

City of San Antonio SA CLIMATE READY Climate Action & Adaptation Plan



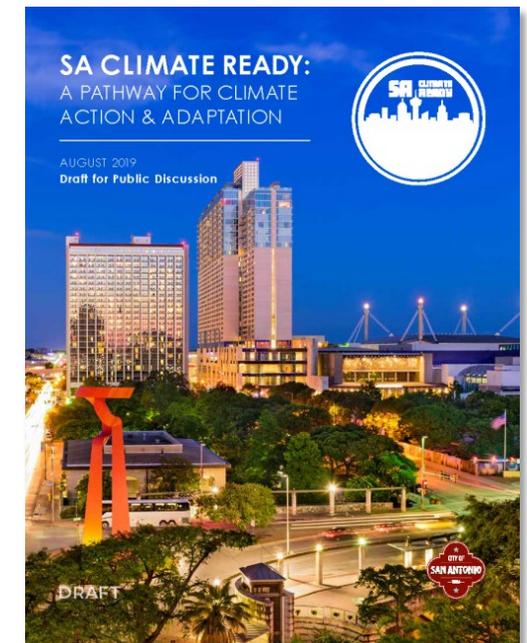
SA
CLIMATE
READY

Presented by: Douglas Melnick, AICP, ISSP-SA, CNU-A
A-Session, October 17, 2019

Background Information and Policy Direction



- SA Tomorrow Sustainability Plan , adopted by City Council on August 11, 2016, provided a foundation for climate action.
- City Council Resolution # 2017-06-22-0031R, passed on June 22, 2017, supports the Paris Climate Agreement with goals to reduce greenhouse gas emissions and prepare for climate change.



Climate Projections, End of Century



MOODY'S

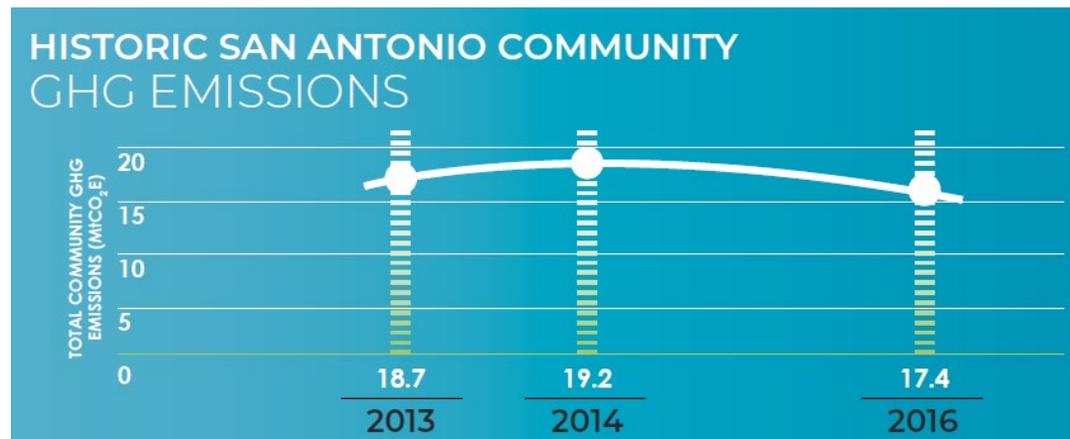
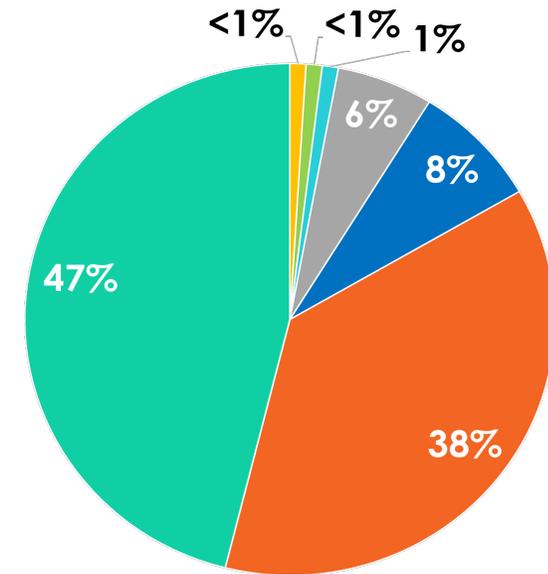
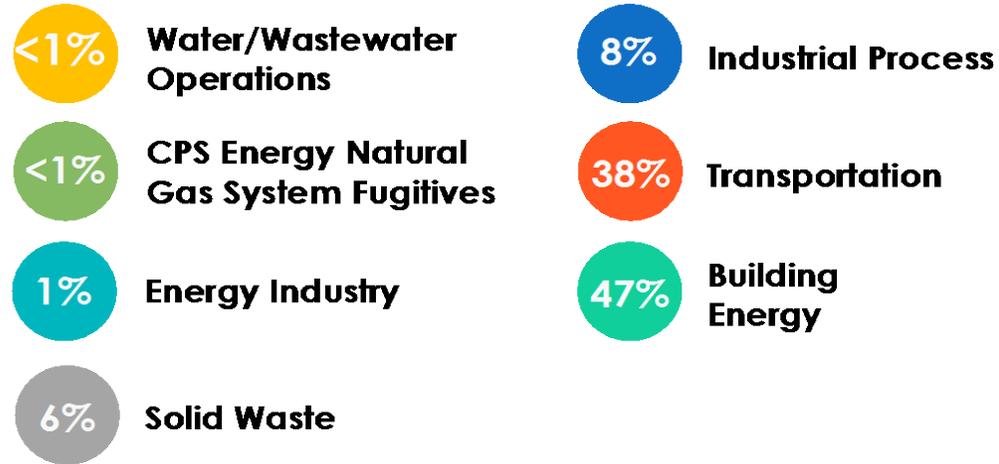


	Low Emissions Pathway	High Emissions Pathway
Summer Maximum Temperature	+6°F	+10°F
Hot Days (Maximum Temperature >100 °F)	+48 days	+94 days
Warm Nights (Minimum Temperature >80 °F)	+10 nights	+55 nights
Annual Precipitation	-3 inches	-4 inches

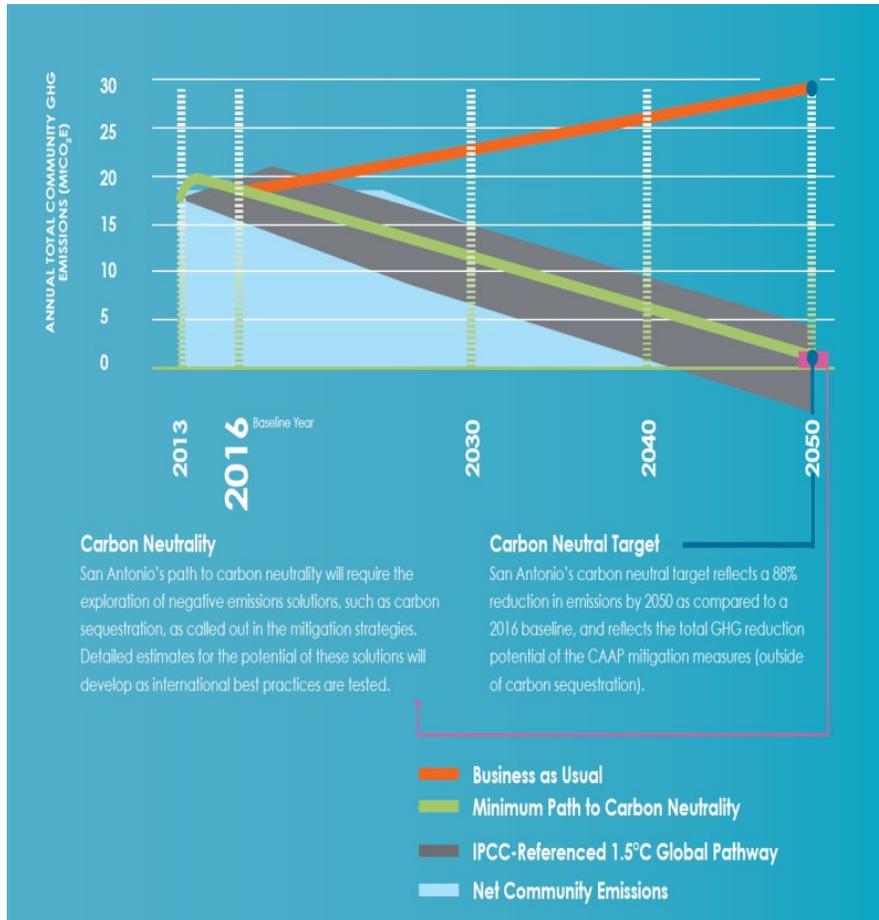
- Completed by Dr. Hatim Sharif, UTSA
- Down-scaled for San Antonio
- Consistent with best practices

Greenhouse Gas Inventory

In 2016, **building energy** and **transportation** accounted for **85%** of San Antonio's **greenhouse gas emissions**.



Greenhouse Gas Reduction Pathway



INTERIM GHG REDUCTION TARGETS	2030	2040	2050
Total Emissions: percent reduction over 2016 GHG emissions	41%	71%	100%
INTERIM GHG REDUCTION TARGETS	2030	2040	
Stationary emissions	41%	74%	
Transportation emissions	47%	75%	
Solid waste emissions	32%	54%	
Water supply emissions	<1%	<1%	
Industrial process emissions	23%	56%	

In 2018 the Intergovernmental Panel on Climate Change (IPPC) released the “Special Report: Global Warming of 1.5°C” that states “For reduction pathways that are technically feasible currently, i.e. include no or limited overshoot of 1.5°C, “global anthropogenic CO2 emissions need to decline by about 45% from 2010 levels by 2030, reaching net zero around 2050.”

Greenhouse Gas Mitigation & Adaptation Framework



MITIGATION
Reducing or preventing emissions from greenhouse gases

EXAMPLE:

Increasing renewable energy

Reducing energy use in buildings

Increasing cleaner and more efficient vehicle use

ADAPTATION
Actions that help to reduce the negative effects of climate change

EXAMPLE:

Flood-proof roadways & critical infrastructure

Develop a community wildfire protection plan

Increase tree canopy

Greenhouse Gas Reduction Strategies

- 1) Increase Carbon-Free Energy
- 2) Reduce Building Energy Consumption
- 3) Reduce Transportation Energy Consumption
- 4) Advance the Circular Economy
- 5) Promote Biodiversity and Healthy Ecosystems
- 6) Educate & Empower

- **28 Community Strategies**
- 12 Near-Term initiated by 2021
- **13 Municipal Strategies**

Adaptation Strategies

- 1) Increase Infrastructure Resilience
- 2) Strengthen Public Health Systems
- 3) Enhance Emergency Management & Community Preparedness
- 4) Promote, Restore, and Protect Green Infrastructure & Ecosystems
- 5) Protect Local Food Security
- 6) Increase Resiliency Awareness & Outreach
- 7) Ensure Equity in Adaptation

- **45 Community & Municipal Strategies**

Technical & Community/Climate Equity Advisory Committees



- Provide expertise and input.
- Deliver an annual reports to City Council on committee activities.
- Work collaboratively with other City Board and Commissions.
- Engage the general public and leverage Committee Member networks.
- Provide input on the implementation of the CAAP to ensure an equity-centered approach.
- Utilize the Climate Equity Screening Tool and provide feedback to the Technical and Community Advisory Committee.

Draft Advisory Committees



November 2019

- Community Health and Equity Committee review and approves selection process and categories for expertise and representation.

December 2019

- City Council approves ordinance establishing advisory committees.
- Issue Call for Applications.

January - February 2020

- Community Health and Equity Committee interviews and selects advisory committee members for City Council Consideration.

March 2020

- City Council approves advisory committee members.
- First advisory committee meetings.

FY 2020 SA Climate Ready Outreach & Communications



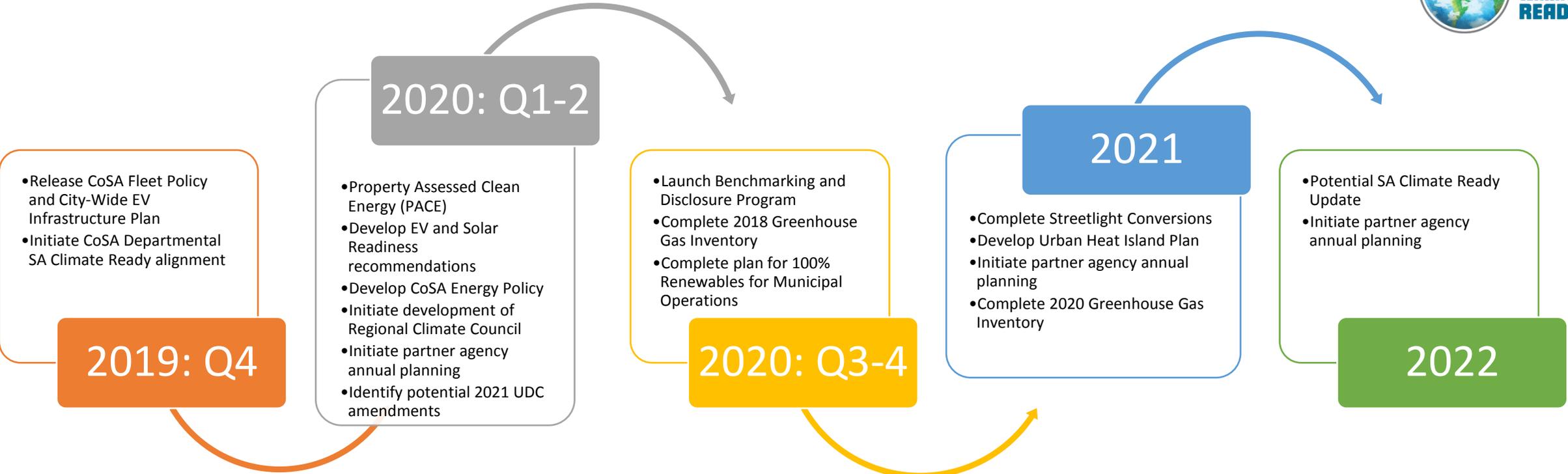
Communications & Engagement

- Initiate SA Climate Ready Communications & Engagement Campaign
 - Issue RFP for Consultant Services – Communications, Engagement and Graphic Design – November 2019
 - Select consultant – January 2020
- Initiate Neighborhood & Community Outreach Campaign
 - Develop engagement materials
 - Target neighborhood & homeowner associations, community events, and K-12 schools and universities
 - Initiate targeted equity engagement in priority zip codes and with key stakeholders
- Initiate Business Outreach Campaign & develop Pilot Recognition Program

Monitoring, Assessment & Transparency

- Expand SA Tomorrow Sustainability Dashboard
- Develop SA Climate Ready Implementation Tracking Tool
- Develop GHG Impact/Cost-Benefit Tool
- Annual SA Climate Ready Status Report

SA Climate Ready Implementation



- Examples of Ongoing Initiatives**
- Transportation Demand Management
 - Micro-Mobility Planning
 - Recycling and Organics Diversion
 - Low Impact Development
 - Tree Preservation and Plantings
 - Under One Roof
 - Transit Enhancement and Connect SA

CoSA Departmental Alignment



Identify departmental oversight and synergies with CAAP strategies

Review current departmental programs and work plans

Develop departmental sustainability and climate action plans

- FY 2020
- Long-term

Develop metrics, reporting and accountability protocol

Identify opportunities to integrate CAAP into CoSA processes

- Budgeting
- Project development
- Economic development activities
- Planning and zoning decision-making

Staff Recommendation



Staff recommends that City Council approve Ordinance #19-7458 adopting the SA Climate Ready, Climate Action and Adaptation Plan.



Questions?

Douglas Melnick, AICP, CNU-A, ISSP-SA

Chief Sustainability Officer

Office of Sustainability

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Property Assessed Clean Energy (PACE)



A private financing mechanism for 100% of costs of completing an energy efficiency, renewable energy, or water conservation project in commercial, industrial, and multi-family properties; the long term loan (10-20 years) is tied to the property and repaid yearly with the property tax bill; it reduces greenhouse gas emissions, improves air quality, and supports economic growth through revitalization and green jobs.

Where in TX?

PACE is currently in 12 Cities and 19 Counties in Texas.

Status

- Reviewing PACE materials and requirements.
- Identifying lead department.
- Interviewing cities with current PACE programs.
- Identifying a PACE Administrator.
- Brief Economic and Workforce Development Committee.
- Potential City Council consideration early 2020.

Process of Adoption

First City Council meeting:

1. Post a PACE report with exhibits on the City's website on or before the first meeting.
2. Adopt a Resolution of Intent.

Second City Council Meeting:

3. Hold a Public Hearing.
4. Adopt a resolution to establish the PACE program.

