



# Austin Climate Protection Plan 2010 Annual Report



Mission: *To improve Austin's quality of life by reducing our carbon footprint and improving the breathability of our air.*



## AUSTIN CLIMATE PROTECTION PLAN 2010 Update

MUNICIPAL PLAN			
Goals and Objectives	Action Items	Progress	To read more...
<b>Goal: Make all City of Austin facilities, fleets and operations totally carbon neutral by 2020 through measures including:</b>			
<i>Objective 1</i> : powering all City facilities with renewable energy by 2012;	Set aside new wind and other renewable energy contracts until goal is met.	53% of City facilities use GreenChoice energy. These facilities generate 18-19% of the City's energy use. It is anticipated that remaining City accounts will move to GreenChoice by 2012.	
	Build solar installations on all new and existing City facilities where feasible.	City installations as of 2009 = 157 kW	



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<b>Goal: Make all City of Austin facilities, fleets and operations totally carbon neutral by 2020 through measures including:</b>			
<p><b>Objective 2:</b> making the entire City fleet of vehicles carbon neutral by 2020 through the use of electric power, non-petroleum fuels, new technologies, mitigation, and other measures as necessary, prioritizing the earliest possible conversion to such fuels and technologies and establishing timelines and benchmarks for such conversions;</p>	<p>Prioritize earliest possible conversion/purchase to alternative fuels and technologies.</p>	<p><b>Purchased (FY09):</b>            150 Biodiesel            108 E85            38 Electric Hybrid            17 Propane            3 CNG            4 unleaded            16 electric</p> <p><b>Current inventory:</b>            184 Hybrid electric            243 Propane            9 CNG            1659 Biodiesel            344 Flex fuel (E85)            2137 gasoline (E10)            55 electric</p>	<p><a href="#">Fuel Audit Report</a></p>
	<p>Determine carbon footprint of the fleet.</p>	<p>Emissions from the City's vehicle fleet are included in the annual municipal operations greenhouse gas inventory (see exhibit X) and the individual Departmental Plans.</p>	



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<b>Goal: Make all City of Austin facilities, fleets and operations totally carbon neutral by 2020 through measures including:</b>			
	Develop purchase / conversion plan for carbon neutrality by 2020.	Automotive applications –Hybrid electric followed by E85. Supplant with hybrids when available.  Total electric applications when viable.  Light to medium truck applications –E85 followed by propane then diesel trucks using B20  For heavy equipment - B20. Coupled with the tier II emission reduction standard engines produced after '07 will reduce diesel emissions from all COA diesel engines.	
	Develop infrastructure for fueling stations and electric plugs.	Planning continued through 2009 for additional alternative fueling stations and electric charging stations.	
<b>Objective 3</b> : developing and implementing departmental climate protection plans, including policies, procedures, targets, benchmarks and reporting for maximum achievable reduction of greenhouse gas emissions and energy consumption in all City departments;	Develop carbon footprint analysis/audit.	ACPP staff completed CY2007-CY2009 municipal operations greenhouse gas inventory and department inventories. ACPP staff and CTM building automated Climate Action Reporting System (CARS) to replace manual calculations starting with CY2010.	<a href="#">3 years inventory</a>



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<b>Goal: Make all City of Austin facilities, fleets and operations totally carbon neutral by 2020 through measures including:</b>			
	Develop Departmental Climate Protection Plans.	23 departmental and 5 building climate protection plans adopted and in implementation phase.	
<i>Objective 4</i> : developing an employee climate protection education program, programs and incentives to help employees reduce their personal impact on climate change, and training to help employees engage in community outreach for climate protection.	Help staff understand personal carbon footprints.	1162 City employees trained in 2009 using Carbon Footprint Calculator.	



UTILITY PLAN			
Goals and Objectives	Action Items	Progress	To read more...
<b>Goal: Make Austin Energy the leading utility in the nation for greenhouse gas reductions through measures including:</b>			
<i>Objective 1:</i> achieving 700 MW (800 MW proposed) of new savings through energy efficiency and conservation efforts by 2020;	Continue current demand side management (DSM) programs.	In FY2009, DSM reduced 52.4 MW.	
<i>Objective 2:</i> meeting 30 percent (35% proposed) of all energy needs through the use of renewable resources by 2020, including at least 100 MW of solar power;	Update load forecast.	Austin Energy's current generation portfolio includes contracts to purchase all energy produced by 439 MW of wind turbines located at six west Texas wind farms over various contract periods, a 20-year contract beginning in 2012 to purchase all energy produced by a 100 MW bio-mass plant to be built in east Texas and a 25-year contract to purchase all power produced by a 30 MW solar farm to built near Austin in the coming year. Renewable Energy acquisitions are on track to meet 30% goal.	<a href="#">Energy Resource Plan</a>



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<b>Goal: Make Austin Energy the leading utility in the nation for greenhouse gas reductions through measures including:</b>			
	Accelerate Solar Rooftop Program.	DSM solar customer installations were 1.64 MW for a total reduction of 3.6 MW. In December, AE will start a 25-year contract to purchase all power produced by a 30 MW solar farm.	
<i>Objective 3</i> : establishing a CO2 cap and developing and implementing a CO2 reduction plan for existing utility emissions;	Reduction plan vs. load forecast, CO <sub>2</sub> cap target, milestones and schedule.	The Generation and Resource Climate Action Plan establishes a CO2 reduction goal of 20% below 2005 level. Plan will be final when City Council approves Affordability Matrix in September. In FY 2009, energy efficiency reduced 62,000 metric tons of pollution..	<a href="#">Energy Resource Plan</a>
<i>Objective 4</i> : achieving carbon neutrality on any new generation units using carbon-based fuels through the utilization of lowest-emission technologies, carbon capture and sequestration if it is proven to be reliable, mitigation and other prudent measures.	New generation options analysis for carbon neutrality.	New planned generation from Solar and Biomass.	



HOMES & BUILDINGS PLANS			
Goals and Objectives	Action Items	Progress	To read more...
<b>Goal: Implement the most energy efficient building codes in the nation and aggressively pursue energy efficiency retrofits and upgrades to existing building stock through measures including:</b>			
<i>Objective 1:</i> implementing building codes requiring all new single-family homes to be zero net energy capable by 2015;		<p>The first phase of the Zero Energy Capable Homes initiative was the adoption of the 2006 International Energy Conservation Code with local amendments as City of Austin Energy Code. The 2006 IECC was adopted in October of 2007 and became effective on January 1, 2008.</p> <p>The second phase is the adoption and implementation of the 2009 IECC with local amendments as the Austin Energy Code. Code adoption was approved by City Council on April 8, 2010 and will be implemented in late 2010. The improvements to the energy code through the first two phases will reduce energy consumed by new single family homes permitted in Austin by 31%. This is in line with the goals set in the Zero Energy Capable Homes Plan adopted by Council in October of 2007.</p>	
<i>Objective 2:</i> implementing building codes to increase energy efficiency in all other new private and public sector buildings by at least 75 percent by 2015;	Second round of Energy Code implementation at end of 2010.	The all other buildings 75% more efficient initiative is also a building energy code based project. As with ZECH the first phase was the adoption of the 2006 IECC with local amendments as the Austin Energy Code and the second phase was the adoption of the 2009 IECC and local amendments	





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<b>Objective 3:</b> implementing policies identifying opportunities for energy efficiency retrofits and upgrades, and requiring all cost-effective retrofits and upgrades for all properties at the point of sale;	Review implementation of Energy Conservation Audit and Disclosure Ordinance and success rate at end of 2010.	<b>Residential Homes</b> <ul style="list-style-type: none"> <li>• 2,833 Audits Submitted</li> <li>• 2,751 Non-Exempt Homes Sold*</li> <li>• 230 Participated in Rebate/Loan/FW/AEP Program*</li> </ul> *TCAD Data from Jun 09 – Oct 09 <b>Commercial Properties</b> <ul style="list-style-type: none"> <li>• 45 Ratings Submitted</li> <li>• Lowest Rating: 22 Highest Rating: 95</li> <li>• Coordinating with local BOMA chapter in submitting 71 ratings, totaling over 12.5 million square footage</li> </ul>	
<b>Objective 4:</b> developing enhanced technical assistance and marketing incentives and standards for the Green Building Program, developing policies requiring achievement of upper-tier ratings in cases where green building is mandated as a product of City programs or negotiations, and developing an optional "Carbon Neutral" certification to accompany green building ratings.	Increase technical assistance to Green Building customers.	Green Building prepared the Mandatory Green Building Zones Report and Recommendations. A compilation of all the programs, initiatives and negotiations that have resulted in a green building mandate being placed on a building project in Austin. Included in the report is an analysis the various mandates successes and weaknesses. Departmental comments will be delivered to CMO 2010.	



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<b>Goal: Implement the most energy efficient building codes in the nation and aggressively pursue energy efficiency retrofits and upgrades to existing building stock through measures including:</b>			
	Enhance marketing of Green Building program, including development of a carbon-neutral certification to accompany applicable Green Building ratings.	GB staff working with Energy Efficiency Section to develop new commercial construction incentives based on energy modeling of the entire building through the design phase rather than based on component efficiency.	<a href="#">Green Building Report</a>



COMMUNITY PLAN			
Goals and Objectives	Action Items	Progress	To read more...
<b>Goal: Establish an interdepartmental City Climate Action Team responsible for creating an inventory of greenhouse gases generated from all sources community-wide, working with stakeholders and technical advisors, establishing short-term and long-term targets for reducing these emissions, and reporting back to the City Council in no more than one year with a comprehensive plan for meeting those targets.</b>			
<i>Objective 1:</i> Create a greenhouse gas emissions inventory from all sources community-wide against which progress in meeting greenhouse gas reduction targets can be measured	Greenhouse Gas Emissions Inventory	Inventory completed in 2007. 15,697,792 Tonnes CO <sub>2</sub> eq. Next inventory will be completed in 2010.	
	Charrette	Community Climate Action Planning ongoing, with proposed Summit in March 2011.	



<b>“GO NEUTRAL” PLAN</b>			
<b>Goals and Objectives</b>	<b>Action items</b>	<b>Progress</b>	<b>To read more...</b>
<b>Goal: Develop and implement a program to assist all citizens, businesses, organizations and visitors in achieving carbon neutrality through the following measures:</b>			
<i>Objective 1:</i> develop an Austin-specific online "carbon footprint calculator;"	Calculator soft “go live” on January 2, 2010. Official go live on January 15, 2010 in conjunction with the Austin Climate Protection Conference and Expo.	No data until 2010	
<i>Objective 2:</i> develop a menu of greenhouse gas reduction strategies for local implementation that citizens and organizations can fund through the purchase of "carbon offset" credits, thereby reducing their own carbon footprint;	Challenge grant proposed.	Under review.	



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<b>Goal: Develop and implement a program to assist all citizens, businesses, organizations and visitors in achieving carbon neutrality through the following measures:</b>			
<i>Objective 3:</i> develop a program for recognition of households, businesses and other organizations achieving carbon neutrality;	Reinstate Environmental Awards with carbon component.	2010 Mayor’s Individual Achievement Award Winner- Richard Craig  2010 City of Austin Program Award Winner- Austin Energy Green Building Program  2010 Community/Non-Profit Award Winner- Central Texas Zero Waste Alliance  2010 Governmental Agency Award Winner- Texas Facilities Commission Recycle Program  2010 Large Business Award Winner- Dell and Goodwill Industries of Central Texas  2010 School/Educational Award Winner- Bryker Woods Elementary School PTA  2010 Small Business Award Winner- Barr Mansion & Artisan Ballroom	
<i>Objective 4:</i> Promote the concept of carbon neutrality to visitors by offering carbon offsets for purchase by travelers, conventions, tradeshow, and festivals	Kiosk and Challenge Grant	Kiosks in place at Convention Center and Airport. Challenge Grants still under review.	



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<b>Goal: Develop and implement a program to assist all citizens, businesses, organizations and visitors in achieving carbon neutrality through the following measures:</b>			
<i>Objective 5:</i> Cooperate with other local and regional entities to provide technical and investigational assistance and to coordinate region-wide greenhouse gas reduction strategies.	2009 Training	Students, K – College 2044 COA Employees 1162 Community Outreach 442 <hr/> Total 3648	
<i>Objective 6:</i> Support all appropriate Federal and State policies and legislation that will lead to the reduction of greenhouse gas emissions	Austin Energy Governmental Relations Monitors	Ongoing	

