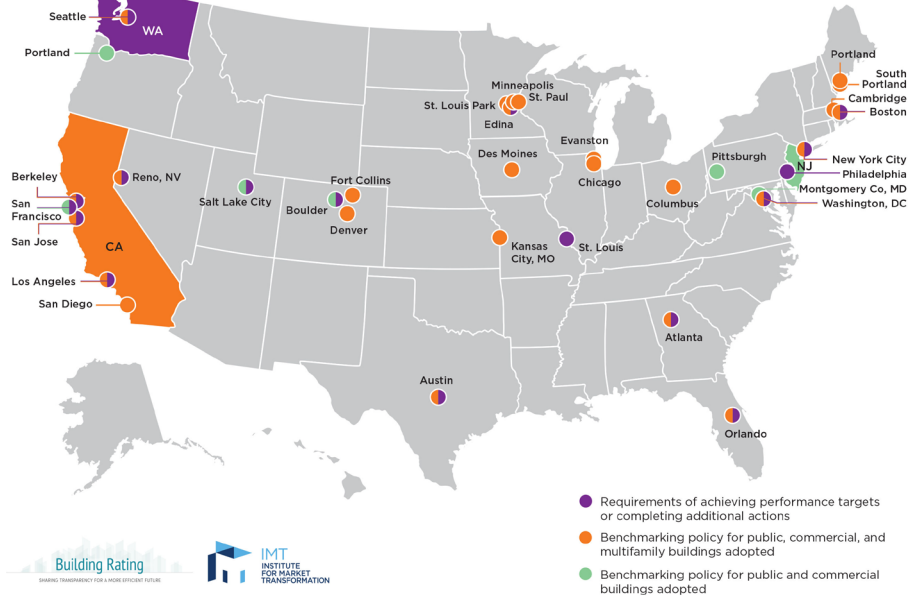


- Climate Action & Adaptation Policy
- Energy Efficiency
- Municipal Sustainability
- Clean and Green Transportation
- Education & Empowerment

Policy: Energy Benchmarking



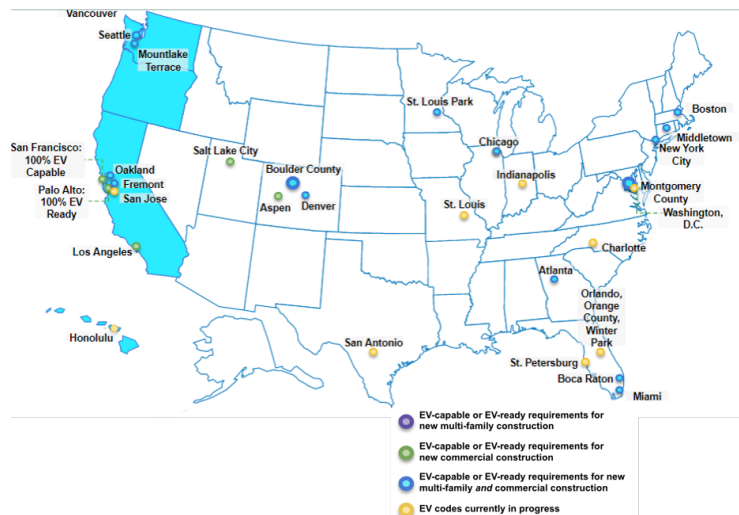
U.S. City, County, and State Policies for Existing Buildings:
Benchmarking, Transparency, and Beyond



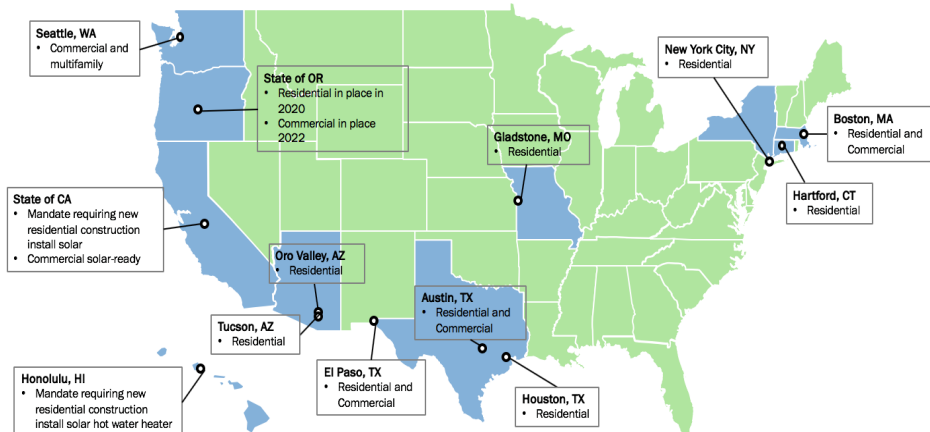
- ✓ Large commercial buildings benchmark energy use with EPA's ENERGY STAR® Portfolio Manager
- ✓ Public disclosure of results
- ✓ Realizes energy and cost savings
- ✓ Reduces energy demand & supports grid resilience
- ✓ Creates new jobs
- ✓ Improves public health
- ✓ Benchmarking Advisory Committee
- ✓ Education campaign with USGBC, ULI, AIA, and SA 2030 District
- ✓ April 2021 review with SA Climate Ready Advisory Committees
- ✓ Conduct equity assessment

Policy: EV & Solar Readiness

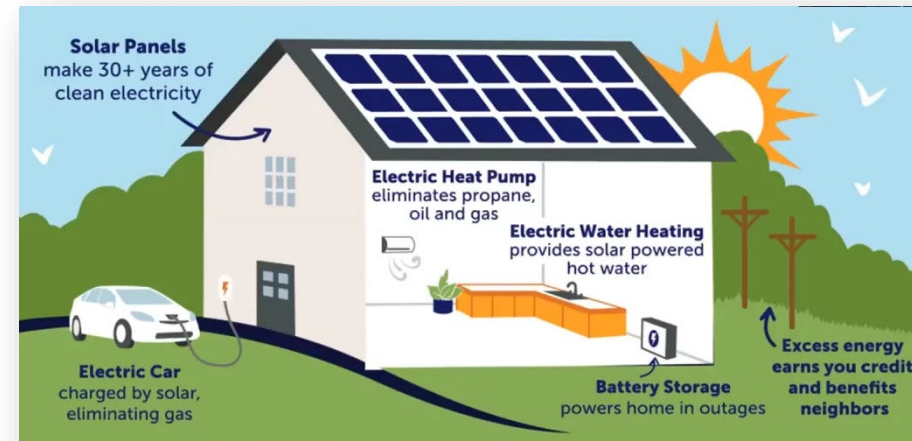
Cities that have adopted or are pursuing EV ready policies



States and Cities with Solar ready policies



- ✓ Minimal EV and solar infrastructure in new commercial and residential buildings
- ✓ Reduces future installation and retrofit costs
- ✓ Increases individual and community resilience
- ✓ Supports consumer choice and market shifts
- ✓ Reduces property owners' and tenants' energy bills
- April 2021 review with SA Climate Ready Advisory Committees
- Conduct equity assessment



Sustainability and Climate Initiatives



Municipal Sustainability

- Energy Efficiency Fund Projects
- CoSA Delivery Teams
- Departmental SA Climate Ready Consistency Documents
- All-CoSA Staff Climate Training
- Municipal Energy Policy for City Buildings and Facilities
- Biden's America Jobs Plan

Education & Empowerment

- SA Climate Ready Advisory Committees
- Mayor's Youth Engagement Council for Climate Initiatives
- SA Climate Ready Communications Initiative w/ Texas Creative and CBOs
- Research and Data Analysis
- Race and Climate Equity Training

Clean & Green Transportation

- EVSA Public Information Campaign (CMAQ Grant)
- Publicly Accessible EV Charging Infrastructure with Blink
- Fleet Environmental Acquisition Policy Update with BESD

Questions?

Two overlapping teal geometric shapes, a parallelogram and a rectangle, positioned in the bottom right corner of the slide.