

Austin Community Climate Plan

Steering Committee | February 4, 2015

Agenda:

1. Citizen Communication
2. Individual Action Survey Review
3. Plan Timeline Update
4. ACCP Presentation
5. Top priority new actions and Recommendations



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Individual Climate Action Survey

GetFeedback Survey tool:

- 1065 Survey Responses
- 33 Questions in a Web- and Mobile-Device Friendly Survey Tool
- Focus was on individual actions and identifying barriers

Survey responses:

- The final sample was somewhat skewed toward females, older respondents, Caucasians, and homeowners.
- Likely that the Hispanic population was underrepresented, but we cannot be entirely sure about this statement.
- All reported relationships between variables are statistically significant and have correlations $\geq .10$.

Individual Climate Action Survey

Which of the following actions are you willing to take to reduce greenhouse gas emissions from using energy?

Click on any action that you currently do or would do at least some of the time.



Raise fridge tem ...



Adjust thermost ...



Turn off lights



Turn off electro ...



Lower water hea ...



Wash w/cold wat...



Line dry clothes



Use fans to cool ...

Please prioritize the following energy sector-related statements in order of preference (just click and drag to reorder):

Let's use an innovative utility bill rate structure to drive conservation and e

Let's invest in as much renewable energy as possible, as long as it is afforda

Let's expand our energy efficiency programs so all buildings in Austin are a

Let's prioritize educational programs to teach people how to save energy at

+ Click to add an answer choice

Would you weatherize your home (add new caulking, add insulation, seal HVAC ducts, replace leaky windows, etc.) to reduce your energy use?



Not able to /
don't want to

Already did /
100% willing

You indicated you are unable or unwilling to weatherize your home; which choice best describes your reason?

I would need a financial incentive because that's not in my budget.

I would do it but the process is too long and difficult.

I am a renter so I can't weatherize my home.

I just don't want to weatherize my home.

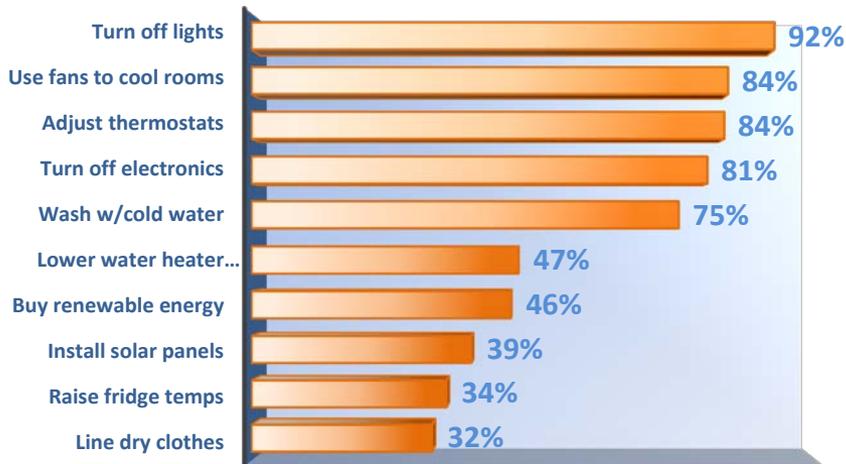
+ Click to add another answer choice

Individual Climate Action Survey

Key Findings on Energy:

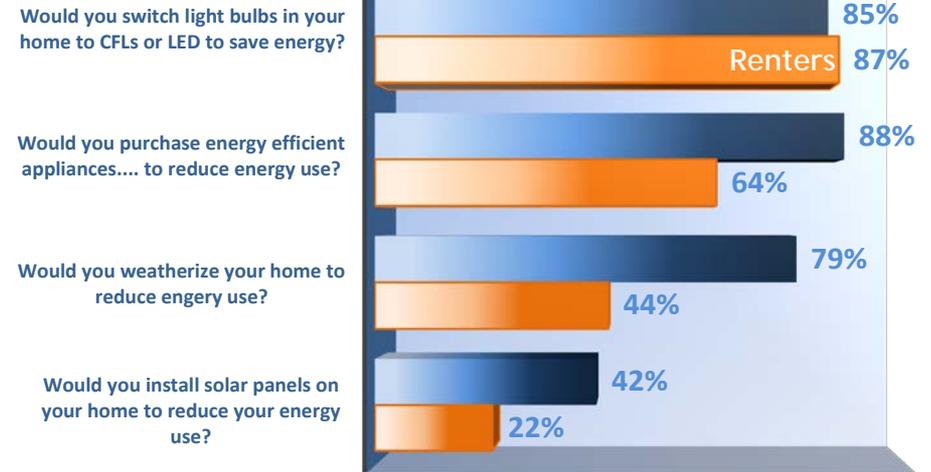
ALL: Which of the following actions are you willing to take to reduce greenhouse gas emissions from using energy (multiple answers allowed)?

BASE: ALL SURVEY RESPONDENTS (N=1063)



Already or very willing to use energy efficient practices (rated 4 or 5, where 5 is 100% willing).

BASE: ALL SURVEY RESPONDENTS (N=1063)

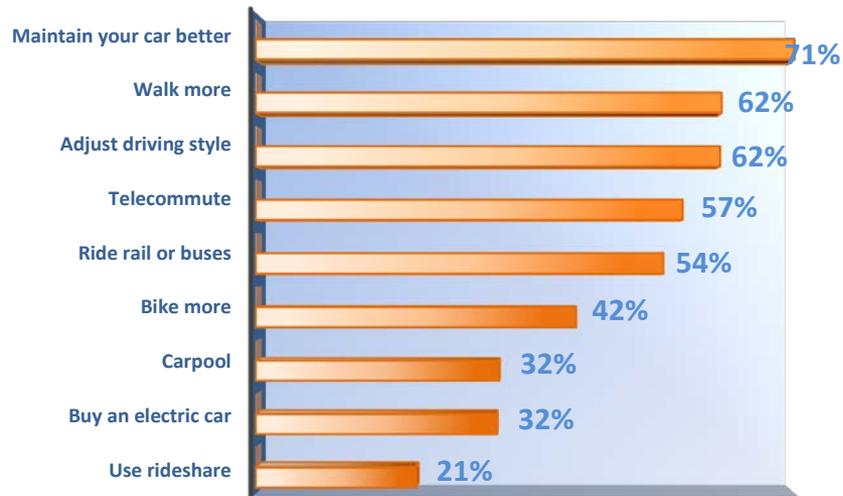


Individual Climate Action Survey

Key Findings on Transportation:

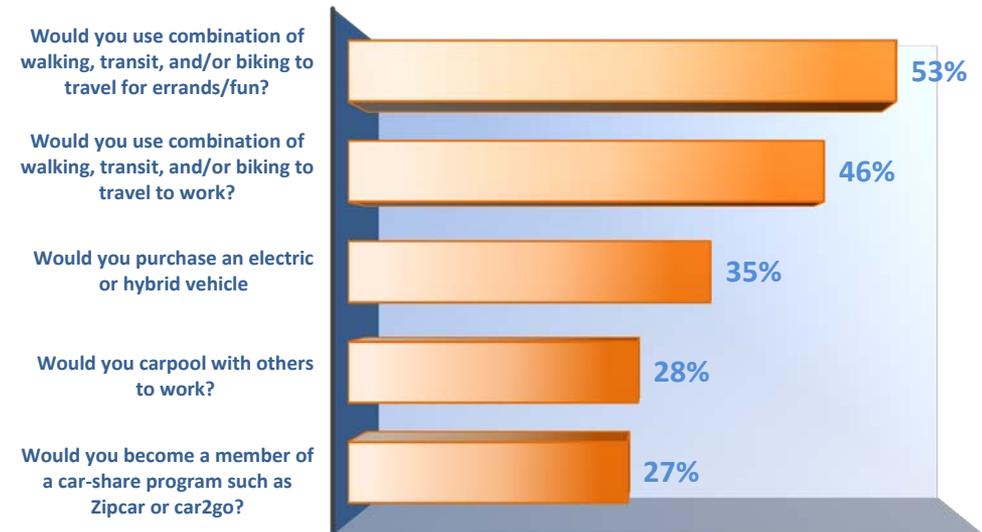
Which of the following actions are you willing to take to reduce greenhouse gas emissions due to transportation choices (Multiple Responses Allowed)?

BASE: ALL SURVEY RESPONDENTS (N=1063)



Which of the following actions would you take to reduce your greenhouse gas emissions due to transportation choices (rated 4 or 5, where 5 is 100% willing)?

BASE: ALL SURVEY RESPONDENTS (N=1063)

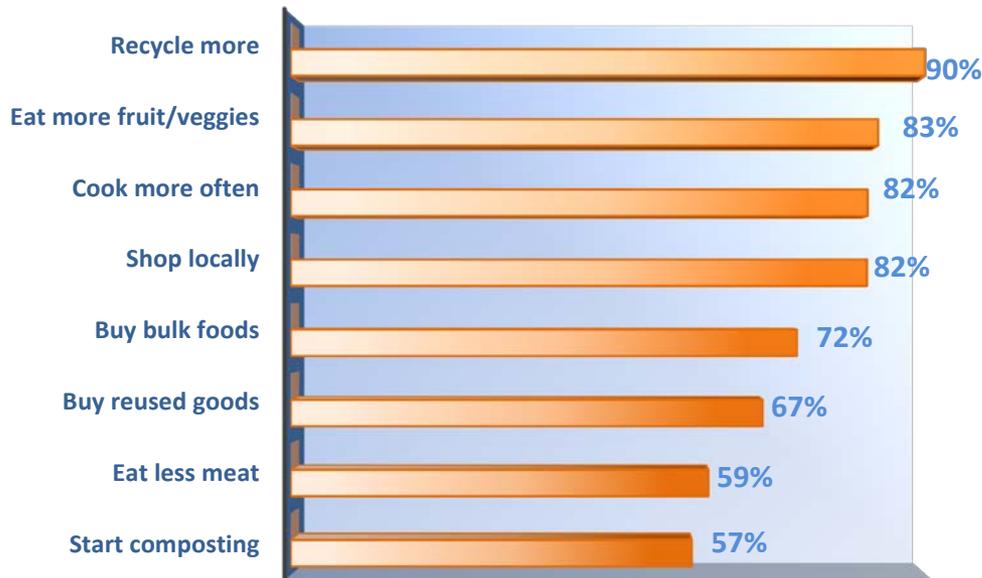


Individual Climate Action Survey

Key Findings on Materials and Waste Management:

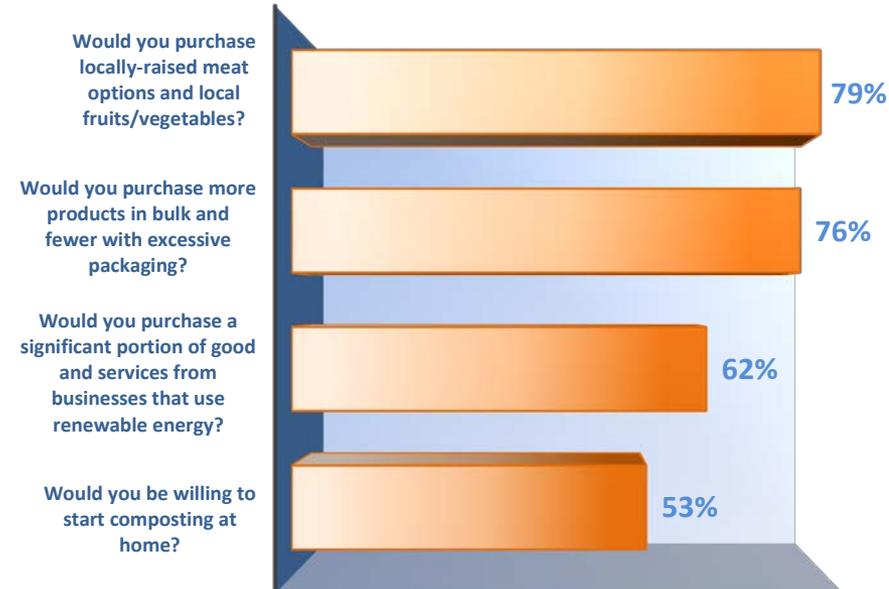
Which of the following actions would you take to reduce greenhouse gas emissions due to materials consumption and waste creation (Multiple Responses Allowed)?

BASE: ALL SURVEY RESPONDENTS (N=1063)



Already or willing to take actions to reduce materials consumption and waste creations (where 4 or 5 is willing, 100% is willing).

BASE: ALL SURVEY RESPONDENTS (N=1063)

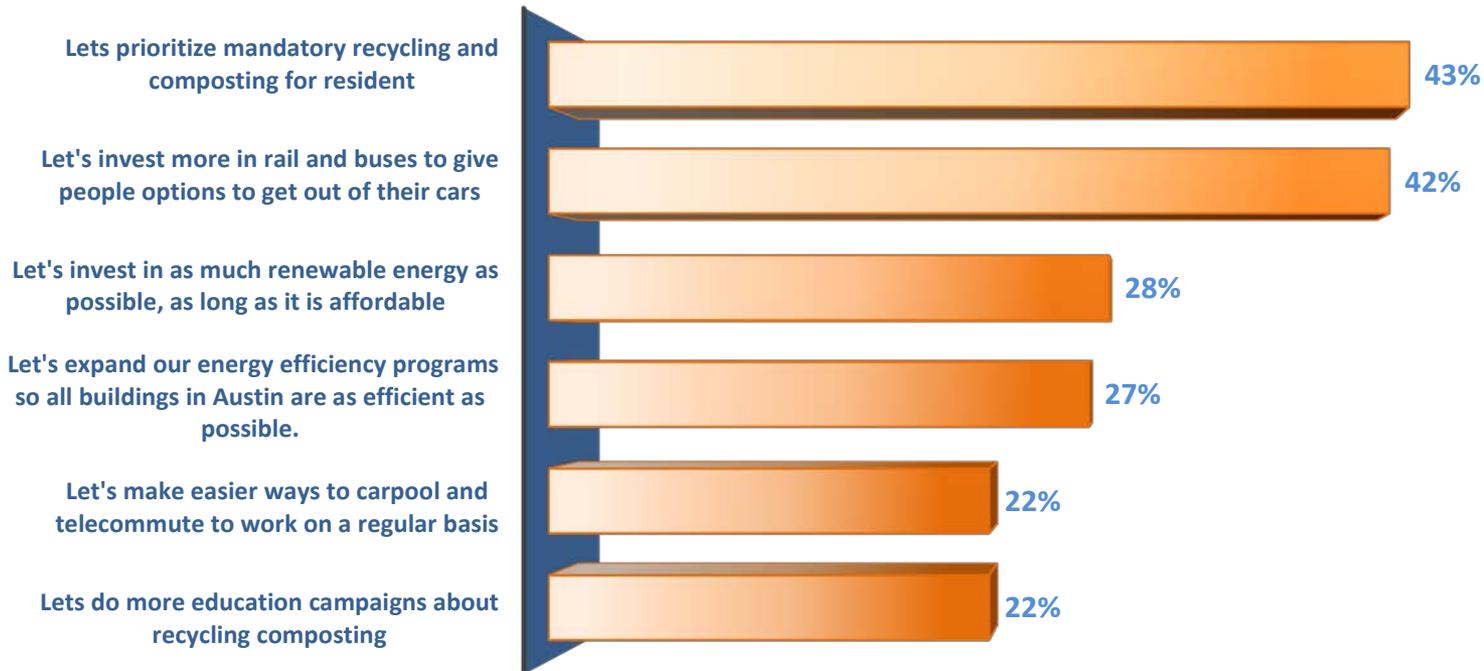


Individual Climate Action Survey

Key Findings on Priorities:

Respondents were asked to prioritize energy, transportation, and waste related statements in order of their preference (value of 1 as most preferred).

BASE: ALL SURVEY RESPONDENTS (N=1063)



ACCP Timeline Update

Draft Report:

- Feb. 4th – First full draft to Steering Committee and TAGs
- Feb. 13th – Deadline for suggested edits added to Google Doc
- Week of Feb. 23rd – OoS to receive second draft of report for City Management review
- Public review to follow those steps...

Boards and Commissions:

- Feb. 10th - Urban Transportation Commission
- Feb. 11th - Zero Waste Advisory Commission
- Feb. 17th – Resource Management Commission
- Feb. 18th – Environmental Board
- Feb. 23rd – Electric Utility Commission
 - Feb. 23rd – Imagine Austin Meetup (Black Star Co-op)
- Feb. 24th – (potential) Planning Commission



Austin Community Climate Plan

Steering Committee | Draft ACCP Presentation



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Agenda

1. Why Develop a Community Climate Plan?
2. Our Approach and the Plan Development Process
3. Climate Plan Summary
4. Next Steps

Why Develop a Community Climate Plan?

Council Resolutions

The 2007 Climate Protection Plan included five key goals:

1. Municipal operations – all City of Austin facilities, fleets, and operations will be carbon neutral by 2020.
2. Utility generation mix - reach 35% renewables by 2020.
3. Homes and buildings - reach 800 megawatts (MW) of energy efficiency savings by 2020.
4. **Community planning - develop an inventory of community-wide emissions and set a target and strategies for reductions**
5. Carbon Neutral Programs and Assistance – provide tools for Austinites to mitigate their own emissions.

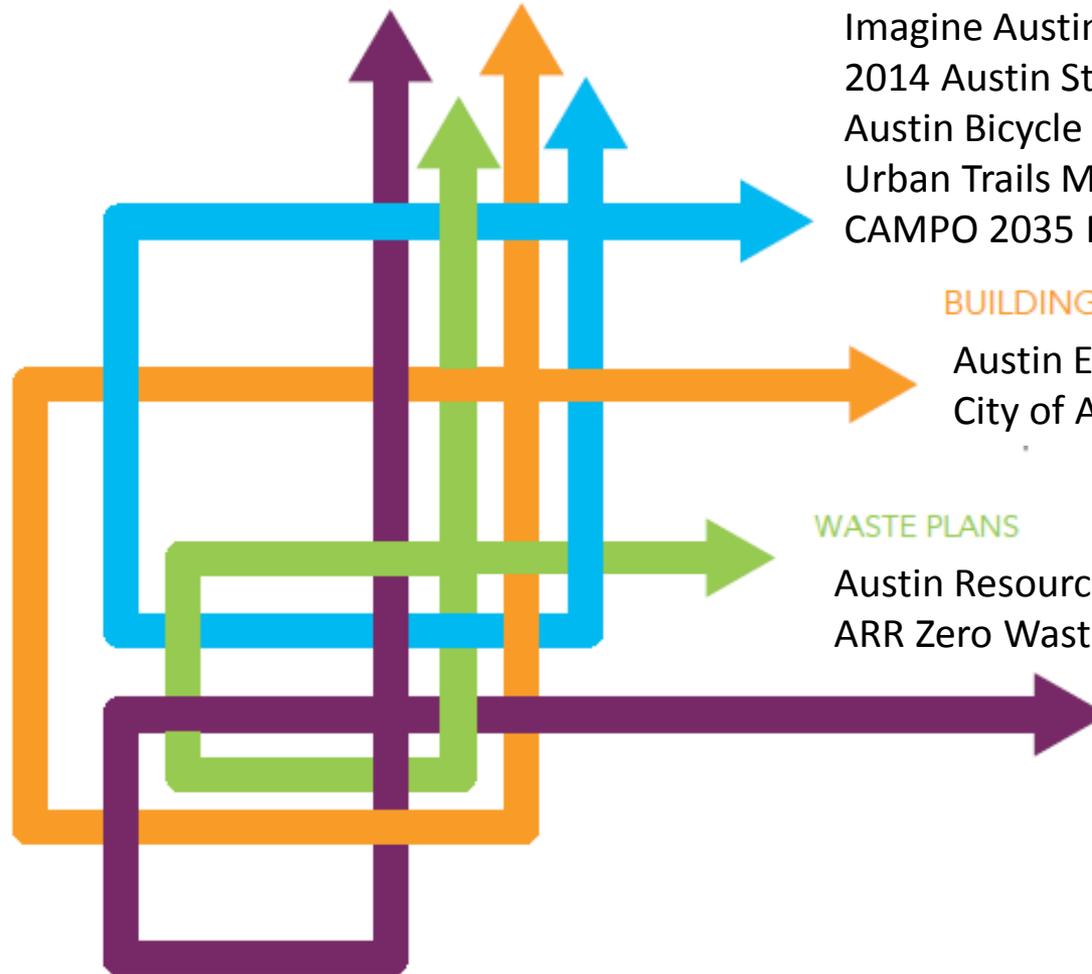
On April 10, 2014, Austin City Council passed Resolution 20140410-024

- Established a new long-term goal of reaching net zero community-wide greenhouse gas emissions by 2050, or earlier if feasible
- Directed the inclusion of the community to drive the plan development, including Technical Advisory Groups for the major emissions sectors (Energy, Transportation, Waste)
- Stated the plan should consider current efforts/initiatives that relate to this goal, and develop new actions that will be needed to accomplish the goal
- Plan due to Council in March 2015



Why Develop a Community Climate Plan?

Austin Community Climate Plan



TRANSPORTATION & LAND USE PLANS

Imagine Austin
2014 Austin Strategic Mobility Plan
Austin Bicycle Master Plan
Urban Trails Master Plan
CAMPO 2035 Regional Transportation Plan

BUILDING ENERGY PLANS

Austin Energy Generation Plan
City of Austin Building Codes

WASTE PLANS

Austin Resource Recovery Master Plan
ARR Zero Waste Plan

PREPARING FOR CLIMATE CHANGE-RELATED PLANS

City of Austin Hazard Mitigation Plan
Watershed Protection Ordinance
Office of Sustainability Climate
Resilience Efforts

Source:
Adapted from Seattle's Climate Action Plan

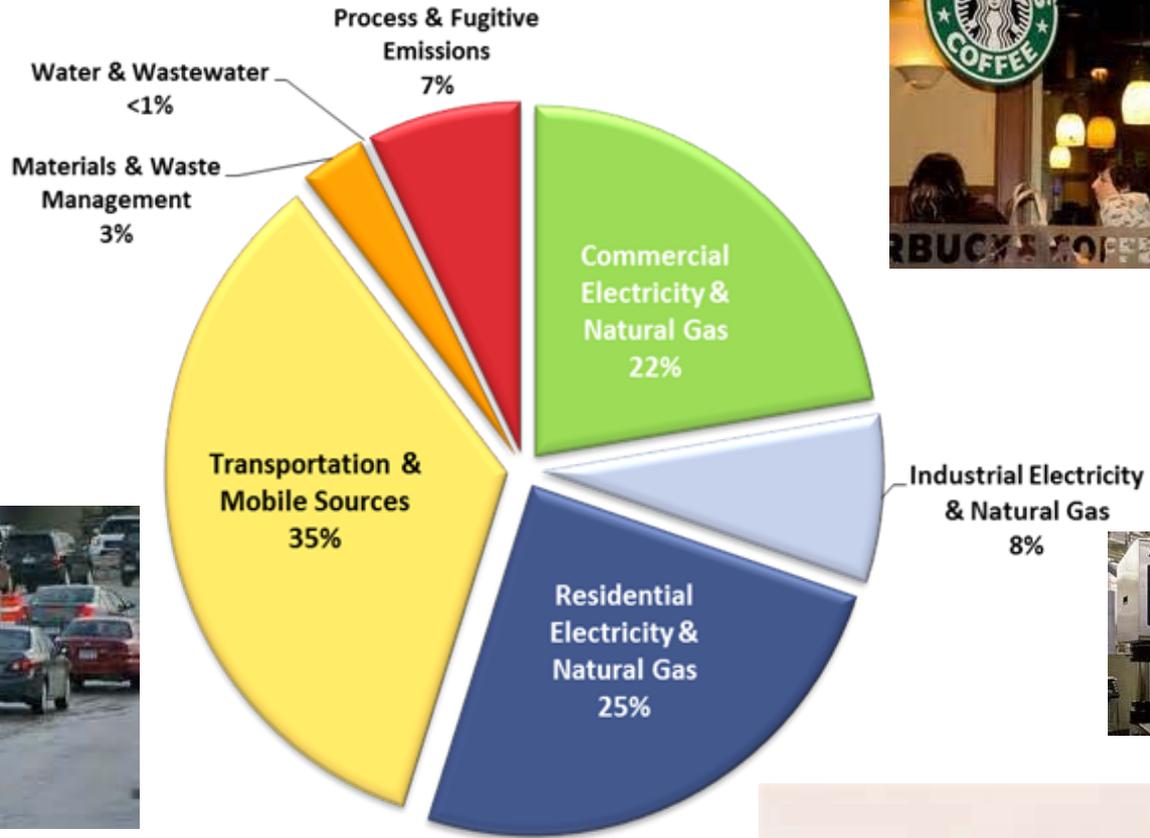


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Our Approach

2010 Travis County GHG Emissions 14 Million Metric Tons CO₂e



Our Approach

What does net-zero in 2050 mean?



Image: Scientific American

90% reduction in direct emissions

Electricity and Natural Gas

- Renewable and efficient electricity

Transportation

- Major reduction in vehicle miles traveled, increase in renewably fueled vehicles, and switch to active and public transportation

Materials Management

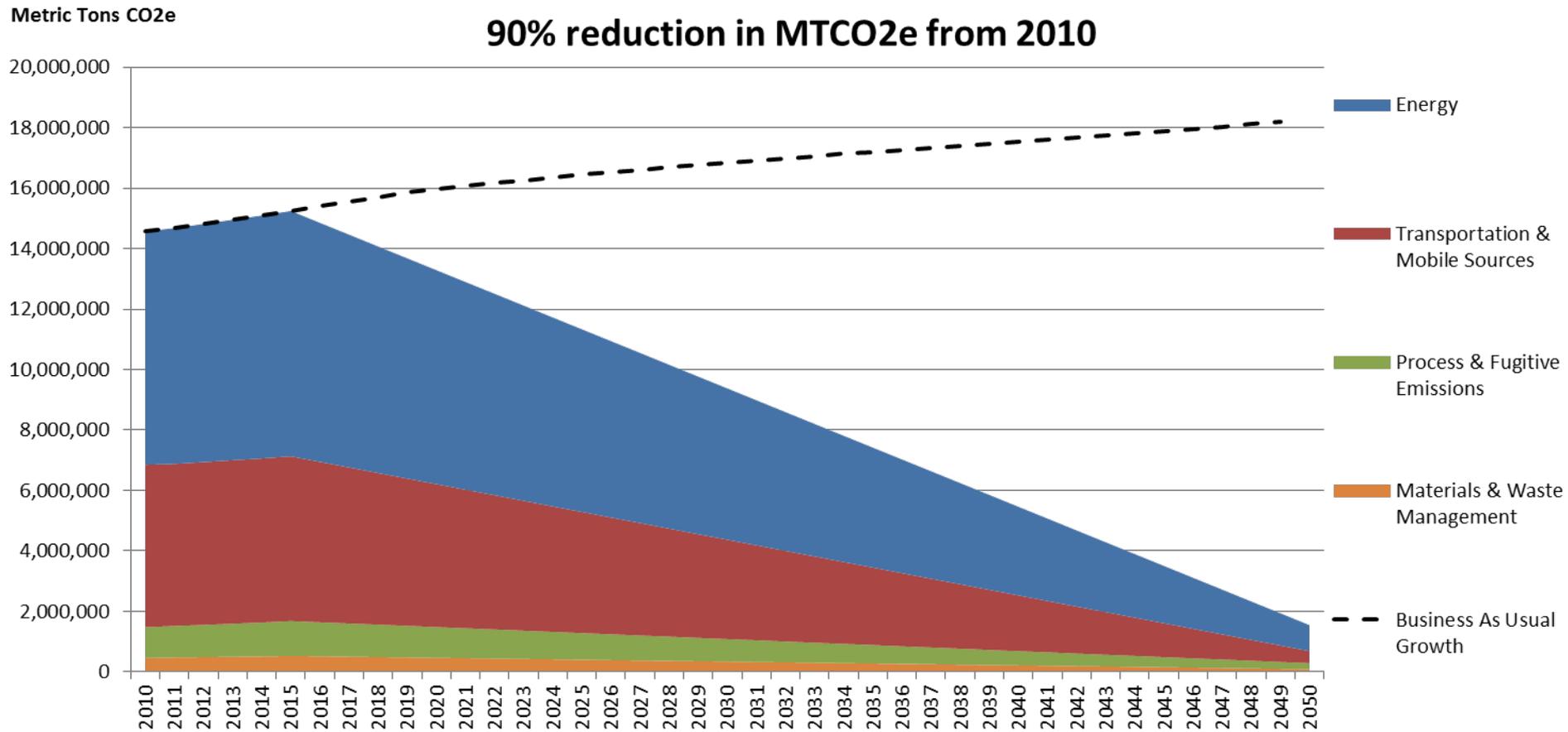
- Landfills capture and destroy all methane
- Major diversion and reuse of materials, especially organics

Industry

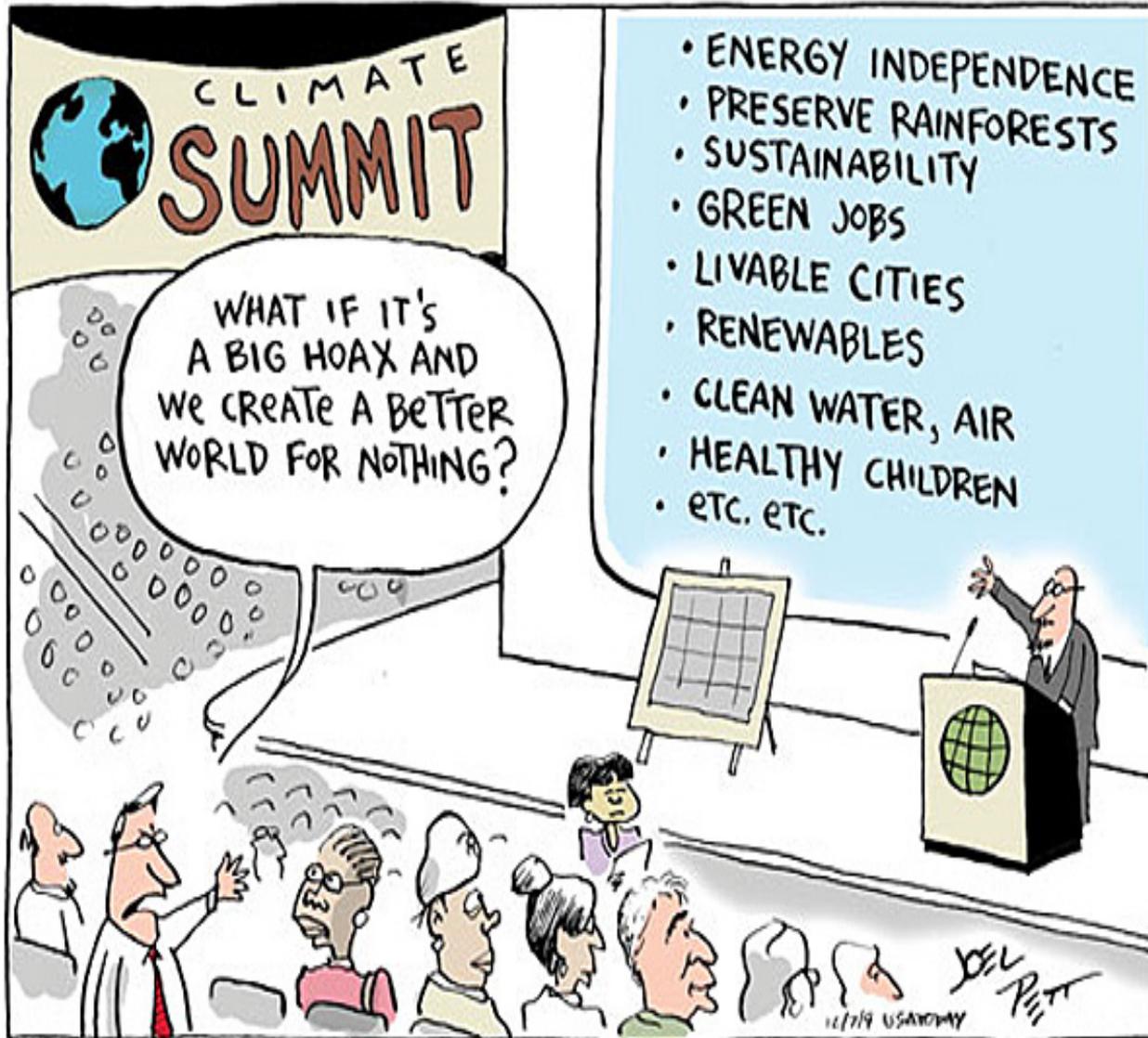
- Chemical replacements, new processes, and offsets

Our Approach

What does net-zero in 2050 mean?



Our Approach



Source: Matt Embrey in *Sunday Funnies*, December 13, 2009.

Plan Development Process



- June 2014, the Office of Sustainability formed a Community Climate Steering Committee and four Technical Advisory Groups (TAGs):
 - Electricity and Natural Gas
 - Transportation
 - Materials Management
 - Industrial Process



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Plan Development Process

Steering Committee

Name	Organization
Roger Duncan	Energy Institute, University of Texas
Mike Blackhurst	UT School of Engineering Professor
Joep Meijer	Climate Buddies
Al Armendariz	Sierra Club Senior Campaign Representative
David Cortez	Austin Interfaith Network
Kaiba White	Public Citizen
Pam Reed	Texas Climate & Carbon Exchange
Vanessa Sarria	Community Advancement Network, Executive Director
Mitch Jacobsen	ATI Clean Energy Incubator, Co-Director
Francois Levy	American Institute of Architects
Tim Mohin	AMD Director of Corporate Responsibility
Jere Locke	Texas Drought Project
Kevin Tuerff	EnviroMedia, President
Todd Hemingson	Capital Metro VP of Strategic Planning & Development
Jim Marston	EDF, VP of Energy
Tamala Barksdale	Enviromedia and AISD board member
Jeremy Martin	Greater Austin Chamber of Commerce, Senior VP Government Relations



Plan Development Process



College Students



Central City
Individuals and Families



Suburban
Individuals and Families



Retired Individuals and Couples



Small Businesses / Nonprofits



Large Companies / Employers



Tourists and Visitors

Plan Development Process



Reduced energy costs



Improved energy security and reliability



Decreased risk of energy shortages or outages



Diminished water consumption by power plants



Reduced pollution



Improved air quality



Improved public health



Thriving local economy and increased consumer spending



Expanded local jobs creation



Enhanced transit system



Reduced traffic congestion



Safer streets



Improved disaster preparedness



Protected and enhanced ecosystems



Greater affordability for all



CO-BENEFITS



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Plan Development Process

Electricity and Natural Gas

Behavior Change and Education
Generation Technologies
Buildings and Integrated
Efficiency

Materials Management

Organics Diversion
Purchasing
Methane Management
Recycling
Reduction Reuse

Industrial Process

Fuel Switching
Process Optimization
Capture and Destruction
Local Offsets

Transportation

Infrastructure and Service
Land Use
Demand Management
Policy and Planning
Vehicles and Fuel Efficiency
Economic and Pricing Systems

Plan Development Process

Qualitative and quantitative analysis of all proposed actions

51 actions in Phase 1

- New action or currently in an adopted city plan
- Already in development or needs research to implement soon
- Fewer barriers or limiting factors in the way
- Direct large or indirect large avoided emissions
- Additional benefits identified
- **Will be considered for implementation upon plan adoption or part of the implementation planning effort over the next year**

82 actions in Phase 2

- Mostly actions in 2020-2050 timeframe (more conceptual)
- Has larger barriers related to policy, funding, technology
- Small/indirect/no impact on emissions
- Few additional benefits



Climate Plan Next Steps

1. Pending Council Adoption:
 - Commit to moving forward with a short list (1-3) of the new Phase 1 actions from each TAG
 - Develop an implementation plan for the remainder of new Phase 1 actions within one year of adoption (prioritization and budget requirements)
2. Determine feasibility of a sustainability impact statement for major city council decisions (CIP and major expenditures)
3. Determine strategy to assess options to evolve utility business models
4. Continue climate resilience planning efforts



Climate Plan Revision Schedule



Process Next Steps

- Present to other organizations and B&Cs
- Finalize plan document with feedback
- Present to Council in March

Thoughts, comments, questions?

Individual Survey: Demographic Profile

Age

- 18 to 24 – 5%
- 25 to 34 – 26%
- 35 to 44 – 23%
- 45 to 54 – 18%
- 55 to 64 – 16%
- 65 to 74 – 10%

Income

- Less than \$30,000 – 11%
- \$30,000 to \$50,000 – 24%
- \$50,000 to \$75,000 – 25%
- \$75,000 to \$100,000 – 12%
- \$100,000 to \$150,000 – 15%
- \$150,000 and over – 11%
- Not shared/unknown – 3%

Gender

- Male - 41%
- Female - 59%

Race

- Black/African American – 2%
- White/Caucasian – 84%
- Native American – 1%
- Asian – 5%
- Hispanic/Latino – 5%
- Refused – 2%