



The Climate Protection Action Plan provides measures to reduce emission levels of the City of Columbia consistent with the commitment made in the US Conference of Mayor's Climate Protection Resolution. The City's baseline emissions will serve as the threshold for measuring the success of these efforts.



Item #	Action Items	Nov 07 Update	April 08 Update
1	◦ Conduct an energy audit of municipal facilities and implement the recommendations.	Energy Audit Underway	Energy Audit Approaching Completion - May 08
2	◦ Implement an energy tracking and management system.	Tied to Energy Audit	Tied to Energy Audit
3	◦ Develop plan to install digital thermostats in city facilities. Adjust thermostats based on the industry standards to reduce consumption.	Tied to Energy Audit / Using Digital Thermostats for all replacement units	Installing Digital Thermostats as Replacements needed.
4	◦ Develop a plan to install energy efficient exit sign lightings in all city facilities over a defined period of time.	Tied to Energy Audit / Installing Energy Efficient signs for all replacements	Installing Energy Efficient Signing as Replacements needed.
5	◦ Develop a plan to perform energy-efficient lighting retrofits in all city facilities over a period of time.	Tied to Energy Audit / Using energy efficient lighting for replacements	Currently using energy efficient lighting as replacements needed.
6	◦ Institute a lights out policy in all city facilities when not in use.	Draft Policy Developed	Communicated verbally, policy still needed
7	◦ Require city employees to turn off computer monitors each evening and turn off the computer over the weekend.	Draft Policy Underway	Communicated verbally, policy still needed
8	◦ Install motion detectors and/or timers that will turn lights off if room is unoccupied for a certain length of time.	Tied to Energy Audit / Currently Installing Motion Detectors in Some Areas	Motion Detectors Installed in some areas - focusing on conference rooms
9	◦ Develop plan to perform heating, cooling and ventilation system retrofits (e.g., chillers, boilers, fans, pumps, belts) based on the energy audit. Consider alternative energy resources.	Tied to Energy Audit	Energy Efficient Units used at 1225 Laurel, Washington Sq, Municipal Ct, Fleet Services, Eau Claire, Animal Shelter
10	◦ Develop a plan to install ENERGY STAR appliances in all city facilities as deemed appropriate and feasible.	Tied to Energy Audit	Underway as appliances are replaced
11	◦ Develop a plan to install green or reflective roofing on city facilities.	Using Reflective Roofing as Roofing is Replaced	Used at City Hall, 1225 Laurel. Project identified for Washington Square
12	◦ Develop a plan to improve water pumping energy efficiency.	Tied to Energy Audit / U&E strives for efficiency as standard operating procedure	U&E constantly aware of need to operate system in most efficient manner possible due to meeting system demand
13	◦ Replace hot water heater units with hot water on demand systems if they are more energy efficient.	Requires total rewiring in many cases, will use as feasible on a case by case basis	Requires total rewiring in many cases, will use as feasible on a case by case basis
14	◦ Encourage Commission of the Blind to install energy-efficient vending machines in all city facilities that currently utilize vending machines.	Availability is questionable at this time	Availability is questionable at this time



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15	<ul style="list-style-type: none"> <li>Require that all new construction and renovations of municipal buildings follow LEED Certified guidelines.</li> </ul>	Developing Directive to include LEED guidelines	Renovations utilizing LEED certified materials, New Construction to Utilize as well
<b>Outdoor Lighting</b>			
16	<ul style="list-style-type: none"> <li>Continue to install energy-efficient traffic lights and replace all incandescent traffic signals with LED signals.</li> </ul>	80% of Traffic Signals have been Converted to LED	Continuing to Convert Signals to LED
17	<ul style="list-style-type: none"> <li>Develop ordinance requiring all street lighting inside City limits to be energy-efficient street lights (e.g., high pressure sodium) – plan will accommodate normal replacement schedule of existing lights.</li> </ul>	Working on Streetlight ordinance to include energy efficient requirement	Working on Streetlight ordinance to include energy efficient requirement
18	<ul style="list-style-type: none"> <li>Evaluate street lighting to determine if the average daily time streetlights are on can be reduced without compromising public safety. City will work with SCE&amp;G on this initiative.</li> </ul>	No action to date	No action to date
19	<ul style="list-style-type: none"> <li>Develop energy efficient lighting programs for city parks including the greenways, and city parking garages.</li> </ul>	No action to date	No action to date
20	<ul style="list-style-type: none"> <li>Develop and implement lighting standard to be used citywide to include specifications regarding spacing and lighting levels.</li> </ul>	Will be included in Streetlight Ordinance	Will be included in Streetlight Ordinance
<b>Renewable Energy</b>			
21	<ul style="list-style-type: none"> <li>Encourage SCE&amp;G to produce/provide Green Energy.</li> </ul>	No action to date	Conversations have taken place with SCE&G officials regarding energy efficiency
22	<ul style="list-style-type: none"> <li>Purchase green electricity from solar, geothermal, wind, landfill or hydroelectric sources if made available.</li> </ul>	Need to evaluate options	Need to evaluate options
23	<ul style="list-style-type: none"> <li>Purchase green tags / renewable energy certificates if made available.</li> </ul>	No action to date	No action to date
24	<ul style="list-style-type: none"> <li>Use alternative energy sources in municipal facilities when possible.</li> </ul>	Looking at Solar Grant Opportunities	Looking at Solar Grant Opportunities

**Transportation**

**Vehicle Fuel Efficiency**



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25	◦ Continue to monitor use of take home vehicles and ensure proper justification is in place for all approved.	Plans to re-evaluate in Spring of 08	Re-evaluation planned for near future
26	◦ Enforce policy to trailer equipment to job sites.	Provided oral instructions, developing written procedures	Provided oral instructions, developing written procedures
27	◦ Retire old and under-used vehicles and equipment.	Implementing as resources allow	Implementing as resources allow
28	◦ Purchase fuel efficient or electric (e.g., hybrid) and/or smaller fleet vehicles.	Departments are encouraged to budget for such during upcoming budget process	Departments budget's being evaluated for such during current budget process
<b>Alternative Fuels</b>			
29	◦ Evaluate option of using alternative fuel in City vehicles.	Purchasing vehicles capable of using alternative fuels	Purchasing vehicles capable of using alternative fuels
30	◦ Evaluate option of running bio-diesel in municipal fleet.	On Schedule - testing Bio Diesel in SW, Plans to convert in Spring of 08	Conversation Planned for Summer of 08
31	◦ Utilize electric vehicles in municipal fleet.	Evaluating Options	Evaluating Options
32	◦ Develop and place sticker on municipal vehicles that are using alternative fuels.	Must mandate use prior to placing sticker on vehicles	Must mandate use prior to placing sticker on vehicles
33	◦ Educate employees regarding use of alternative fuels and encourage use in personal vehicles.	No Action to Date	No Action to Date
<b>Trip Reduction / Transportation Demand Management</b>			
34	◦ Encourage car-pooling or vanpooling by municipal employees.	Already Encouraging Use of Car-pooling by Employees	Already Encouraging Use of Car-pooling by Employees
35	◦ Evaluate option of telecommuting by municipal employee.	No action to date	No action to date
36	◦ Evaluate use of alternate work schedules by municipal employees so arrival and departure times are staggered.	Depts / Div working alternate schedules	Alternate Work Scheduled implemented in Public Works, under evaluation



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37	<ul style="list-style-type: none"> <li>Encourage use of mass-transit by municipal employees. Work with RTA to allow city employees to ride for free or reduced rate on mass transit.</li> </ul>	No action to date	Initial Conversation with RTA, No Action to Date
38	<ul style="list-style-type: none"> <li>Evaluate police use of motorcycles and bicycles to determine suitable locations and implement accordingly.</li> </ul>	No action to date	No action to date
39	<ul style="list-style-type: none"> <li>Expand community bicycle infrastructure (e.g., dedicated bicycle lanes, additional bicycle parking spaces).</li> </ul>	Coordinate with and support efforts of bicycle committee	Looking for Opportunities to Install Bike Lanes and Bike Racks
40	<ul style="list-style-type: none"> <li>Institute a "safe routes to school" program.</li> </ul>	Coordinate with and support efforts of Safe Routes to School committee	Rosewood Elementary Approved for Grant, Working with Lyon St on Application due in June 08
<b>Other Transportation-Related Measures</b>			
41	<ul style="list-style-type: none"> <li>Develop and Enforce policy to limit idling of municipal vehicles. Explore anti-idling software for older vehicles.</li> </ul>	Drafting Policy	Drafting Policy
42	<ul style="list-style-type: none"> <li>Continue studies to determine if further measures can be taken to improve traffic signal synchronization.</li> </ul>	Consultant Currently performing analysis	Consultant Currently performing analysis
43	<ul style="list-style-type: none"> <li>Secure stable funding for Midlands Regional Transit Authority.</li> </ul>	No action to date from staff	No action to date from staff
<b><u>Recycling &amp; Waste</u></b>			
44	<ul style="list-style-type: none"> <li>Enhance recycling programs in municipal facilities by offering incentives for departments/divisions and for solid waste customers.</li> </ul>	Evaluating Options	Selection of Standard Recycling Bins Underway to Dispatch in City Facilities
45	<ul style="list-style-type: none"> <li>Conduct a public relations campaign to inform the public of the details of recycling programs and encourage recycling.</li> </ul>	Continuous	Continuous
46	<ul style="list-style-type: none"> <li>Conduct a public relations campaign to inform citizens of the City's composting operation and encourage its use.</li> </ul>	No Action to Date	Included as part of CPAC initiatives and public outreach efforts
47	<ul style="list-style-type: none"> <li>Utilize city compost material as much as possible.</li> </ul>	Continuous	Continuous
48	<ul style="list-style-type: none"> <li>Evaluate use of compost material as stabilization material for embankments.</li> </ul>	In discussions with consultant	In discussions with consultant



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49	◦ Establish internal system for reuse or recycling of construction and demolition materials.	Improvements needed to existing efforts	Improvements needed to existing efforts
50	◦ Implement solid waste reduction programs. Reduce use of paper through copying on both sides, minimize printing when information can be read on the Internet and require grant applicants to use both sides of the paper.	Underway	Underway
51	◦ Evaluate on-line grant applications for the city's grant programs (community promotions, accommodations, hospitality, community development block grant, etc.)	Underway	Underway
52	◦ Evaluate establishing methane recovery in local wastewater treatment plant and landfills.	Participated in tour of Waste Management/Santee Cooper facility	Project identified for recovery of Methane Gas generated at MWWTP
53	◦ Implement Electronic Waste Recycling Program for Residential Customers (State Law limits the city's ability to provide electronic-waste services to commercial customers).	Completed	Completed - Program Very Successful
54	◦ Utilize recycled items when possible.	Underway	Continuous Effort Citywide
55	◦ Provide advice and information to commercial businesses and the public on recycling hazardous substances.	Information being provided as requested	Continuous Effort Citywide
<b><u>Land Use</u></b>			
56	◦ Educate public about the requirements of the landscape ordinance	On-Going	On-Going
57	◦ Modify landscape ordinance to allow planted green rooftops as an option to meet the landscape ordinance tree density factor requirement.	No action to date	No action to date
58	◦ Review and modify planning and zoning codes to discourage sprawl and promote green space through such practices as infill development, traditional neighborhood development and mixed use neighborhood development	No action to date	No action to date
59	◦ Promote Forever Forest and Treasured Trees Programs	Continuous	Included as part of CPAC initiatives and public outreach efforts
60	◦ Perform Tree Survey and develop Five Year Plan for Maintenance and Replacements	Grant approved for first phase of tree survey	RFP Drafted / to be Advertised in Near Future
61	◦ Institute programs to preserve open space	Evaluation needed to determine possibilities	Evaluation needed to determine possibilities



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62	◦ Continue to fund efforts to perform landscape maintenance and planting of shade trees	Continuous	Continuous
63	◦ Encourage planting of new trees and shrubs strategically to shelter buildings and reduce fuel consumption needed to cool buildings.	Continuous	Continuous
64	◦ Review existing parking lot ordinance and consider incentives for retrofitting existing parking lots. Encourage use of pervious paving and best practices to reduce runoff.	No action to date	No action to date - staff evaluating possibilities, will be also tied to Upcoming Storm water Permit
65	◦ Create a reward system for development projects that go beyond the tree protection requirements or in other ways demonstrate environmentally sensitive design.	No action to date	No action to date