Climate Action Briefing

Transportation, Technology, and Utilities Committee September 14, 2016

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What is a Climate Action Plan?

Climate Action Plan

- Specific climate assessment providing recommendations for reducing GHG emissions
- Extensive modeling and analysis
- Prescribed actions to take to shift towards low-carbon usage with goals to attain every 5 years

Scope of a Climate Action Plan

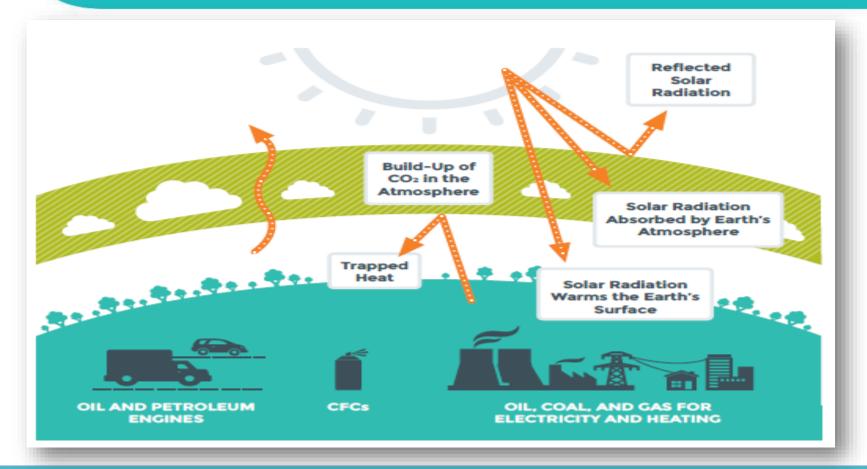
- Build upon existing community greenhouse gas inventory
- \$125,000-200,000 (based on depth of modeling and analysis)
- A chronological outline of milestones, resources, and metrics of specific actions and goals that San Antonio can implement to reduce greenhouse gas emissions

Benefits of a Climate Action Plan

- Good Air Quality Indicator
- Helps Build Community Resilience
- Promotes Economic Competitiveness
- Helps Ensure Public Health, Welfare and Safety
- Take Action Prior to Federal Mandates
- Show National and International Leadership
- Helps Avoid the Costs of Not Taking Action



The Greenhouse Gas Effect

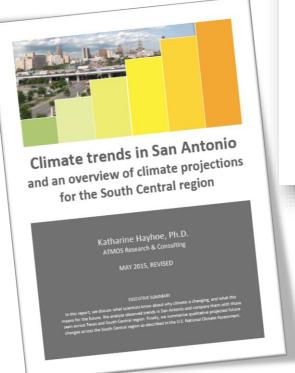


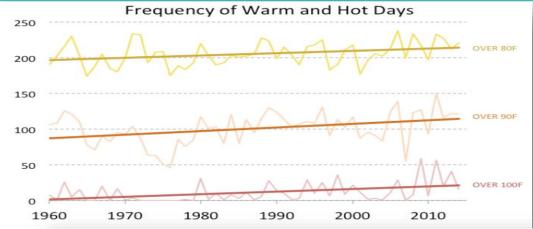
Signs & Impact of Climate Change

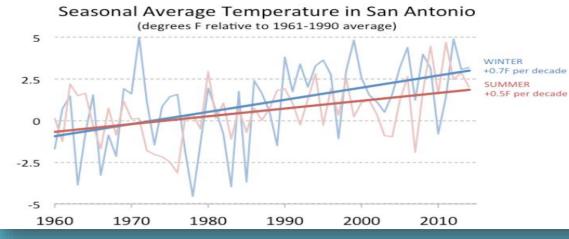




Local Climate Trends







Local Climate Trends

Temperature Averages

Warmer nights and hotter days per decade (1960-2014)

Temperature Extremes

Increase in number of days over 80, 90 and 100 degree (1960-2014)

Precipitation Averages

Increase in average number of dry days per year, average rainfall intensity, and the amount of rainfall in the wettest 5 days of the year.

Precipitation Extremes

Increase variability in precipitation starting in 1980's.

Local Vulnerability Assessment Findings

Vulnerability Ranking Table
Potential Opportunity
Low Vulnerability
Medium-Low Vulnerability
Medium Vulnerability
Medium-High Vulnerability
High Vulnerability

High Vulnerability

- Extreme heat and impacts to vulnerable populations
- Vector borne diseases

Medium-High Vulnerability

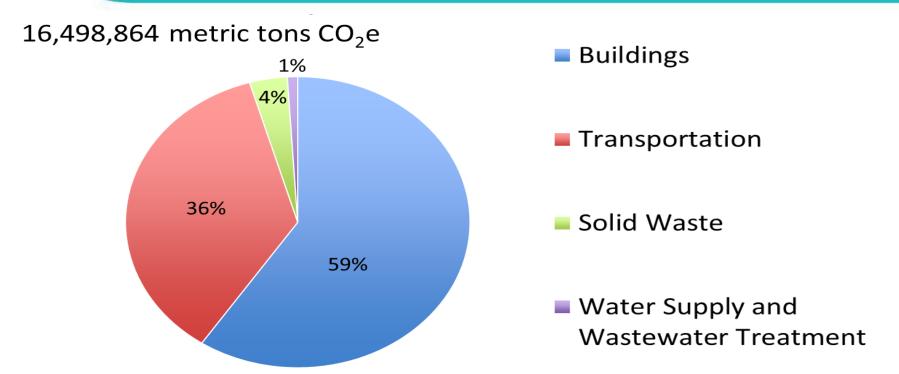
- Critical/public infrastructure and assets in 100yr floodplain (communications, power, etc.)
- Critical transportation infrastructure
- Low water crossings high call rescue sites
- Local food security

Medium Vulnerability

- Wildfires and the potential for increased incidence
- Impacts to multifamily in 100 year flood plain

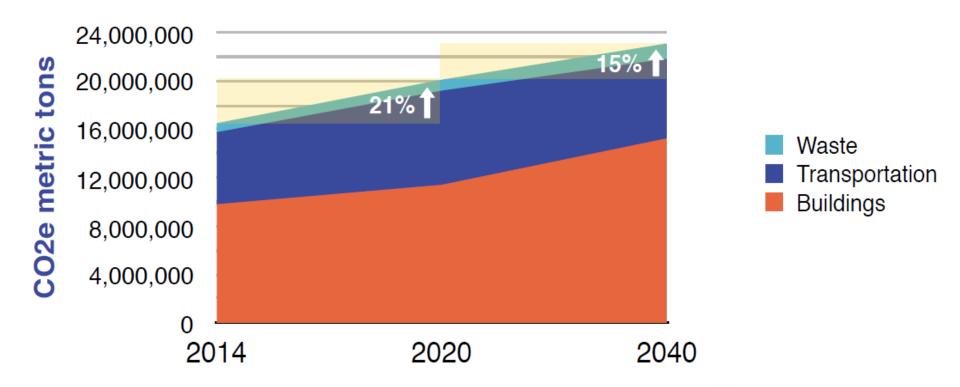


2014 Greenhouse Gas Inventory



San Antonio Community GHG Emissions (by Sector)

San Antonio Forecast





Climate Action Planning



Next Steps

- Preliminary TTU Briefing: September 2016
- Begin Preliminary Community Education: November 2016 March 2017
- TTU Briefing: April 2017
- Potential Council Resolution: May 2017
- Develop Scope and Secure Consultant: Date Dependent on Funding
- Develop Climate Action Plan: One Year Public Process





