

Austin COMMUNITY CLIMATE PLAN





November 14, 2017

Agenda

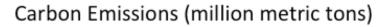
• Climate Change

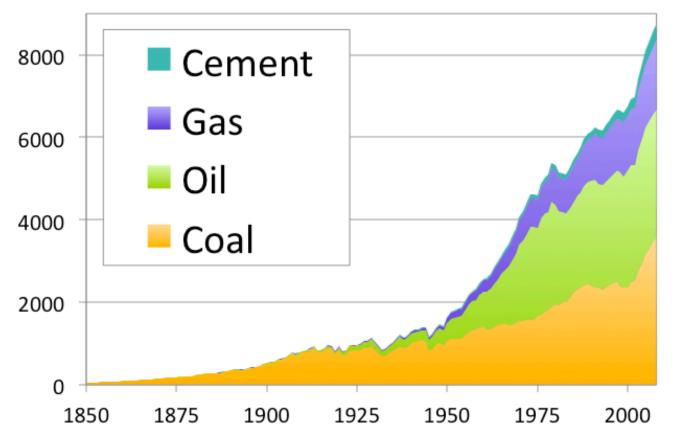
• City of Austin Goals and Plans

• Transportation Focus

• Way Forward

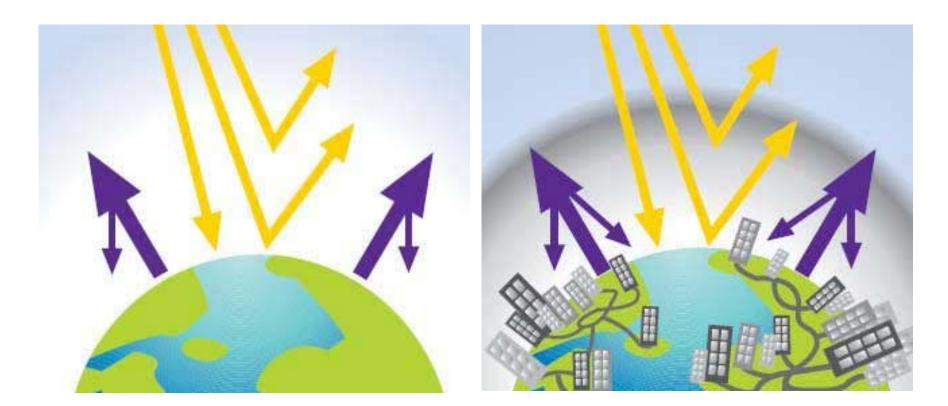
Our activities produce heat-trapping gases





Source: K. Hayhoe for 2014 U.S. National Climate Assessment

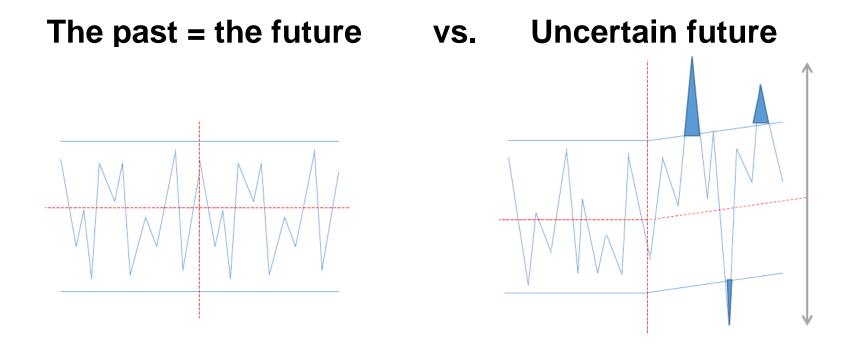
... that are building up in the atmosphere



THE NATURAL GREENHOUSE EFFECT

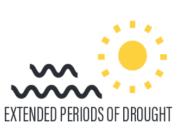
THE ARTIFICIAL HUMAN GREENHOUSE EFFECT

Climate Change: Game Changer



Climate projections = increase in shocks/stressors











2007 – Original Climate Protection Plan Resolution Adopted by Council

2013 – Resolution from Council to study future impacts of Climate Change

2014 – Council adopts the Net Zero Community-wide Emissions by 2050 target

2015 – Community Climate Plan is completed and adopted by Council

2016 – Community Climate Implementation Plan is completed

2017 – Community Climate Plan - Cost / Impact analysis and action tracking





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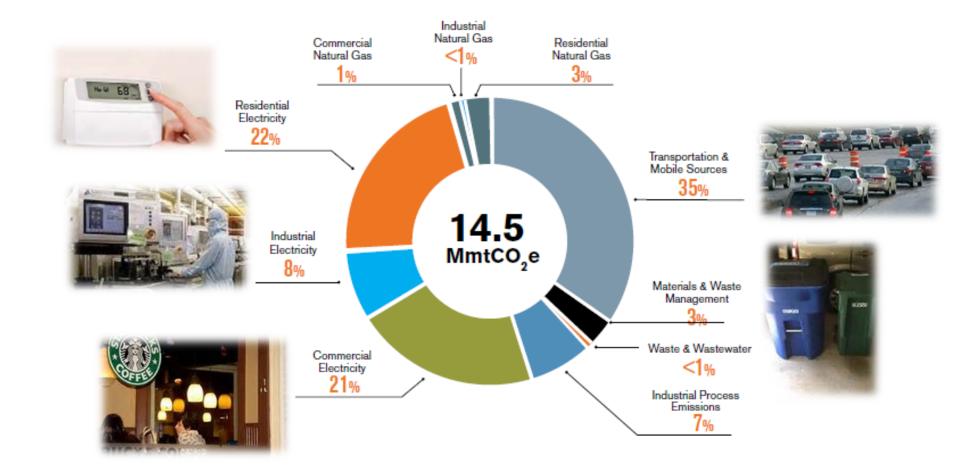




AUSTIN TRANSPORTATION DEPARTMENT

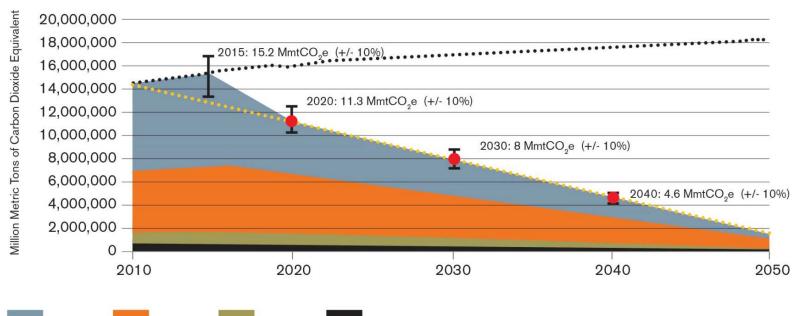


2010 Estimated Travis County Greenhouse Gas Inventory





What does net-zero in 2050 mean?



Energy Emissions

Transportation & Mobile Sources

Materials & **Fugitive Emissions**

Waste Management

Business as usual growth of emissions

. Net-Zero Glide Path





Process &



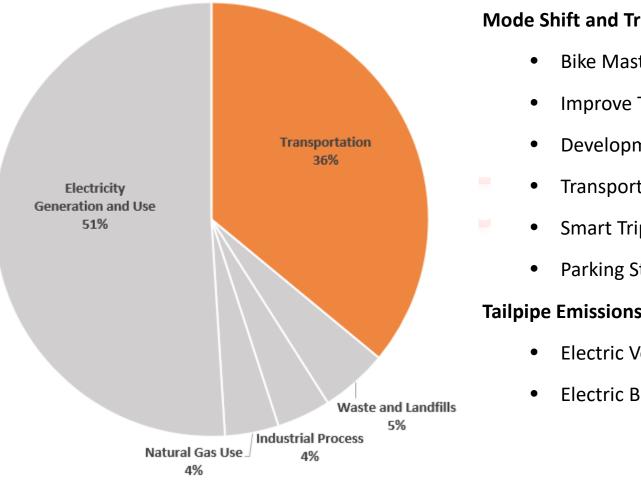


net-zero

Technical Advisory Group Strategies

Electricity and Natural Gas	 Buildings and Integrated Efficiency Promote Behavior Change Resource Technologies
Transportation and Land Use	 Infrastructure and Service Land Use Demand Management Policy and Planning Vehicles and Fuel Efficiency Economic and Pricing Solutions
Materials and Waste Management	 Organics Diversion Purchasing Methane Management Recycle / Reduce / Reuse
Industrial Process	 Fuel Switching Process Optimization Capture and Destruction Local Offsets

Transportation Strategies



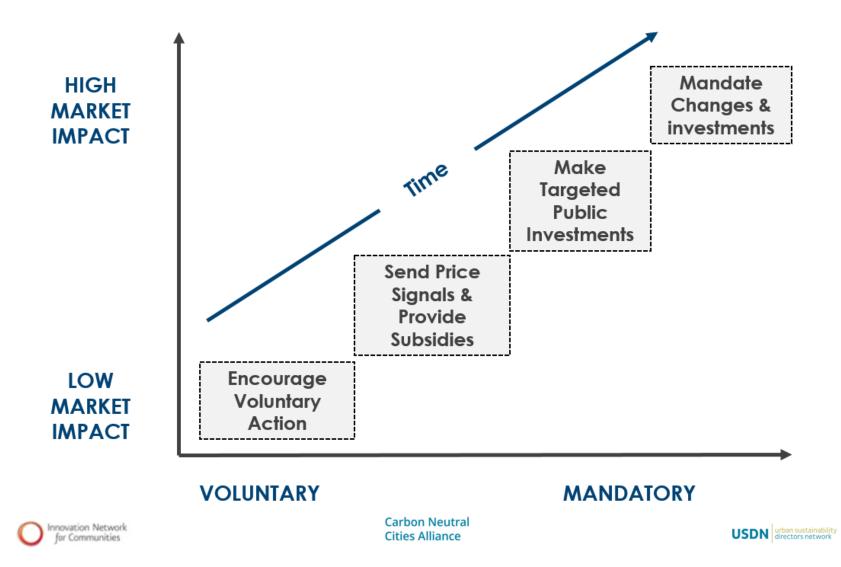
Mode Shift and Trip Elimination

- **Bike Master Plan**
- Improve Transit Service + Infra
- **Development Code Revision**
- Transportation Management Assn.
- Smart Trips
- **Parking Strategies**

Tailpipe Emissions Reduction

- **Electric Vehicles**
- **Electric Buses**

City Levers for GHG Reduction



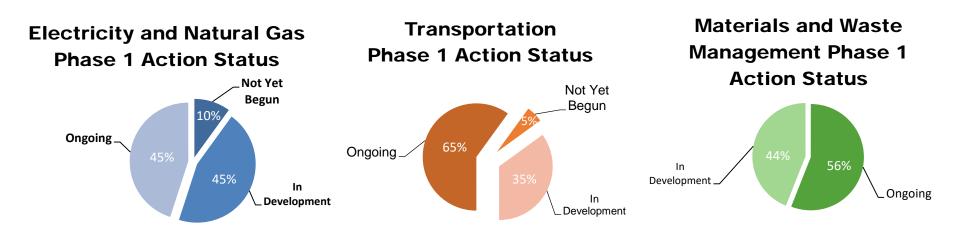


Direct Benefits to the Community



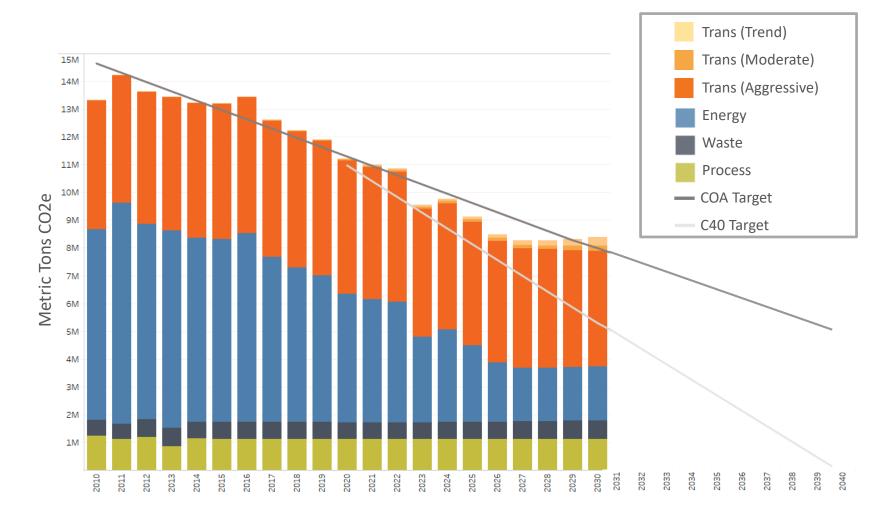
system

Action Status Summary



Action	Current Program	Cost	Carbon Impact	Status	Impact to Reaching 2020 Target
Buildings and Integrated Efficiency (BIE)-1: Explore financing mechanisms to enable energy efficiency, demand response, distributed generation and energy storage. Possible financing mechanisms which could enable large amounts of private sector retrofits include Property Assessed Clean Energy (PACE) and Warehouse for Energy Efficiency Loans (WHEEL), and privately financed on-bill repayment.	Austin Energy continuously tracks and evaluates ways to provide demand-side management benefits to customers. Austin Energy was part of the initial team on PACE and actively supports, advertises, and educates prospective customers. PACE has their first customer as of February 2016. WHEEL was not approved in the Texas Legislature. On Bill repayment has many challenges and costs.	Austin Energy staff continue to monitor financing mechanisms available as part of Customer Energy Solutions programs. No additional cost.	PACE has their first customer as of February 2016. Austin Energy will begin to document savings as this program progresses.	ONGOING	LOW

GHG Emissions Trend with Projected Reductions



Takeaways

- Currently adopted Austin Energy electricity generation plans put us within reach of the 2030 COA GHG emissions target
- There is a large potential for emissions reduction in the transportation sector, and we have to get started now to scale past 2030.
- Reaching emissions reduction goals beyond 2030 is an enormous challenge and opportunity for our City.

Questions? Zach.Baumer@austintexas.gov