

Energy Indicators

UEA 1—Renewable Energy Action:

Increase the use of renewable energy to meet 10% of the City's peak electric load by 2012

2012 Baseline

310 MW

Target

31 MW

Indicator	FY2006	FY2007	FY2008
Percent of citywide renewable energy use	1.6	5.9	8.6
MWh total of citywide renewable energy use	19,535	72,731	106,813
Percent of customer load on green power	0.68	1.01	1.80
Running total number of green power customers	1,290*	1,402*	2,029*
kW photo voltaic (PV) installations citywide	62.9	26.9	105
Number of PV installations citywide	11	11	26
kW PV installations at City facilities	0	0	0
Number of PV installations at City facilities	0	0	0
Number of City facilities with green power subscriptions	0	1	1

UEA 2—Energy Efficiency Action:

Reduce the City's peak electric load by 10% by 2012

2012 Baseline (Projected)

322 MW

Target

289 MW

Indicator	FY2006	FY2007	FY2008
MWh of total citywide energy use	1,192,809	1,233,915	1,237,263
MWh of energy use by the municipal sector	57,544	57,749	56,064
MWh of energy use by the residential sector	314,235	337,816	337,314
MWh of energy use by the commercial sector	818,736	835,772	853,863
MWh energy savings from residential energy efficiency and demand reduction	1,300	1,122	5,562
MW peak energy reduction from residential energy efficiency and demand reduction	0.36	0.41	1.11
MWh energy savings from commercial energy efficiency and demand reduction	3,201	2,753	899
MW peak energy reduction from commercial energy efficiency and demand reduction	1.02	0.86	0.21
MWh energy savings from municipal energy efficiency and demand reduction	0	405	2
MW peak energy reduction from municipal energy efficiency and demand reduction	0	N/A	0
Decatherms of residential natural gas consumption	2,307,082	2,284,782	Pending
Decatherms of non-residential natural gas consumption	3,158,166	3,082,423	Pending

UEA3—Climate Change Action:

Reduce greenhouse gas emissions by 25% by 2030

2005 Baseline

954,490 metric tons CO²
(Emissions from total City
power supply)

Target

717,867 metric tons CO²
(Emissions from total City
power supply)

Indicator	FY2006	FY2007	FY2008
Metric tons of CO ² emissions per capita	TBD	TBD	TBD
Metric tons of CO ² emissions citywide	TBD	TBD	TBD
Metric tons of CO ² emissions from the total City power supply	974,817	Pending	Pending
Metric tons of CO ² emissions from land use	TBD	TBD	TBD
Metric tons of CO ² emissions from transportation	TBD	TBD	TBD
Metric tons of CO ² emissions from waste processing	TBD	TBD	TBD
Metric tons of CO ² emissions from municipal facilities and operations	TBD	TBD	TBD
Metric tons of CO ² emissions from City fleet	TBD	TBD	TBD

Running Total (All Figures are Annual Totals Except as Noted)

N/A—Not Available

TBD—To Be Determined

Waste Reduction Indicators (partial list only— those directly related to climate change)

UEA 4—Zero Waste: Achieve zero waste to landfills and incinerators by 2040

2004 Baseline
62% Diversion

Target
100% Diversion

Indicator	FY2006*	FY2007	FY2008
Tons of solid waste generated citywide	258,752	241,370	230,224
Pounds of solid waste generated per capita	3,590	3,349	3,195
Pounds of solid waste disposed per capita	1,634	1,514	1,498
Tons of solid waste landfilled	117,755	109,123	107,962
Tons of solid waste diverted from landfills	140,997	132,247	122,263
Percent of solid waste diverted from landfills into recycling programs	58%	Pending	Pending

UEA 6—Recycling: Implement “user-friendly” recycling and composting programs with the goal of reducing by 25% per capita solid waste disposal to landfills and incineration

2004 Baseline
TBD

Target
25% Per Capita Reduction

Indicator	FY2006	FY2007	FY2008
Per capita solid waste disposal	1,634	1,514	1,498
Tons of green waste recycled	19,812	16,970	15,931
Gallons of hazardous waste recycled	N/A	7,794	Pending
Pounds of electronic waste recycled	44,000	75,000	74,089
Gallons of vehicular oil recycled	N/A	250	800
Tons of construction and demolition debris recycled	19,011	18,738	17,213

**Running Total (All Figures are Annual Totals Except as Noted*)
N/A—Not Available
TBD-To Be Determined*

Urban Design Indicators (partial list only— those directly related to climate change)

UEA 7—Green Building:

Mandate a green building rating system standard that applies to all new municipal buildings

2005 Baseline

PMC 14.90 Green Building Ordinance

Target

Green Building Rating System

Indicator	FY2006*	FY2007	FY2008
LEED (Leadership in Energy & Environmental Design) certified buildings	3*	4*	5*
LEED registered buildings	5*	11*	23*
LEED certified municipal buildings	0*	0*	1*
Square footage of LEED projects - building permits issued	-	155,040	313,642
Square footage of new construction	1,287,163	1,749,889	1,665,906

UEA 8—Urban Planning:

Advance higher density, mixed use, walkable, bikeable and disabled accessible neighborhoods which coordinate land use and transportation with open space systems for recreation and ecological restoration

2004 Baseline

General Plan Elements

Target

Sustainable Urban Planning

Indicator	FY2006	FY2007	FY2008
Acres of City owned parks and open space	N/A	840.5	840.5
Percent of total miles of City streets with bike lanes	19*	19*	19*
Percent of residential, mixed-use projects within 1/4 mile of public transit	100	100	100

Running Total (All Figures are Annual Totals Except as Noted)

N/A-Not Available

TBD-To Be Determined

Urban Nature Indicators

UEA 10—Green Space Access:

Ensure that there is an accessible public park or recreational open space within 1/2 kilometer of all residents by 2015

2007 Baseline

Green Space, Recreation & Parks Element & Master Plan

Target

Implement Measures in Plan

Indicator	FY2006	FY2007	FY2008
Acres of City-owned parks and open space	N/A	840.5*	840.5*
Square feet of City-owned parks and open space per capita	N/A	254*	254*
Percent of households within 1/4 mile of a park or recreational open space	Pending	Pending	Pending
Percent of households within 1/2 mile of a park or recreational open space	Pending	Pending	Pending
Acres of City-owned parks and open space added	7.6	0	0
Lineal feet of total existing hiking trails	144,954*	146,754*	146,754*
Lineal feet of new/restored hiking trails	8165	2132	500
Schools included in the City's Joint Use Agreement with PUSD, allowing schools to function as neighborhood parks	22*	22*	22*
Schools functioning as neighborhood parks	1*	1*	2*

UEA 11—Tree Canopy:

Conduct an inventory of existing canopy coverage in the City; and, then establish a goal to plant and maintain canopy coverage in not less than 50% of all available sidewalk planting sites

2005 Baseline

96% Planting Sites Filled

Target

Tree Canopy Inventory; 50% Canopy Coverage

Indicator	FY2006	FY2007	FY2008
Percent of tree canopy coverage in the Public Right Of Way (P.R.O.W.)	N/A	N/A	85
Sidewalk tree sites	61,000*	61,000*	62,000*
Vacant sidewalk tree sites	4,500	3,371	2,837
Percent of all sidewalk tree sites vacant	7.38	5.53	4.6
Newly planted trees	621	524	542

UEA 12—Habitat Protection

Protect critical habitat corridors and other key habitat characteristics from unsustainable development

2007 Baseline

Arroyo Seco Master Plan

Target

Implement Measures in Plan

Indicator	FY2006	FY2007	FY2008
Habitat acres in the City	1774.36*	1774.36*	1774.36*
Acres of protected habitat	1486.6*	1486.6*	1486.6*
Acres of habitat restored	5.7	1.75	0
Funding secured for habitat restoration	-	280,000	1,600,200

* Running Total (All Figures are Annual Totals Except as Noted*)

N/A-Not Available

TBD-To Be Determined

Transportation Indicators

UEA 13—Public Transportation:

Expand affordable public transportation coverage to within 1/2 kilometer of all City residents by 2012

2005 Baseline
100%

Target
100%

Indicator	FY2006*	FY2007	FY2008
Percent of residents within 1/2 mile of public transit	100	100	100
Percent of businesses within 1/2 mile of public transit	100	100	100
Number of public transit routes by all agencies (Metro; Foothill Transit; Pasadena ARTS)	N/A	N/A	29
Metro bus service daily directional miles	111.8*	106.9*	107.9*
Pasadena ARTS bus service daily directional miles	N/A	N/A	84
Foothill Transit service daily directional miles	119.55*	119.55*	119.55*
Total directional miles of all public transit services citywide	N/A	N/A	N/A
Number of bus stops	N/A	N/A	710

UEA 14—Clean Vehicles:

Phase down sulfur levels in diesel and gasoline fuels; use advanced emission controls on all public fleets to reduce particulate matter and smog-forming emissions from those fleets by 50% by 2012

2005 Baseline
TBD

Target
50% Reduction

Indicator	FY2006	FY2007	FY2008
Vehicles in City fleet	771*	778*	793*
Percent of City fleet vehicles which are alternative fuel vehicles	18	20	8
Percent of City diesel fleet vehicles which are biodiesel vehicles	77	75	0
Percent of City fleet vehicles which are hybrid vehicles	1	1	3
Percent of City diesel fleet vehicles retrofitted with particulate traps	10	16	19

UEA 15—Traffic Congestion

Implement a policy to reduce the percentage of commute trips by single occupancy vehicles by 10% by 2012

2005 Baseline
T.B.D

Target
10% Reduction

Indicator	FY2006	FY2007	FY2008
Average vehicle ridership for Air Quality Management District (AQMD) regulated sites	1.28	1.06	Pending
City traffic reduction and transportation improvement fees collected	0	0	2,027,000
Total miles of bike paths citywide	60*	60*	60*
Bike racks in the public right of way	250*	300*	350*
Pasadena ARTS bus service ridership in Pasadena	1,435,400	1,710,900	1,654,144
Foothill Transit service ridership in Pasadena	1,793,521	1,831,884	1,857,557
Metro bus service ridership (ridership through Pasadena)	4,414,340	4,109,763	3,969,572
Metro Gold Line ridership (ridership through Pasadena)	5,308,000	5,955,000	6,521,279

Running Total (All Figures are Annual Totals Except as Noted)

N/A-Not Available

TBD-To Be Determined

Water Indicators

UEA 19—Potable Water Conservation Action: *Reduce per capita water consumption by 10% by 2015*

Indicator	2005 Baseline		Target
	FY2006*	FY2007	FY2008
	199 Gallons Per Capita Per Day		179 Gallons Per Capita Per Day
Per capita water consumption in gallons	65,170	71,687	65,170
Daily per capita water consumption in gallons	191	208	197
Citywide water use in gallons	11,685,357,055	12,826,162,807	12,213,236,323
Estimated residential water use in gallons	6,076,385,669	6,669,604,660	6,350,882,888
Estimated commercial water use in gallons	5,608,971,387	6,156,558,147	5,862,353,435
Gallons of water use savings due to water conservation programs (cumulative from 1991)	904,562,376*	936,495,774*	1,016,329,269*

UEA 20 - Water Source Protection Action: *Protect the ecological integrity of the City's primary drinking water sources*

Indicator	2005 Baseline		Target
	FY2006	FY2007	FY2008
	Arroyo Seco Master Plan and PWP Best Management Practices (BMP's)		Implementation of Plan Measures and BMP's
Water quality tests performed annually	22,000	36,000	37,781
Water quality violations annually	0	0	0
Total number of City wells	15*	15*	15*
Wells above MCL for perchlorate	7	7	8
Wells above MCL for nitrate	1	2	2
Well above MCL for volatile organic compounds	5	5	5
Gallons of water produced from local groundwater	4,476,834,303	4,452,522,560	4,907,873,265
Percent of City's total water supply produced from local groundwater	39	35	32
Percent of City's total water supply purchased from the Metropolitan Water District	61	65	68
Percent of wells inactive due to contamination	65	45	54
Gallons of water per second produced from active wells	141	126	100
Gallons of water per second potential production from currently inactive wells	221	235	261
Gallons of water stored in the Raymond Basin	8,750,989,285	9,647,731,237	9,635,870,261
Unused storage capacity in the Raymond Basin (gallons)	0	0	0
Total spreading grounds capacity (gallons per second)	127	127	127
Acre-feet of spreading credits in the Arroyo Seco	3794.8	2340.6	592.6
Acre-feet of spreading credits in Eaton Canyon	1320.3	1849.6	542.9

UEA 21—Wastewater Reduction Action: *Adopt municipal wastewater management guidelines; reduce the volume of untreated wastewater discharges by 10% by 2012*

Indicator	2005 Baseline		Target	
	FY2006	FY2007	FY2008	FY2009
	TBD		10% Reduction	
Gallons per day of citywide wastewater	N/A	13,800,000	N/A	13,800,000
Number of residential sewer accounts	23,500	N/A	23,755	23,669
Number of commercial and industrial sewer accounts	5,350	N/A	5,271	5,200
Acre feet of wastewater generated by the residential sector	N/A	N/A	N/A	N/A
Acre feet of wastewater generated by the commercial sector	N/A	N/A	N/A	N/A
Acre feet of wastewater generated by the municipal sector	N/A	N/A	N/A	N/A
Number of sewer spills	5	2	N/A	3
Gallons of wastewater discharged from sewer spills	N/A	<1,000	N/A	1,700
Annual \$ investment in the Los Angeles/Glendale Water Reclamation Plant	200,000	200,000	200,000	200,000
Percent of reclaimed water received and used in the City	0	0	0	0

Running Total (All Figures are Annual Totals Except as Noted)

N/A-Not Available

TBD-To Be Determined