

	A	B	C	D	E	F	G	H	I	J	K	L	M	
1	Helena Climate Change Task Force													
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3								Accomplishment	Current	Estimated Savings / Costs				
4										Initial Cost	Annual	Annual		
5	<i>Note: Action Plan Items are shown in Sections B. thru E. below</i>							Comments	Status	Differential	Energy Saved	Dollars Saved	Comments	
6														
7	A. Beyond the Climate Action Plan - Accomplishments													
8														
9		1	Wastewater											
10			a.	Domestic Hot Water (on-demand)			Reduce Energy	Completed 3 of 4 hot water tank systems	\$	4,000	880 DKT	\$	9,680	
11			b.	Solar PV System at Wastewater Administration			Reduce Energy	Completed 2009	\$	3,000	26280 kWh/yr	\$	1,524	NWE grant \$25,000
12			c.	Purchased Hybrid Vehicle for Superintendent			Reduce Fuel Consumption	Purchased and operational.	\$	29,000				Fuel savings
13			d.	Power Demand Monitoring Meters			Reduce Energy	Purchased and operational. (5 yrs)	\$	500				Power demand awareness
14			e.	Variable Speed Drive for Blowers (demand)			Reduce Energy	Operational 2008	\$	103,205	460,986 kWh/hr	\$	39,305	NWE grant \$64,000
15			f.	Heat Recovery for Secondary Blower			Reduce Energy	Operational 2008	\$	30,000	129310 kWh/yr	\$	7,500	NWE grant \$20,000
16			g.	Variable Speed Drive for Non Pot Pumps			Reduce Energy	Operational 2008	\$	18,000	57,323 kWh/yr	\$	4,300	NWE grant \$12,000
17			h.	Lighting Upgrade			Reduce Energy	Completed 8/2010	\$	7,200				50% reduction
18			i.	Variable Speed Dive for Waste Pit Pump			Reduce Energy	Completed 2006						20% reduction
19			j.	Boiler Upgrade/Methane			Reduce Energy	Operational since 2002	\$	20,000	15525 DKT	\$	31,000	
20			k.	Outdoor Lighting Conversion			Reduce Energy	Completed in 2001						50% reduction
21			l.	Efficient Unit Heaters/Windows/Insulation			Reduce Energy	Completed over the last 2 years.						
22			m.	Reverse Osmosis in the laboratory			Reduce Energy and O&M costs	Complete in 2011	\$	1,541	4,611 kWh/yr	\$	5,726	NWE grant of \$1,400 (\$404 energy & \$5,325 O&M)
23			n.	Waste oil heater in Maintenance Shop			Reduce Energy	Completed May 2012	\$	13,385	1,100 DKT	\$	10,000	
24														
25		2	Water											
26			a.	Solar Aerators (Chessman Reservoir)			Reduction in Chemical usage/efficient treatment	Completed/Operational/on-going	\$	86,000		\$	25,000	Chemical savings
27			b.	TMTF Lighting upgrade				Completed	\$	13,000	200,000kWh/yr	\$	16,000	
28			c.	MRTP Lighting Efficiency Project			Reduce Energy much like TMTF recommendation	Complete in November 2010	\$	5,950	23,739 kWh/yr	\$	722	
29			d.	MRTP Backwash/Recycle			Reuse of Bureau of Reclamation Water	Permit Received - FY11 Preliminary Request						
30			e.	MRTP Energy Efficient Boiler			Reduced nature gas consumption	In Use since 2007		\$20,000				20% natural gas reduction
31			f.	TMTF Backwash/Recycle			Recycle Ten-mile Creek Water	Design/Construction 2013/2014						
32			g.	Heat Recovery for HVAC system at Tenmile			Reduce Energy	Completed	\$	409,000	490,000 kWh/yr	\$	40,000	grants \$307,000
33			h.	Domestic Hot Water (on demand) for MRTP			Reduce Energy	Purchased in FY11	\$	1,000				
34			i.	Power Demand Meter for MRTP			Reduce Energy	Operational since 2005	\$	250				Energy demand awareness
35			j.	Clearwell and pump station - MRTP			Reduce Energy	Completed Fy2010						
36			k.	Tenmile Watershed Collaborative Committee			Formed and recommendations made 2009	Recommendations unanimously approved by city commission July 2009						
37				Source Water Protection Plan				Ongoing meetings of stakeholder representatives						
38			l.	FEMA Grant for fire mitigation on the Red Mtn Flume			Contracts have been awarded - prj to start in fall of 2010							FEMA grant \$312,831
39			m.	Agreement with FWP			Release 1 cfs of water to Ten Mile Creek when it drops below 4 cfs	Agreement approved by Commission 2010						
40			n.	Comprehensive Performance Evaluation (Optimization)			Completed optimization study 2009	Floc/sed bldg. near completion spring 2013						
41			o.	VFD/new pump/low zone control/Boiler control			Reduce energy and improve process control	Project completed in 2012	\$	61,530	103,704 kW/387 DKT	\$	24,459	NWE grant \$32,000
42														
43		3	Park & Recreation Vehicles and Equipment											
44			a.	Golf Course - Hybrid greens mowers			Reduced sound levels and fuel consumption	2 hybrid greens mowers in use since 2006						
45			b.	Snow Removal - smaller equipment			Fuel Savings							
46			c.	Park vehicles			Use of ethanol blend fuels and synthetic oil							
47			d.	Saws & Trimmers			4 stroke engines use less gas and burn cleaner							
48			e.	Toolcat (Multi-function Skidsteer)			Minimizes volume of on-site equipment - fuel savings							
49														
50		4	Water Conservation - Irrigation											
51			a.	Golf Course - Wells for Irrigation			Developed wells to stop irrigating w/ City treated water							
52			b.	Parks - centralized computer control of irrigation			Automatic sprinklers in all parks, no day time watering							
53														

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54					5 Park & Recreation								
55				a.	Golf Course - Pond Aerator run time reduction			Reduced aerators run time by 14/hrs day					
56				b.	Golf Course - Thermostats @ 64 for work and 55 non-work			Heating cost reduction and Energy savings					
57				c.	Golf Course - Shutters on Office Windows			Heating cost reduction and Energy savings					
58					Golf Course - Conducted a NW Energy Audit			Studied Energy Usage and Options	Completed in 2009				
59					Golf Course - Irrigation System Upgrades			Identified potential Water & Energy Savings. Received a DNRC grant to conduct an irrigation audit. Completed an irrigation study with recommendations for irrigation improvements.	Moving forward with a project plan.				
60				a.	Golf Course - Large Urban Green Space			turf & trees sequester CO ₂ and release O ₂	Carefully maintained on an ongoing basis				
61				d.	Kindrick Legion Field - on-demand water heater			Reduced energy consumption	In use since 2006				
62				e.	Brewers Clubhouse - electronic water boilers			Reduced energy consumption	In use since 2009				
63				f.	Swim Pool - electronic water boilers			Reduced energy consumption	In use since 2009				
64				g.	Swim Pool - thermal pool blankets			Reduced heating/ energy consumption	In use since 1985				
65				h.	Memorial warming house - boiler electronic ignition			Eliminated pilot light - reduced energy consumption	In use since 1995				
66				i.	Memorial warming house - replaced windows			Energy savings through efficient windows	In use since 2009				
67				j.	Open Lands forest health enhancement			Forest fuel treatment on open lands to reduce the risk of wildfires and enhance forest health. Completed 580 acres of open lands forest restoration since 2008 and 72 acres along the 10-mile flume	Expect to complete project by Spring 2014				
68				k.	Open lands wildfire risk reduction projects			Forest fuel treatment on open lands and along the 10-Mile Flume to reduce the risk of wildfires and enhance forest health. Completed 580 acres of open lands forest restoration since 2008 and 72 acres along the 10-mile flume	Expect to complete project by Spring 2014				
69													
70				6	Zoning Ordinance Update								
71				a.	Elimination of min. lot size and building size			Encourages infill development	Completed				
72				b.	increase lot coverage in some districts			Encourages infill development	Completed				
73				c.	allows residential uses by right in most commercial districts			Encourages mixed use development	Completed				
74				d.	added urban Wildland chapter/zoning overlay			Added additional requirements for roofing materials and vents	Completed				
75													
76				7	Subdivision Regulations								
77				a.	Requires non motorized facilities as part of design			Requirements in Engineering Design standards	Completed				
78													
79				8	Growth Policy Update								
80				a.	Addition of Water chapter			Identifies policies relating to water quality, quantity and conservation	Draft				
81				b.	Addition of Environment chapter			ID goals associated with energy/global climate change	Draft				
82													
83				9	15th Street Parking Ramp								
84					Install Induction and T5 Lighting			Reduced energy consumption	Completed				
85					Design, Build & Program Lighting Controller			Reduced energy consumption	Completed				1/2 the cost/space of other garages
86													

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87			10	City-County Administration Building (CCAB)									
88			a.	CCAB Boiler			Boiler upgrades	Completed		\$ 157,800	6% natural gas savings	\$3,180.00	Completion due 10/28/11
89			b.	CCAB Control Valve Replacement			Replace all radiator control valves	Completed		\$ 45,159	12% natural gas savings	\$6,300.00	
90			c.	CCAB Steam System			Steam Distribution upgrades	Completed		\$ 42,000	3% natural gas savings	\$1,590.00	Completion date 9/30/11
91			d.	CCAB Windows			Window Repair/upgrades	Ongoing					
92			e.	2nd Floor Remodel			Air-to-air heat exchanger	Completed					
93			f.	Energy efficient mail vehicle			Hybrid or electric vehicle for mail delivery to City/County bldgs	Pending purchase in FY13					
94			g.	IT Virtualization of servers			Awarded \$4,500 in energy rebates for this effort	Completed					
95													
96			11	New HATS Building									
97			a.	Boilers			High efficient radiant floor heat system	Completed					
98			b.	Lighting			High efficient lighting	Completed					
99			c.	Bus Wash			High efficient water recirculation bus wash system	Completed					
100			d.	Air handling system			High efficient air-to-air heating system	Completed					
101													
102			12	City Shop									
103			a.	New water heater				Completed					
104			b.	Lighting			New lighting in main shop and wash bay	Pending installation			80,758 KWH	\$6,965.00	Completion date 3/30/12
105													
106			13	Solid Waste Shop									
107			a.	Lighting			High efficient lighting	Pending installation			12,110KWH	\$1,175.00	Completion date 12/30/11
108													
109			14	Main Fire Station									
110			a.	New lighting in apparatus floor			High efficient lighting	Completed			12,809 KWH	\$1,243.00	
111			b.	New boiler controls				Completed					
112			c.	New low energy condinsate pump				Completed					
113													
114			15	Eastside Fire Station									
115			a.	New lighting in apparatus floor			High efficient lighting	Completed			14,762 KWH	\$1,404.00	Completion date 9/30/11
116													
117			16	Community Development									
118			a.	Energy Code			Adoption of 2009 edition of International Energy Conservation Code	Completed					
119			b.	Seminars on Green building			Webinars on LEED and Green building provided by Building Dept.	Ongoing as available					
120													
121													
122			Noteworthy:										
123			1) City Water/Wastewater Superintendent Don Clark received the 2011 BetterBricks Award for a Facility Manager/Operator.										
124			The awards are distributed by the Northwest Energy Efficiency Alliance and recognize individuals in Oregon, Washington, Idaho and Montana who										
125			are leading efforts to make buildings high-performance and efficient.										
126			2) On July 18, 2012 the Public Works and Community Facilities departments of the City of Helena completed a year-long Strategic Energy Management										
127			Cohort. This Cohort was sponsored by NorthWestern Energy and Northwest Energy Efficiency Alliance (NEEA). The Cohort was a collaborative effort										
128			in energy management making Montana companies more competitive and energy efficient.										
129			3.) In February, 2013, the City of Helena hosted public meetings for the Greening America's Capitals program to explore effective green stormwater treatments and intermodal transportation options in the downtown area.										
130			4) On March 23, 2013 the City of Helena participated in Earth Hour by turning off all essential lighting in the City County building for one hour.										

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6													
131	B. Implementation					IMP -							
132	<i>(Action Plan Items)</i>												
133													
134		1	Sustainability Coordinator			IMP -	1						
135		>>	<i>City accomplishment recognized in the Action Plan</i>					FTE not sustainable, responsibilities shifted to city directors/staff					
136		a.	Grant Coord - Energy, Water, Resources										
137		b.	Programs & Policies - Sustainability										
138		c.	Track - Climate & Green Implementation										
139		d.	Coordinate - Green Team & Conserv Board										
140		e.	Report - GHG, Water, Energy, Fuel, Costs										
141		f.	Education - Coordinate DOE/Public/Private										
142		g.	Grants & Partnerships to leverage City resources										
143		h.	Staff & Coord - Green Team										
144		i.	Staff & Coord - Citizen Conservation Board										
145													
146		2	Green Team			IMP -	2	City Directors Group appointed as Green Team to emphasize Full Scope involvement					
147		a.	Track Implementation & Recommendations										
148		b.	Sustainability Policies, Programs and Processes										
149		c.	Coord. inter-department sustainability initiatives										
150		d.	Low/No Cost resource savings practices at work										
151		e.	Sustainability Education - City Staff										
152		f.	Annual Environmental Sustainability Progress Report					This Matrix is a perpetual record of Sustainability Progress					
153		g.	Green Purchasing List						The City does not have "Central" Purchasing				
154													
155		3	Citizen Conservation Oversight Board			IMP -	3	HCC may act as the volunteer board on these issues if necessary.					
156		>>	<i>City accomplishment recognized in the Action Plan</i>					<i>Helena Climate Change Task Force</i>	Sunsetted August, 2009 - Action Plan Completed				
157		>>	<i>City accomplishment recognized in the Action Plan</i>					<i>Helena Open Lands Mgmt Advisory Council (HOLMAC) Est-1997</i>	Ongoing				
158		a.	City & Community-wide Conservation										
159		b.	Amend other Authority, Board, Committee Missions										
160		c.	P&R - Coordination of forest resource projects with HOLMAC						Ongoing				
161		d.	P&R - Coordination with City/County Parks Board						Ongoing				
162													
163		4	Education & Outreach - GHG and Conservation			IMP -	4						
164		>>	<i>City accomplishment recognized in the Action Plan</i>					<i>Helena Area Transportation System (HATS)</i>	Education & Advertising is Ongoing				
165		a.	Co-sponsor tours and seminars										
166		b.	"Bike to Work Week" type events										
167		c.	Publicize options - website links, fliers, mailings										
168		d.	Publicize City "Lead by Example" projects										
169		e.	Annual Awards - Staff & Community										
170		f.	Utilize Fed & State programs					Participated in Greening America's Capitals program through the EPA	Mar'13-Apr'13 Receiving public comments on recommendations				
171		g.	Annual City Environmental Footprint Report										
172		h.	Community businesses sustainability program										
173		i.	Helena Schools sustainability curriculum										
174													

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6													
175			5	Data Collection, Monitoring and Reporting		IMP -	5						
176			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>2001 thru 2007 Data Collection - ICLEI format</i>	Completed 10/08				
177			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Original ICLEI Database</i>	Staff intensive with limited reporting capabilities				
178			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Access to NWE energy audit information</i>					
179			a.	Systemize Data Collection				<i>Ongoing Data Collection</i>	DEQ Partnership - Energy CAP				
180			b.	Database Software Options									
181			c.	Continue ICLEI membership									
182			d.	Electricity					continued FY 2011				
183			e.	Natural Gas									
184			f.	Vehicle Fuels									
185			g.	Solid Waste									
186													
187			6	Greenhouse Gas Reduction Goal		IMP -	6						
188			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>City-wide Energy Efficiency Projects</i>	Reduced GHG 18.1% (01 thru 07) & Ongoing				
189			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Global Climate Change Resolution 19530</i>	December 3, 2007				
190			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Commission Resolution of Budget Intent</i>	May 5, 2008 and Ongoing				
191			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Stimulus Resolution</i>	January 12, 2009				
192			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Energy Efficiency Stimulus Resol. Expansion</i>	March 9, 2009				
193			a.	20% below 2007 levels by 2020									
194													
195			7	Mayor's Climate Protection Agreement		IMP -	7		Agreement signed 01/11/10				
196			>>	<i>City accomplishment recognized in the Action Plan</i>									
197			a.	Meet or beat Kyoto Protocol targets				<i>Exceeded Kyoto Protocol target of 7% by 2012</i>	Reduced GHG 18.1% (01 thru 07)				
198			b.	Urge Fed & State Green policies and programs									
199			c.	Urge Fed Green House Gas Reduction Legislation									
200													
201			8	Funding and Leveraging Resources		IMP -	8						
202			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Energy Efficiency and Conservation Block Grant</i>	Ongoing				
203			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Annual Budget Provisions</i>					
204			a.	Set Structural Process to support Sustainability									
205			b.	Pursue Grant and Partnership Opportunities									
206			c.	TMTF - Energy Effic. & Conserv Block Grant				HVAC project will result in energy efficiency	Competitively Awarded \$62,000				
207													

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208	C. Energy Efficiency & Municipal Operations					NRG -							
209	<i>(Action Plan Items)</i>												
210													
211		1	TMTP - Lighting Upgrade			NRG -	1	Efficient T5 Bulbs replaced existing.	Completed - Northwestern Grant Received				
212			>> <i>City accomplishment recognized in the Action Plan</i>					City/County Building Lighting Conversion to T-5's	Completed				
213													
214		2	TMTP - Water-Source Heat Pump			NRG -	2	Approved Stimulus/Northwestern Grants	Accepted NWE & ARRA grant monies				
215													
216		3	TMTP - Biomass Generator			NRG -	3		County is pursuing grant funds for project.				
217			>> <i>City accomplishment recognized in the Action Plan</i>					<i>FEMA Fuel Reduction Proj. -- Red Mtn Flume</i>					
218			>> <i>City accomplishment recognized in the Action Plan</i>					<i>Moved to WTR-7</i>					
219													
220		4	WWTP - Energy Efficiency Upgrades			NRG -	4						
221			>> <i>City accomplishment recognized in the Action Plan</i>					<i>2001 thru 2007 Energy - Water & Wastewater</i>	49% reduction (01 thru 07)				
222			>> <i>City accomplishment recognized in the Action Plan</i>					<i>2001 thru 2007 Carbon Emissions - Water & Wastewater</i>	37% reduction (01 thru 07)				
223			>> <i>City accomplishment recognized in the Action Plan</i>					<i>Secondary Aeration Project</i>	Ongoing 16% Electricity Savings				
224			>> <i>City accomplishment recognized in the Action Plan</i>					<i>Methane Co-Generation - Stirling Engines</i>	.5 million kWh/yr (7.4 year payback)				
225			>> <i>City accomplishment recognized in the Action Plan</i>					<i>Waste Heat Recovery Project</i>	110,000 kWh/yr (3.5 year payback)				
226			>> <i>City accomplishment recognized in the Action Plan</i>					<i>Water Pumps VFD & PID controls - 57,000 kWh /yr</i>	57,000 kWh/yr (2.3 year payback)				
227			>> <i>City accomplishment recognized in the Action Plan</i>					<i>T-12 to T-5 Lighting Fixtures</i>	Northwestern Rebate Eligible - FY11 Budget				
228			>> <i>City accomplishment recognized in the Action Plan</i>					<i>Computer Control System - plant energy</i>	Pursuing \$300K Stimulus Grant - FY11 Budget				
229													
230		5	WWTP - Zero Energy Target			NRG -	5						
231			>> <i>City accomplishment recognized in the Action Plan</i>					<i>2001 thru 2007 Energy - Water & Wastewater</i>	49% reduction (01 thru 07)				
232			>> <i>City accomplishment recognized in the Action Plan</i>					<i>2001 thru 2007 Carbon Emissions - Water & Wastewater</i>	37% reduction (01 thru 07)				
233													
234		6	Comprehensive Energy Management Strategy			NRG -	6						
235			>> <i>City accomplishment recognized in the Action Plan</i>					<i>Centralized Facilities Department Established 2002</i>	Ongoing Energy Management				
236		a.	Energy Use Analysis										
237		b.	Energy Use Goals										
238		c.	Energy Use Action Plan (by July, 2010)										
239													
240		7	City Buildings - Energy-Efficiency Standards			NRG -	7						
241		a.	Energy Efficiency Standard similar to State's SB49										
242													

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243			8	City Buildings - Lighting Efficiency		NRG -	8							
244			a.	40% Lighting Energy Reduction (after 2007)										
245			b.	Occupancy Sensors				CCAB 2nd floor remodel	Completed					
246			c.	Legion Field Lights				Apr-09	Completed					
247			d.	Fire Dept Lights					Completed					
248			e.	Civic Center LED Sign				Sep-09	Completed					
249			f.	Airport Runway Lights										
250			g.	P&R - Pedestrian Mall from 240 to 120v security lights				Energy Savings	In use since 1998					
251			h.	P&R - Park building and area light changed for efficiency				Fluorescent/electronic ballast/ photocells/timers	Initiated in 2006 - 100% complete					
252			i.	P&R - new LED scoreboard at Kindrick Legion Field				Energy Savings	In use since 2009					
253			j.	P&R - new LED exit lights in all buildings				LED exit lights in all buildings	Initiated in 2009 - 100% complete					
254			k.	P&R - Golf Course fluorescent bulbs and replaced T-12 to T-8				64% energy consumption savings						
255			l.	P&R - Walking Mall lights to LED lighting				Replacement of 215 high pressure sodium lights with LED lights (see attached memo)	Completed in 2012. There has been a documented 76.1% decrease in energy costs as well as maintenance costs.	\$9,800			\$2,600	
256			m.	Participate in Earth Hour 2013				Turned off all non-essential lights in City/County Building for 1 hour	Initiated March 22, 2013					
257			n.	Civic Center Lighting				New lighting in Ballroom Mezzanine to be installed June 2014	Pending Budget					
258														
259			9	City Bldgs Electrical Equip. - "Plug Loads" Reduction		NRG -	9							
260			a.	Energy Efficient Technology										
261			b.	Energy Conservation - Behavioral Changes										
262			c.	Energy Star Procurement Policies										
263			d.	Energy Saver features enabled										
264				Office Equipment - End of Day Shut Down										
265				Smart Power Strips (elim. Phantom loads)										
266														
267			10	Conservation and Renewable Energy - Policy Assistance from NWE and the PSC		NRG -	10							
268			a.	Rate Structure										
269			b.	Peak Savings Options										
270			c.	Distributed Generation										
271														
272														
273			11	City/County Facilities - Renewable Energy Projects		NRG -	11							
274			a.	Biomass										
275			b.	Solar										
276			c.	Wind										
277			d.	Geothermal										
278														
279			12	State Fuel Economy Standards		NRG -	12							
280			a.	Federal Corporate Avg Fuel Economy Standard										
281			b.	30 mpg or Better for Vehicle Fleet										
282														

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6													
283			13	Improve Fleet Performance		NRG -	12						
284			a.	Fleet Inventory Examination				Along with the purchase of a two hybrids we have purchased numerous smaller 1/4 ton trucks to replace larger 1/2 ton trucks for better fuel economy. Newly purchased heavy duty diesel fueled trucks meet Tier 4 emissions requirements. Two recently purchased medium duty diesel fueled trucks meet Tier 4 emissions requirements.					
285			b.	Purchase smallest and most efficient vehicle that can do the job									
286													
287													
288			14	Biodiesel Use & Supply		NRG -	13						
289													
290			15	LED & Solar - Street and Parking Lights		NRG -	14						
291			a.	Street Light Analysis				All State owned and City owned traffic signals, flashers and pedestrian crossings in the City of Helena have been changed to LED lights.					
292			b.	LED & Solar Power for all New Lights									
293			c.	Replace any Mercury-Vapor Lights with LED									
294			d.	Municipal coalition regarding NWE practices									
295			e.	P&R - Park building and area light changed for efficiency				Fluorescent/electronic ballast/ photocells/timers	See 8(h) above				
296			f.	Subdivision Streetlight Requirements					Will be part of Subdivision Regulations review				
297													
298			16	Employee Commute and Waste Reduction		NRG -	15						
299			a.	Consider staggered work hours in some/more offices to mitigate the impacts of traffic congestion at 8:00 a.m. and 5:00 p.m.									
300			b.	Consider alternate schedules (4/10's) for more offices to reduce travel one day per week.									
301													
302	D. Water Supply, Treatment & Delivery					WTR -							
303	(Action Plan Items)												
304													
305			1	Water - Conservation Rates		WTR -	1		Discussed during FY11 Budget development				
306			>>	City accomplishment recognized in the Action Plan				Lowest Base - Highest Volume Water Rates in State					
307			a.	Tiered Water Rates									
308			b.	Seasonal Water Rates									
309													
310			2	Water - Supply & Treatment Facility Upgrades		WTR -	2	(See Section A. - #2)					
311			a.	x				x					
312													
313			3	City "Lush & Lean" Landscaping		WTR -	3						
314			a.	P&R - native vegetation landscaping				Where applicable in new parks	FY 2010 - six new neighborhood parks				
315													
316			4	Community - Water Conservation Incentives		WTR -	4						
317			a.	Rebate Programs									
318													

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319			5	Education & Outreach - Water Conservation		WTR -	5							
320			a.	x				x						
321														
322			6	Water - Program to Regulate Use		WTR -	6							
323			a.	Building Codes										
324			b.	Irrigation & Watering Regulation										
325			c.	Prohibitions on Wasteful Water Practices										
326			d.	Landscaping Regulations										
327														
328			7	Water Supply & Watershed Protection		WTR -	7							
329			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>FEMA Fuel Reduction Proj. - Red Mtn Flume</i>						
330			a.	TMDL and Non-point Source Management				Remove non-point source septic pollution through Westside annexations, i.e. Woodlawn Dunbar						
331														
332			b.	Stream & Riparian Conditions and Restoration				Maintenance Flow Agreement with MFWP						
333			c.	Watershed Forest Management				FEMA Fuel Reduction pm flume	In bidding process					
334			d.	Watershed Plan - All Stakeholders				Forest Service/EPA/DEQ reviewing recommendations	Forest Service forestry plan					
335														
336			E.	Transportation, Waste, Recycling, and		TWRP -								
337				Public-Private Partnerships										
338				<i>(Action Plan Items)</i>										
339														
340			1	Transportation District		TWRP -	1		Transit District petition drive failed					
341			a.	Transit District										
342														
343			2	Non-Motorized Transportation		TWRP -	2							
344			a.	Complete Streets					Current /recent Commission Agendas Item					
345			b.	"Bicycle Friendly Community" designation										
346			c.	Extend Centennial Trail bike/ped pathway										
347				P&R - Centennial Park Development				Park improvement includes trail development	Part of the major park improvement plans					
348			d.	Make pedestrian bump-outs bicycle friendly										
349			e.	Bike/ped connections to major destinations										
350			f.	Commuting classes and maps										
351			g.	Bicycle Police Patrols										
352			h.	Inventory of ADA compliant and other intersections				Inventory near completion ADA committee prioritizing						
353			i.	Update of ADA Transition Plan				Transition plan will identify needed improvements for greater access						
354														
355			3	Solid Waste - Pay-As-You-Throw Program		TWRP -	3							
356			a.	Hire SERA to design PAYT system				Police direction needed						
357			b.	Lower permit tonnage from 2 to 1 ton		by 1/1/10		Part of Residential Rate Resolution - Policy Direction	Commission will consider each year in fall					
358								Lowered permit tonnage from 2 to 1.5 tons FY12						
359			c.	Tonnage from 1 to 1/2 and replace 300s w/ 90s		by 1/1/11		Part of Residential Rate Resolution - Policy Direction	Commission will consider each year in fall					
360			d.	Tonnage from 1/2 ton to 0		by 1/1/12		Part of Residential Rate Resolution - Policy Direction	Commission will consider each year in fall					
361														

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362			4	Solid Waste - 35% Recycling Goal (EPA)			TWRP -	4					
363			>>	<i>City accomplishment recognized in the Action Plan</i>				P&R - Tree waste used for playgrounds and shrub beds	Productive use of recycled material				
364			>>	<i>City accomplishment recognized in the Action Plan</i>				P&R - Recycle oil, aluminum and waste metal	Recycling is a standard operating procedure				
365			a.	Solid Waste diversion - 19% by 2011									
366			b.	Solid Waste diversion - 22% by 2015									
367			c.	Solid Waste diversion - 35% by 2020									
368			d.	Source Reduction: Waste Avoidance									
369				* "Living Lightly"									
370				* PAYT system									
371				* Disposable Shopping Bag Fee"									
372				* Back to the Tap Policy									
373													
374			e.	Reuse (2nd Life)									
375													
376			f.	Recycling									
377				* Increase recycling drop-off sites				Added Fairgrounds and IR sites					
378								Added Dale Harris and Dillard's for a total of 5 offsite locations					
379								Added Office Paper as Recyclable Item in Newspaper Bins					
380				* Commercial/Non-profit Incentives									
381				* Partner with Headwater Cooperative Recycling									
382				* Cost/Benefit - Per Transaction @ Transfer				Declaring Recycling @Transfer Station, weight not charged against permit allowance-Incentive to Recycle					
383				* Cost/Benefit - "Blue Bag" curbside programs				Additional funding provided in FY11					
384								Added Office Paper to accepted items 7/12, began delivering Blue Bags 9/12					
385				* Staff Incentives - City Office/Facil. waste reduction									
386				* In-Building Recycling Bins				Implemented					
387				* City permitted/funded/sponsored - guidelines				Insert in IR in 2011 with Recycling Guidelines, Handout with Map of all Recycling Sites, Involved with America Recycles Day					
388				* Assume S.A.V.E.s plastic & recycling - go monthly				City contributes bins & staff time towards S.A.V.E.'s recycling efforts					
389				* Analysis - Full Cost Waste Disposal vs. Recycling									
390				* Expand Recycling utilizing existing capacity				Began E-Waste Program, added Textiles and Ink Cartridges in FY11, Built Oil & Antifreeze Structure in FY13					
391				* Recycling Sorting and Convenience Center									
392				* Additional Glass Collection locations				Glass collected in Roll-offs @ Transfer Station					
393			g.	Composting				Partnered with L & C County for Composting FY12					
394			h.	Landfill & Incineration (if all else fails)									
395													
396			5	Employee Commute and Waste Reduction									
397			a.	Consider alternate schedules (4/10's) for more offices to reduce travel one day per week.				Consider closing facility 1 day a week from 7 days a week operation to 6 days a week, changing some employee schedules to 4/10's. April 2013 - schedule proposed					
398													
399			6	Shopping Bags - Per-Bag Fee System			TWRP -	5					
400			a.	x				x					
401													

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402			7	Bottled Water - Back-to-the-Tap Policy			TWRP -	6					
403			a.	Internal Audit - Bottled Water Usage									
404			b.	City Sponsored/Permitted Events - Audit Sales									
405			c.	Education - Employees & Residents									
406			d.	City Employees - Eliminate purchases									
407			e.	Ban Sale - City Sponsored/Funded/Permitted Events									
408													
409			8	Homes - Energy and Efficiency Audits & Retrofits			TWRP -	7					
410			a.	Partnerships - 100 homes				Green Blocks Pilot Program	Completed w/ help of HCC; expedited review process for installation of insulation (no permit required for installation)				
411			b.	Education									
412													
413			9	Food - Local Food Production & Consumption			TWRP -	8					
414			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Ongoing Permitting of Farmers Market</i>					
415			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Waukesha Community Gardens since 1970</i>					
416			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>YMCA Community Garden</i>					
417			>>	<i>City accomplishment recognized in the Action Plan</i>				<i>Community Garden Plans - New Neighborhood Parks</i>					
418			a.	Farmers Market - support									
419			b.	Community Gardens - Partner & Create									
420				P&R - Community Garden design & construction				In the development stage	2010/11 - 2 new community gardens in process				
421			c.	Community Gardens - Administrative Management									
422			d.	Website Links - gardening resources									
423			e.	Permitted community gardens as use by right				Accommodates community gardens in residential neighborhoods	Completed				
424													
425	MATRIX KEY												
426	GREEN New or updated												
427	February 26, 2013												
428													
429	se												