Western	Carolina	State]	University

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Cullowhee	NC	28901

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Fleet I	nformation		1	Fuel In	formation			Fueling Infrastructure					
Total Leased Vehicle	S	53		State Titled	Vehicles Onl	y		Location	Age	Size	Fuel		
Total County Titled V	Vehicles	0		Fuel Type	Gallons	Pet. Eqv.		Facilities	1992	10,000	Gas		
Total State Titled Vel	hicles	119		Gasoline	61,903	61,903		Facilities	1992	2,000	Diesel		
Total Other Vehicles				E10	0	0		Steam Pit	1992	2,000	Gas		
				E85	0	0							
Breakdown of Sta	te Titled Vehi	cles Only		Diesel	9,577	9,577							
Vehicle Type	Quantity	Miles		Off-road Diesel	0	0							
Gasoline	104	N/A		B5	0	0							
Diesel	6	N/A		B20	0	0							
Hybrids	0	0		B100	0	0							
FFVs	2	N/A		CNG	0	0							
CNG	0	0		Propane	0	0							
Propane	0	0		Other	0	0							
Electric	0	0			Quarts								
Other	0	0		Petroleum Motor Oils	1,503	535							
10% Eligible	7	N/A		Syn & Rec Motor Oils	0	0							
Totals	s 119	N/A			Total	72,015							
Instructions				Notes/Comments				Potentia	al for Biof	uels Expa	nsion		
Fill out all information (exception - miles if N/A)				48 of the 53 leased vehic		Location	Space	Tk Size	Fuel				
Complete with data from t	fiscal year 2004-2	005											
Please note if fuel include	s more than State	Vehicles											
Count hybrids and FFV's	only once in the b	reakdown,											
do not count them as g	asoline vehicles												
10% Eligible vehicles incl	ude police & eme	ergency											
10% eligible educational	vehicles must have	8											
specific modifications	for instructional	purposes											
-													
Potential Reduction	in Petroleum	use for you	r or	ganization:	Pr	ojected Redu	cti	ion		Petro	leum		
Conservation	Reduce speed	v		0 /		gallons	=	3.00%			cement		
E10	Using E10 fo	,	,	1 0	,	gallons	=	8.60%		-	19.4%		
E85	Using E85 fo	U			,	gallons	=	1.38%			gallons		
B5	Using B5 for					gallons	=	0.66%		,	-		
B20	Using B20 fo					gallons	=	2.66%					
B100	U	ing B100 in 1/10th of your diesel vehicles			,	gallons	=	1.33%					
FFV	Ŭ	stituting one FFV using E85				gallons	=	0.57%					
CNG/Propane	U U		<u> </u>	CNG/LPG car		gallons	=	0.84%					
Electric	Replacing on					gallons	=	0.84%					
Syn & Rec Oils	1 0			ed motor oils		quarts	=	0.52%					

Western Car	colina University											
Petroleum Displacement	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	Initial Cost	Yearly Cost					
2% 2%	carpooling	Implement an organization wide campaign, WHEE Save, to reduce speeds, eliminate unnecessary idling, stop fast accelerations, and encourage carpooling Purchased 3 electric cars for facilities management 2006										
8.6% 2.7%		Switched over all gasoline to E10 on 7/5/07 9 Switched over all diesel to B20 8/29/07 9 Purchased 2 NEV's for Facilities (\$9,703.06 grant funded by DENR) 9 Purchased 1 NEV for Facilities Management \$										
	-		\$12,000									
Totals	4.0%	15.3%	15.3%	15.3%		\$39,065	-\$3,000					
Possible Additiona Year	I Vehicle Purchases from Quantity, Vehicle Type Image: state st		Purpose Image:	Fuel / Hybrid		Additional (Cost					

A Cost to clean 3 existing underground tanks

Western Carolina	State U	niversity		Fleet a	nd Fuel	Reporting		Lauren Bishop 828-227-3562 lbishop@email	.wcu.edu			
Fleet Information	200)5-2006	20	06-2007	2	007-2008	20	008-2009	200	9-2010	20	10-2011
Vehicle Type	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles
Gasoline	108	N/A	118	245,468	128	1,913,255	131	515,016	130	507,658	127	313,251
Diesel	6	N/A	6	N/A	11	111,641	12	14,327	10	34,002	10	24,710
Hybrid	-	-	-	-								
Flex-fueled Vehicles	2	N/A	2	N/A	2	N/A	2	N/A	2	N/A	2	N/A
Comp Natural Gas	-	-	-	-								
Propane	-	-		-								
Electric	1	N/A	4	N/A	4	N/A	6	N/A				
Emergency/Ed (10%)	7	N/A	7	46,426	7	77,523	3	26,907	2	4,863	11	76,905
Totals	124	N/A	137	291,894	152	2,102,419	154	556,250	144	546,523	150	414,866
	4%	N/A	15%	N/A	28%	N/A	29%	N/A	21%	21% N/A		N/A
Fuel Information	200	5-2006	20	06-2007	2	007-2008	20	008-2009	200	9-2010	20	10-2011
Fuel Type	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.
Gasoline	58,055	58,055	58,427	58,427		-		-		-		-
E10	-	-	-	-	54,082	48,674	56,644	50,979	60,170	54,153	58,674	52,806
E85	-	-	-	-		-		-		-	-	-
Diesel	8,637	8,637	10,078	10,078		-	800	800	6,590	6,590	5,970	5,970
B5	-	-	-	-		-		-		-		-
B20	-	-	-	-	7,435	5,948	4,935	3,948		-	-	-
B100	-	-	-	-		-		-		-		-
CNG	-	-	-	-		-		-		-		-
Propane	-	-	-	-		-		-		-		-
	Qrts		Qrts		Qrts		Qrts		Qrts		Qrts	
Petroleum Motor Oils	1,535	384	1,759	440	1,953	488	731	183	1,543	386	1,758	440
Syn & Rec Motor Oils		-	-	-		-	-	-		-		-
Total Petroleum Use		67,076		68,944		55,110		55,910		61,129		59,216
% Change in PDP		-7%		-4%		-23%		-22%		-15%		-18%

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Results Noted (by FY 2009-10) as relate to your PLAN

Plan for FY 2011-2012

all PDP	participating	fleets results	to	2009-10

	Overall Results from	n all participating fleets						
	FY 2004-05	FY 2009-2010						
Fuel Type	thousand of gallons	thousand of gallons	% change					
Gas	14,935	3,165	-79%					
E10	598	11382	1803%					
E85	242	398	64%					
Diesel	8,526	1602	-81%					
B5	-	7						
B20	1,870	8157	336%					
B100	-	2						
Total Biodiesel as B20	1,870	8,167	337%					
CNG	3	0	-92%					
Propane	56	5	-91%					
Petroleum Motor Oils	48	35	-27%					
Syn & Rec Motor Oils	3	6	115%					
Total Fuel	26,283	24,760	-5.8%					
Total Petroleum	25,581	21,638	-15.4%					
T.Fuel (adj. for growth)	26,877	24,760	-7.88%					
T.Petro (adj for growth)	26,153	21,638	-17.26%					

veh	icles reported in	n PDP	
	FY 2004-05	FY 200	9-2010
Vehicle Types	#	#	% change
Gasoline	10,816	9,436	-13%
Hybrid	78	129	65%
Flex-fueled Vehicles	4,752	7,018	48%
Comp Natural Gas	14	5	-64%
Diesel	4,498	5,066	13%
Propane	192	150	-22%
Emergency/Ed (10%)	6,007	5,871	-2%
Electric	13	199	1431%
Total	26,370	27,874	6%

Of the Overall 17.5 % petroleum reduction:
3.95% displaced by reduced mileage (conservation)
4.01% displaced through E10 use
0.49% displaced through E85 use
4.7% displaced through biodiesel use
4.3% displaced through efficiency

Your organization result to date

West	Western Carolina State University			results to date (2009-10)		% Reductions Caused by PDP Actions (by FY 09-10 as reported)								
% of Goal	State Organization	Petro Use	Petroleum Displacement Achievements	PDP Actions (Petroleum Reduction)		Miles	E10	E85	В5	B20	B100	CNG	Prop	Syn Moil
78%	Western Carolina Univ	-15.12%	near goal	continued use of E10 and NEV's, quality issue with B20 resulted in discontinuance		N/A	9.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

your organization plan to date

		2008-2009 -22%	report progress 2009-2010	plan next year and forward 2010-2011	
Displacement2005 thrActual-499.0%Use of E10 hr	~-23%			2010-2011	
9.0% Use of E10 h		-22%			beyond 2011
	s significantly contributed to petro displacement		-15%	-18%	
	as contributed to PDP		Implemented Fuel Master pump station with prokey to monitor gas usage and prevent theft		
				portion of our motor pool fleet	
Previously Noted					
2.70 -	organization wide campaign, WHEE Save, to reduce speeds, el and encourage carpooling	iminate unnecessary idling, stop fast			
2% Purchased 3 e	lectric cars for facilities management 2006				
PLAN					
8.6%	Switched over all gasoline to E10 on 7/5/07				
2.7%	Switched over all diesel to B20 8/29/07				
	Purchased 2 NEV's for Facilities (\$9,703.06 grant f	unded by DENR)			
		Purchased 1 NEV for Facilities Management			

Western C Lauren Bishop Ibishop@email.wcu.edu Conservation and E	fficiency		828-227-3562		your fleet efficiend	cy appears to h	eff	iciency factor iciency factor nge indicated baseline, about 6%	08-'09 09-'10 8.69 8.6 8.890 8.14 2.30% -6.339	0				
	g PDP results	we have be	een able to directly attr	ribute petroleum use changes o '. To better define what portio							we have bee	n attributi	ng any othe	r change
	-			ously reported, intended to in	-					8.				
YES	2009-'10 X	2010-'11		NO	2009-'10 2010-'	11								
examples: a mechanical c	what did you change? Place "X" in appropriate box(es) examples: a mechanical change could include equipment changes to vehicles or fueling infrastructure to make them more efficient. New hybrid autos or new fuel card reader systems would be mechanical. Process change could be an accounting system change, vehicle reassignment, or a carpooling system. Behavior could be drivers improving fuel economy by driving more efficiently or drivers combining errands or carpooling to reduce mileage.													
machanical	2009-	-'10	2010-'11			2009-'10	2010-'11	l	helpovior	200)9-'10	2010)-'11	
mechanical	x yes	no	yes no		process X yes	no	yes no]	behavior	yes	no	yes	no	
1a changed vehicle types		х		changed fuel	system X			3a	trained drivers o economical drivin	g	Х			
use fuel managemen1bsystem	n X			2b reduce	ed on-board weight	Х		3b	reminded drivers to sav	al X				
use on-board idle reduction 1c mechanism		Х		2c set carpoo	oling policy	Х		3c	set policy on idl reductio		X			
				reassigned	vehicles to				evaluate driver behavio	or				
					uce fuel use ire pressure	X		3d	(on economy carefully observe spee		X			
				2e	routinely X			<u>3e</u>	limi reward economica	it	X			
				eva 2f performance	luate MPG	х		3f	driving or punis inefficient drivin	h	x			
other mechanical system 1d change		X			cess system change	X		3g	other behavior chang		X			
before 2005 FY 04-05 FY 05-06 FY 06-07 FY 07-08 FY 08-09 FY 09-10 FY 10-11	mechanical		best marking when proc	ess began. There may be multiple before 2005 FY 04-05 FY 05-06 FY 06-07 FY 06-07 FY 07-08 FY 08-09 FY 09-10 FY 10-11	2e 2a				before 2005 FY 04-05 FY 05-06 FY 06-07 FY 07-08 FY 08-09 FY 09-10 FY 10-11	behavior 3b				
How did you change it? Plea	ase note questic	on # you are	referring to.											
examples may include new pro		g, or directives	s affecting vehicle choice of	r vehicle use; installation of new equ	uipment to dispense fu	el or account for i	ts use.							
	mechanical													
new in FY 2010-'11:														
#2c - No car pool policy has	been impleme	nted howeve	r, an online ride share bo	pard system was created and poste	process ed on the WCU webs	site. In 2008 info	ormation was sent out o	campus wide to prop	note its use. We investiga	ted several of	options for a	vanpool pr	ogram but co	ould not ma
<i>new in FY 2010-'11:</i>		incu noweve		and system was created and post		ne. III 2000 IIIN	Sind out	ampus wide to prom	ine his use. We investiga					
										behavior				
new in FY 2010-'11:														
Your '09-'10 PDP report	indicated		<u>.</u>	r PDP performance change (por ras attributed to change in efficient e total will be 100%.						rent and fu	ture activiti	es in each?		
FY2009-10mechanicalFY2010-11mechanicalFY2011-12mechanical				FY2009-10FY2010-11FY2011-12	process process process			FY FY FY	2009-10 behavior 2010-11 behavior 2011-12 behavior					

	08-'09	09-'10	10-'11
baseline efficiency factor	8.69	8.69	
efficiency factor	8.890	8.140	
change indicated	2.30%	-6.33%	