

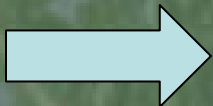
Austin Climate Protection



2009 Reporting
Resource Management Commission
August 17, 2010

Snapshot of ICLEI'S Measuring Up Report

Jurisdiction	First Emissions Reduction Target	Second Emissions Reduction Target	Third Emissions Reduction Target
Clinton County, MI	10% ▼ 2007 ► 2012		
Hennepin County, MN	15% ▼ 2007 ► 2015	30% ▼ 2007 ► 2025	80% ▼ 2007 ► 2050
City of Minneapolis, MN	12% ▼ 2006 ► 2012	20% ▼ 2006 ► 2020	80% ▼ 2006 ► 2050
City of Kansas City, MO	10% ▼ 2000 ► 2010	20% ▼ 2000 ► 2015	30% ▼ 2000 ► 2020
City of Bozeman, MT	15% ▼ 2000 ► 2020		
City of Asheville, NC	80% ▼ 2001 ► 2050		
City & County of Durham, NC	50% ▼ 2005 ► 2030		
City of Keene, NH	20% ▼ 1995 ► 2015		
Township of Galloway, NJ	80% ▼ 2007 ► 2050		
Township of Hamilton, NJ	20% ▼ 2008 ► 2020		
City of Las Vegas, NV	7% ▼ 2005 ► 2012		
Town of Bedford, NY	20% ▼ 2004 ► 2020		
Town of Brighton, NY	7% ▼ 2005 ► 2012		
City of Ithaca, NY	20% ▼ 2001 ► 2016		
City of New York, NY	30% ▼ 2005 ► 2030		
City of Syracuse, NY	20% ▼ 2001 ► 2006	20% ▼ 2006 ► 2010	
City of Cincinnati, OH	8% ▼ 2006 ► 2012	40% ▼ 2006 ► 2028	
Township of Haverford, PA	30% ▼ 2005 ► 2020		
City of Pittsburgh, PA	20% ▼ 2003 ► 2023		
Township of Upper Dublin, PA	10% ▼ 2007 ► 2017		
City of Chattanooga, TN	7% ▼ 1990 ► 2012	20% ▼ 1990 ► 2020	
City of Knoxville, TN	12% ▼ 2005 ► 2012	20% ▼ 2005 ► 2020	
Metro. Gov't of Nashville, TN	5% ▼ 2005 ► 2012	20% ▼ 2005 ► 2020	
City of Austin, TX	99% ▼ 2007 ► 2020		
City of Dallas, TX	15% ▼ 2005 ► 2020		
City of Salt Lake City, UT	30% ► 2017	70% ► 2040	
Roanoke County, VA	30% ▼ 2007 ► 2020		
City of Roanoke, VA	12% ▼ 2005 ► 2015		
Town of Brattleboro, VT	20% ▼ 2000 ► 2010		
City of Burlington, VT	20% ▼ 2007 ► 2020	80% ▼ 2007 ► 2050	
Town of Middlebury, VT	20% ▼ 2002 ► 2012		
City of Bellingham, WA	64% ▼ 2000 ► 2012	70% ▼ 2000 ► 2020	
Clallam County, WA	10% ▼ 2006 ► 2012	20% ▼ 2006 ► 2015	50% ▼ 2006 ► 2030
City of Edmonds, WA	7% ▼ 2006 ► 2012		
King County, WA	80% ▼ 2003 ► 2050		



Climate Protection Staff Projects

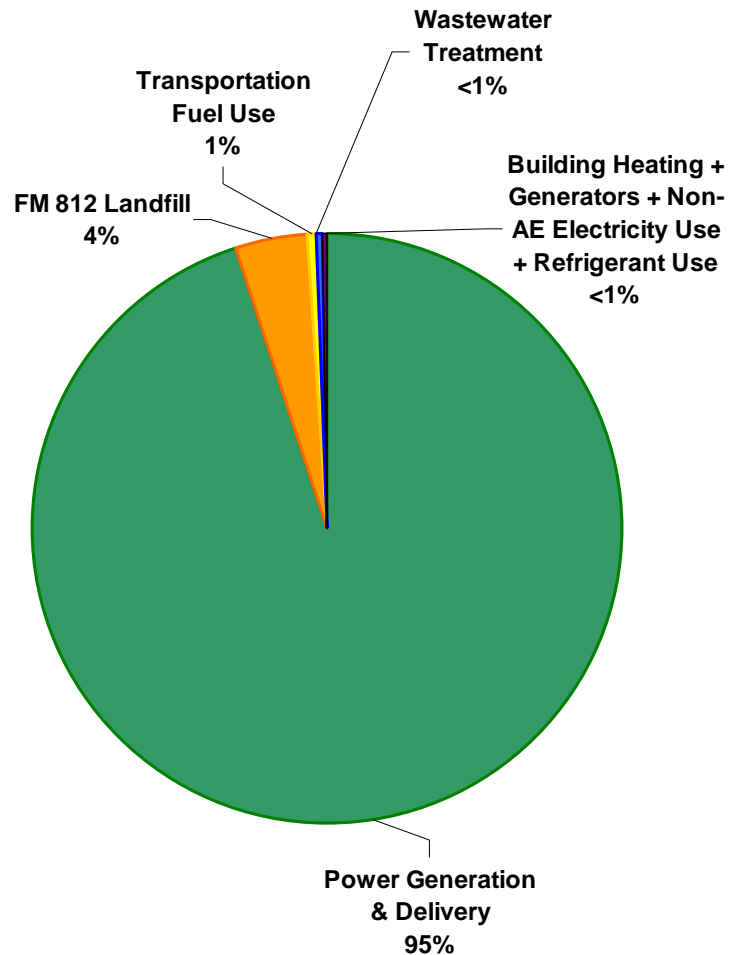
- Create Municipal and Community Inventories
- Develop and implement Departmental Climate Protection Plans (DCPPs) and create reporting system
- Create and implement municipal employee climate protection education program
- Work with stakeholders and advisors to establish short and long-term targets for reducing community-wide emissions and report out in one year
- Develop an Austin-specific online Carbon Footprint Calculator
- Develop a menu of GHG reduction strategies for citizens to fund
- Develop a program for recognition of GHG reduction
- Provide offset credits for visitors to purchase



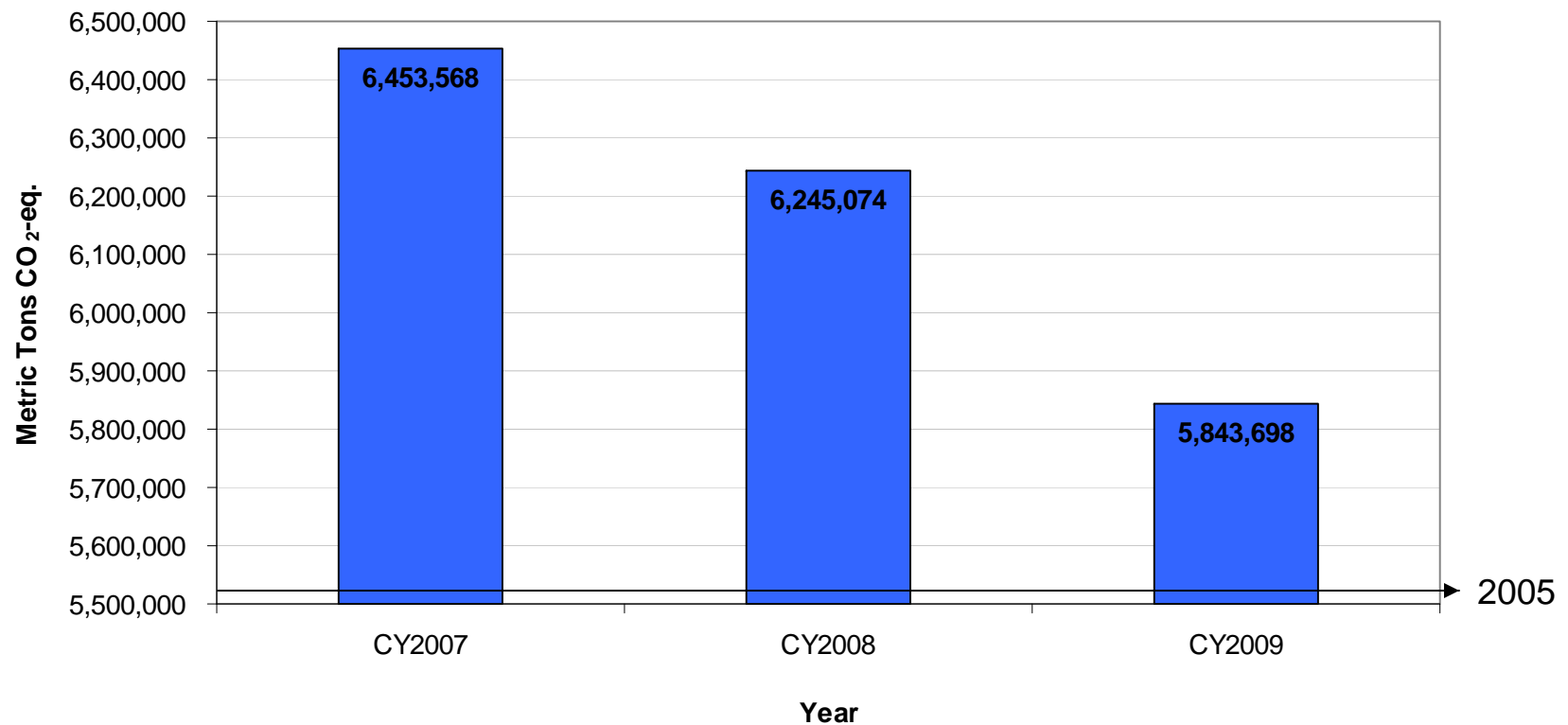
Municipal Inventories

2009 Municipal Inventory

5,843,698 metric tons CO₂-eq.
Equivalent to the Greenhouse Gases from the Annual Electricity Use of
856,300 Austin Homes



2007 - 2009 Municipal Inventories



Municipal GHG Reduction

- ACPP staff develops municipal inventory
- Departments review inventories and work with ACPP to identify goals for reduction
- Goal commitments set in Departmental Climate Protection Plans (DCPPs)
 - Signed off on by Departmental Directors
 - Assistant City Managers
 - ACPP Director
- DCPP goals loaded into Climate Action Reporting System (CARS)

Energy, Waste, Water,
Transportation, Purchasing,
Education data all
automatically upload into
system

CARS automatically collects
data from CIS and other
databases to create monthly,
quarterly, and yearly reports
on emissions

Monthly reports provide
interdepartmental
assessment and tracking of
progress on goals set
within the DCPs

How CARS works

23 City Departments

5 City Buildings

**Climate Action Reporting
System (CARS)**

Monthly Reports

Reducing Municipal GHG Saves \$

Collectively, the quantifiable goals set by the 23 departments and 5 buildings have the potential in the first year (2010) to reduce:

- 5.8 million kilowatt-hours (kWh) of electricity, avoiding \$462,000 in electricity costs
- 48,000 hundred cubic feet (ccf) of natural gas, avoiding \$32,000 in heating costs
- 53.6 million gallons of water, avoiding \$225,000 in water costs
- 194,300 gallons of transportation fuel, avoiding \$619,800 in fuel costs
- 337,300 metric tons of GHG emissions (relative to CY2007 baseline)

Value of Departmental Plans

The 337,300-metric ton reduction in GHGs in 2010 reduces the City's total municipal operations carbon footprint by 5 percent compared to 2007 levels and potentially avoids \$1.3 million in operating costs.

If this level of reduction is achieved each year between 2010 and 2020, the City can expect to cut its carbon footprint by nearly 50 percent.

ACPP Training and Outreach in 2009

2044 Students, K – College	}	Total participants	3648
1162 COA Employees			
442 Community members			

“Train the Trainer” Program for COA departments launch in 2010, beginning with the Convention Center Department.

On line training for City staff in development with November 2010 launch date.

Austin Climate Protection Plan

- Municipal Plan
- Utility Plan
- Homes and Buildings Plan
- Community Plan
- “Go Neutral” Plan

Municipal Plan



- Power 100% of city facilities with renewable power by 2012
 - 19% of energy use and 45% of the City accounts on GreenChoice® in 2009, remaining facilities by 2012
- Make City fleet vehicles carbon neutral by 2020
 - 55% of fleet are alternative fuel capable
- Greenhouse gas (GHG) inventory and Department Climate Protection Plans
 - Inventories complete, department plans complete
- 1162 City employees received training in climate protection in 2009

Majority of COA Vehicle Fleet is Alternative Fuel-Capable

Vehicle Fuel Type	No. of Vehicles	% of Total
Gasoline	2,056	43%
Biodiesel (B20)	1,798	38%
Ethanol (E85)	385	8%
Propane	271	6%
Hybrid-electric	198	4%
Electric	51	1%
Natural Gas (CNG)	12	0%
Total	4,771	100%

55% of
fleet is
alt fuel-
capable

Note: Includes current vehicles capable of running on alternative fuels plus FY09 alternative fuel-capable vehicle purchases

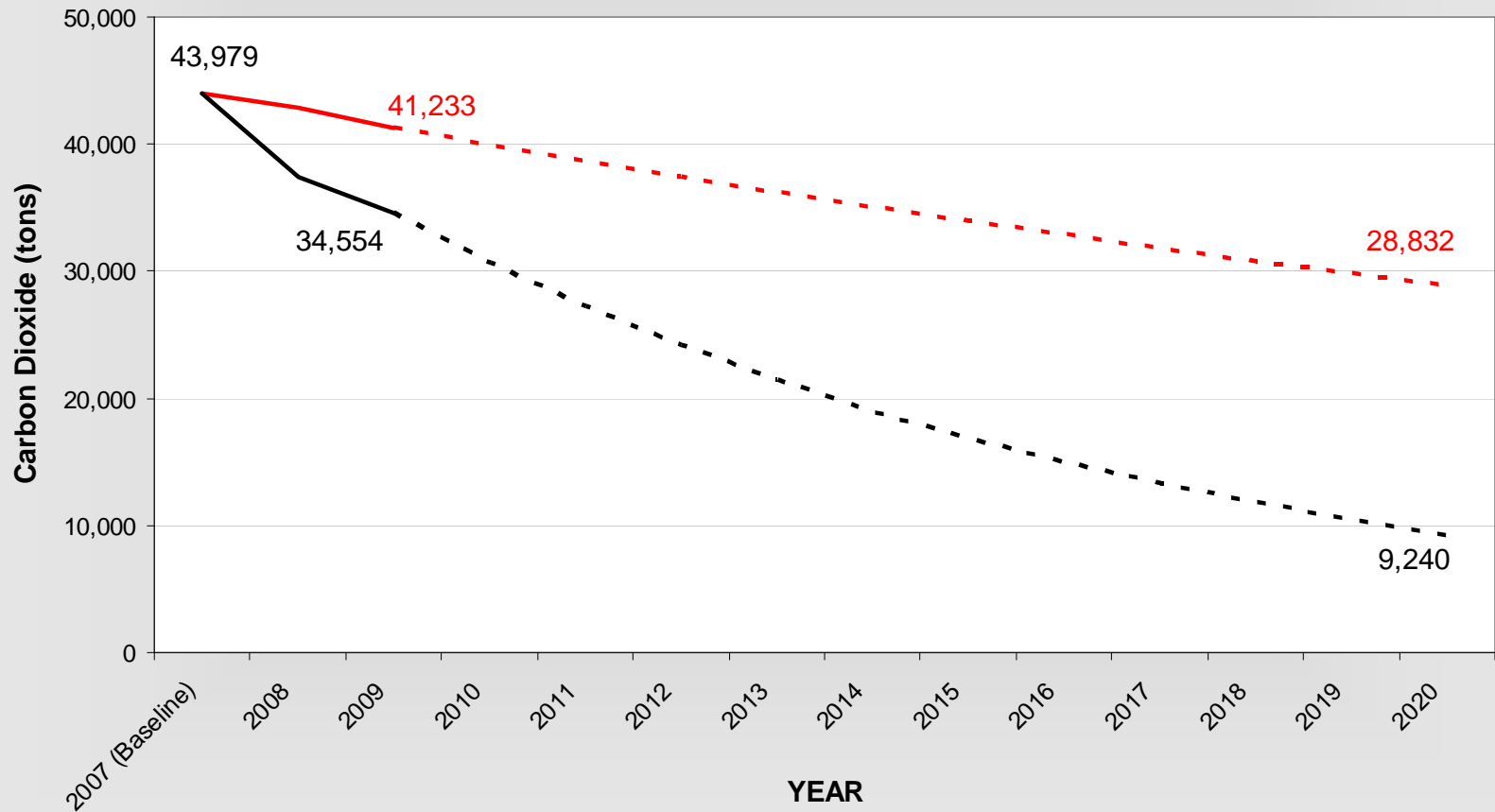
Alternative Fuel Vehicle Audit

May 25, 2010

Solid Red = Actual carbon emissions due to COA vehicle use
Dashed Red = Projected* COA vehicle carbon emissions

Solid Black = Carbon emissions if alt fuel use is maximized
Dashed Black = Projected* COA vehicle carbon emissions

* Projections based on a constant application of the two-year average of actual carbon emissions data



Source: OCA analysis of data provided by Fleet Services and ACPP (unaudited).

NOTE: Maximum capability figures assume 100% availability of alternative fuels. However, bio-diesel fuel became available in April 2008, while E85 fuel became available in June 2008. Bio-diesel was not available for the full year of 2008 or 2009.



Utility Plan



- Establish CO₂ emissions cap and reduction plan
 - Proposed reduction goal of 20% below 2005 by 2020 is in Resource and Generation Climate Protection Plan
- 700 MW of energy demand savings through energy efficiency and conservation by 2020
 - 184 MW to date, 26% of goal, 52.4 MW in 2009
- Meet 30% of all energy needs with renewable sources, including 100 MW of solar, by 2020
 - 10% to date, 30 MW solar in development



Homes and Buildings Plan

- Enhance building codes to make new single-family homes zero net-energy capable by 2015
 - 2009 codes adopted April 2010, 31% more efficient than 2006, 2718 Metric Tons CO₂-eq reduction in 2009
- All new buildings 75% more efficient by 2015
 - 2008 & 2009 code changes resulted in over 38,000 Metric Tons of CO₂-eq reduction for new buildings
- Require energy audit and disclosure
 - Energy Conservation Audit Disclosure Ordinance took effect June 2009, 2 to 3% additional rebate participation over 2008; potential to reduce over 365,000 tonnes of CO₂-eq in voluntary measures
- Enhance technical assistance, standards, and incentives for Austin Energy's Green Building program
 - Mandatory Green Building Report in Draft

Community Plan

- Community Climate Action Plan 2010
 - Planning through 2009
 - Kick-off Charette March 4 and 5, 2010
 - Advisory Committee meetings held on April 1 and June 16
 - Next stakeholders meeting August 24, 2010
- Target date of March 2011 for Summit and development of manual for community's use

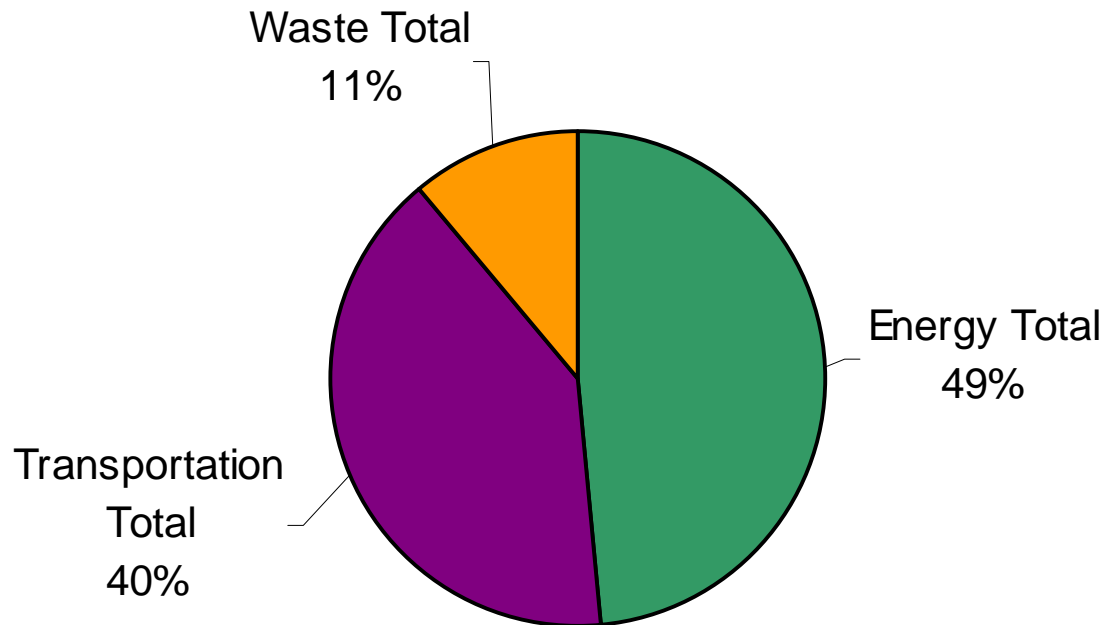


2007 Travis County Footprint

Travis County 'Big Picture' GHG Overview

15,697,792 Tonnes CO₂-eq

Equivalent to annual CO₂ emissions from the electricity use of
2 million homes



“Go Neutral” Plan

- Help individuals reduce their carbon footprint
 - Create an online calculator using Austin specific data
Available at www.coolaustin.org
 - Develop local portfolio of carbon reducing activities
Evaluation of Challenge grants is underway
 - Develop recognition program
Environmental Awards presented April 22, 2010



Thank You



Ester Matthews

322-6041