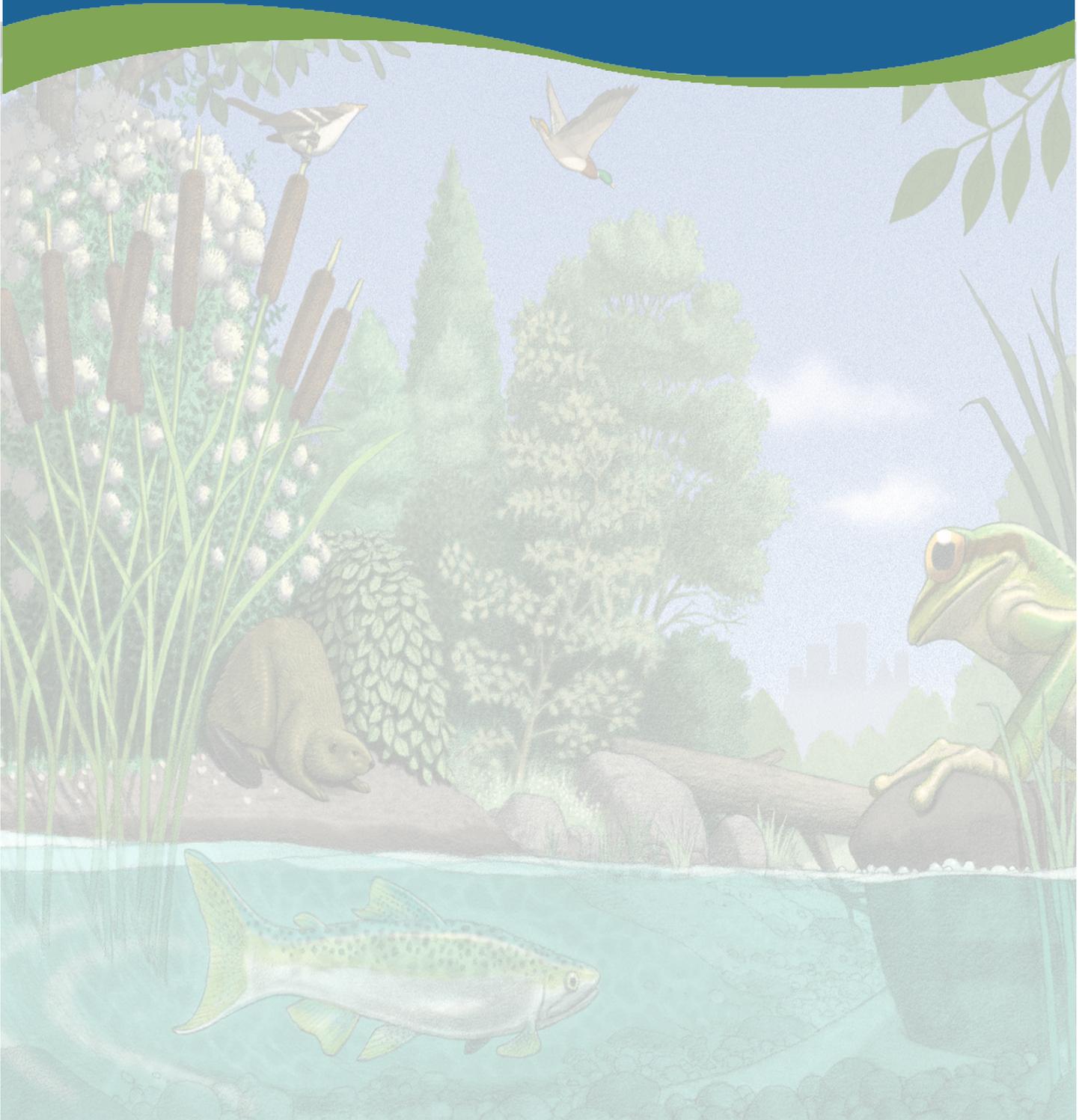


Clark County, Washington

2012 Sustainability Performance Report



Clark County Environmental Services



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2012 Sustainability Performance Report

1

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Introduction

In October 2007, the Board of Clark County Commissioners adopted the Clark County Sustainability Policy, committing to foster a safe, secure future that conserves natural resources and meets the basic human needs of safe food, shelter, clean water and air, education and employment.

This commitment to a sustainable future will be a key consideration in making public policy, developing public programs, operating public facilities, and delivering public services.



The Sustainability Policy goals include:

- Lead by example
- Encourage innovation in both public and private pursuits
- Promote and demonstrate efficient and effective use of renewable and consumable resources
- Collaborate with public and private partners on projects aimed at sustainability
- Continuously enhance our perspective and expertise in making sustainable choices on behalf of the citizens and communities of Clark County
- Identify and pursue new opportunities that promote sustainable practices.



The Policy calls for an annual report on the county's sustainability efforts to document progress related to the stated policy goals.

Day Lily (*Hemerocallis fulva*) blooming in the Public Service Center Rain Garden

Environmental Goals Summary

The following report summarizes the County’s progress towards meeting its objectives and targets.

Objective	Target	Progress
Reduce Resource Use (Fossil Fuel, Natural Resources)	30% reduction in Greenhouse Gases (GHG) by 2017 (2007 baseline)	22%
	30% reduction in fossil fuel usage by county vehicles by 2015 (2006 baseline)	18%
	20% reduction in energy use by 2015 (2007 baseline)	13%
	Provide 2% of county building electricity needs through on-site generation by 2014	1.7%
	Reduce single occupant vehicle commute trips by 10% and vehicle miles traveled by 13% (2007 baseline)	PW: 9.4% / 18.4% PSC: 1.43% / 6.36% CCH: (1.11%) / (3.54%)
	25% reduction of 4 wheel drive fleet by 2017 (2011 baseline)	0%
	25% reduction in biosolids hauling fuel use per wet ton by 2017 (2007 baseline)	11.5%
	20% reduction in garbage generation by 2017 (2011 baseline)	(1.1%)
	20% reduction in copy paper sheets per employee by 20% by 2015 (2010 Baseline)	5.2%

Environmental Goals Summary

The following report summarizes the County's progress towards meeting its objectives and targets.

Objective	Target	Progress
Reduce Use of Synthetic Materials (pesticides, cleaning chemicals)	100% compliance for Green List purchased products	100% compliant for pesticides, copy paper, motor oil,
Biological Productivity	Reestablish native vegetation on 100 acres of County land by 2012	Achieved: 124.37 acres planted
Equity	Weatherize as many homes as possible given available weatherization resources (since 1998)	2,863 units

Greenhouse Gases - Climate Registry Information System

5

Clark County reduced its total greenhouse gas emissions by 22 percent from 2008 to 2012 through a program of facility improvements and fleet reductions. Approximately 6,000 metric tons of carbon dioxide equivalent (CO₂e) did not enter the atmosphere during 2012, a reduction equivalent to taking 1,176 vehicles off the road.*

Greenhouse Gases (CRIS)

30% reduction in Greenhouse Gases (GHG) by 2017, measured from a 2008 baseline

	2008 (baseline)	2009	2010	2011	2012	% change baseline
SCOPE 1 - DIRECT EMISSIONS CO₂e						
Core Buildings	2,313	2,218	1,696	1,858	1,697	27
Equipment Services (County Fleet)	4,712	3,697	3,481	4,095	3,542	25
Leichner Landfill	4,486	4,621	4,572	4,529	3,680	18
Salmon Creek Wastewater Treatment Plant	3,289	1,999	2,042	2,022	1,870	43
Public Works	34	19	14	25	23	32
Reimbursables	12	14	12	12	7	42
SUBTOTAL - SCOPE 1 - Metric Tons	14,846	12,568	11,817	12,541	10,819	27
SCOPE 2 - INDIRECT EMISSIONS CO₂e						
Core Buildings	6,917	6,194	5,508	5,524	5,295	23
Street Lights	117	114	112	103	99	15
Public Works	591	546	494	514	433	27
Park Facilities	262	267	283	301	278	(6)
Traffic Signals	305	296	265	226	284	7
Salmon Creek Wastewater Treatment Plant	2,520	2,470	2,479	2,397	2,484	1
36th Ave. Pump Station	435	369	437	389	405	7
117th St. Pump Station	106	428	190	155	141	(33)
Flashing School Signals	14	15	14	11	13	7
Railroad	4	7	3	3	4	0
Park Rentals	4	2	1	1	1	75
Reimbursables	9	11	10	11	12	(33)
SUBTOTAL - SCOPE 2 - Metric Tons	11,284	10,719	9,796	9,635	9,449	16
GRAND TOTAL - SCOPE 1+2 - Metric Tons	26,130	23,287	21,613	22,176	20,268	22

*see EPA's Greenhouse Gas Equivalences Calculator here:
<http://epa.gov/cleanenergy/energy-resources/calculator.html>



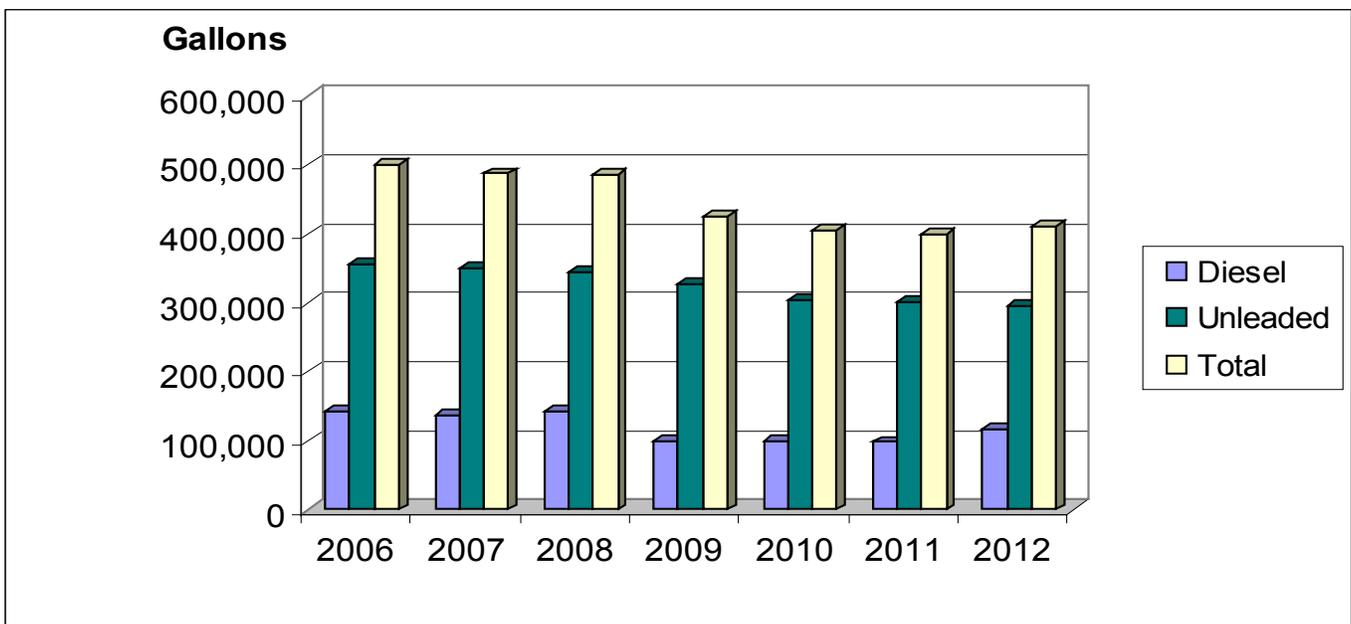
Fuel Reduction

Clark County’s vehicle fleet used 411,882 gallons of fuel in 2012, an 18% percent reduction from the 2006 baseline.

Fuel Reduction

30% reduction in fossil fuel usage by county vehicles by 2015 (2006 baseline)

Year	Gallons Diesel	Gallons Unleaded	Total Gallons	Pieces of Motorized Rolling Equipment
2006 (baseline)	143,802	357,180	500,983	NA
2007	137,928	349,635	487,563	-
% change baseline	4	2	3	NA
2008	142,135	344,058	486,193	-
% change baseline	1	4	3	-
2009	98,938	326,608	425,546	804
% change baseline	31	9	15	
2010	99,295	304,993	404,288	784
% change baseline	31	15	19	
2011	97,896	302,727	400,623	752
% change baseline	32	15	20	
2012	115,929	295,953	411,882	619
% change baseline	19	17	18	



Energy Conservation

More than 300 sites contribute to Countywide energy usage, including: buildings, park properties/rentals, public works, traffic signals, flashing school signals, street lights, railroad crossings, Salmon Creek Wastewater Treatment Plant, 117th St. pump station, and 36th Ave. pump station.

Energy Conservation

20% reduction in energy use by 2015 (2007 baseline)

	Natural Gas (Therms)	Electricity (kWh)	Total Energy (Mbtu)
2007 (baseline)	449,095	27,661,770	139,291
2008	500,044	27,420,470	143,563
% change baseline	(11)	1	(2)
2009	425,558	26,097,263	131,600
% change baseline	4	6	3.5
2010	347,990	24,981,850	120,037
% change baseline	23	10	14
2011	379,197	24,647,968	122,005
% change baseline	16	11	12
2012	345,264	25,226,042	120,598
% change baseline	23	9	13

1 therm=0.1 Mbtu; 1 kWh=0.003412 Mbtu



Energy Conservation Projects -

Energy Conservation Sites

Beginning in 2008, Clark County invested \$8 million to finance 35 individual energy conservation and renewable projects to reduce the County’s energy use and to lower carbon pollution. The investment will pay for itself in energy savings over a twenty year period.

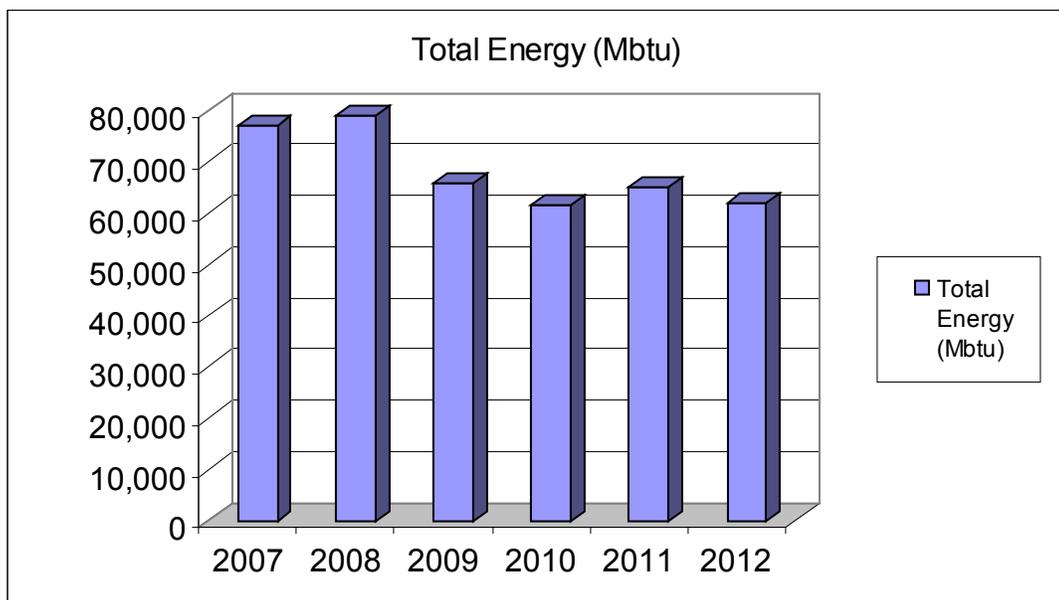
Energy Conservation Sites*

No specific goal for these sites, they are part of the Energy Conservation Objective

	Natural Gas (Therms)	Electricity (kWh)	Total Energy (Mbtu)
2007 (baseline)	277,851	14,437,245	77,045
2008	318,723	13,849,090	79,035
% change baseline	(13)	3	(3)
2009	259,829	11,701,592	65,798
% change baseline	6.5	18	14
2010	232,370	11,042,106	61,617
% change baseline	16	23	20
2011	267,088	11,182,433	64,863
% change baseline	4	23	16
2012	238,314	11,136,863	61,830
% change baseline	14	23	20

* 149th St. Building A (Sheriffs), A1 Main, B West, D (Sign Shop), 149th St. Site, 78th St., Building B, B1, C, D, E, F, G, H, I, L, M, Q, Wash Rack, Center for Community Health, Courthouse, Corrections Center, Death Investigations, General Services Building, Jail Work Center, Public Service Center.

Note: Does not include Fairgrounds



Renewable Energy

Clark County has installed 173 kW of clean energy solar projects including the first “thin-film” panel technology in the county at the Clark County Jail. Note: 1kW = est. 1,100 kw/hr in the Pacific Northwest. During 2012 county solar projects generated 191,710 kWh or 1.7% of the county buildings’ overall kWh usage (calculated from energy conservation sites). A 23 kW project at the fairgrounds came on line in December 2011.

Renewable Energy

Provide 2% of county electricity needs through on-site generation by 2014

	Comm. Health (50 kW)	Juvenile (20 kW)	Facilities (30 kW)	PSC (25 kW)	Jail (25 kW)	Fair Grounds (23 kW)	TOTAL (kWh)
2009 Totals (kWh)	55,080	23,220	38,900	29,750	14,710	n/a	161,660
2010 Totals (kWh)	59,040	24,200	42,380	30,650	15,210	n/a	171,480
2011 Totals (kWh)	56,680	23,260	36,590	29,260	13,580	970	160,340
2012 Totals (kWh)	58,780	23,910	37,670	30,370	14,360	26,620	191,710



Thermal solar systems are in place at the Public Service Center, Center for Community Health, Jail and Jail Work Center which offset energy usage. Estimated at 123,500 kWh per year.



Energy Conservation Projects -

Salmon Creek Wastewater Treatment Plant

The Treatment Plant installed new technology that enables more of the methane produced from anaerobic digestion to be used for heating the plant, replacing natural gas. This equates to a 57% reduction from 2007, with annual cost savings of approximately \$30,000. In addition, more efficient methane flare burners were installed for the extra methane gas not utilized for heat, significantly reducing greenhouse gas emissions (see page 4 for details).

Salmon Creek Wastewater Treatment Plant

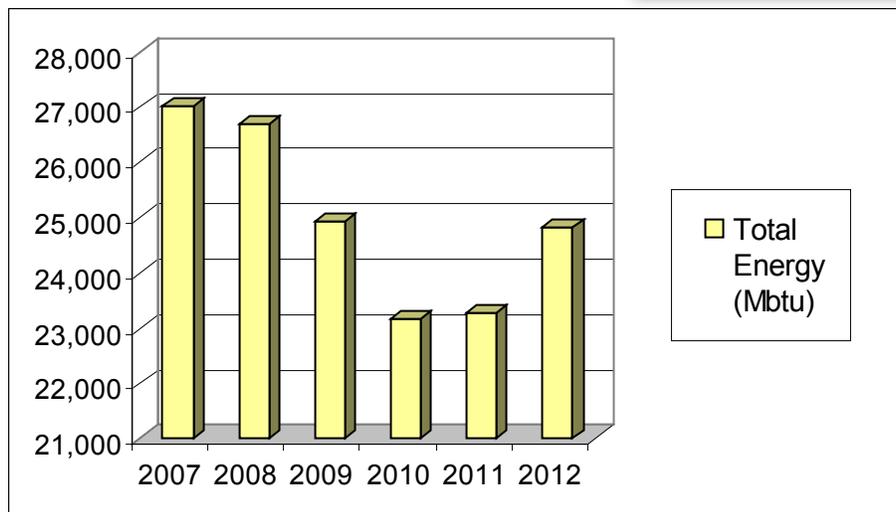
No specific goal for this site, it is part of the Energy Conservation Objective

	Natural Gas (Therms)	Electricity (kWh)	Total Energy (Mbtu)	Average MGD*
2007	54,984	6,302,088	27,001	7.0
2008	57,817	6,124,937	26,680	6.9
2009	44,658	6,002,220	24,945	6.8
2010	16,732	6,304,573	23,184	7.45
2011	23,838	6,121,220	23,269	7.3
2012	21,275	6,651,867	24,824	7.55

*MGD=Million gallons per day

There are seven major components of the current system that work together to keep our neighborhoods livable and protect our environment. They are:

- The Salmon Creek Interceptor
- The 36th Ave. Pump Station
- The 36th Ave. Force Main
- The Salmon Creek Wastewater Treatment Plant
- The Outfall to the Columbia River
- The 117th St. Pump Station
- Force Main from Kline to 117th St.



Commute Trip Reduction

Reduce single occupant vehicle commute trips by 10% & vehicle miles traveled by 13%

PW - Operations	Drove Alone (Goal 86.4%)	VMT/Employee (Goal 11.8)
2007-2008 (baseline)	96	13.6
2009-2010	92.3	12.3
2011-2012	93.5	12.7
2013-2014	87	11.1
Goal, from baseline	86.4	11.8
% Change from Baseline	9.4	18.4
PSC & Downtown Campus	Drove Alone (Goal 75.4%)	VMT/Employee (Goal 9.6)
2007-2008 (baseline)	83.8	11.0
2009-2010	80	10.6
2011-2012	81.8	11.1
2013-2014	85	11.7
Goal, from baseline	75.4	9.6
% Change from Baseline	(1.43)	(6.36)
Center for Community Health	Drove Alone (Goal 81%)	VMT/Employee (Goal 9.7)
2007-2008 (baseline)	90	11.3
2009-2010	84.4	10.9
2011-2012	91.2	11.5
2013-2014	89	10.9
Goal, from baseline	81	9.7
% Change from Baseline	1.11	3.54



Four Wheel Drive Vehicles

Four Wheel Drive Vehicles

25% reduction of 4WD fleet by 2017 (2011 baseline)

	4WD Fleet
2011 (baseline)	104
2012	104

Dept	4WD Fleet	Dept	4WD Fleet
Assessor	5	General Services*	4
Community Services	2	Facilities Maintenance	3
Community Development**	10	Purchasing	1
Building	6	Medical Examiner	1
Code Enforcement	2	Public Health	1
Fire Marshal	2	Public Works***	42
Corrections	1	Construction and Design	9
CRESA	2	Development Engineering	2
Environmental Services	11	Equipment Services	10
Clean Water	3	Motor Pool	2
Resource and Permitting	1	Operations and Maintenance	15
Vegetation Management	7	Parks and Recreation	3
Sherriff	25	Wastewater Treatment Plant	1

Biosolids Management

25% reduction in biosolids hauling fuel use per wet ton by 2017 (2007 baseline)

Year	Wet Tons (WT)	Loads	Total Miles	Total Fuel Use (gal)	Gallons per WT	% Chg. from Baseline
2007 (baseline)	10,550	376	108160	18027	1.71	
2008	8,596	340	81760	13627	1.59	
2009	7,183	283	66040	11007	1.53	
2010	8,150	371	69240	11540	1.42	
2011	7,499	343	66840	11140	1.49	
2012	8,672	455	78680	13113	1.51	-11.5%

The county annually transports and spreads approximately 10,000 wet tons (1,300 dry tons) of class B biosolids at 3 sites:

1. Natural Selections Farms, Klickitat County, 360 miles round trip
2. Parker Ag/M&J Farms, Woodland, 40 miles round trip
3. Peterson Farms, Woodland, 40 miles round trip

The goal of the biosolids program is to get to a class A product and keep the material local.

Long Haul: 189 loads x 360 miles per load = 68,040 miles: 68,040 / 6 mpg = 11,340 gallons

Local Haul: 266 loads x 40 miles per load = 10,640 miles: 10,640 / 6 mpg = 1,773 gallons

11,340 gal + 1,773 gal = 13,113 estimated gallons used in 2012

13,113 gal / 455 loads = 28.8 Gallons utilized per load in 2012

Fuel cost is included in hauling contracts (i.e. paid by vendor).

Garbage			
20% reduction in garbage generation by 2017 (2011 baseline)			
	2011 Baseline (Tons)	2012 (Tons)	% Change from baseline
Downtown Compactor	126.71	168.7	(33.1)
Roll Off Containers	281.92	244.84	13.2
Self Haul to Transfer Stations	21.41	39.92	(86.5)
Parks	93.67	97.69	(4.3)
Other County Buildings and Sites	143.07	140.93	1.5
TOTAL - Tons	645.36	652.16	(1.1)

Downtown Compactor: 40-yard compactor located on Kauffman. It serves county buildings including the Public Service Center, Clark County Courthouse, CRESA, Juvenile, Medical Examiner, Auto License and Elections, Prosecuting Attorney, Facilities and Records Management and Board of Equalization bldg. Also includes county parks without service by Waste Connections.

Source: Waste Connections Account Audit, tonnage.

Roll Off Containers: are transported, weighed, and charged by ton. These include those located at the Daybreak Site, Maybry Site, 78th St. Ops, 149th St. Ops, Washougal Site, & Whatley Pit Site.

Source: Waste Connections Account Audits, tonnage.

Self Haul to Transfer Stations:

Department	West Vancouver TS		Central Transfer Station		Total Self Haul	
	2011	2012	2011	2012	2011	2012
Abandoned		0.67		.32		.99
Code Enforcement				5.94		5.94
Corrections			0.49	3.72	0.49	3.72
Facilities Mgmt.	8.08	9.35	4.93		13.01	9.35
Maint/Operations			1.58		1.58	
Parks/Operations	3.62	13.13	2.71	.61	6.33	13.74
Sheriff		5.82		.36		6.18
Total Tons	11.70	28.97	9.71	10.95	21.41	39.92

Parks: Includes parks with service by Waste Connections; Lucia Falls, Happa Boat Launch, Vancouver Lake, Lewisville Park, Frenchman’s Bar, Felida Park, Daybreak Park, and Moulton Falls. Other parks are served by Facilities Management and brought back to the Kauffman compactor. Source: Waste Connections Account Audits, max yards and schedule. Density conversion factor used.

Other county buildings and sites: Includes those serviced by Waste Connections by yard on a schedule. Source: Waste Connections Account Audits, max yards and schedule provided. Density factor used to calculate tonnage.

Note: The Center for Community Health shares a 30 yard compactor with the Veteran’s Admin. Bldg., and thus is not included in this report.

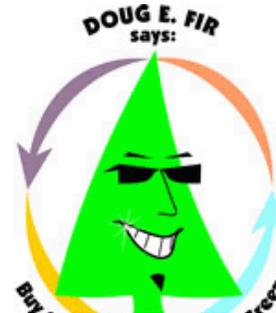
Source: Waste Connections Account Audit.

Environmentally Responsible Purchasing

In December 2004, Clark County adopted an Environmental Purchasing Policy to reduce negative impacts to human health and the environment through the development of criteria for county purchases.

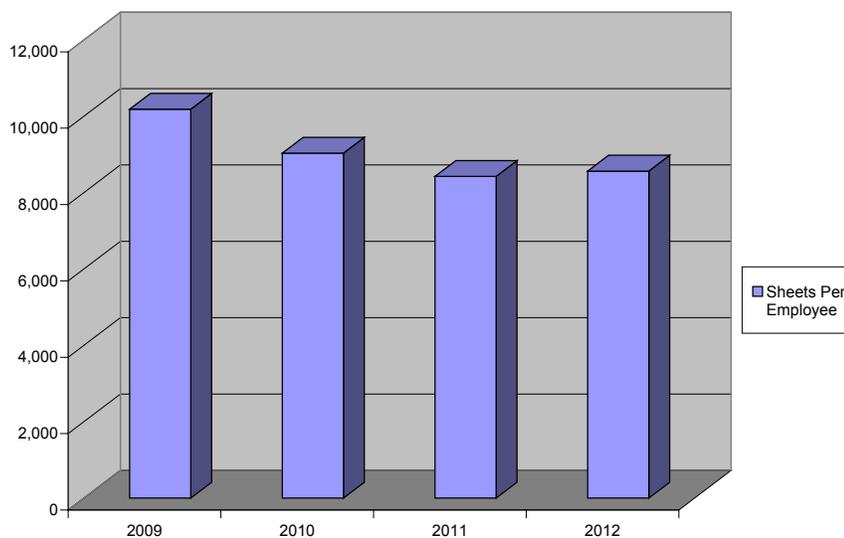
Environmental Purchasing			
Reduce Copy Paper Sheets Per Employee by 20% (2010 Baseline)			
Year	Reams of Copy Paper	# of County Employees	Sheets Per Employee
2010	27,789	1,538	9,034
2011	26,760	1,588	8,426
2012	26,328	1,537	8,565

One Ream = 500 sheets. Does not include Print Shop.



The Following Pesticides are approved for purchase.

Aquamaster; Barricade; Casoron 4G; Element 4; Escort XB; Gallery 75DF; Garlon 4 Ultra; Habitat; Imprelis; Oust XP; Polaris; Plantskydd Deer Repellent; Plateau; Primo Maxx; ProClipse 65 WDG; Razor Pro, Round up Pro; Scythe, Sedgehammer, Square One



The Growing Green Program benefits include:

- Enhancing conservation lands
- Improving water quality
- Reducing the amount of polluted storm runoff into streams
- Controlling noxious weeds
- Engaging the community

Ecological Enhancement

Restablish native vegetation on 100 acres of County land by 2012

2010 Location	Plants	Acres Planted
Daybreak Park	3,000	5.5
Ford Park	3,942	10.6
Clark County Fairgrounds	5,040	13.1
Durkee Park	2,446	7.22
Greyhawk Park	432	1.04
Veatch Park	300	1.08
Becker Park	4,161	14.68
2010 Annual Total	19,321	53.22

2011 Locations	Plants	Acres Planted
Zimmerly	2,130	2.82
University Place	630	2.1
Vancouver Lake	766	2.8
Schaefer	7,306	21.1
Hockinson Park	7,246	17.17
Mackie Park	545	1.81
2011 Annual Total	18,623	47.8

2012 Locations	Acres Planted
East Fork DIG Grant site	15
Chinook Park	.35
Ridge Creek West	.8
2012 Annual Total	16.15

Total Acres 117.17



Planted species include bigleaf maple, black cottonwood, Douglas fir, Cascara, Pacific willow, Scouler's willow, Western red cedar, Western hemlock, red alder, beaked hazelnut, serviceberry, black twinberry, red osier dogwood, Nootka rose, Douglas spirea, bitter cherry, tall Oregon grape and Pacific Ninebark and Oregon ash.

The weatherization program uses CFL's, Energy Star appliances and recycled insulation materials for attics, walls, floors, water heaters and exposed pipes. Items under consideration include LED lighting and hot water recovery systems. Other work consists of weather stripping, heating unit repairs and indoor air quality tests. HOME funded construction will need to meet Evergreen Standards that have been adopted by the Housing Trust Fund.

Weatherization

Weatherize as many homes as possible given available weatherization resources

Year	# Units	Average Cost	Installed Measures
1998	134	\$3,163	\$423,883
1999	103	\$3,186	\$328,136
2000	103	\$3,827	\$394,216
2001	250	\$2,726	\$681,483
2002	251	\$3,300	\$828,212
2003	230	\$3,627	\$834,252
2004	344	\$2,472	\$850,492
2005	228	\$3,918	\$893,210
2006	227	\$4,443	\$1,008,630
2007	176	\$5,721	\$1,008,412
2008	130	\$6,195	\$805,346
2009	258	\$5,426	\$1,399,828
2010	189	\$5,481	\$1,035,909
2011	266	\$5,094	\$1,355,017
2012	163	\$6,874	\$1,120,512
TOTAL	2,863	Avg. Avg. Cost: \$4,430	Total: \$12,166,134



Clark County Sustainability Accomplishments

Dept.	Year	Action/Task	Notes
		Policy	
BOCC	2010	Sustainable Communities Ordinance	
BOCC	2010	Volunteer Green Building Code	
BOCC	2009	Shop Local Resolution	
BOCC	2007	Sustainability Policy	
BOCC	2004	Environmentally Responsible Purchasing Policy	
CD	2010	Free Home-Heating Duct Inspection Program	700 houses tested 03/10-08/12 (80% failure rate)
DCS	Ongoing	Weatherization -- Evergreen Standard, Energy Star in all contracts	Replaced 300 refrigerators
DCS	Ongoing	Community Development Block Grant (CDBG) and Home Investment Partnership Program (HOME)	Urban County Advisory Board
DCS	Ongoing	Housing Preservation -- Lead-Based Paint Hazard Control Grant	
DCS	Ongoing	Neighborhood Stabilization Program	Urban County Advisory Board
DCS	Ongoing	Homelessness Prevention & Rapid Re-Housing Program	Community Action Advisory Board
DCS	Ongoing	Community Services Block Grant (CSBG)	Community Action Advisory Board
DCS	2010	SERC Grant	24 ductless heat pumps; 1 solar water heater; 8 PV Rooftop systems; 27 Hybrid Water Heaters; 4 HRV
DES	Ongoing	Legacy Lands	7,000 acres
DES	Ongoing	Household Hazardous Waste Disposal Program	35,902,958 pounds from 1986-2010
DES	Ongoing	WA Green Business	20 certified businesses
DES	Ongoing	WA Green Schools	20 certified schools
DES	Ongoing	Commute Trip Reduction Program	Buss Passes, Carpool, Bike Lockers, Emergency Ride Home
DES	2011	Sustainable timber management	1,100 acres certified to Forest Stewardship Council
DES	2009	Upper Whipple Creek habitat protection	
DES	2009	¼ acre permaculture food forest	Heritage Farm
DES	2009	Roll cart roll out	45,000 households; 6,500 MF
DES	2009	Break room composting (PSC)	2010 expanded to CCH
DES	2008	Climate Registry Information System	Founding member

Clark County Sustainability Accomplishments (continued)

Dept.	Year	Action/Task	Notes
DES	2005	Save Organic Scraps food waste composting program	102 schools to date, 65,000 students participating
DES	2003	Medications Disposal Program	11,800 lbs. collected in 2011
DES	2001	Curbside Yard Debris Collection Program	
HR	2010	Added sustainability to performance evaluation Form	
GS	OnGoing	ISO 14001 Certification	Facilities
GS	2013	Installed four Type II electric vehicle charging stations at the Public Service Center	
GS	2009	Pesticide free community gardens at Heritage Farm	Expanded from 30 plots to 80
GS	2009	Food Bank garden at Heritage Farm	Expanded from 2 to 4 acres
GS	2009	E-Pay setup for 300 utility accounts	Utility Manager Software
GS	2008	Performance contracting Phase II	\$8 million
GS	2008	155 kW of solar PV installed	On County Buildings
GS	2008	Solar thermal systems installed	10,658 Gallons of storage
GS	2003	Green power purchase	1,200 blocks per month
GS	2003	Performance contracting Phase 1	\$3.2 million
GS	2003	Public Service Center built to LEED standard	
GS	1994	Incredible Shrinking Can Program	\$17,000 annual savings
IT	2010	Smart power strips	
PH	2006	Food System Council	
PW	OnGoing	ISO 14001 certification	Equipment Services, Waterwater Treatment Plant, Traffic Services
PW	2010	Converted mowers to non-motorized	
PW	2010	NE 113th Ave & NE 96th St curb extension project	
PW	2009	99th/Lakeshore rain garden	
PW	2008	West Mill Creek - Public LID project on a large, regional scale	
PW	2005	4 Wheel Drive Vehicle Policy	
PW	2005	Mercury switches eliminated	
PW	2005	Bulk purchase of brake clean and transmission fluid	
PW	2005	Re-refined universal tractor fluid	
PW	2005	Diesel oxidation catalyts	
PW	2004	Ultra Low Sulfur Diesel	3 years ahead of phase out

Clark County Sustainability Accomplishments (continued)

Dept.	Year	Action/Task	Notes
PW	2004	Deconstruction rather than demolition/disposal	15 buildings to date
PW	2002	B20 Bio-diesel mix	1st shipment to PNW
PW	2001	Hybrid vehicle acquisitions	9 purchased to date
PW	2000	LED traffic lights & PED crossing	100% by 2010
PW	2000	Hybrid vehicle resolution	
PW	1999	Refurbishing of police vehicles	
PW	1997	Re-refined antifreeze	
PW	1996	Oil filter draining and crushing	
PW	1995	Re-refined motor oil	
Sheriff	2010	Electric forklift for Sheriff's warehouse	

	Key
BOCC	Board of County Commissioners
CD	Community Development
DCS	Department of Community Services
DES	Department of Environmental Services
GS	General Services
HR	Human Resources
IT	Information Technology
PH	Public Health
PW	Public Works
Sheriff	Sheriff