

GOALS & OBJECTIVES	ACTION ITEMS	PROGRESS
<b><i>Goal 1: Make all City of Austin facilities, fleets and operations totally carbon neutral by 2020 through measures including:</i></b>		
<p><b>OVERALL PROGRESS:</b> The City's non-regulated municipal carbon footprint has decreased from 226,000 metric tons of CO2 in 2007 to 75,000 in 2012. These reductions were achieved through energy efficiency measures and the use of zero carbon renewable electricity at City facilities, as well as by using less gasoline and diesel and more B20-biodiesel, E85-ethanol, propane, compressed natural gas, and electric powered vehicles. In February 2013, the City of Austin received a national Climate Leadership Award from the Environmental Protection Agency and its nonprofit partners The Climate Registry, the Center for Climate and Energy Solutions, and the Association of Climate Change Officers. Austin is the first city to receive an Organizational Leadership award for its response to climate change.</p>		
<p><b><u>OBJECTIVE 1:</u></b> Power all City facilities with renewable energy by 2012;</p>	100% GreenChoice	In 2011, the City of Austin became the largest local government in the U.S. to subscribe to 100% renewable energy for powering all City-owned buildings and facilities. In 2012, we continued this commitment and purchased 460,055,822 kilowatt hours of GreenChoice electricity, making the City the largest Austin Energy GreenChoice customer. By making this switch, the City avoided over 214,000 metric tons of CO2-equivalent emissions in 2012 and was awarded the Green Power Partner of the Year award by the US Environmental Protection Agency.
	Solar PV on City facilities	In 2012, 356 kilowatts (AC) in Solar Photovoltaic (PV) Systems were added to 15 facilities that include parks, EMS stations, libraries, service centers, recreation centers, and City office buildings. As of March 2013, the City of Austin owns 58 solar PV installations totaling over 1.5 megawatts (AC), which will generate over 2,731,757 kilowatt hours annually.
<p><b><u>OBJECTIVE 2:</u></b> Make 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>	Austin Energy and City-owned EV charging stations	Austin Energy's Plug-In EVerywhere™ Network has over 160 stations at 70 locations, powered by 100% renewable energy (GreenChoice™ program). As of July 2013, the Network has had over 20,000 charging events (an over 400% increase from the same time last year) and users have consumed 106.8 megawatt hours of electricity, avoiding 151 metric tons of CO2 emissions.
	Develop purchase/conversion plan for fleet carbon neutrality by 2020	On January 17, 2012, Fleet Services and the Office of Sustainability delivered the 2020 Carbon Neutral Fleet Plan to City Council. In 2012, an environmental and economic cost benefit analysis was completed on light duty vehicles. In April 2013, the Office of Sustainability and Fleet Services delivered a progress report to the Council Subcommittee on Comprehensive Planning and Transportation. Emissions from the vehicle fleet have decreased from a 2007 baseline of over 52,000 metric tons of CO2 to 45,000 in 2012, for a 13% reduction. In addition, 94% of new vehicles were alternatively fueled or hybrid, dual-fuel vehicles used alternative fuels 69% of the time, alternative fuel purchases increased by 13.7%, greenhouse gas emissions per mile reduced by 5%, and the citywide fleet miles per gallon increased by 1%.

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<p><b><u>OBJECTIVE 3:</u></b>                      Develop and implement 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;</p>	Develop carbon footprint analysis/audit	Currently, the Office of Sustainability and Building Services are working collaboratively to automate carbon footprint calculations as part of the City's new on-line building management tool, FM Systems. These system improvements will reduce reporting time and increase staff efficiency.
	Develop Departmental Climate Protection Plans	23 City departments and 5 major buildings are currently in the implementation phase of their Climate Protection Plans. Each plan includes actions related to water, waste, transportation, procurement, energy, and education. In early 2012, the Office of Sustainability completed an effort to determine the status (cancelled, completed, deferred, in-progress, on-hold, and not started) for every action in every departmental and building climate protection plan. Each department has been briefed with the status of implementation of their plan and is working to revise, update, or continue implementation.
<p><b><u>OBJECTIVE 4:</u></b>                      Develop 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.</p>	Help staff understand personal carbon footprints	To date, approximately 70% of City of Austin employees have received some form of climate training. In FY 2011-12, 28 in-person training presentations were conducted on climate change that reached approximately 1,154 City employees. In 2012, employee survey results indicated that 50% of City Staff were aware of their department's climate protection plan and 75% were well informed about actions they could take to save energy.

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<b><i>Goal 2: Make Austin Energy the leading utility in the nation for greenhouse gas reductions through measures including:</i></b>		
<p><b><u>OBJECTIVE 1:</u></b> Achieve 800 MW of new savings through energy efficiency and conservation efforts by 2020;</p>	<p>Demand side management (DSM) programs</p>	<p>In 2012, 48.5 megawatts (MW) of peak demand were avoided through energy efficiency programs. Cumulatively, Austin Energy has achieved 318 MW or 40% of the 800MW target as of the end of FY 2012.</p>
<p><b><u>OBJECTIVE 2:</u></b> Meet 35% of energy needs through the use of renewable resources by 2020, including at least 200 MW of solar power;</p>	<p>Generation mix</p>	<p>In 2012, approximately 15% of the power delivered from Austin Energy to its customers came from renewable resources. Purchase power agreements for wind, solar and biomass power will bring our renewable portfolio to 23% by the end of 2013.</p>
<p><b><u>OBJECTIVE 3:</u></b> Establish a CO2 cap and develop and implement a CO2 reduction plan for existing utility emissions;</p>	<p>Austin Energy long-term generation planning</p>	<p>Austin Energy established a goal in 2010 to reduce CO2 emissions from power plants to 20% below 2005 levels by 2020. The total CO2-equivalent stack emissions from City-owned generation units in 2012 were 4,635,867 metric tons, for a reduction of 16.5% since 2005.</p>
<p><b><u>OBJECTIVE 4:</u></b> Achieve 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.</p>	<p>New generation options for carbon neutrality</p>	<p>In 2012, Austin Energy did not add any fossil-based generation capacity. Additional generation capacity was provided by a power purchase agreement with the 100-megawatt Nacogdoches biomass plant that went online in June 2012.</p>

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<p><b><i>Goal 3: Implement the most energy efficient building codes in the nation and aggressively pursue energy efficiency retrofits and upgrades to existing building stock through measures that include:</i></b></p>		
<p><b><u>OBJECTIVE 1:</u></b>  <b>Implement building codes requiring all new single-family homes to be zero net energy capable by 2015;</b></p>	<p>Zero energy capable homes</p>	<p>The first phase of the Zero Energy Capable Homes initiative involved adoption of the 2006 International Energy Conservation Code (IECC) with local amendments as the City of Austin Energy Code in October 2007 (becoming effective on January 1, 2008). The second phase included adoption of the 2009 IECC with local amendments in April 2010 (becoming effective October 1, 2010). These code improvements have reduced the energy used by new single-family homes by 31%, which is in line with goals set by Council in 2007. The next phase will entail adoption of the 2012 IECC with local amendments.</p>
<p><b><u>OBJECTIVE 2:</u></b>  <b>Implement building codes to increase energy efficiency in all other new private and public sector buildings by at least 75% by 2015;</b></p>	<p>City of Austin Energy Code changes</p>	<p>As with Objective 1 above, meeting this goal is based on development, adoption and implementation of the IECC. The first and second phases of this objective involved adoption of the IECC with local amendments. The third phase, development / adoption of the 2012 IECC with local amendments, is underway.</p>
<p><b><u>OBJECTIVE 3:</u></b>  <b>Implement policies, identify opportunities for energy efficiency retrofits and upgrades, and require cost-effective retrofits and upgrades for all properties at the point of sale;</b></p>	<p>Energy Conservation Audit and Disclosure Ordinance</p>	<p>City Council approved the Energy Conservation Audit and Disclosure Ordinance in 2008 (as well as a revised version in April 2011) to improve the energy efficiency of single family, multi-family, and commercial properties in Austin that receive electricity from Austin Energy. In 2012, 11,230 single family homes were sold: 4,118 were exempt from the ordinance, and 3,538 conducted energy audits as required (50% of non-exempt homes). There are 1,372 multi-family properties in Austin: 276 are exempt and 728 had energy audits completed in 2011 (66% of non-exempt properties). In 2012 there were 632 commercial properties (buildings or campuses) larger than 75,000 square feet and 478 of those facilities reported their energy usage using EPA Portfolio Manager, for a total of 81.6 million square feet of conditioned space (80% of the total required). The City of Austin is in compliance with over 40 municipal facilities reporting through June of 2013.</p>

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<p><b><u>OBJECTIVE 4:</u></b>  <b>Develop enhanced technical assistance, marketing incentives, and standards for the Green Building Program, develop policies requiring achievement of upper-tier ratings in cases where green building is mandated as a product of City programs or negotiations, and develop an optional "Carbon Neutral" certification to accompany green building ratings.</b></p>	<p>Enhance technical assistance, marketing incentives, and standards for the Green Building program</p>	<p>In 2011, Austin Energy Green Building (AEGB) advanced and updated green building rating tools, which were debuted as part of a custom on-line system that will allow project teams and AEGB staff to track rating progress, comments, and construction documents in a single web-based platform.</p>
	<p>Develop policies requiring achievement of upper-tier ratings in cases where green building is mandated as a product of City programs or negotiations</p>	<p>In 2012, AEGB established a permanent working group to address ongoing issues associated with green building mandates. The group is working to implement the recommendations developed in 2011 as well as resolve long-term issues such as enforcement and integration with the AMANDA system.</p>
	<p>Develop carbon-neutral certification to accompany applicable green building ratings</p>	<p>In 2012, Austin Energy Green Building (AEGB) launched the Performance Modeling Incentive to help offset costs of whole-building energy modeling. Prior to that, AEGB reviewed commercial green building ratings to identify areas that contribute directly and indirectly to mitigation of greenhouse gas emissions; they found that most green building measures in the commercial sector have some carbon impact. However, AEGB is not pursuing development of carbon-neutral certification at this time. To certify buildings as "carbon-neutral," custom carbon calculators and complex life-cycle analyses would need to be developed and conducted on a building-by-building basis. AEGB does not currently have the resources for this, but plans to pursue development of carbon-neutral certification in the future.</p>

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<p><i>Goal 4: Establish an interdepartmental 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.</i></p>		
<p><b><u>OBJECTIVE 1:</u></b> Create a greenhouse gas emissions inventory from all sources community-wide against which progress in meeting reduction targets can be measured;</p>	<p>Greenhouse gas emissions inventory</p>	<p>In 2008, the first Travis County “community” greenhouse gas inventory was completed with 2007 data; emissions were estimated at 14,633,035 metric tons of CO2-equivalent, with major sources being energy usage, waste, and transportation. In 2011, community-wide emissions were estimated using 2010 data to be 14,943,190 metric tons of CO2-equivalent. In 2014, the community inventory will be updated for the second time using 2013 data and a new Global Protocol for Community-Scale Greenhouse Gas Emissions.</p>
<p><b><u>OBJECTIVE 2:</u></b> Work with stakeholders and technical advisors to establish short-term and long-term targets for reducing these emissions;</p>	<p>Establish targets for reducing greenhouse gas emissions</p>	<p>In March 2010, a 2-day community climate workshop was facilitated by City staff and attended by over 100 community members. Participants set a target of net-zero greenhouse gas emissions by 2050 and envisioned an “integrated, affordable green lifestyle that supports the local economy and is accessible to all.” The national standard for City-wide targets is 80% reduction below a 2005 baseline by 2050. In order to create a goal with the same strength but a shorter timeframe, it is recommended to adopt a target of Community wide CO2 emissions 40% below 2005 levels by 2030.</p>
<p><b><u>OBJECTIVE 3:</u></b> Report back to City Council in no more than one year with a comprehensive plan for meeting those targets.</p>	<p>Community Climate Handbook</p>	<p>Since 2010, the City has worked with the community to promote regional greenhouse gas reductions, based on the City of Austin’s strategies for reducing its own organizational carbon footprint. Currently, a collaborative project with the University of Texas is underway to analyze current and projected greenhouse gas emissions in the areas of energy, transportation, and materials management. This Community Climate “roadmap” will focus on short-term and medium-range mitigation strategies identified in existing plans such as the Zero Waste Plan; the Austin Energy Resource, Generation, and Climate Protection Plans; and the Imagine Austin Comprehensive Plan.</p>

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<p><i>Goal 5: Develop and implement a program to assist all citizens, businesses, organizations and visitors in achieving carbon neutrality through the following measures:</i></p>		
<p><b><u>OBJECTIVE 1:</u></b>  <b>Develop an Austin-specific, on-line "carbon footprint calculator;"</b></p>	<p>Carbon calculator</p>	<p>An Austin-specific carbon calculator has been made available by the City's Climate Program since January 2010. From 2010 – 2012, the Climate Program contracted with a software developer for a custom, web-based carbon calculator that was used by more than 1,100 people. Responding to cost concerns, changing technology, and the community's desire for a calculator that can be applied to businesses, churches, etc. as well as individuals, a flexible, spreadsheet-based tool was made available on the City's website in the fall of 2012.</p>
<p><b><u>OBJECTIVES 2 and 4:</u></b>  <b>(2) 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;</b>  <b>(4) Promote the concept of carbon neutrality to visitors by offering carbon offsets for purchase by travelers, conventions, tradeshow, and festivals;</b></p>	<p>Positive Impact on Climate and Community</p>	<p>The Office of Sustainability worked with C3 Presents, South by Southwest LLC, Austin City Limits Live at the Moody Theatre, Circuit of The Americas, and the Environmental Defense Fund to develop the Positive Impact on Climate and Community program in 2012. Funds will be collected voluntarily from event and festival attendees, with 50% of the proceeds spent on third-party-verified carbon offset projects located in the State of Texas and 50% on local projects in Austin that support sustainability. A Request for Applications was released in June 2013 to solicit proposals from qualified projects. C3 Presents is the first event organizer to raise PICC funds in conjunction with the 2013 Austin City Limits Festival. Funds were collected voluntarily from event attendees, with 50% to be spent on third-party-verified carbon offset projects located in the State of Texas, and 50% in support of design and construction of the Violet Crown Trail by Hill Country Conservancy. More events that raise funds for PICC third party verified carbon offsets and local sustainability projects will occur through 2014.</p>

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<p><b><u>OBJECTIVE 3:</u></b>                      Develop a program for recognition of households, businesses and other organizations achieving carbon neutrality;</p>	<p>Austin Green Business Leaders</p>	<p>The Austin Green Business Leaders program was launched on March 27, 2012. As of September 2013, over 300 businesses have downloaded the green business scorecard and 105 businesses have been recognized as Green Business Leaders. These businesses represent 11,984 employees and over 10 million square feet of office space in the Austin area that have collectively taken over 5,000 actions supporting sustainability.</p>
	<p>Bright Green Future Grants</p>	<p>In 2012, the Bright Green Future Grants program was launched to award funding to local schools for sustainability projects. Selected projects promote hands-on environmental educational opportunities for students, as well as measurable impacts to the environment. Three \$3,000 grants were awarded for the 2012-13 school year: Cunningham Elementary School expanded their community organic farm, known as Partners for Education, Agriculture, and Sustainability, or PEAS; Fulmore Middle School expanded a successful air-conditioning condensate collection project; and American Youthworks used its grant for the school's Texas Conservation Corps program. In 2013, the funding amount has been increased to fifteen \$3,000 grants for a total of \$45,000.</p>
<p><b><u>OBJECTIVE 5:</u></b>                      Cooperate with other local and regional entities to provide technical and investigational assistance and to coordinate region-wide greenhouse gas reduction strategies;</p>	<p>Regional coordination</p>	<p>The Office of Sustainability currently coordinates and communicates about climate change and sustainability efforts with sustainability directors in El Paso, Dallas, Houston, and San Antonio. Coordination efforts involve participation in conference calls and information sharing on a range of sustainability related topics.</p>
	<p>Community training</p>	<p>Since 2008, the City has offered a speakers bureau and climate training for interested groups in Austin. Between October 2012 and September 2013, the total number of community members reached through climate protection and sustainability messaging and presentations was 7,821 (K-12 students = 3,004; general community = 4,817).</p>
<p><b><u>OBJECTIVE 6:</u></b>                      Support all appropriate Federal and State policies and legislation that will lead to the reduction of greenhouse gas emissions.</p>	<p>National collaboration - Urban Sustainability Directors Network</p>	<p>The City of Austin is an active member of the Urban Sustainability Directors Network; Zach Baumer, Climate Program Manager, is the City's representative. This network of over 100 cities across the U.S. works to advocate for solutions to sustainability challenges, including reducing greenhouse gas emissions on the national scale. In addition, the City participates in the C40 Cities Climate Leadership Group, a network of large and engaged cities from around the world working on climate change issues.</p>