

Office of Sustainability Quarterly Update

Resource Management Commission
August 19, 2014

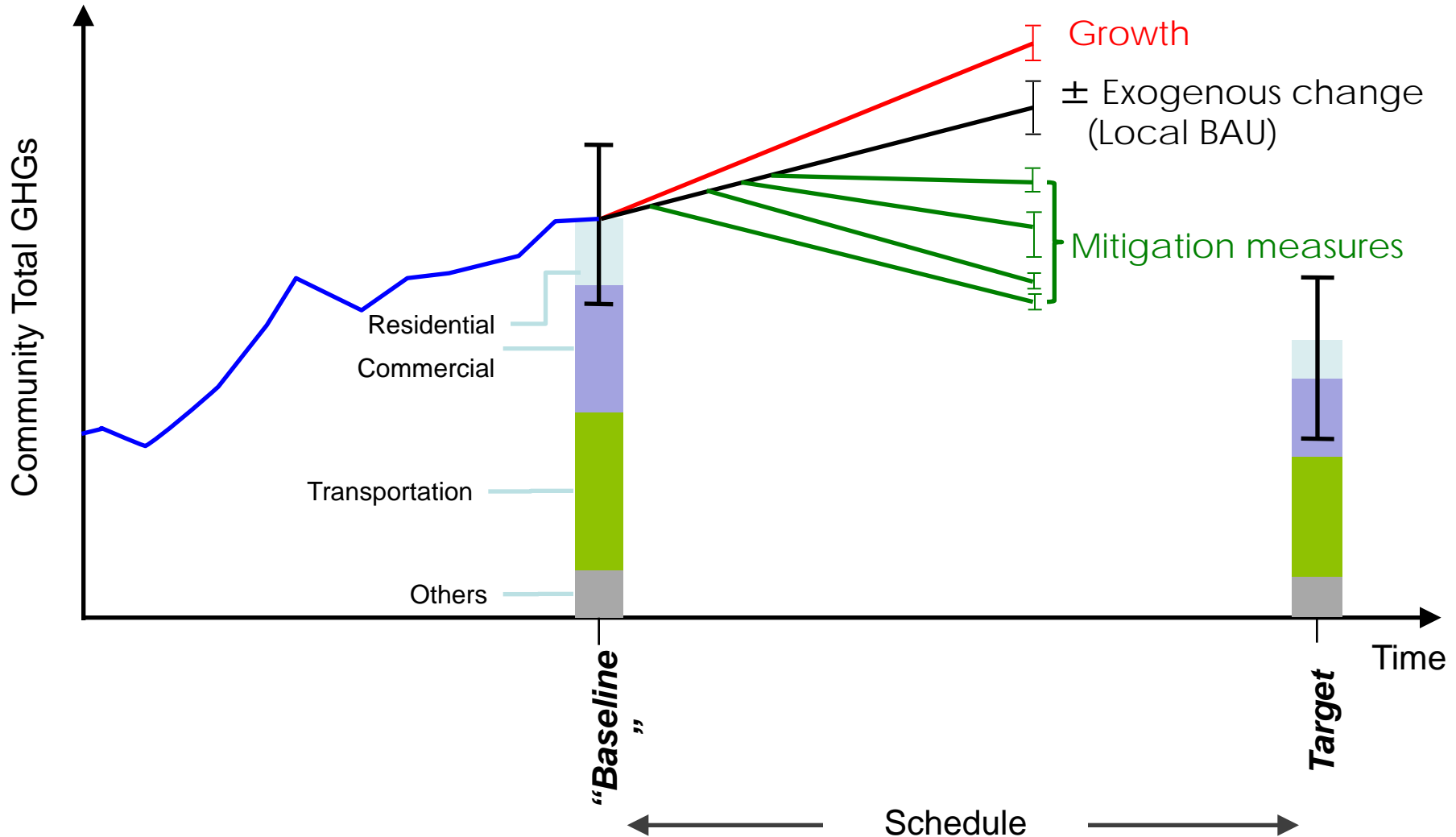
Topics to Cover

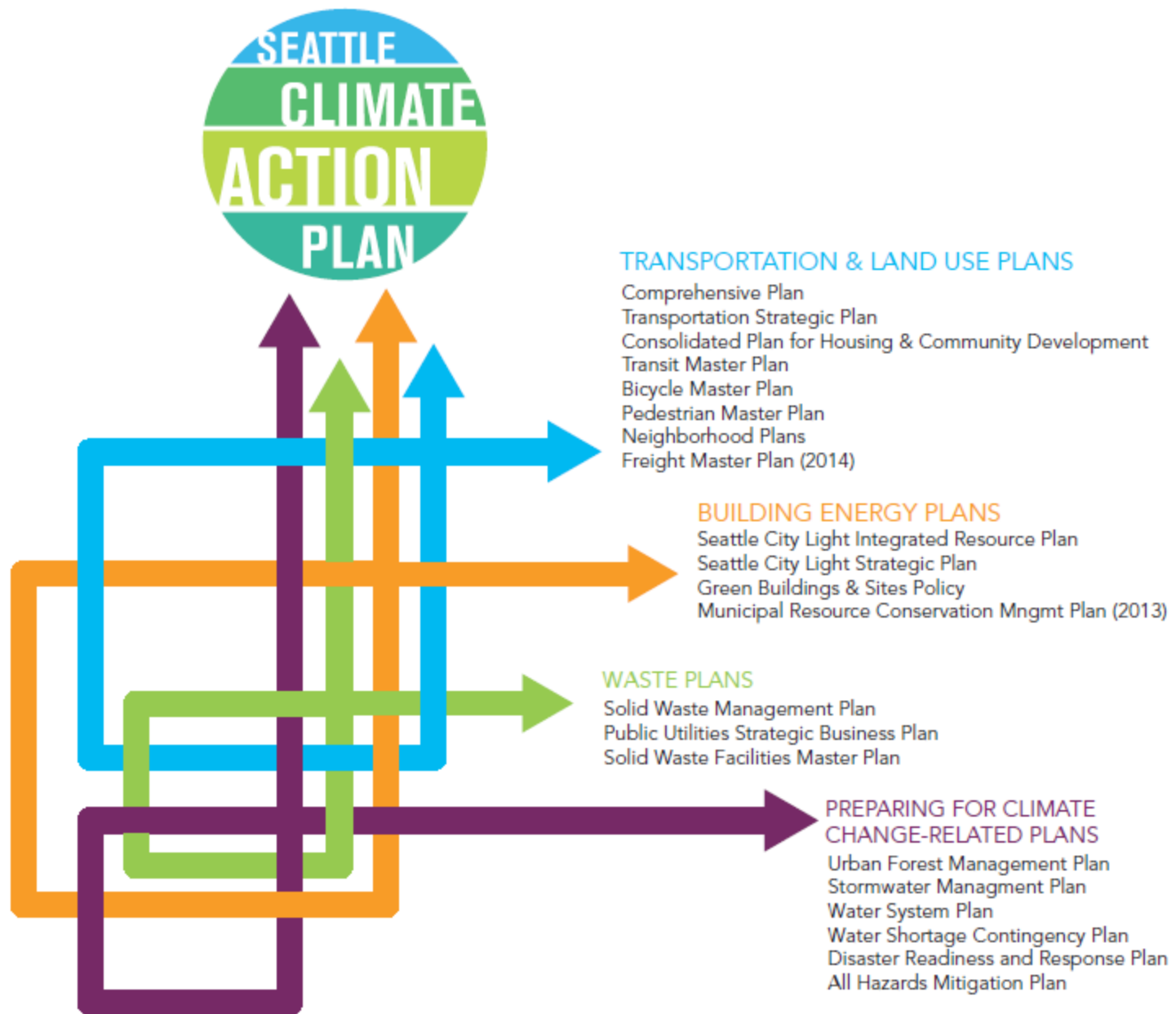
- Net Zero Resolution and Approach
- DRAFT Public Engagement Plan
- Baseline Inventory
- Schedule

Council Resolution 20140410-024

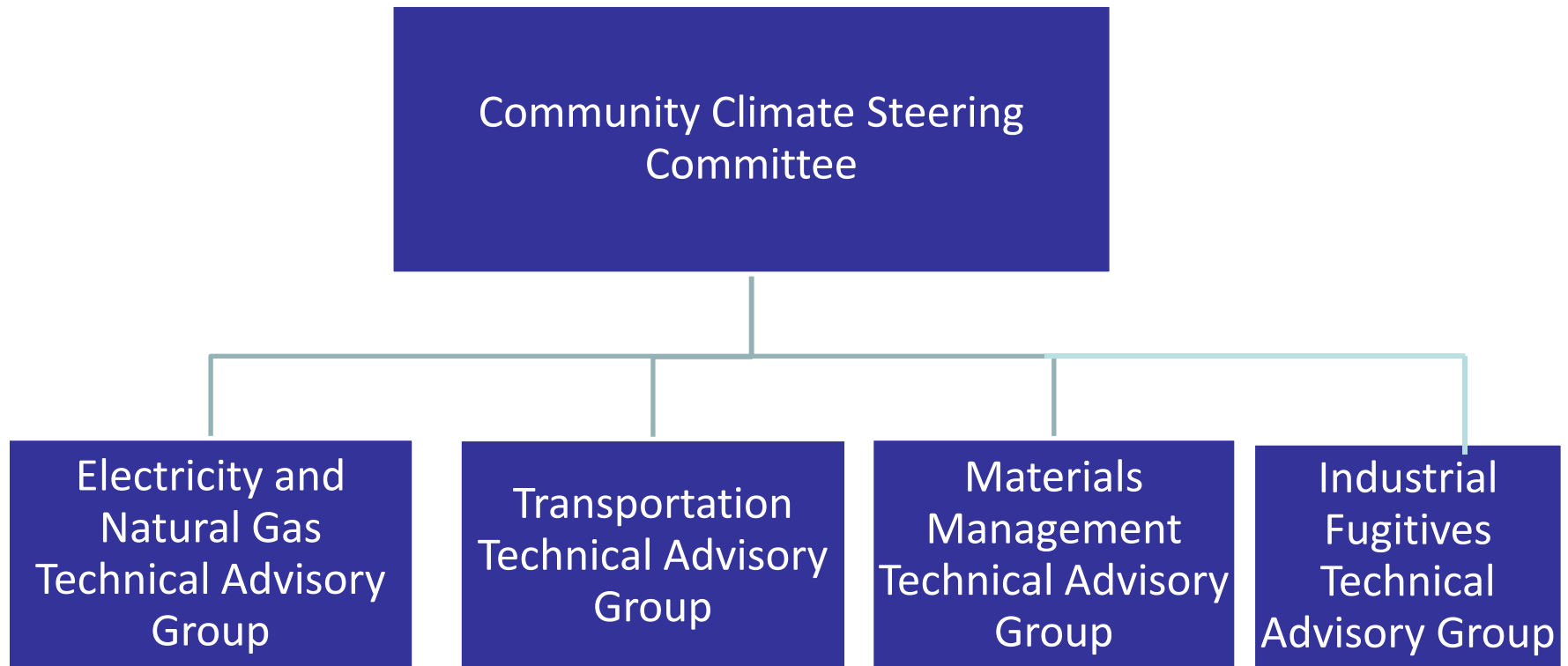
- Council established goal: Net zero community wide greenhouse gas emissions by 2050
 - Prefers to achieve as soon as feasible
 - Emission reductions accomplished sooner are more important
- Review goals & objectives in 2007 Climate resolution
- Recommend:
 - Measurable interim targets starting with 2020, periodically to 2050
 - How and when annual progress reports will occur
 - How often to conduct comprehensive updates to the climate plan

The Planning Paradigm





Organization



TAG Purpose: Create and distill the strategies, actions, and sub-measures for each sector

Steering Committee

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
Jeremy Martin	Greater Austin Chamber of Commerce, Senior VP Government Relations

Steering Committee Charter Statement

- The Community Climate Steering Committee is convened to:
 - Lead and guide the development of a plan to achieve net zero community-wide GHG emissions by 2050 (or sooner) in order to reduce the negative economic, health, and environmental impacts from climate change
- This plan will be developed in a way that:
 - Is open and transparent
 - Balances the interests of the Austin community
 - Is realistic within the constraints of currently available information
 - Provides clear and compelling implementation pathways
 - Maintains Austin's position as a climate leader
 - Gains support and adoption by the City Council in 2015

<http://austintexas.gov/page/community-greenhouse-gas-emissions>

4 Sector Action Plans

- Three planning horizons:
 - 2015-2018
 - 2018-2030
 - 2030-2050
- Secondary goals & measures for sector specific factors
- Feasibility & how other sectors could make up for shortfalls
- Take into account:
 - Population and business growth
 - Available and emerging technology
 - Potential costs and benefits
 - Climate preparedness and resilience
 - Barriers where the City does not exert direct control

Materials Management TAG

Woody Raine	Austin Resource Recovery
Andrew Dobbs	Texas Campaign for the Environment
Brandi Clark Burton	Austin EcoNetwork
Adam Gregory	Texas Disposal Systems Inc
Ashley Faseler	Waste Management
Shaun Auckland	Travis County
Brad Emerson	Progressive Waste Solutions
David Hogan	Austin Zero Waste Alliance
Gena McCarthy	Austin Resource Recovery
David Greene	Austin Water Utility
Jody Slagle	City of Austin – Hornsby Bend
Donald Hardee	City of Austin – FM812 Landfill

Electricity and Natural Gas TAG

Matt Russell	Austin Energy, Environmental Services Manager
Jeff Vice	Austin Energy, Director of Local Government Relations
Babu Chakka	Austin Energy, Energy Market Analysis Manager
Richard Morgan	Austin Energy, Director of Green Building
Larry Graham	Manager of Regulatory Affairs, Texas Gas Service
Gurcan Gulen	Researcher, Jackson School at the University of Texas, Austin
John Hoffner	Renewable and Sustainable Design Consultant
Morgan Stinson	Principal at Energy Engineering Associates
Henry Eby	Consultant, Former LCRA Manager of Environmental Affairs
Michelle Van Hyfte	Manager Environmental Stewardship, Seton Healthcare
Peter Pfeiffer	Architect
Doug Lewin	SPEER
Jeff Clark	Executive Director, Wind Coalition

Transportation TAG

Karla Taylor	Austin Transportation Department
Terri McManus	Austin Transportation Department
Cari Buetow	Austin Transportation Department
Pharr Andrews	Austin Transportation Department
Kane Carpenter	Austin Bergstrom International Airport
Surbhi Bakshi	Planning and Development Review
Cathy Stephens	CAMPO, Planning and Enviro. Program Manager
Jon White	Travis County, Director of Natural Resources & Environmental Quality
Bonnie Lister	TXDOT, Transportation Planner
Dennis Perkinson	Texas A&M / TTI Program Manager
Rob Borowski	CapMetro, Sustainability Officer
Billy Fields	Texas State University, Resilient Communities
Tom Wald	Bike / Ped Community
Karl Popham	AE Emerging Technologies and Electric Vehicles Manager
Glenn Gabdois	Movability Austin, Executive Director
Brandi Clark Burton	Austin EcoNetwork

Industrial Fugitives TAG

Britt Taylor-Burton	Spancion Inc.
Robert Castor	Freescall
Robin Smith	RMS Interests
Nadia Tamby	Samsung
Invited	Austin White Lime

Topics to Cover

- Net Zero Resolution and Approach
- DRAFT Public Engagement Plan
- Baseline Inventory
- Schedule

Public Engagement Goals

- Provide transparency throughout the planning process.
- Obtain public comment and input from a diverse set of stakeholders.
- Gain an understanding of resident and business behaviors to inform development of a realistic plan that can be successfully implemented.

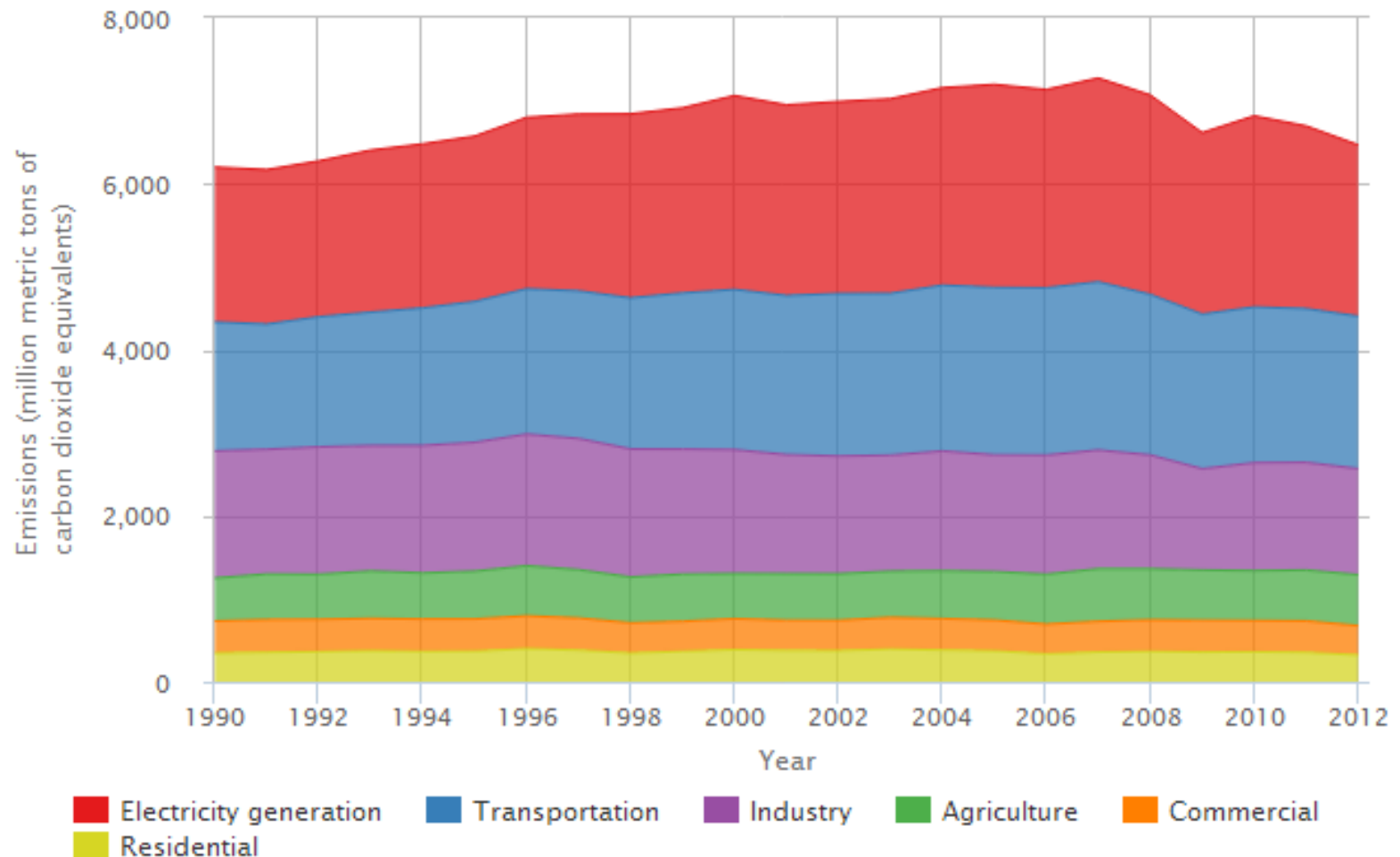
Diverse Input

- Steering Committee meetings open to the public
- Steering Committee webpage
- General Resident Feedback
 - SpeakUp Austin and an online feedback tool
 - In-person interviews through SPEAKweek
 - Public input session
- Targeted Presentation Outreach
 - Neighborhood Associations, Neighborhood Planning Teams
 - Nonprofits and community organizations
 - Chambers of Commerce
 - Business Associations
- Boards and Commissions

Topics to Cover

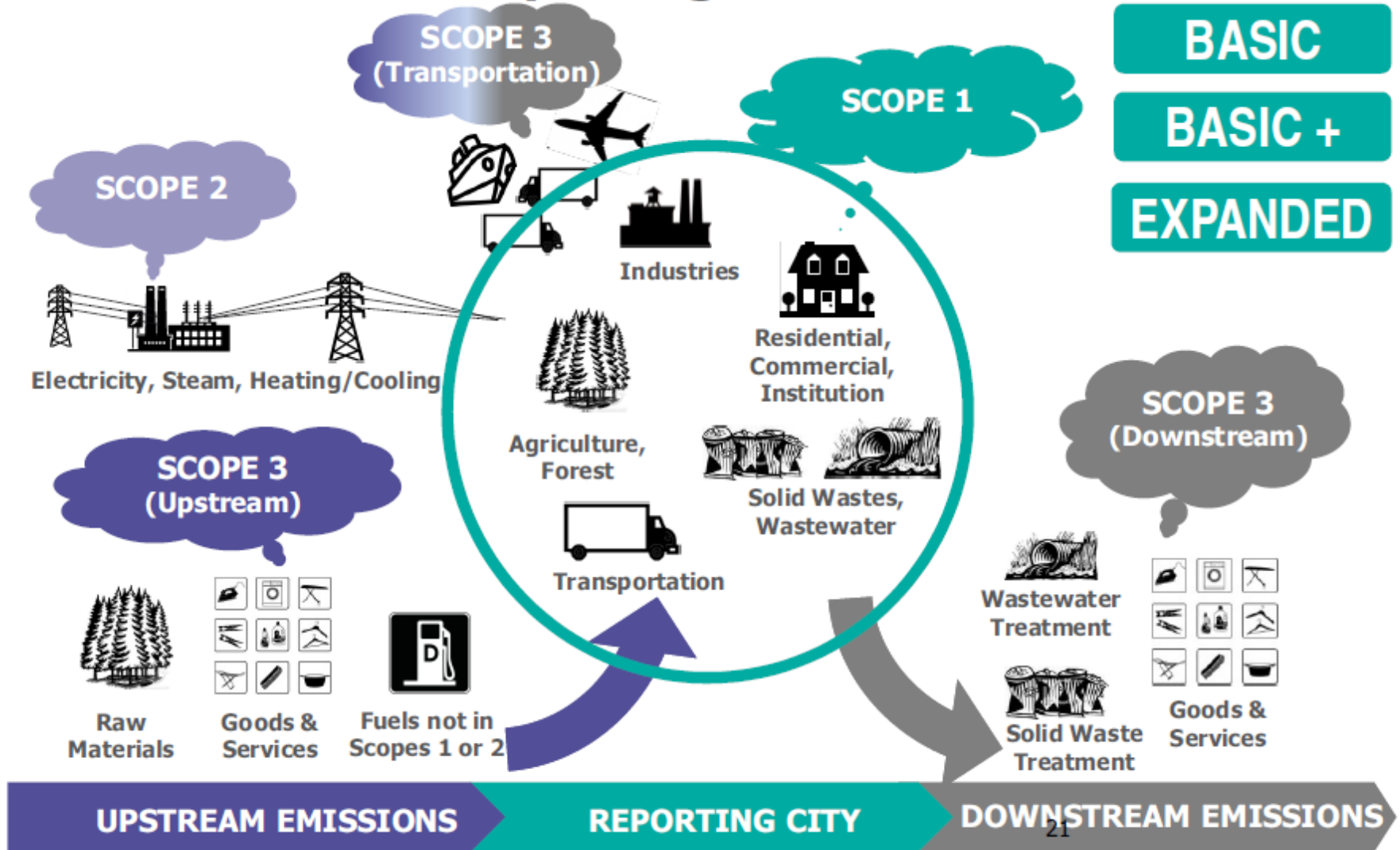
- Net Zero Resolution and Approach
- DRAFT Public Engagement Plan
- Baseline Inventory
- Schedule

U.S. Greenhouse Gas Emissions by Economic Sector, 1990-2012

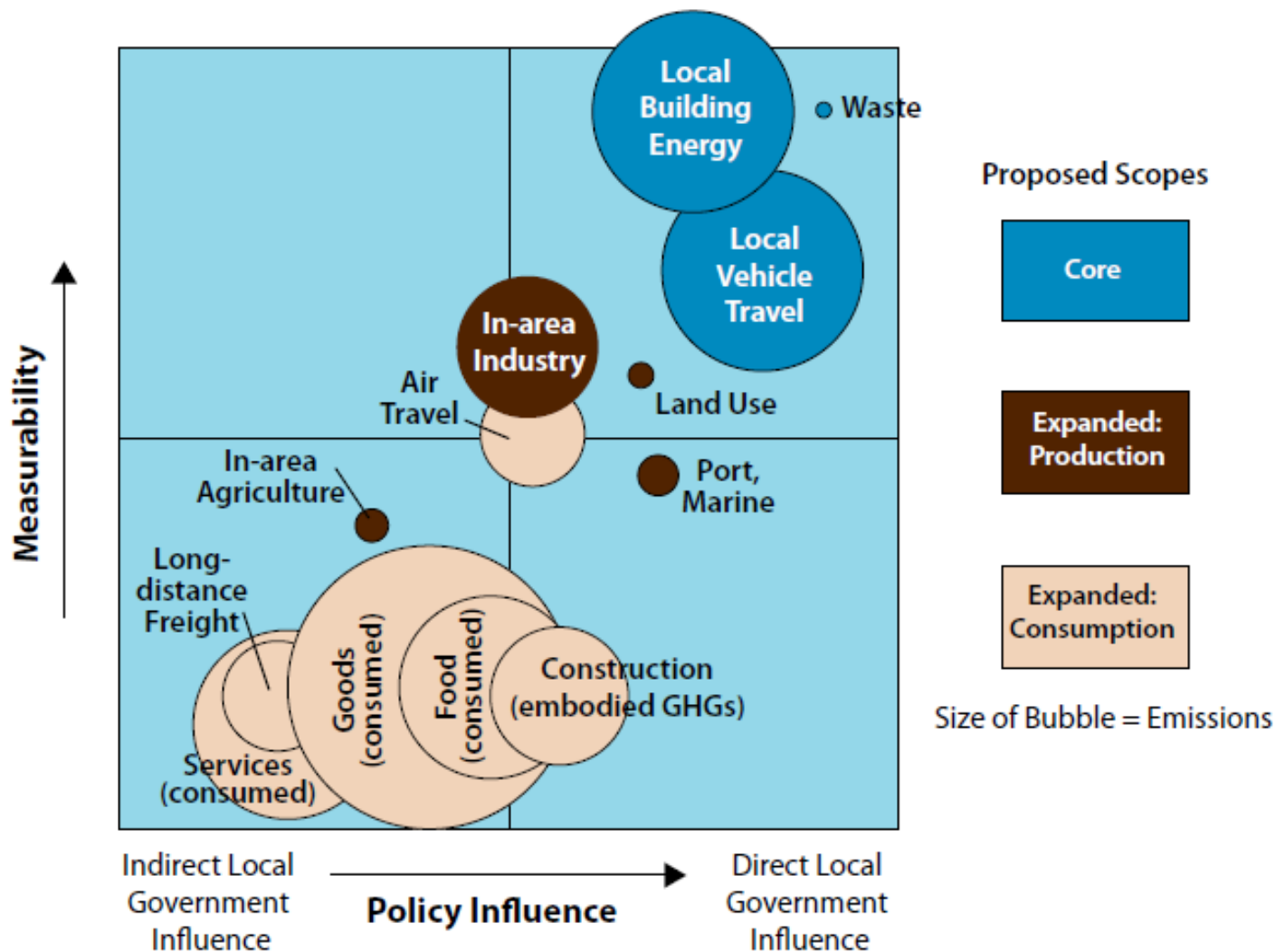


Source: U.S. EPA's Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2012.
<http://www.epa.gov/climatechange/ghgemissions/usinventoryreport.html>

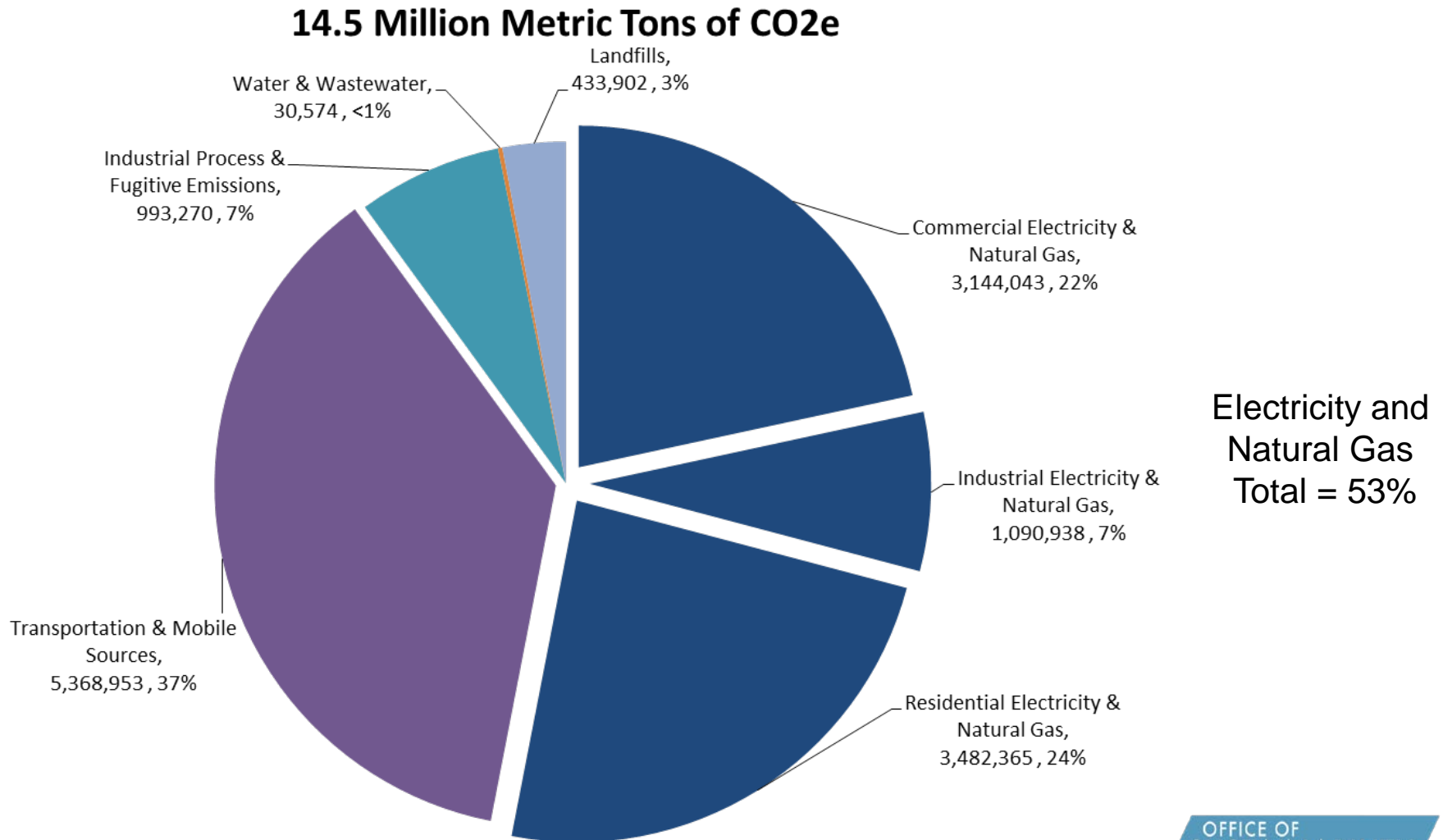
Illustration of Reporting Framework



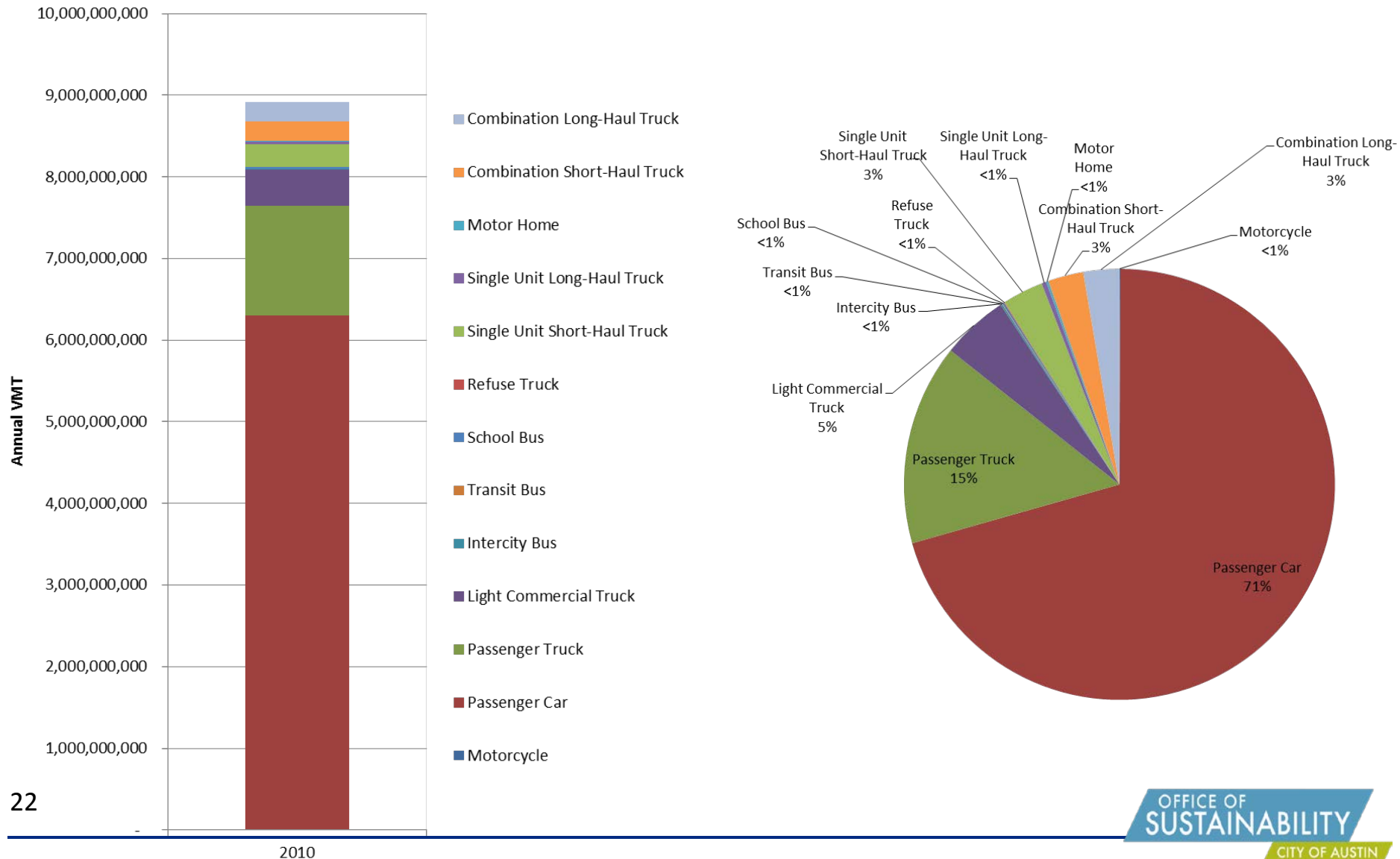
GHG measurability vs influence



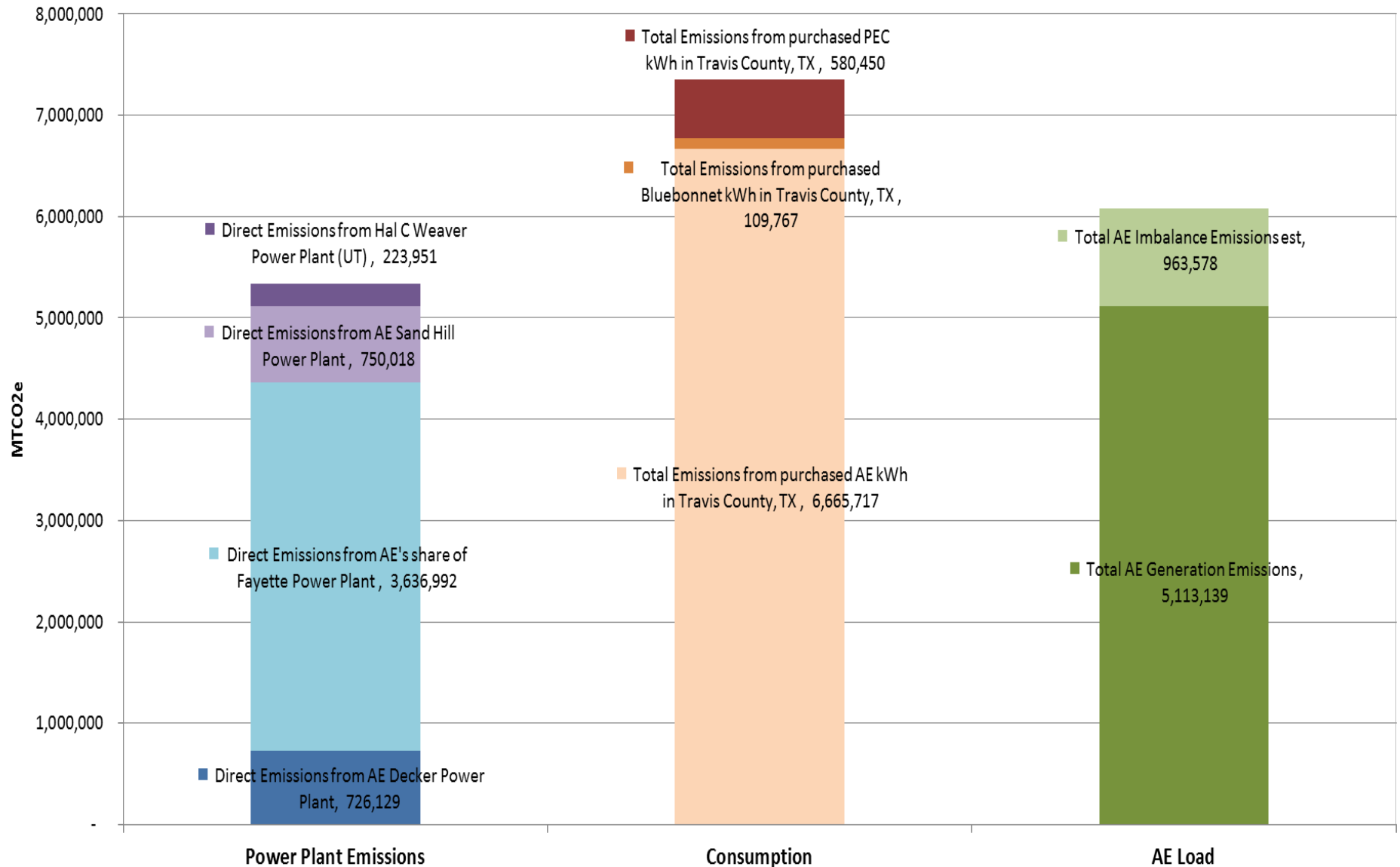
2010 Estimated Travis County GHG Inventory



Transportation: Vehicle Mix



2010 Electricity Carbon Emissions in MTCO₂e Travis County, TX



Industrial Process

Source	2011	2012
Freescale EB site	62,897 mtCO2e	58,107 mtCO2e
Freescale OH site	53,809 mtCO2e	59,528 mtCO2e
Samsung Austin	406,859 mtCO2e	322,024 mtCO2e
Spancion	92,188 mtCO2e	93,050 mtCO2e
Austin White Lime	271,216 mtCO2e	301,907 mtCO2e
TOTAL	886,969 mtCO2e	834,616 mtCO2e

Source: EPA Facility Level Information on Greenhouse Gases Tool (FLIGHT)

24 <http://ghgdata.epa.gov/ghgp/main.do>

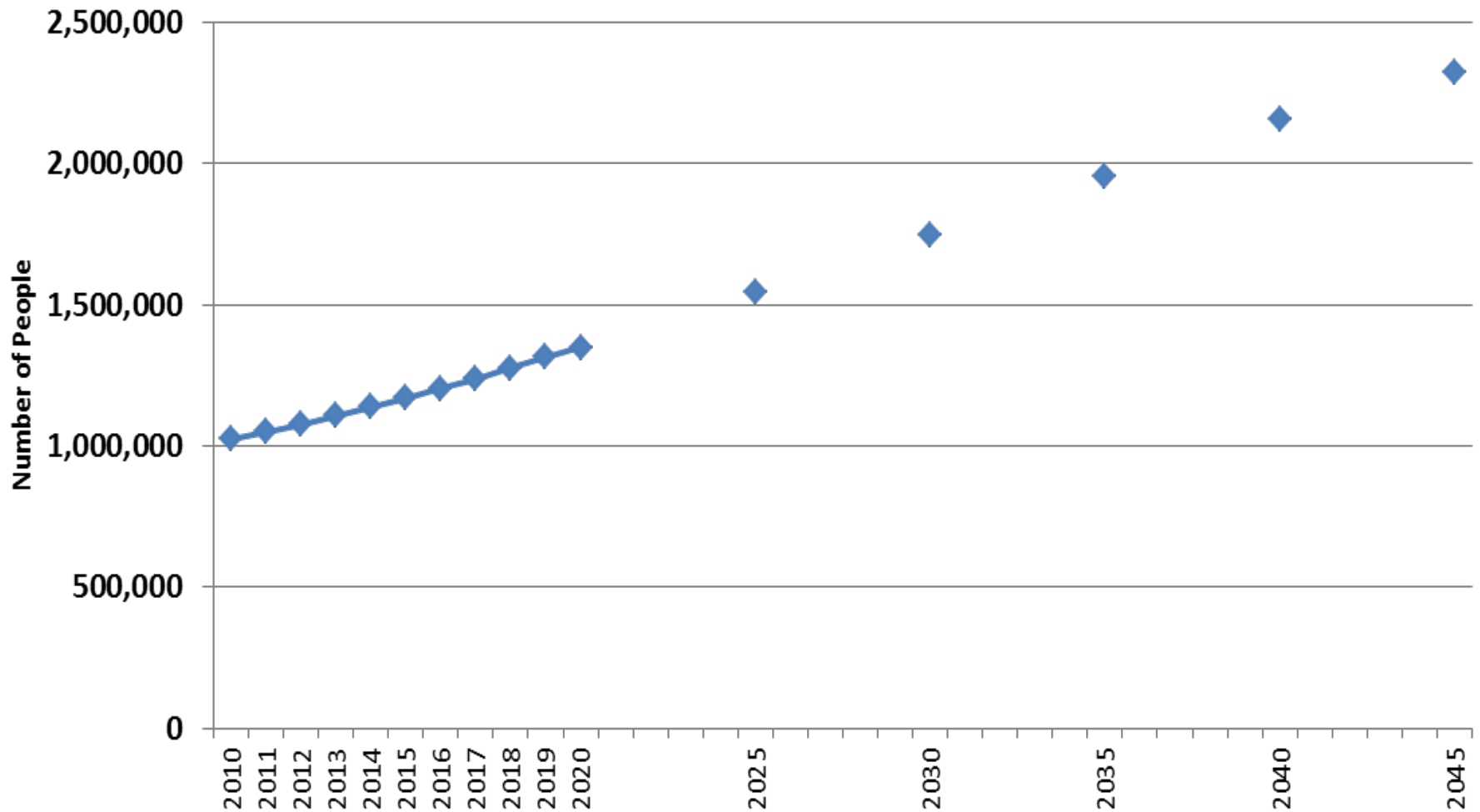
Landfills and Wastewater

Source	2010	2011	2012
Texas Disposal Systems Landfill	269,661 mtCO ₂ e	293,543 mtCO ₂ e	319,286 mtCO ₂ e
Sunset Farms Landfill	94,565 mtCO ₂ e	78,712 mtCO ₂ e	119,776 mtCO ₂ e
Waste Management Landfill	60,474 mtCO ₂ e	57,935 mtCO ₂ e	57,689 mtCO ₂ e
FM 812 Landfill	9,193 mtCO ₂ e	17,785 mtCO ₂ e	25,790 mtCO ₂ e
Wastewater treatment plants	32,500 mtCO ₂ e	32,500 mtCO ₂ e	32,500 mtCO ₂ e
TOTAL	466,393 mtCO₂e	480,475 mtCO₂e	555,041 mtCO₂e

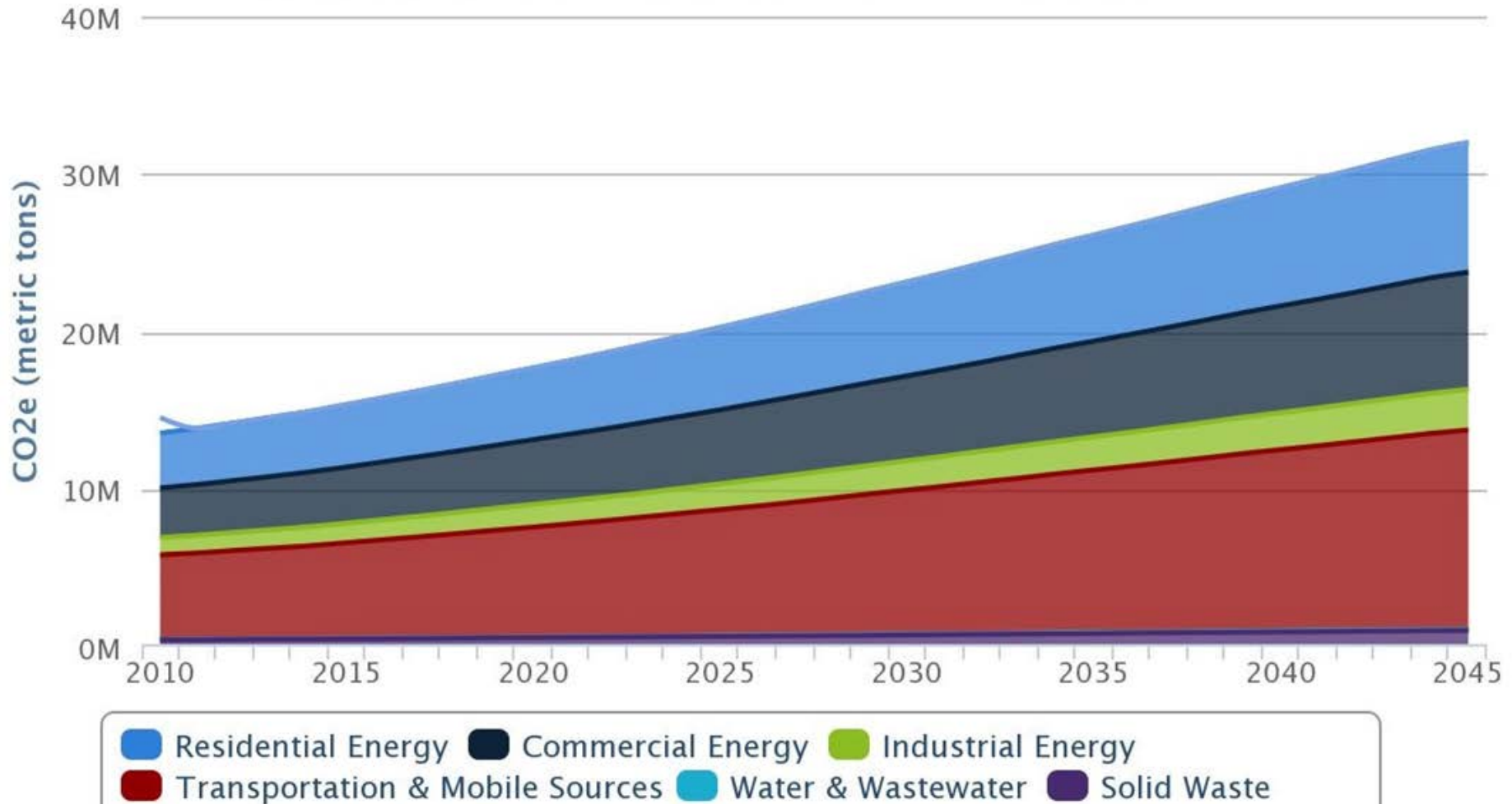
Source: EPA Facility Level Information on Greenhouse Gases Tool (FLIGHT)

<http://ghgdata.epa.gov/ghgp/main.do>

Population Projections for Travis County



Emissions and Business as Usual Growth



Topics to Cover

- Net Zero Resolution and Approach
- DRAFT Public Engagement Plan
- Baseline Inventory
- Schedule

Schedule

1. Framework – May - September 2014

- a) Advisory group and steering committee organization
- b) Framework for meeting targets
- c) Progress update to City Council

2. Final Plan – October 2014 - March 2015

- a) Strategies designed for near, mid, and long-term
- b) Actions quantitatively and qualitatively screened
- c) Public input on the plans and actions
- d) Boards and Commissions review and council adoption

Resolution
20140410-024

3. Implementation Plan

- a) Specific actions
- b) Costs and schedules
- c) Data tracking



Thank you!