Luivanity of N	Joseth Co	nalina at				Carly Perin			
University of r	North Ca	ronna at	CB 1800 102 Giles Horn	ev Bld		919-843-7737			
Chap	bel Hill		Chapel Hill	NC	27599	carly.perin@facil	ities.unc.edu	l	
Elect Information									
Fleet In	formation		Fuel Int	formation		Fue	ling Infra		
Total Leased Vehicles		249	State Titled	Vehicles Only	y	Location	Age	Size	Fuel
Total County Titled Veh	nicles	0	Fuel Type	Gallons	Pet. Eqv.	Elect. Dist.	10	1,000 g	Diesel
Total State Titled Vehic	les	628	Gasoline	273,103	273,103	Finley Golf Course	8	1,000 g	Diesel
Total Other Vehicles		877	E10	0	-	Finley Golf Course	8	1,000 g	Gas
			E85	0	-	Grounds	8	4,000 g	Gas
Breakdown of State	e Titled Vehi	cles Only	Diesel	13,383	13,383	Grounds	8	1,000 g	Diesel
Vehicle Type	Quantity	Miles	Off-road Diesel	0	-	Service Station	10	10,000 g	Gas
Gasoline Only	562	2,858,043	B5	0	-				
Diesel	39	182,386	B20	1,364	1,091				
Hybrids	0	-	B100	0	-				
Flex-fueled Vehicles	27	97,250	CNG	0	-				
Comp Natural Gas	0	-	Propane	0	-				
Propane	0	-	Other	0	-				
Electric	0	-		Quarts					
Other	0	-	Petroleum Motor Oils	3,692	923				
10% Eligible	0	-	Syn & Rec Motor Oils	0	-				
Totals	628	3,137,679		Total	288,500				
Instructions			Notes/Comments			Potentia	l for Biofu	iels Expai	nsion
Fill out all information (except	ption - miles if I	N/A)	Flex fuel vehicles were n	ot using		Location	Space	Tk Size	Fuel
Complete with data from fisc	al year 2004-20	05	E85 fuel in 2004-05.			Service Station	n	6,000	E85
Please note if fuel includes m	ore than State V	/ehicles	Potential for Biofuels Exp	pansion includ	les	Service Station	n	10,000	E10
Count hybrids and FFV's only	y once in the br	eakdown,	one new tank for E85	, and conversi	on	Grounds		4,000	E10
do not count them as gase	oline vehicles		of two existing tanks	to E10.	DONE!				
10% Eligible vehicles include	e police & emer	gency	credit card purchases disc	covered- adj. A	Aug., 2011	<b>COMPLETED</b>	)!		
10% eligible educational vehi	icles must have								
specific modifications for	instructional p	urposes	Baseline modified to rest	ate 16 flex-fue	el vehicles as				
	1		gasoline along with 56K	of mileage					
		e	• .•	-				D (	
Potential Reduction in	Petroleum I	ise for your org	anization;		rojected Kedu	cuon		Petro	leum

I otential Reduction n	i i ettoleum use for your organization,	1	i oječicu K	cuucin	<b>J</b> 11	1 cu oicum
Conservation	Reduce speeds, efficient cars, task pooling	8,655	gallons	=	3.00%	Displacement
E10 IMPLEMENTED	Using E10 for all gasoline vehicles	27,310	gallons	=	9.47%	Goal : 20.0%
E85 IMPLEMENTED	Using E85 for all flex-fueled vehicles	10,641	gallons	=	3.69%	57,700 gallons
B5	Using B5 for all diesel vehicles	669	gallons	=	0.23%	
B20	Using B20 for all diesel vehicles	2,677	gallons	=	0.93%	
B100	Using B100 in 1/10th of your diesel vehicles	1,338	gallons	=	0.46%	
FFV	Substituting one FFV using E85	312	gallons	=	0.11%	
CNG/Propane	Replacing one vehicle with a CNG/LPG car	459	gallons	=	0.16%	
Electric	Replacing one vehicle with an electric car	459	gallons	=	0.16%	
Syn & Rec Oils	Using all synthetic and recycled motor oils	3,692	quarts	=	0.32%	

University of North Carolina at Chapel Hill

### Carly Perin 919-843-7737

carly.perin@facilities.unc.edu

Petroleum Dignloggement	2007 2007	2007 2008	2008 2000	2000 2010	2010 2011	Initial Cost	Yearly
Displacement	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	Cost	Cost
0.23%	Durchase flex fuel vehicles	upon available on state term					
	Monitor mileage and dispos	e of vehicles that are poorly	utilized				
0.25%	Enhance employee training	- in new employee encourage	e commuter alternative prog	rams			
6.00%	Convert our main 10 000 ga	llon gas tank to E-10 to swit	ch over $85\%$ of gas use to E1	0			
0.50%	Use 7,000 more gallons of H	320 per year					
		Purchase flex-fuel vehicles	when available on state term	contracts			
0.50%		Monitor mileage and dispos	e of vehicles that are poorly	utilized			
		Enhance employee training	- in new employee, encourag	e commuter alternative			
0.50%		programs					
2.00%		Convert our second main ga	soline tank (4,000) to an E-1	0 Blend			
		Install a new 4,000 gallon a	bove-ground tank to provide	E-85		\$ 200,000	
3.50%		Use 10,000 gallons of E85 (	(37% use by 62 FFVs)				
4.00%			Use 15,000 gallons more of (92% use by 62 FFVs)	E85 in current existing FFVs			
			Encourage carpooling & 4 day	work week for employees with			
			long commutes				
			Implemented preventative m	aintenance scheduling			
			Encourage anti-idling				
			Purchase of electric vehicles				
				Purchase only E85 vehicles when available			
				Preventative Maintenance			
				Encourage anti-idling			
				Purchase of electric vehicles			
Totals	7.00%	13.50%	17.50%				
Possible additional	vehicle purchases from	2006 - 2010					
Year	Quantity, Vehicle Type	and Description	Purpose	Fuel / Hybrid		Additional (	Cost
2006-07	5 FFV trucks to replace olde	er vehicles	Facilities work	E85			0
2007-08	5 FFV trucks to replace old	er vehicles	Facilities work	E85			
2009-10	5 FFV trucks to replace old	er vehicles	Facilities work	E85			

University of No Chape		Fleet an	d Fuel Re	eporting		Carly Perin 919-843-7737 carly.perin@fa	acilities.unc.e	edu						
Fleet Information	20	05-2006	200	6-2007	200'	7-2008	200	)8-2009	200	9-2010	2010-201         Total #       Miles         4,888       494       2,         4,035       53       -         9,695       139       -         0,695       139       -         26       -       -         3,618       712       3,         0       13%       -         2010-201       -       -         r.       Gal       -         -       -       -         1,624       222116       -         3,757       61,632       -         2,144       10656       -         -       -       -         0,310       14691       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       2456			
Vehicle Type	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles		
Gasoline	557	2,899,968	548	2,733,155	545	2,554,537	522	2,638,334	508	2,464,888	494	2,257,031		
Diesel	42	192,092	48	169,622	49	209,725	54	220,573	54	234,035	53	230,787		
Hybrid	-	-	-	-										
Flex-fueled Vehicles	43	183,867	62	223,802	90	425,384	113	592,931	121	629,695	139	653,948		
Comp Natural Gas	-	-	-	-										
Propane	-	-	-	-										
Electric	-	-	-	-	15		15		19		26	10,400		
Emergency/Ed (10%)	-	-	-	-										
Totals	642	3,275,927	658	3,126,579	699	3,189,646	704	3,451,838	702	3,328,618	712	3,152,166		
	2%	4%	5%	0%	11%	2%	12%	10%	12%	6%	13%	0%		
Fuel Information	2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011			
Fuel Type	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.		
Gasoline	174,635	174,635	38,619	38,619	18,908	18,908	0	-		-		-		
E10	87,318	78,586	229,310	206,379	240,627	216,564	229,003	206,103	212,916	191,624	222116	199,904		
E85	-	-	-	-	7,827	1,174	43,573	6,536	58,381	8,757	61,632	9,245		
Diesel	6,410	6,410	6,424	6,424	5,864	5,864	7,692	7,692	12,144	12,144	10656	10,656		
B5	-	-	-	-		-		-		-		-		
B20	9,103	7,282	8,477	6,782	10,561	8,449	10796	8,637	11,638	9,310	14691	11,753		
B100	-	-	-	-		-		-		-		-		
CNG	-	-	-	-	-	-	-	-		_		-		
Propane	-	-	-	-		-		-		_		-		
	Qrts		Qrts		Qrts		Qrts		Qrts		Qrts			
Petroleum Motor Oils	2,440	610	1,440	360	0	-	0	-	0	-		-		
Syn & Rec Motor Oils	928	-	4,692	-	1,868	-	2208	-	2258	-	2456	-		
Total Petroleum Use		267,523		258,564		250,960		228,967		221,836		231,558		
% Change in PDP		-4%		-7%		-10%		-18%		-20%		-20%		
raf lina #22 IO'N								PDP goal by	2011:		-20.0%			

E10 credit card purchases are being reported for the first time on this PDP report. 14,880 gallons of E10 for 2010-11 and the base year was increased by 9,463 gallons of gasoline.

# University of North Carolina at Chapel Hill

919-843-7737

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

Carly Perin carly.perin@faciliti	es.unc.edu	919-843-7737		Plan for FY 2011-20	012											largest fleet
all PDP participating fl	eets results to 2009-10															
	Overall Desults from	n all participating floats			vohio	los roportod i	n DDD									
	FY 2004-05	FY 200	09-2010			FY 2004-05	FY 20	09-2010			Resu	lts within 1	0 largest NC	fleets		
Fuel Trme	thousand of collons	thousand of collons	0/ 1					0/ 1		2000 10	Total fuel	% Chg in	Total Dates	% Chg P	'DP %	result of
Gas	14.935	3.165	% change		Gasoline	# 10.816	# 9.436	% change	NC DOT	2009-10	11.541	-9	9781	-21%	$\frac{1000}{-20\%}$	-14.98
E10	598	11382	1803%		Hybrid	78	129	65%	Dept of A	dmin MFM	4,828	-9	4350	-13%	-19%	-8.53
E85	242	398	64%		Flex-fueled Vehicles	4,752	7,018	48%	Dept of Co	C & PS	3,356	5	3020	-5%	-10%	-3.55
Diesel	8,526	1602	-81%		Comp Natural Gas	14	5	-64%	Dept of Co	orrection	1,568	-17	1366	-26%	-11%	-18.48
B5 B20	- 1.870	8157	336%		Diesel	4,498	5,066	13%	DENR Health & I	ЧС	1,032	-19	958	-25%	-13%	-17.72
B100	-	2	550%		Emergency/Ed (10%)	6,007	5,871	-2%	UNC Chap	pel Hill	296	-22 6	202	-20%	-20%	-17.64
Total Biodiesel as B20	1,870	8,167	337%		Electric	13	199	1431%	Agr & Coi	nsumer Ser.	526	1	484	-6.4%	-20%	-4.55
CNG	3	0	-92%		Total	26,370	27,874	6%	ECU &		123	-6	112	-14%	-20%	-10.51
Propane Potroloum Motor Oile	56	5	-91%		Of the Overall 17.5 % net	troleum reduct	ion:		ECU Tran	sit	210	40	169	13%	-20%	9.77
Svn & Rec Motor Oils	48	6	-27%		3.95% displaced by reduced	d mileage (conse	ervation)		Total for	ten largest	140	5	110	-1070	2070	-17.04
Total Fuel	26,283	24,760	-5.8%		4.01% displaced through E	10 use	,		fleets	ten har gest	23,908		20862	-20.23	-17.5%	-11.97%
Total Petroleum	25,581	21,638	-15.4%		0.49% displaced through E	85 use								· · · · ·		
T.Fuel (adj. for growth)	26,877	24,760	-7.88%		4.7% displaced through bio	diesel use										
T.Petro (adj for growth)	26,153	21,638	-17.26%		4.3% displaced through effi	iciency										
Your organization result	It to date															
Univers	ity of North Carolina at	Chapel Hill	results to date	e (2009-10)		r	%	Reductions Cause	ed by PDP Actions (b	y FY 09-10 a	s reported)					
0/ of Cool		Defect Line	Petroleum Displacement	PDP Actions									~			
% 01 G0a1	State Organization	Fetro Use	Achievements	partial effect of new E85	5	Miles	E10	E85 B	B5 B20	B100	CNG	Prop	Syn Moil			
102%	UNC Chapel Hill	-20%	at Goal	station, universal switch to E10, continued B20	1	6.1%	7.2%	16.8%	0.0% 0.8%	0.0%	0.0%	0.0%	0.2%			
				use												
your organization plan	to date															
University of Nort	h Carolina at Chapel Hi	ill				report progress	,			nlan nevt v	ear and forwa	rd				
Detucloum						report progress	9			pian next y		itu				
Displacement	2005 thru2007	2007	-2008	200	18-2009		2009-	2010			2010-	2011		h	evond 20	11
Actual	-7%	-10	<b>0%</b>		18%		-20	2010 %			-20	<u>%</u>			<u>cyona 20</u>	
6.1%	mileage increase did not	heln PDP														
7.2%	increased E10 use															
16.8%	significant E85 use					new E85 ava	ailability									
0.8%	B20 use	•														
0.2%	syn/recycled motor on us	e														
previously noted																
0.25%	Switch to synthetic oil for a	pproximately 90% of our veh	nicles and equipment													
	Purchase flex-fuel vehicles	when available on state term	utilized													
0.25%	Enhance employee training	- in new employee, encourag	e commuter alternative prog	ams												
6.00%	Convert our main 10,000 ga	llon gas tank to E-10 to swit	ch over 85% of gas use to E1	0												
0.50%	Use 7,000 more gallons of H	320 per year														
Planned																
Trainicu		Purchase flex-fuel vehicles	when available on state term	contracts												
0.50%		Monitor mileage and dispos	e of vehicles that are poorly	utilized												
0.50%		Enhance employee training	- in new employee, encourage	e commuter alternative n	romans											
2.00%		Convert our second main ga	soline tank (4,000) to an E-1	0 Blend	Tograms											
		Install a new 4,000 gallon a	bove-ground tank to provide	E-85												
3.50%		Use 10,000 gallons of E85 (	(37% use by 62 FFVs)													
	1			Use 15 000 gallons more	e of F85 in current existing						<u></u>	<u></u>				
4.00%				FFVs (92% use by 62 FI	FVs)											
				Encourage carpooling &	4 day work week for											
	-			employees with long con	nmutes											
				Encourage anti-idling												
				Purchase of electric vehi	icles											
						D 1		1								
						Purchase only Preventative	E85 vehicles	when available								
						Purchase only Preventative M Encourage ant	E85 vehicles v laintenance So l-idling	when available cheduling								
						Purchase only Preventative M Encourage ant Purchase of ele	E85 vehicles v laintenance So -idling ectric vehicles	when available cheduling								
						Purchase only Preventative M Encourage ant Purchase of ele	E85 vehicles laintenance So -idling ectric vehicles	when available cheduling								
						Purchase only Preventative M Encourage ant Purchase of ele	E85 vehicles v laintenance So -idling ectric vehicles	when available cheduling								

## 7th largest

Carly Print       919-843-773       Interfere theory of the difference	<pre>/m largest fleet her change to ting system</pre>
	her change to
In the process of reporting PDP results we have been able to directly utribute periodicum use changes due to influence; alternative for due, number of vehicles; use of synthetic or respected mover oil. Indirectly we have been attributing any of "balage in efficiency" a positive change may be called "onservation". To better define what period of PDP performance is due to "balage in efficiency" as appropriate "as appropriate "balage in efficiency". The process "balage in efficiency of conservation" Place assers the following:   Mult did your change? Place "X" in appropriate boards)   summary of the easing mean, or a carponling, estern. Behavior changes to vehicles or trueling infrastructure to make them more efficient. New hybrid attos or new fuel card reader systems would be mechanical. Process change could be due equipation thanges to vehicles or new fuel card reader systems would be mechanical. Process change could be due equipation to changes. The easing mean, or a carponling, estern. Behavior changes to vehicles or new fuel card reader systems would be mechanical. Process change could be due equipation to change to vehicle at reader systems would be mechanical. Process change could be an account of the system. The intervent of the system of the system of the easing mean, or a carponling, estern. Behavior cand be driver improving fuel economy by driving more efficient. New hybrid attos or new fuel card reader systems would be mechanical. Process change could be needed up to endow the easing mean, or a carponling estern. Behavior and the driver improving fuel economy by driving more efficient. New hybrid attos or new fuel card reader systems would be mechanical. Process change could be needed up to endow the easing down and the an account of the system. The easing when the test is the system of the easing mean or the easing down and the endow the easing down and the endow the easing down and the easing down and the endow to endow the easing down and the endow to endow the eas	her change to
	ting system
YES     N       what did you change? Place 'X' in appropriate box(s) examples: a mechanical change could include quipment changes to vehicles of faciling infrastructure in make them more efficient. New hybrid autos or new faci carl reader systems would be mechanical. Process change could be an account change, vehicle reassignment, or a carpooling system. Behavior could be drivers improving fiel economy by driving comments core carpooling to reduce mileage.       mechanical to use co-board differentiation to thing efficient X.     N     D       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     2009-10     2000-11       1     200	ting system
what did you change? Place "X" in appropriate box(sc)         what did you change? Place "X" in appropriate box(sc)         x       x	ting system
Image: second	
inchanical problem     X     y<	10
in       changed vehicle types       X       in       changed field accounting       in       in<	IIU
use full management       management       methanism       X       methanism	
use on-board idle reduction nechanism       X       2       set carpooling policy       a       set policy on idle reduction       a       set policy on idle reduction       a       set policy on idle reduction       a<	
Convert our 10000 gal gas in the tank to E10     X       Ie     Convert our 10000 gal gas in the tank to E10     X       If     Surplus old vehicles     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     X       install 8000 gal E85 gas tank in tank to E10     Y       install 8000 gal E85 gas tank in tank to E10     Y       install 8000 gal E85 gas tank in tank to E10     Y       install 8000 gal E85 gas tank in tank to E10     Y       install 8000 gal E85 gas tank in tank to E10     Y       intert and tank to E10     Y       intert and tank to E10     Y       intert and tank to E10     Y       inter tank to E10     Y       in	
Ic       tank to E10       X       Image: Control of	
Install 8000 gal E85 gas tank     Image: Section of the synthetic oil in oil in oil in oil in other process system     Image: Section of the synthetic oil in oil in oil in other process system     Image: Section of the synthetic oil in oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other process system     Image: Section of the synthetic oil in oil in other proces     Image: Section of the synthetic oil in oil in	
Ig       to E10       X       Image: Construction of Constructing of Construction of Construction of Constructing of	
Ind     Understein     Endinge     Endinge     Endinge       when did you first charge it? Place "question #" in box best marking when process began. There may be multiple marks.       mechanical     process     before 2005       before 2005     1f     before 2005     before 2005       FY 04-05     1     FY 04-05     1       FY 05-06     1d, 1e     FY 05-06     2a       FY 06-07     1a, 1b, 1d     FY 06-07     2e       FY 07-08     1g     FY 07-08     FY 07-08	
when did you first change it? Place "question #" in box best marking when process began. There may be multiple marks.nechanicalprocessbehaviorbefore 200516before 20053eFY 04-0510FY 04-0510FY 05-0610, 1eFY 05-062aFY 06-071a, 1b, 1dFY 06-072eFY 07-0810FY 07-08FY 07-08FY 00-0010FY 00-00FY 00-00	
FY 08-09     FY 08-09     FY 08-09       FY 09-10     FY 09-10     FY 09-10       FY 10-11     FY 10-11     FY 10-11	
How did you change it? Please note question # you are referring to. examples may include new procedures, training, or directives affecting vehicle choice or vehicle use; installation of new equipment to dispense fuel or account for its use.  mechanical Installation of E85 tank and pump at UNC-CH Facilites Service Station. Switch to synthetic oil for approximately 90% of our vehicles and equipment. Purchase flex-fuel vehicles when available on state term contracts . Purchase of electric vehicles. Monitor mileage and dispose of v poorly utilized. Purchase B20 from the town of Chapel Hill. Convert our second gas tank to E10. new in FY 2010-'11:	/ehicles that are
Implemented preventative maintenance scheduling.	
new in FY 2010-'11:	
habavior	
Monitor mileage and dispose of vehicles that are poorly utilized. Encourage carpooling & 4 day work week for employees with long commutes. Encourage anti-idling.	-
From your Results Noted tab you are now aware of what portion of your PDP performance change (positive or negative) was attributed to efficiency and conservation last year. Your '09-'10 PDP report indicated 0.03% was attributed to change in efficiency. Of the noted changes in each of these three categories what part will you attribute to current and future activities in each? Your answers may total 0% if not applicable, otherwise the total will be 100%.	
FY2009-10mechanicalFY2009-10behaviorFY2010-11mechanicalFY2010-11processFYFY2011-12mechanicalFY2011-12behaviorFYFY2011-12processFY2011-12behaviorFY	

indicated categories added by UNC-CH- differing from other respondants