

**Table 1  
Phase 1 GESPC Energy Savings Summary**

<b>Building/Facility</b>	<b>Electricity (kWh) [1]</b>	<b>Natural Gas (therms) [1]</b>	<b>Water (1,000 gal) [1]</b>
King Park	220,438	3,748	
Kosciuszko Community Center	261,572	5,476	
Washington Park	18,094	1,373	
Wilson Ice Arena	130,406	3,369	
O'Donnel Parking	578,814		
Coggs Center	721,417	52,881	
Noyes Pool	157,728	20,363	
Pulaski Pool	82,356	11,809	
Court House	1,178,952		
Crim Justice Facility	1,473,288		
Zoo - Administration	19,980	4,533	
Zoo - Flamingo	27,890	6,809	
Zoo - Peck Education Center	7,880	8,191	
Zoo - Lakeview	10,060	2,364	
Zoo - Peck Welcome	33,470	5,548	
Zoo - Res Directors	730	148	
Zoo - Special Exhibit	12,380	1,360	
Zoo - Zoofari Conference	42,950	10,738	
Zoo - Animal Health	12,280	3,963	
Zoo - Macaque bldg	-31,610	6,141	
Zoo - Australian		805	
Zoo - Aviary		986	
Zoo - Big cat feline	36,450	8,573	
Zoo - Old animal hospital	7,380	1,298	
Zoo - Apes	94,300	9,560	
Zoo - Aquatics/reptile	11,800	12,607	
Zoo - Small mammals		1,191	
Zoo - Heritage Old Ed	1,890		
Zoo - Heritage Dairy	9,680	963	
Zoo - Commissary	1,130	2,133	
Zoo - misc exhibits + plumbing			155,029
Zoo - cold drink misers	15,535		
Zoo - misc lighting	475,994		

**TOTAL                                  5,613,234                                  186,930                                  155,029**

<u>\$ equivalent cost avoidance</u>				Simple ROI
Estimates from ESCOs	\$392,289	\$192,119	\$57,684	14%
at 7 cents/kWh; \$1.00/therm; \$0.36/1000 gal :	\$392,926	\$186,930	\$55,811	14%
at 9 cents/kWh; \$1.10/therm; \$0.45/1000 gal :	\$505,191	\$205,623	\$69,763	17%

1. These are the guaranteed amounts of energy savings, and actual amounts of savings may be greater.
2. Simple ROI = Annual cost avoidance/Total cost
3. The \$ equivalent are for comparative purposes only and do not reflect the actual ROIs for individual projects

Table 2  
List of Approved Buildings for Phase 2 TEAs

Children's Court Center on the County Grounds	219,539 square feet
Fleet Management	287,528
Parks Administration	27,131
Sports Complex	70,000
Boys/Girls Club in Sherman Park	56,000
City Campus Office Building	240,605
Villa Terrace Museum	34,710
Charles Allis Museum	13,234
Marcus Center for the Performing Arts	227,217
Milwaukee Public Museum	349,098
Wil-O-Way Recreation Center – Grant Park	10,509
Wil-O-Way Recreation Center – Underwood Pkwy	8,975
McGovern Senior Center	12,938
Rose Senior Center	35,849
Kelly Senior Center	14,590
Washington Senior Center	30,092
Wilson Senior Center	31,727
Transit Fleet Maintenance	204,578
Transit Administration	51,749

**Table 3**  
**Phase 2 GESPC Energy Savings Summary**

Building/Facility	Electricity (kWh) [1]	Natural Gas (therms) [1]	Chilled Water (ton-hr) [1]	Steam (MLbs) [1]	Water (1,000 gal) [1]
Children's Court	892,461		103,384	1,315	713
Fleet Garage and Sheriff's Bldg	791,427			931	117
Parks Admin Bldg	2,100	0		0	
Court House	2,776,595	27,378		0	2,625
Crim Justice Facility	199,136	11,163		0	9,543
King Park	6,600				
Kozi Community Center	2,055				
Wilson Park	82,500				
Noyes Pool		19,800			
Pulaski Pool		19,800			
Sports Complex	270,000				
Boys/Girls Club	15,000				
<b>TOTAL</b>	<b>5,037,874</b>	<b>78,141</b>	<b>103,384</b>	<b>2,246</b>	<b>12,998</b>

\$ equivalent cost avoidance  
 at 7 cents/kWh; \$1.00/therm; \$0.36/1000 gal : \$352,651 \$78,141 \$43,421 \$22,460 \$4,679 Simple ROI 11%  
 at 9 cents/kWh; \$0.10/therm; \$0.45/1000 gal : \$453,409 \$85,955 \$43,421 \$22,460 \$5,849 Simple ROI 13%  
 and \$10.00/1,000 pounds of steam + 0.42/ton-hr CW

1. These are the guaranteed amounts of energy savings, and actual amounts of savings may be greater.
2. Simple ROI = Annual cost avoidance/Total cost
3. The \$ equivalent are for comparative purposes only and do not reflect the actual ROIs for individual projects
4. Phase 2 work for King Park > Boys/Girls Club is still in negotiation stage and subject to change.

**Table 4**

**ESTIMATED ENVIRONMENTAL BENEFITS (for 2011)**

Waste Recycled	1,300 tons
Water Saved	168,000,000 gallons
Electricity saved	11,000,000 kilowatts
Natural gas saved	200,000 therms
Steam saved	3,000,000 pounds
Gasoline saved	2,500 gallons
Air emissions (CO2) avoided	9,646 tons

**Benefits in terms of equivalents**

Reduced air emissions in terms of 'autos off the road'	1,700 autos
Reduced energy consumption in terms of 'residential homes'	600 homes
Reduced waste consumption in terms of 'residential homes'	650 homes
Reduced water consumption in terms of 'residential homes'	1,300 homes

**Table 5****Milwaukee County's 'Green' Infrastructure**

<i>Description</i>	<i>Location</i>
Rainwater recovery/reuse	Boerner Botanical Gardens
Rainwater recovery/reuse (design)	Zoo
Parking lot stormwater bioswale	Bradford Beach
Parking lot permeable pavement	Zoo
Stormwater bioinfiltration raingardens (6)	Bradford Beach
Stormwater raingardens (3)	Lake Park
Stormwater bioinfiltration raingarden	McKinley Beach
Stormwater raingarden	Washington Park
Stormwater raingarden	Dineen Park
Stormwater raingarden	Humboldt Park
Subsurface stormwater infiltration	McKinley Beach
Subsurface stormwater infiltration	South Shore Park
Solar Flair (1.4 kW)	Zoo - Lakeview Café
Solar PV system (10 kW)	Zoo - Entrance
Permeable pavement	Zoo - Parking Lot
Permeable pavement	Dineen Park
Green Roof	Zoo - Peck Education
Solar PV system (3.3 kW)	Juneau Park Comfort Bldg
Solar PV system (3.1 kW)	Wilson Park Senior Center
Solar Hot Water system	Washington Park Senior Center
Solar Hot Water system (design)	Zoo
CNG filling station	Howell Ave Clark Station

**TABLE 6 - Milwaukee County's Alternative Fuel Vehicles**

<b>Description</b>	<b>Type</b>	<b>Quantity</b>	<b>Model/Manufacturer</b>	<b>Host Department</b>	<b>Notes</b>
Hybrid Electric Sedan	Regenerative braking system stores energy in batteries	35	Ford Fusion	various (Fleet)	
Hybrid Electric Sedan	Regenerative braking system stores energy in batteries	2	Chevy Malibu	Parks	
Hybrid Electric SUV	Regenerative braking system stores energy in batteries	12	Ford Escape	Transit and Parks	
CNG Hybrid Sedan	Uses compressed natural gas as primary fuel	2	Honda Civic	GMIA	
CNG Shuttle Bus	Uses compressed natural gas as primary fuel	6	El Dorado Aerotech 240	GMIA	
Zoomobiles	Electric-powered	3	Taylor-Dunn TC50E	Zoo	
Bucket truck	Hybrid electric	4	Kenworth/Dueco-Odyne	Fleet	on order
Garbage truck	Uses compressed natural gas as primary fuel	1	Kenworth	GMIA	on order