

Spreadsheet last updated June 30, 2010									Gold= recommended		Lt yellow= action items pertaining to the built environment, but not started
Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Advocate for the establishment of a state-wide Public Benefits Fund (aka Systems Benefit Charge or Clean Energy Fund) to pay for energy efficiency programs by levying a small charge on every customer's electricity bill.</i>	Advocacy	Info	Info items	Info items	not started	n/a	n/a	neutral	high	A1	
<i>Develop a consortium of local and state support for more stringent federal efficiency standards for furnaces, refrigerators, water heaters, air conditioners, other appliances and lighting products.</i>	Advocacy	Info	Info items	Info items	not started	n/a	n/a	neutral	high	A2	
<i>Lobby for renewable energy incentives in utility agreements.</i>	Advocacy	Info	Info items	Info items	not started	n/a	n/a	neutral	high	A3	Not within city jurisdiction to set terms of utility agreements, but could work with other cities to lobby for more renewable energy options/incentives from Duke Energy.
<i>Support lobbying and proposals that raise the federal CAFÉ standards for new vehicles.</i>	Advocacy	Info	Info items	Info items	not started	n/a	n/a	neutral	high	A4	No current initiatives in Congress to support; could advocate for stricter CAFE standards.
<i>Lobby for increase drivers license test emphasis on pedestrian/bicycle rights</i>	Advocacy	Info	Info items	Info items	not started	n/a	n/a			A5	Not within our jurisdiction, but could lobby the state for tougher licensing tests.
<i>Explore the likely impact of an Energy Efficiency Portfolio standard (EEPS) for Indiana and/or Bloomington and consider advocating for legislation to establish a progressive, achievable EEPS target.</i>	Advocacy	Info	Info items	Info items	not started	n/a	n/a	neutral	some	A6	EC or BCOS could start/promote this.
<i>Work with IDEM and other state agencies to develop policies promoting extended product responsibility (EPR; e.g. take-back programs).</i>	Advocacy	Info	Info items	Info items	not started	n/a	n/a	neutral	little to none	A7	
<i>Lobby for an Indiana state bottle/can deposit law.</i>	Advocacy	Info	Info items	Info items	not started	n/a	n/a	neutral	some	A8	No lobbying or advocacy efforts to date.
<i>Support nonprofit, private, and government efforts to reforest Indiana timberland.</i>	Advocacy	Info	Info items	Info items	not started	n/a	offset	neutral	some	A9	*No redux potential because offsets do not count as reductions in GGE inventory.
<i>Work with the state and other partners to offer financial incentives for residents and businesses to weatherize buildings and homes and purchase high-efficiency appliances and heating and cooling systems.</i>	Advocacy	Info	Info items	Info items	thinking	HAND, Grants position	n/a	neutral	some		No real state-level action or partnership; HAND offers it's own incentives for low-income residents to renovate their homes for better energy efficiency; new Grants Potition at City Hall could work on this; list of state, local and federal incentives and green building/energy efficiency resources available on City websites; City receives some federal grants for green building programs.
<i>Design and distribute maps showing suggested routes for alternative (non-fossil fuel based) modes of transportation.</i>	Education Campaigns	Comm	Energy-Transport	Transportation	defending	EC or BCOS? Bloomington Transit?	n/a	neutral	some		Bike path and bus route maps available at City Hall, on the City website, at public places; maps of routes to schools on City website.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Inform community leaders and local media about the causes and impacts of climate change</i>	Education Campaigns	Info	Info items	Info items	defending	Peak Oil Task Force, EC, BCOS	n/a	neutral	high		Various reports released and available to media: Task Force Report (Redefining Prosperity: Energy Descent and Community Resilience) released in October 2009; STAR 2007 & 2008 reports; US Mayors Climate Agreement signed; EC GGE reports and inventories. Need to constantly remind media of report implications.
<i>Educate residents and businesses on how to lower their energy bills by weatherizing their homes and better maintaining their heating, ventilation, and air-conditioning systems.</i>	Education Campaigns	Comm	Energy-Stationary	Residential	doing	HAND, CFRD, EC, BCOS?	medium	neutral	high		City website has information about reducing your carbon footprint at home; "Cut Your Carbon" workshops 2007-2009; EC is planning an energy efficiency retro-fit demonstration home project.
<i>Publicize and support campaigns promoting alternatives to single-occupancy vehicle travel (e.g. internet-based ride share programs, increased information about pleasant walking and biking routes, etc.).</i>	Education Campaigns	Comm	Energy-Transport	Transportation	doing	???	medium	neutral	high		City Employee Intranet Carpooling website proposed in June 2008, current status unknown; Complete Streets Policy ensures planning for safe alternative transportation; IU has a Zipcar program that Bloomington residents can use also, IU has a carpooling program that is rarely used despite incentives provided
<i>Establish and advertise a website that residents can visit to obtain information about reducing GGEs and saving money through energy efficiency at home and work.</i>	Education Campaigns	Comm	Energy-General	All	doing	EC, BCOS	n/a	neutral	some		EC BEQI website maintains a list of info sheets on reducing GGEs; could be a lot more publicity conducted and more information made available.
<i>Publicize public and private projects which seek to reduce GGEs or increase energy efficiency.</i>	Education Campaigns	Comm	Energy-General	All	doing	EG, BCOS	n/a	neutral	some		City website publicizes EverGreen Village; annual Green Buildings Tour; City is advertising internal sustainability and energy efficiency projects.
<i>Implement a program to educate community groups and the general public about GHG effects and how to reduce GGEs.</i>	Education Campaigns	Comm	Energy-General	All	doing	???	n/a	neutral	high		"Cut Your Carbon" workshops; May 2006 Informational Event with the US Mayors Climate Agreement; Forum on GGE Reduction offered in Sept and Oct 2006; "Building Green" Film Festival 2008; variety of educational tools available on City website; "Change a Light, Change the World" campaign; and more.
<i>Provide information and resources for local businesses and nonprofit organizations to estimate and reduce their GGEs.</i>	Education Campaigns	Comm	Energy-General	Commercial	doing	Department of Economic & Sustainable Development	n/a	neutral	some		No individual or business carbon calculator provided by the City to the public; information on City website re: sustainable development incentives and information for small businesses; green building incentives and information available on city website. Much more could be done to provide information to city businesses.
<i>Inform residents of federal, state, and local tax incentives to use renewable energy and low-emissions vehicles.</i>	Education Campaigns	Comm	Energy-Transport	Transportation	doing	none specefied	n/a	neutral	some		City website provides: Green Building information and incentives, Sustainable Development incentives for small businesses; no City-run low-emissions vehicle incentives information program. See for reference, Appendix 1 of Eric Roberts' report, "Framework for Developing a GHG Reduction Plan."

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Increase public awareness of the importance of the urban forest, and solicit funding for the Bloomington Tree Fund from local businesses, residents, and organizations.</i>	Education Campaigns	Comm	Land Use Change	Other	doing	Urban Forestry Division, Tree Commission	none*	positive	high		City runs various Tree Fund programs, including Memorial Tree Program and Arbor Baby Certificate Tree; Greenspace reports and Street Tree Reports available on City website; *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Encourage residents and businesses to purchase at least 10% of their electricity from renewable sources as they become available.</i>	Education Campaigns	Comm	Energy-Stationary	Commercial	not started	n/a	high	neutral	high	E1	Few to no renewable energy sources available currently; Duke's "Go Green" program not really a viable option.
<i>Encourage the downtown mall to extend parking pricing to all appropriate commercial area.</i>	Education Campaigns	Comm	Energy-Transport	Transportation	not started	n/a	n/a	positive	high	E2	City has not actively encouraged downtown mall to extend parking pricing.
<i>Work with auto repair shops to educate customers on the fuel savings (and financial savings) that result from properly maintaining vehicles and using fuel-efficient driving techniques.</i>	Education Campaigns	Comm	Energy-Transport	Transportation	not started	n/a	n/a	neutral	high	E3	
<i>Educate city employees about sustainability, with a focus on specific operational changes that will result in GGE reductions.</i>	Education Campaigns	Govt	Energy-General	Buildings & Facilities	not started	n/a	n/a	neutral	some	E4	No specific City employee education program, although some employees have taken initiative to educate themselves on ways to reduce GGEs both at home and at work. Mike Arnold from HAND is a LEED architect.
<i>Inform local residents, businesses, and institutions of their opportunity to invest in carbon offset projects, to meet personal or corporate GGE-reductions goals.</i>	Education Campaigns	Info	Info items	Info items	not started	HAND, Economic and Sustainable Development	offset	neutral	high	E5	Few carbon offset projects exist in the area to invest in except for small scale greenspace acquisition projects. *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Inform residents and businesses of their opportunity to purchase Renewable Energy Certificates to offset personal or corporate GGEs.</i>	Education Campaigns	Info	Info items	Info items	not started	n/a	offset	neutral	high	E6	
<i>Encourage the use of lower-CO2 emission technologies in off-road vehicles and equipment.</i>	Education Campaigns	Comm	Energy-Transport	Transportation	thinking	Public Works/Street Dept	medium	unknown	little to none		Public Works and Street dept researches and tries to buy the most fuel and energy efficient equipment possible, but more fuel-efficient technology ahs nto been developed for most of this heavy equipment.
<i>Promote vehicle sharing to individuals, businesses, and community groups.</i>	Education Campaigns	Comm	Energy-Transport	Transportation	thinking	???	medium	neutral	high		No City-sponsored car sharing program for general city residents/businesses; City employee car-share program exists, IU has Zipcars (car sharing) that are available to Bloomington residents also.
<i>Launch a public education on food composting (indoor and outdoor) and explore the possibilities for a residential food-waste collection program.</i>	Education Campaigns	Comm	Waste-Biological Treatment	Waste	thinking	MCSWMD??	n/a	negative	high		No current centralized program for residential compost collection or education
<i>Ensure that Bloomington's teachers have access to effective resources for educating students about climate change and things they can do to reduce their carbon footprint.</i>	Education Campaigns	Info	Info items	Info items	thinking	Park & Rec Education Specialist??	n/a	neutral	some		Kriste Lindberg offers a variety of teacher trainings, not many of which specifically address GGEs and climate change, but that address many other environmental topics or include casual information about ways to reduce climate change.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Replace incandescent light bulbs with CFLs in all city facilities.</i>	Operations & Infrastructure	Govt	Energy-Stationary	Buildings & Facilities	defending	???	high	positive*	little to none		City has committed to replacing bulbs with CFLs as replacement lighting is needed. *Initial cost of CFLs is higher than incandescent bulbs but the energy savings costs outweigh the initial costs substantially.
<i>Continue using biodiesel (B20 or higher) in City diesel vehicles.</i>	Operations & Infrastructure	Govt	Energy-Transport	Govt Transport	defending	Fleet Maintenance	low	neutral	little to none		City has a biodiesel-only purchasing policy for its diesel vehicles.
<i>Use lighting automation options such as photosensors, motion sensors and timers for all city facilities.</i>	Operations & Infrastructure	Govt	Energy-Stationary	Buildings & Facilities	defending	???	medium	positive	little to none		City Hall has installed motion sensors in conference rooms; new Utilities building uses daylighting, skylights, and specific window placement to reduce the use of electric lights during daylight hours.
<i>Maintain a GGE inventory for the city of Bloomington (using ICLEI-sponsored CACP tracking software)</i>	Operations & Infrastructure	Info	Info items	Info items	defending	none specified	n/a	neutral	some		Date of most recent inventory report: 2009 (by Mark Lemon, using 2006 data). ICLEI membership/software access purchased again for 2010.
<i>Prepare a progress report on the GGE reduction plan and update every 2 years (update this spreadsheet tracking system as often as possible, at minimum every 2 years)</i>	Operations & Infrastructure	Info	Info items	Info items	defending	EC intern (?)	n/a	neutral	some		Most recent update of GGE reductions plan: 2009 (Sarah Batto), 2010 (Jess Vogt). These plans should rely heavily on this spreadsheet for information conveyance and try to be as short and summative as possible (maybe through summarizing only the most recent actions - e.g. annual report-style).
<i>Update the Park &amp; Rec Urban Forestry Division's inventory of the urban forest canopy to determine its current health and ID needs and priorities for future urban forest management.</i>	Operations & Infrastructure	Comm	Land Use Change	Other	defending	Urban Forestry Division, Tree Commission	none*	negative	some		Street Tree inventory updated and report produced every 5 years (last one in 2007); EC produces period greenspace reports. *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Improve and sustain the health of Bloomington's urban forest through proper planning and maintenance.</i>	Operations & Infrastructure	Govt	Land Use Change	Other	defending	Urban Forestry Division, Tree Commission	none*	negative	some		Urban Forestry program promotes and conducts tree maintenance; Street Tree Report recommends future planning goals; *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Increase energy efficiency in City buildings by 10%.</i>	Operations & Infrastructure	Govt	Energy-Stationary	Buildings & Facilities	doing	Facilities?	high	positive	some		City hall has increased energy efficiency by 18% ( <b>since when??</b> ); city electricity consumption was reduced 30% from 2007 to 2008; all city utilities info has yet to be assessed, project was started summer 2008 and there are plans for full completion in the next few years.
<i>Purchase only EnergyStar® appliances and energy-efficient machinery for city use.</i>	Operations & Infrastructure	Govt	Energy-Stationary	Buildings & Facilities	doing	Purchasing Dept?? Engineering??	high	positive*	some		City facilities replaced HVAC system for a more efficient system in City Hall and new Utilities building; City purchasing policy for EnergyStar® appliances exists. *Initial costs may be higher, but efficiency payback results in long-term cost savings.
<i>Ensure that the City's vehicle fleet maintenance practices optimize fuel efficiency.</i>	Operations & Infrastructure	Govt	Energy-Transport	Govt Transport	doing	Fleet Maintenance	low	neutral	little to none		Fleet Maintenance currently does regular checks and repairs, including tire pressure, exhaust, ignition and fuel system.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Convert traffic signals, street lights and outdoor lighting to the most energy efficient technology (LED or other).</i>	Operations & Infrastructure	Govt	Energy-Stationary	Street Lighting	doing	Traffic Division	low	unknown	little to none		All traffic lights have been converted to LED lights as of 2009; B-line trail Phase 2 will have LED lights installed and there are hopes to retrofit all Phase 1 lights with LED soon; all new outdoor lighting plans will be LED technology whenever compatible with current infrastructure; two solar lights have been installed at Griffy Lake boathouse and Broadview Neighborhood Park;
<i>Continue to improve Bloomington's pedestrian and bicycle infrastructure to meet the needs of pedestrians and bicyclists.</i>	Operations & Infrastructure	Comm	Energy-Transport	Transportation	doing	Engineering/Plannin g Depts	medium	negative	high		Complete Streets Policy, Growth Policies Plan, Long-Range Bicycle and Pedestrian Plan, UDO all include policies related to improving bicycle/pedestrian infrastructure
<i>Reduce per-employee vehicle miles traveled in City administrative vehicles by 15% by 2013 by promoting teleconferencing and the availability of pedestrian, bicycle, bus and ridesharing options for employees on business travel.</i>	Operations & Infrastructure	Govt	Energy-Transport	Govt Transport	doing	Team Green/Team Process?	medium	positive	some		Most teleconferencing is not tracked by the City, but teleconferencing is regularly used by employees; alternative travel to and from work while on City business is encouraged but not currently mandated or enforced; no-idling policies implemented; see Sarah's report for a laundry list of department by department strategies to meet this goal.
<i>Institute City recycling of asphalt and other street material and encourage private contractors to do the same.</i>	Operations & Infrastructure	Govt	Waste-Solid	Waste	doing	Streets Department	medium	positive	little to none		Streets Dept recycles all asphalt at the local asphalt plant and receive some funding to offset costs for it; recycles concrete from sidewalks and curbs to be turned into dirt; Green Building Ordinance encourages recycling of C&D materials; no current encouraging of private contractors to recycle concrete and asphalt.
<i>Track waste disposal and recycling practices and quantities at all City facilities to obtain a baseline rate for future consumption.</i>	Operations & Infrastructure	Govt	Waste-General	Waste	doing	Utliity Consumption Tracking Team (subcommittee of Green Team)	n/a	neutral	little to none		Interns hired in summer 2008 to compile City utility data but project never completed; some baseline data in Mark Lemon's GHG report from 2009 (using 2006 data).
<i>Increase the acreage of Bloomington's urban forest by planting more trees each year than are lost through development or disease.</i>	Operations & Infrastructure	Comm	Land Use Change	Other	doing	Urban Forestry Division, Tree Commission	none*	negative	some		Tree Ordinance mandates a planting-to-removal ratio of at least 1.2, but this only includes city-removed trees, not trees lost to development; *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Assess the financial value of the city's urban forest by quantifying the benefits; use this assessment to guide policy decisions, and include it in the public education programs.</i>	Operations & Infrastructure	Govt	Land Use Change	Other	doing	Urban Forestry Division, Tree Commission	none*	positive	some		Street Tree Report quantifies the value of City trees and gives recommendations. *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Research technologies and programs that reduce GGEs</i>	Operations & Infrastructure	Info	Info items	Info items	doing	EC intern (?)	n/a	neutral	little to none		Systematically add any recommended GGE reductions actions/technology goals to this spreadsheet as identified.
<i>Install solar, geothermal and other renewable energy technologies at appropriate City facilities.</i>	Operations & Infrastructure	Govt	Energy-Stationary	Buildings & Facilities	not started	n/a	high	negative	high	I1	Solar not viable; geothermal or other renewables not researched.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Promote improved operations and maintenance practices in buildings, including the creation of resource conservation management positions.</i>	Operations & Infrastructure	Comm	Energy-Stationary	Comm/Ind	not started	n/a	medium	neutral	some	I2	More active promotion of this could be done; City sets an example for the community by improving operations through Team Process and upgrading their buildings with more energy efficient technologies.
<i>Achieve a solid waste recovery rate (proportion of solid waste diverted to recycling, composte or for electricigy generation) of 60% at City facilities.</i>	Operations & Infrastructure	Govt	Waste-Solid	Waste	not started	n/a	medium	neutral	some	I3	
<i>Maintain a GGE inventory for City government operations only.</i>	Operations & Infrastructure	Info	Info items	Info items	not started	n/a	n/a	neutral	some	I4	No city operations-only inventory completed to date. Could decide to fold this action item into the larger community-wide inventory.
<i>Research and install photovoltaic panels on the roof of City Hall.</i>	Operations & Infrastructure	Govt	Energy-Stationary	Buildings & Facilities	thinking	none specefied	low	negative	high		The cost of installing solar panels on the City Hall roof has been researched and deemed not cost effective (39+ yr payback period); explored applying for a DOE grant, but funding was insufficient.
<i>Hire a City resource conservation manager to reduce solid waste, energy use, and water use at City facilities; pay for this person's salary with the savings that result from lower utility bills.</i>	Operations & Infrastructure	Govt	Energy-General/Waste-Solid	Buildings & Facilities/Waste	thinking	Who's in charge of hiring Sustainability Director?	n/a	negative	high		City just hired a Sustainability Director
<i>Purchase only printers and copiers with duplexing capability for City use; evaluate making duplexing the default setting.</i>	Operations & Infrastructure	Govt	Energy-Fugitive Emissions	Other	thinking	???	n/a	neutral	little to none		Most City printers have duplex capability, however there is no policy on buying only printers with such capabilities; duplex printing is made the default setting automatically.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Ensure that the City's UDO promotes bicycle and pedestrian-friendly urban and suburban neighborhoods.</i>	Ordinance Changes	Comm	Energy-Transport	Transportation	defending	Planning	n/a	neutral	high		UDO includes provisions for bike and pedestrian friendly infrastructure; Complete Streets policy; MPO Bicycle and pedestrian and greenways plan.
<i>Ensure that the City's Unified Development Ordinance promotes infill and brownfield development.</i>	Ordinance Changes	Comm	Energy-Transport	Transportation	defending	Planning/City Council	n/a	neutral	high		Brownfield redevo included in the UDO and Green Building Ordinance; Econ & Sust Devo Dept has a redevelopment commission.
<i>Establish a green building incentives program for developers.</i>	Ordinance Changes	Comm	Energy-Stationary	Res/Comm/Ind	doing	Planning, HAND?	n/a	neutral	some		Done for developers and small businesses (UDO and Green Building Ordinance), but could be strengthened to encourage more progressive green building; not done for single-lot residential development.
<i>Develop and adopt energy and resource- efficient building standards for all new construction and major renogation projects funded by the City.</i>	Ordinance Changes	Govt	Energy-Stationary	Buildings & Facilities	done	City Council/Mayor's Office	medium	positive*	high		2009 Green Building Ordinance mandates that new City construction be LEED-silver and commissions energy-efficiency analyses on 15 City buildings. *Initial cost outlay may be more expensive, but ordinance only in effect if will result in payback within 10 years.
<i>Adopt sliding-scale building permit fees, with lower fees for buildings that meet energy-efficiency criteria and higher fees for conventional construction.</i>	Ordinance Changes	Comm	Energy-Stationary	Res/Comm/Ind	not started	n/a	medium	neutral	some	O1	This is primarily the County's jurisdiction; UDO gives incentives to allow higher density when buildings meet energy efficiency criteria, but no sliding-scale permit fees currently.
<i>Develop local green buidling criteria; explore modeling these criteria on LEED green building standards.</i>	Ordinance Changes	Comm	Energy-Stationary	Res/Comm/Ind	not started	n/a	n/a	neutral	high	O2	See for reference, Appendix 5 in Eric Roberts' "Framework for Developing a GHG Reduction Plan."
<i>Include a green building requirement for developers who receive tax-increment financing from the city</i>	Ordinance Changes	Comm	Energy-Stationary	Res/Comm/Ind	not started	n/a	low	neutral	some	O3	Some developers are receiving tax-increment financing (TIF) from the city for green building, but it is not required.
<i>Strenghten Bloomington's building code and advocate for Indiana's building code to require all cost-effective energy-efficiency measures.</i>	Ordinance Changes	Comm	Energy-Stationary	Res/Comm/Ind	not started	n/a	n/a	neutral	high	O4	Building code is the county's jurisdiction.
<i>Adopt policies to restrict the purchase and use of non-sustainably harvested timber by City agencies.</i>	Ordinance Changes	Govt	Energy-Fugitive Emissions	Other	not started	n/a	none*	neutral	some	O5	No FSS certified lumber dealer in the Bloomington area; *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Require secure, covered bicycle parking at schools, shopping areas and other destinations.</i>	Ordinance Changes	Comm	Energy-Transport	Transportation	thinking	Dept of Public Works/city businesses??	low	negative	some		UDO requires increased bicycle facilities across the city; required bike parking capacity for new building construction; depending on housing/commercial development size, bicycle facilities are more or less ssecure following the Green Building Ordinance.
<i>Increase the costs of parking on public lots and streets to make it reflect the costs of the infrastructure as well as the long-term effects driving has on the environment.</i>	Ordinance Changes	Comm	Energy-Transport	Transportation	thinking	Traffic	medium	positive	high		City did research on increasing the cost of parking through the BTOP study and decided not to increase parking costs; parking meters downtown require payment; parking on many city residential streets requires a permit.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Require residential properties to be weatherized and brought up to a minimum code level at the time of sale.</i>	Ordinance Changes	Comm	Energy-Stationary	Residential	thinking	Planning? HAND?	n/a	neutral	some		Requirements for homes to reach a certain energy efficiency standard before sale were considered by the City but never implemented; this topic could be reopened for conversation.
<i>Develop a green roofing program or set of incentives.</i>	Ordinance Changes	Comm	Energy-Stationary	Res/Comm/Ind	thinking	Planning (UDO)	none*	neutral	some		Green Building ordinance provides incentives including those for green roofs; no specific green roofing program exists; *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Institute a "bike to work week" for City employees to take place each summer.</i>	Policy Decisions	Govt	Energy-Transport	Employee Commute	defending	Mayor's Office?	low	negative	some		"Bike to work week" takes place every summer, with a City-breakfast in the morning, and promotes the event weeks before hand. Program could be expanded to the larger community?
<i>Develop a city-wide transportation plan to reduce the number of vehicle miles traveled, increase use of alternative modes of transportation, and support Smart Growth planning to limit urban sprawl.</i>	Policy Decisions	Comm	Energy-Transport	Transportation	defending	Planning	n/a	neutral	high		Amended UDO includes many codified provisions that encompass this; Growth Policies Plan includes the policy behind the amended UDO.
<i>Promote mixed-use development that places residential units near commercial development and employment opportunities, to reduce the need for automobile transportation.</i>	Policy Decisions	Comm	Energy-Transport	Transportation	defending	Planning	n/a	neutral	high		Mixed use devo is encouraged by UDO.
<i>Review all current and planned City policies and programs to identify ways to reduce City GGEs.</i>	Policy Decisions	Govt	Energy-General	Govt-All	defending	EC, BCOS, Team Green, Team Process, Peak Oil Task Force, City sustainability coordinator (TBA)	n/a	neutral	high		City sustainability coordinator to be hired summer 2010. Lawn maintenance has reduced mowing frequency. Current policies to reduce GGEs: No-Idling, Elimination of purchase of plastic bottles, Energy-Star Appliances purchasing policy, and "Lights Off."
<i>Develop a contingency plan for fuel emergencies, so that essential public services can operate in the event of an energy crisis.</i>	Policy Decisions	Info	Info items	Info items	defending	Utilities, Transition Bloomington?	n/a	negative	some		Utilities has a back-up system to ensure a continued water supply; City Hall, Fire Station and Police Dept have back-up generators powered by natural gas or diesel fuel; City is researching solar and hydro as back-up power sources.
<i>Protect existing trees from development impacts, and encourage planting new native trees as a component of future development projects.</i>	Policy Decisions	Comm	Land Use Change	other	defending	Planning, Urban Forestry, Tree Commission	none*	neutral	high		UDO restricts destruction of a certain percentage of tree canopy on undeveloped properties; Tree Commission promotes public education on proper care and planting of trees and encourages natives; City acquired 140+ acres of greenspace between 2004-2009; *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Promote planting native trees to offset GGEs, improve air quality, mitigate stormwater runoff, provide animal habitat, and reduce summer energy use through shading and mitigating urban heat island effect.</i>	Policy Decisions	Info	Info items	Info items	defending	Planning (UDO), Urban Forestry Division, Tree Commission	offset	neutral	some		UDO has landscape requirements with a list of allowed plants (mostly natives); EC website promotes native plants/landscaping. *No redux potential because offsets do not count as reductions in GGE inventory.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Implement City policies to encourage bus travel whenever appropriate and to provide employees with bus tickets for business travel.</i>	Policy Decisions	Govt	Energy-Transport	Govt Transport/Empl oyye Commute	doing	none specefied	low	negative	little to none		All City employee ID cards serve as City bus passes; no official city policies to encourage bus travel when appropriate for work or after work.
<i>Promote energy-efficient construction/renovation and green building practices in all buildings - residential, commercial and industrial.</i>	Policy Decisions	Comm	Energy-Stationary	Res/Comm/Ind	doing	Planning??	medium	neutral	high		City is doing many things to set an example; GBO and UDO provide various inventives for energy-efficiency in site plan and construction; list of LEED contractors on City website.
<i>Require employee education on fuel-efficient driving.</i>	Policy Decisions	Govt	Energy-Transport	Govt Transport/Empl oyye Commute	doing	Dept of Public Works/Fleet Maintenance	medium	positive	some		No-idling policy in effect; fuel efficiency CDL training offered for a short time
<i>Reduce the need for indoor air-conditioning by promoting green roof, and light-colored roofs and paving materials; strategic planting of trees; and increasing vegetative cover.</i>	Policy Decisions	Comm	Energy-Stationary	Res/Comm/Ind	doing	EC, City Utilities, Tree Commission	n/a	negative	some		All recommended actions are things that reduce the Urban Heat Island (UHI) effect; EC has a yearly native plant give-away that encourages native landscaping and increased vegetative cover; GBO gives incentives and information about greenroofs; City Utilities building uses permeable pavement and highly reflective roof membrane; No current recommendatiosn specifically for light-colored pavement.
<i>Learn from the innovative parking solutions of other cities to implement smart parking policies for Bloomington.</i>	Policy Decisions	Comm	Energy-Transport	Transportation	doing	Planning/Street Dept	n/a	neutral	high		Complete Streets policy; UDO amended to create a max allowed parking spaces rather than a min allowed parking when building a new structure; innovative parking solutioin have been researched in a City parking study; could be a lot more implemented on this front.
<i>Implement life-cycle costing for the purchase of energy-using equipment - vehicles and otherwise.</i>	Policy Decisions	Govt	Energy-Fugitive Emissions	Other	doing	Public Works	n/a	neutral	some		Public Works looks at life expectancy and long-term costs of maintenance when buying vehicles; no current examination of pre-purchase costs or post-disposal costs taken into account.
<i>Implement best management practices (BMPs) for City urban landscaped areas.</i>	Policy Decisions	Govt	Energy-Fugitive Emissions	Other	doing	Parks & Recreation, Urban Forestry Division	none*	neutral	little to none		Park & Rec reduced mowing and is looking into low-mow and no-mow grasses and naturalized lawns and landscaping; *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Publicly recognize that City policies and decisions have an impact upon Bloomington's contribution to climate change</i>	Policy Decisions	Info	Info items	Info items	done	Mayor of Bloomington	n/a	neutral	high		Signed US Mayor's Climate Agreement in Apr 2010.
<i>Purchase 10% of City govt electricity from renewable sources; take advantage of tax incentives and smart financing strategies to do so.</i>	Policy Decisions	Govt	Energy-Stationary	Buildings & Facilities	not started	n/a	high	negative	high	P1	There are no renewable energy sources in this area unless produced by the City itself; Duke Energy's "GoGreen" program offers customers the chance to buy renewable energy credits, but they can't guarantee that's where the money goes, because there are few renewable energy options available anywhere.
<i>Implement a sliding-scale fee for vehicle registration or parking permits based on a vehicle's GGEs.</i>	Policy Decisions	Comm	Energy-Transport	Transportation	not started	n/a	low	positive	high	P2	There is little incentive anywhere in Bloomington for sliding scales because parking permit costs are already so low.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Offer incentives for citizens to drive fuel-efficient vehicles.</i>	Policy Decisions	Comm	Energy-Transport	Transportation	not started	n/a	low	negative	high	P3	City is encouraging alternative transportation over fuel-efficient vehicle use.
<i>Hold City department managers responsible for resource-conservation practices in their departments.</i>	Policy Decisions	Govt	Energy-General/Waste-Solid	Buildings & Facilities/Waste	not started	n/a	low	positive	little to none	P4	City department managers must cut budgets during the recession and are encouraged to recycle, reduce waste and energy usage, but are not held directly responsible for resource conservation, per se.
<i>Require City departments to pay public transportation fares for guests in any circumstance in which private car parking would normally be validated.</i>	Policy Decisions	Govt	Energy-Transport	Govt Transport	not started	n/a	low	negative	little to none	P5	This would be fairly easy to implement.
<i>Require all City construction projects to exceed the energy code by 20% of new construction and by 10% on retrofits.</i>	Policy Decisions	Govt	Energy-Stationary	Buildings & Facilities	not started	n/a	medium	positive*	some	P6	No city policy requiring this level of efficiency; however, LEED-silver construction gives points for energy efficiency and requires that building meet minimum local energy codes (Monroe County codes). *Construction may be initially more costly, but energy efficiency payback will result in long-term cost savings.
<i>Establish the position of a City energy plans examiner and a required field inspection of energy systems, with technical consultation available at the planning stage.</i>	Policy Decisions	Comm	Energy-Stationary	Comm/Ind	not started	n/a	n/a	negative	high	P7	No position or plans for a position similar to this; Mike Arnold in HAND is a LEED-certified inspector; an energy efficiency analysis of 15 City buildings has been commissioned/
<i>Strategically finance energy-saving projects.</i>	Policy Decisions	Govt	Energy-General	Buildings & Facilities	not started	n/a	n/a	unknown	high	P8	Current strategic funding projects are limited: UDO gives limited incentives for small businesses to install different energy efficient mechanisms during construction; little else available. See, for reference, Appendix 4 of Eric Roberts' "Framework for Developing a GHG Reduction Plan."
<i>Purchase Renewable Energy Certificates to offset City GGEs and support development of the US renewable energy infrastructure.</i>	Policy Decisions	Info	Info items	Info items	not started	n/a	offset	negative	high	P9	Could City purchase offsets from the same source as IU? *No GGE-reduction potential, because offsets do reduce actual emissions in a GGE inventory.
<i>Meet LEED Gold standards in all new City buildings and major renovations.</i>	Policy Decisions	Govt	Energy-Stationary	Buildings & Facilities	thinking	City Council?	high	positive*	high		According to the Green Building Ordinance, currently all new City buildings have to be built to LEED Silver standards and all City buildings must be brought up to LEED Silver standards (*assuming construction costs are offset by energy-efficiency savings within 10 years).
<i>Require City contractors and vendors to use recycled materials in their products whenever possible and to handle their waste in an environmentally friendly manner.</i>	Policy Decisions	Govt	Waste-Solid	Waste	thinking	Purchasing dept??	low	neutral	little to none		Use of recycled materials is encouraged in the Green Building Ordinance that requires LEED-silver standards for all new City construction; Evergreen Village project recycled all recycleable materials and weighed all their waste as an example for to contractors and vendors; "Taste of Bloomington" 2009 event set up recycling and gave vendors a list of environmentally friendly cups, plates and forks to publicize environmentally friendly waste mgmt.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Promote City telework and flexible hours policies, and encourage department managers to consistently apply them. Enable 25% of City employees to telework to work 9-hr days, to avoid commuting at least twice a month.</i>	Policy Decisions	Govt	Energy-Transport	Employee Commute	thinking	HR?	medium	neutral	some		Flex hours are allowed by City policies and some employees take advantage of flex hours, but not systematically encouraged or reported officially.
<i>Require a fuel efficiency of at least 35 mpg for all new City car purchases.</i>	Policy Decisions	Govt	Energy-Transport	Govt Transport	thinking	Public Works/Fleet?	medium	neutral	some		There is not required fuel efficiency standard across all City departments because there is a varying availability of fuel efficient vehicles depending on the type of vehicle used for each job; City currently uses 4 hybrids in fleet.
<i>Stay informed of emerging waste-to-energy (WTE) technologies and less-polluting methods of combusting organic waste for fuel.</i>	Policy Decisions	Comm	Waste-Incineration	Waste	thinking	MCSWD	n/a	neutral	some		MCSWD has been researchign methand capture feasibility at their site; Sycamore Ridge Landfill in Terre Haute where most of Monroe County's waste goes has installed methane capture systems.
<i>Promote Bloomington's material salvage businesses.</i>	Policy Decisions	Comm	Waste-Solid	Waste	thinking	???	n/a	neutral	some		Green Building practices are the only current efforts.
<i>Establish City policies to use recycled antifreeze, recycled latex paint, and paper with at least 30 % post-consumer recycled content. Establish recycled purchasing policy.</i>	Policy Decisions	Govt	Energy-Fugitive Emissions	Other	thinking	Purchasing Dept, Team Process, Facilities, other??	n/a	neutral	little to none		No systematic recycling purchasing policy; many City depts already purchased recycled paper; Team Process is doing a printer cartridge purchasing analysis; no City policy to recycle paint or use recycled antifreeze; City Facilities recycles all chemicals, recycles their paint and Monroe County Recycling Center, and purchases recycled cleanign proejcts. <i>What does this exactly mean?</i>
<i>Invest in carbon offset projects to help the City meet its overall GGE-reduction goal.</i>	Policy Decisions	Info	Info items	Info items	thinking	Mayor's Office/City Council??	offset	negative	high		City is acquiring more greenspace to offset GGEs; few carbon offset projects exist locally to invest in except for small scale acquisition of greenspace; *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Work with Bloomington Transit to improve access to bus service (e.g. park and ride, improved bus shelters).</i>	Programs & Services	Comm	Energy-Transport	Transportation	defending	Bloomington Transit	low	negative	some		Fairly frequent bus stops currently exist, particularly closer to the center of town; shelters could be improved with more air circulation and more shelters could be built; no official park and ride stations exist; B-line trail has access to bus stops; POTF report has a map of accessibility of all BT transit stops throughout the city.
<i>Expand City transit pass subsidy program.</i>	Programs & Services	Comm	Energy-Transport	Transportation	defending		medium	negative	high		All IU and Ivy Tech students receive free transit by showing their ID (Ivy students also get Rural Transit passes); City employee IDs serve as bus passes.
<i>Work with Bloomington Transit to expand bus routes and frequency of service.</i>	Programs & Services	Comm	Energy-Transport	Transportation	defending	Bloomington Transit	medium	negative	high		Complete Streets Policy incorporates bus, bicycles, and walking route expansion; several expansions to areas on the outskirts of the city have been completed in recent years.
<i>Institute recycling of all types of plastics, not just #1 and #2; tap into regional market for recycled plastics.</i>	Programs & Services	Comm	Waste-Solid	Waste	defending	MCSWMD	n/a	unknown	high		Plastics #1-6 are recycleable in curbside bins.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Facilitate the installation of energy conservation measures in single- and multi-family residential units.</i>	Programs & Services	Comm	Energy-Stationary	Residential	doing	CFRD, HAND, (EC)	high	neutral	high		CFRD and HAND inspect rentals for energy conservation measures; EverGreen Village offers Bloomington's first completely green-built neighborhood.
<i>Establish an energy-efficiency program for local small businesses.</i>	Programs & Services	Comm	Energy-Stationary	Commercial	doing	Economic and Sustainable Development; BCOS?	medium	neutral	some		No full energy efficiency program; there are energy efficiency incentives for small businesses on the Sustainable Development for Small Business City website; could be expanded and more actively promoted
<i>Assist local businesses in improving their waste management practices; expand commercial recycling programs and services.</i>	Programs & Services	Comm	Waste-Solid	Waste	doing	Monroe County Solid Waste Management District	n/a	negative	some		MCSWMD educates and works with local businesses to improve waste management.
<i>Improve and expand curbside recycling and other residential recycling services; extend recycling to apartment complexes within city limits.</i>	Programs & Services	Comm	Waste-Solid	Waste	doing	Public Works	n/a	negative	high		Recycling is free; City does not provide recycling pick-up for IU, businesses or apartment complexes with more than 4 units.
<i>Work with local residents, businesses, and organizations to organize tree planting and maintenance events.</i>	Programs & Services	Comm	Land Use Change	Other	doing	Urban Forestry Division, Tree Commission	none*	neutral	high		Public Tree Planting Fund, Arbor Day planting occurs yearly; City could work more with businesses on this; *No redux potential because offsets do not count as reductions in GGE inventory.
<i>Purchase only EnergyStar® appliances for low-income housing supported with city funds.</i>	Programs & Services	Comm	Energy-Stationary	Residential	not started	n/a	low	negative	high	S1	HAND offers discount incentive programs for low-income residents to increase their home energy efficiency; No programs specifically for energy-efficient appliances for low-income housing supported by city funds
<i>Work with businesses to encourage all employers who offer their employees subsidized parking also to offer a parking "cash out" - an equivalent payment to employees who do not require vehicle parking.</i>	Programs & Services	Comm	Energy-Transport	Transportation	not started	n/a	low	positive	some	S2	City explored this option for City employees but deemed it not a good incentive, because parking costs at City Hall are so low; overall, because Bloomington is such a small city and parking costs are not that high in general, encouraging this may have little effect.
<i>Work with local industry to implement waste-heat recovery and other methods to improve energy efficiency.</i>	Programs & Services	Comm	Energy-Stationary	Industrial	not started	n/a	medium	neutral	some	S3	
<i>Work with appropriate local industries to explore possibilities for distributed electricity generation (DG) as a means to increase renewable energy production and energy efficiency (e.g. combined heat and power (CHP), or cogeneration).</i>	Programs & Services	Comm	Energy-Stationary	Industrial	not started	n/a	low	neutral	some	S4	City cannot require local industries to use DG but could possibly provide incentives to do so.
<i>Provide educational opportunities to develop local expertise in solar electric (PV) and solar hot water system installation.</i>	Programs & Services	Comm	Energy-Stationary	Res/Comm/Ind	not started	n/a	n/a	negative	high	S5	Solar for City Hall deemed not cost-effective; could explore solar hot water possibilities and educational opportunities.
<i>Implement a commercial food-waste collection and composting program.</i>	Programs & Services	Comm	Waste-Biological Treatment	Waste	not started	n/a	n/a	negative	high	S6	Community gardens use composting; several downtown businesses compost part of their waste; no centralized program.

Action Item	Type of action	Govt/C omm	Macro Sector	ICLEI Sector	Implemen tation	Responsibility	Redux Potenti al	Cost Impact	Visibility	2010 summary #	Notes
<i>Increase the number of locations that sell Bloomington Transit passes and tickets.</i>	Programs & Services	Comm	Energy-Transport	Transportation	thinking	Bloomington Transit	low	neutral	little to none		BT passes and tickets currently sold on BT busses and at the Central Station Downtown.
<i>Form neighborhood action teams to promote residential energy efficiency, water conservation, waste reduction, and alternative transportation.</i>	Programs & Services	Comm	Energy-General	All	thinking	EC, BCOS	n/a	neutral	high		No existing action teams; EC supposedly organizing teams in one neighborhood; environmental consciousness and initiatives vary in different neighborhood associations; a few community gardens exist.
<i>Reverse Monroe County Solid Waste Management District's e-waste recycling incentives (i.e. instead of requiring residents to pay for these items to be recycled, offer incentives for properly recycling of electronics).</i>	Programs & Services	Comm	Waste-Solid	Waste	thinking	MCSWMD	n/a	negative	some		County investigated waiving the cost of e-waste recycling but deemed it not cost-effective.
<i>Work with financial institutions and interested citizens to explore the potential for location-efficient mortgages (LEMs) in the Bloomington area.</i>	Programs & Services	Info	Info items	Info items	thinking	HAND? Economic & Sustainable Development?	n/a	positive	some		LEMs or Green Mortgages have been researched by the EC for the Green Building Tour; the City has not actively worked with any local financial institutions
<i>Work with local businesses (particularly the largest), industrial, and institutional energy customers in Bloomington to establish and meet energy-efficiency and GHG reduction targets.</i>	Programs & Services	Comm	Energy-General	Comm/Ind	thinking	Planning, HAND	n/a - high	neutral	high		City is setting an example of energy-efficiency; provides zoning and permit incentives through the Green Building Ordinance; not actively seeking out relationships with businesses with a focus on GHG reduction target development; for reference, the three largest businesses are IU, Cook Pharmica, and Bloomington Hospital.