

**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>	<b>Notes</b>
King Park	201,627	3,028		per M&V rept
Kosciuszko Community Center	262,486	5,466		"
Washington Park	17,562	1,377		"
Wilson Ice Arena	120,427	3,449		"
O'Donnel Parking	385,320			"
Coggs Center	712,921	52,881		"
Noyes Pool	153,761	20,394		"
Pulaski Pool	78,462	11,840		"
Court House	1,230,851			per M&V rept
Crim Justice Facility	1,564,289			"
Zoo - Administration	19,980	4,533		guaranteed amnt
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			"
<b>TOTAL</b>	<b>5,517,875</b>	<b>186,346</b>	<b>155,029</b>	

<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 :	\$386,251	\$186,346	\$55,811	14%
at 9 cents/kWh; \$1.10/therm; \$0.45/1000 gal :	\$496,609	\$204,981	\$69,763	17%

1. See Notes column to see if this is guaranteed or verified savings.
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

Building	Status of TEA
Children's Court Center on the County Grounds	complete
Fleet Management	complete
Parks Administration	complete
Sports Complex	complete
Boys/Girls Club in Sherman Park	complete
City Campus Office Building	complete
Villa Terrace Museum	complete
Charles Allis Museum	complete
Marcus Center for the Performing Arts	complete
Milwaukee Public Museum	complete
Wil-O-Way Recreation Center – Grant Park	complete
Wil-O-Way Recreation Center – Underwood Pkwy	complete
McGovern Senior Center	complete
Rose Senior Center	complete
Kelly Senior Center	complete
Washington Senior Center	complete
Wilson Senior Center	complete
Transit Fleet Maintenance	complete
Transit Administration	complete
CCFS - Admin+600 Bed+400 Bed Dorms	authorized
CCFS – Dormitory Building Boiler House	authorized
CCFS – Training Academy	authorized
CCFS – Surges Multipurpose Bldg	authorized
CCFS – Lotter Dormitory Bldg	authorized
CCFS – Warehouse	authorized
CCFS – Industries Bldg	authorized
CCFS – Garage/Print Shop	authorized
CCFS – Miscellaneous small bldgs	authorized

**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	6,319				
Kozi Community Center	2,192				
Wilson Park	81,343				
Noyes Pool	2,514				
Pulaski Pool	2,514				
Sports Complex	270,360	-2,171			
Boys/Girls Club	99,186				
Transit Fleet Maintenance	174,728	-1,403			
Transit Admin Building	173,011				
<b>TOTAL</b>	<b>5,473,886</b>	<b>34,967</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 : \$383,172 \$43,421 \$22,460 \$4,679 10%  
at 9 cents/kWh; \$01.10/therm; \$0.45/1000 gal : \$492,650 \$38,464 \$22,460 \$5,849 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

**Table 4**

**ESTIMATED ENVIRONMENTAL BENEFITS of Phase I and II (for 2011)**

Waste Recycled	1,300 tons
Water Saved	168,000,000 gallons
Electricity saved	11,000,000 kilowatts
Natural gas saved	220,000 therms
Steam saved	3,000,000 pounds
Gasoline saved	2,500 gallons
Air emissions (CO2) avoided	9,800 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'	620 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 phase)	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
Permeable pavement	Zoo - Parking Lot
Permeable pavement	Dineen Park
Permeable pavement	Mitchell Park Domes
Permeable pavement (design)	Sports Complex
Green Roof	Zoo - Peck Education
Green Roof	Milwaukee Public Museum
Green Roof (planning phase)	GMIA
Solar PV system (3.3 kW)	Juneau Park Comfort Bldg
Solar PV system (3.1 kW)	Wilson Park Senior Center
Solar PV Flair (1.4 kW)	Zoo - Lakeview Café
Solar PV system (10 kW)	Zoo - Entrance
Solar PV system (planning)	Washington Park Community Bldg
Solar Hot Water system	Washington Park Senior Center
Solar Hot Water system (design)	Zoo
Solar Hot Water system (planning)	GMIA
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	9	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