REVENUE ESTIMATING CONFERENCE

TAX: Sales & Use Tax, Corporate Income Tax, and Fees

ISSUE: Encouraging Plug-in Electric Vehicles

BILL NUMBER(S): SB1610 SPONSOR(S): Senator Altman

MONTH/YEAR COLLECTION IMPACT BEGINS: July 1, 2009

DATE OF ANALYSIS: March 5, 2009

SECTION 1: NARRATIVE a. Current Law:

Currently there are no special provisions for plug-in electric vehicles.

b. Proposed Change:

This appears to be a new section. It is unclear where this section goes. There are a few provisions:

- 1. Sales tax exemption on all plug-in vehicles sold. A sales tax exemption on specified components for converting existing vehicles to plug-in, including electric motors, electric motor controllers, battery chargers, batteries, and after-market converter kits. Sales tax exemption extends to county surtaxes.
- 2. Corporate income tax credits \$1,000 per year per vehicle for fleets of 10 or more electric plug-in vehicles (registered and tagged in Florida).
- 3. Exemption from paying tolls on roads in the SunPass system from July 1, 2009 to December 31, 2019.
- 4. A one-time \$2,000 rebate for installing a public charging station (capped at \$200,000 per year).
- 5. A one-time \$2,000 rebate for a conversion kit (capped at \$200,000 per year).

SECTION 2: DESCRIPTION OF DATA AND SOURCES

New Kits Turn any Car into a Plug-In Hybrid

http://www.myride.com/technology/new kits turn any car into a plug in hybrid-3989-page1.html

Sun Pass Calculator http://www.sunpass.com/tollcalculator.cfm?From=savings

Couloub Technologies charge point stations for plug ins. Company representative estimated the cost at about \$5,000 for the initial station and about \$2,000 for subsequent stations. Currently there is a 50% Federal tax incentive. This model is a vending machine style. http://www.coulombtech.com/sales.php

(Sec. 1623) of H.R. 1: Increases in 2009 and 2010 the tax credit for residential and commercial alternative fuel vehicle refueling property expenditures.

Estimates of Hybrid Adoption in Florida:

http://www.isecorp.com/ise_news/ise_press_articles/pdf/usatoday-news.pdf http://www.hybridcars.com/market-dashboard/april-2008-hybrids-defy-recession.html

SECTION 3: METHODOLOGY (INCLUDE ASSUMPTIONS AND ATTACH DETAILS)

Adoption rate of electric plug-in vehicles was based on adoption rate on hybrid vehicles in Florida from 2000. Payoff periods are estimated to determine reasonableness of adoption. It is assumed that half of the vehicles would be part of corporate fleets, and half are individual sales. Corporate Income Tax credit is calculated to be for next fiscal year. 10KwH converter is assumed to cost 50% more than the 5 KwH converter. High toll use is estimate to be equivalent to be 2 tolls at \$2 per toll per day. Low toll use is assumed to be 1 toll at \$1.50 per day.

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SECTION 4: PROPOSED FISCAL IMPACT

State Impact:	FY 2009-10	FY 209-10	FY 2010-11	FY 2011-12	FY 2012-13
All Funds	Annualized	Cash	Cash	Cash	Cash
High					
Middle	(\$2.3 Million)	(\$.9 Million)	(\$2.3 Million)	(\$5.0 Million)	(\$8.6 Million)
Low					

SECTION 5: CONSENSUS ESTIMATE (ADOPTED 3/20/09) The conference adopted the proposed estimates.

	FY 2009-10	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13
	Annualized	Cash	Cash	Cash	Cash
General Revenue—Sales Tax	(1.1)	(.5)	(1.1)	(2.0)	(2.7)
General RevenueCorporate	(.2)	0	(.2)	(.6)	(1.4)
State Trust—Sales Tax	(Insignificant)	(Insignificant)	(Insignificant)	(Insignificant)	(Insignificant)
State TrustTolls	(.5)	(.1)	(.5)	(1.1)	(2.1)
Total State Impact	(1.8)	(.6)	(1.8)	(3.7)	(6.2)
Revenue Sharing	(Insignificant)	(Insignificant)	(Insignificant)	(.1)	(.1)
Local Gov't Half Cent	(.1)	(.1)	(.1)	(.2)	(.3)
Local Option	(.1)	(.1)	(.1)	(.2)	(.3)
Local Tolls	(.4)	(.1)	(.4)	(1.0)	(2.1)
Total Local Impact	(.6)	(.3)	(.6)	(1.5)	(2.8)
Total Impact	(2.4)	(.9)	(2.4)	(5.2)	(9.0)

	A	В	С	D	Е	F
1						
2	Overall	Impact by Tax				
3						
4						
5			2009-10	2010-11	2011-12	2012-13
6		Sales Tax Exemptions	\$341,836	\$999,168	\$1,873,440	\$2,497,920
7		Corporate Income Tax Credits	\$0	\$200,000	\$600,000	\$1,350,000
8		Vehicle License Taxes	\$9,000	\$27,000	\$60,750	\$105,750
9		Total Tax Impact	\$350,836	\$1,226,168	\$2,534,190	\$3,953,670
10						
11						
12		The bill also contains the following appropriations:				
13		Rebate on Installing Public Charging Stations	\$50,000	\$100,000	\$150,000	\$200,000
14		Rebate for Converter Kits	\$200,000	\$200,000	\$200,000	\$200,000

	A	В	С	D	Е
1					
2	Costs	s and Savings			
3		S			
					New Hybrid
				New Plug -in	-
4	Initial C	Costs	5KwH	Vehicle	(Small Battery)
5		After Market Converter Kit	\$9,995		\$9,995
6		Plug-in Vehicle		\$35,000	
7		Hybrid Vehicle			\$22,000
8		Intallation Fee	\$400		\$400
9		Total	\$10,395	\$35,000	\$32,395
	Savings				
11		Initial			
12		Sales Tax Exemption	\$623.70	\$2,100.00	\$1,943.70
13		Converter Rebate	\$2,000		\$2,000
14		Annual			
15		Motor Vehicle License Tax Exemption	\$22.50	\$22.50	\$22.50
16		Corporate Fleet Credit	\$1,000	\$1,000	\$1,000
17		Fuel Cost Savings			** * * * * * * * * * * * * * * * * * * *
18		8 cents per mile, 40 miles a day, 365 days	\$1,168	\$1,168	\$1,168
19					
20					
21		US\$40K ^{[46][47]} with government approved subsidies bringing the			
22		price to around \$32.5K. Initially, the GM vice president wanted it at			
23		about US\$30K. ^[48]			

	A	В	С	D	Е
1					
2	Estima	ated Payoff Period			
3					
			Initial	Annual	Years
4		Corporate Fleet	Costs''	Savings	Payoff
5		Using Converter Kit on Existing Vehicle	\$8,395	\$2,191	3.8
6		Purchase New Plug-In Vehicle	\$20,000	\$2,191	9.1
7		Purchased New Hybrid with a Converter Kit	\$15,395	\$2,191	7.0
8					
			Initial	Annual	Years
9		Individual	Costs''	Savings	Payoff
10		Using Converter Kit on Existing Vehicle	\$8,395	\$1,191	7.1
11		Purchase New Plug-In Vehicle	\$20,000	\$1,191	16.8
12		Purchased New Hybrid with a Converter Kit	\$15,395	\$1,191	12.9
13					
14					
		*Initial costs that includes purchasing a new vehicle is			
		reduced by \$15,000. This reduction is based on			
		purchasing a comparable vehicle (e.g. Honda Civic)			
15		instead of electric plug-in.			

	A	В	С	D	Е	F
1						
2						
3						
4	Sample SunPass Tolls					
5				Miles	Toll	
6	SC 55 & US 98 to SC 19 & SR 54,			36.31	\$3.00	
	Alligator Alley,			77.71	\$2.00	
8	SEM 55 & I 4 to SEM 38 & Aloma,			16.95	\$1.50	
9	H 47 & NW 27th Ave (University to H1 & US 1 (South Dixie)			46.1	\$2.50	
10	Boyton Beach Blvd to Dolphin Stadium,			40.66	\$1.75	
11	Turnpike I-75 to SR 80			211.05	\$11.80	
12	Coconut Creek to Sunrise Blvd			8.32	\$0.75	
13	Sunshine Skyway Bridge				\$0.75	
14	Old Tampa Highway to Highlands Road			8.34	\$1.00	
15						
16						
17						
18						
19	SunPass Fee					
20		Total Number		P	rice Per Tol	1
21		of Toll Trips		2.00	1.50	1.00
22 23		per Year				
24	High (Average 4 per day)	1460		\$2,920	\$2,190	\$1,460
25	Medium (Average 2 per day)	730		\$1,460	\$1,095	\$730
26	Low (Average 1 per day)	365		\$730	\$548	\$365
27	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				•	
28						
29						
	Estimates Used					
31	High SunPass	\$1,460				
	Low SunPass	\$548				

	A	В	C	D	Е	F	G	Н
1	Estim	ated A	doption of	New Vehic	cle Techno	logies	in Flo	orida
2								
3								
					Estimated			Estimated Number of
			Number of	Number of	Number of			Plug-In Electric Cars
4		Year	Hybrids (US)	Hybrids (FL)	Hybrids in FL		SFY	in FL
5								
6		2008	400,000		15,740			
7		2007	360,000	16,518	14,166			
8		2006	250,000		9,837			
9		2005	210,000		8,263		2014-15	8,500
10		2004	83,153	3,272	3,272		2013-14	3,500
11		2003	50,000		1,967		2012-13	2,000
12		2002	38,000		1,495		2011-12	1,500
13		2001	20,000		787		2010-11	800
14		2000	10,000		393		2009-10	400

	A B	С	D	E	F	G	Н	I
1								
2	Estimated Number of Vehicles							
3	Corporate Fleet		2009-10	2010-11	2011-12	2012-13		
4	Using Converter Kit on Existing Vehicle	25%	100	200	375	500		
5	Purchase New Plug-In Vehicle	10%	40	80	150	200		
6	Purchased New Hybrid with a Converter Kit	15%	60	120	225	300		
7								
8	Individual							
9	Using Converter Kit on Existing Vehicle	30%	120	240	450	600		
10	Purchase New Plug-In Vehicle	10%	40	80	150	200		
11	Purchased New Hybrid with a Converter Kit	10%	40	80	150	200		
12								
11 12 13 14	Total	100%	400	800	1,500	2,000		
14								
15								
16	Tax Impact per Vehicle							
17								
18			Initial				Annual	
		Rebate on						
		Converter	6% Sales			License	Corporate	
19	Corporate Fleet	Kit	Tax	Total Initial		Tax	Fleet	Total Initial
20	Using Converter Kit on Existing Vehicle	\$2,000.00	\$623.70	\$2,623.70		\$22.50	\$1,000.00	\$1,022.50
21	Purchase New Plug-In Vehicle	\$0.00	\$2,100.00	\$2,100.00		\$22.50	\$1,000.00	\$1,022.50
22	Purchased New Hybrid with a Converter Kit	\$2,000.00	\$1,943.70	\$3,943.70		\$22.50	\$1,000.00	\$1,022.50
21 22 23 24 25 26 27								
24	Individual							
25	Using Converter Kit on Existing Vehicle	\$2,000.00	\$623.70	\$2,623.70		\$22.50	\$0.00	\$22.50
26	Purchase New Plug-In Vehicle	\$0.00	\$2,100.00	\$2,100.00		\$22.50	\$0.00	\$22.50
27	Purchased New Hybrid with a Converter Kit	\$2,000.00	\$1,943.70	\$3,943.70		\$22.50	\$0.00	\$22.50

	A B	С	D E	F	G	Н	I	J
1	Tax Impact	•			•			
2	1							
3		Vehicles	Initial		Annual Ta	x Impacts		
4				*****	2010.11	2011.12		
	SFY 2009-2010 Corporate Fleet			2009-10	2010-11	2011-12	2012-13	
7	Using Converter Kit on Existing Vehicle	100	\$262,370	\$2,250				
8	Purchase New Plug-In Vehicle	40	\$84,000	\$900				
9	Purchased New Hybrid with a Converter Kit	60	\$236,622	\$1,350				
10	Individual							
11	Using Converter Kit on Existing Vehicle	120	\$314,844	\$2,700				
12	Purchase New Plug-In Vehicle Purchased New Hybrid with a Converter Kit	40 40	\$84,000 \$157,748	\$900 \$900				
14	Total	400	\$981,836	\$9,000				
15	Conversion Kits (Rebate Limited to 100 Units)		320	φ>,000				
16	Excess Rebate		\$440,000					
17	Public Charging Station (Rebate Limited to 100 Units)		100					
18	Total Impact		\$750,836					
19 20	SFY 2010-2011							
21	Corporate Fleet							
22	Using Converter Kit on Existing Vehicle	200	\$524,740	\$102,250	\$4,500			
23 24	Purchase New Plug-In Vehicle	80	\$168,000	\$40,900	\$1,800			
24	Purchased New Hybrid with a Converter Kit	120	\$473,244	\$61,350	\$2,700			
25	Individual	240	¢<20,<88	\$2.700	¢5 400			
26 27	Using Converter Kit on Existing Vehicle Purchase New Plug-In Vehicle	240 80	\$629,688 \$168,000	\$2,700 \$900	\$5,400 \$1,800			
28	Purchased New Hybrid with a Converter Kit	80	\$315,496	\$900	\$1,800			
29	Total	800	\$2,279,168	\$209,000	\$18,000			
30	Conversion Kits (Rebate Limited to 100 Units)		640					
31	Excess Rebate		\$1,080,000					
32	Public Charging Station (Rebate Limited to 100 Units)		100					
33 34	Total Impact		\$1,626,168					
	SFY 2011-2012							
36	Corporate Fleet							
37	Using Converter Kit on Existing Vehicle	375	\$983,888	\$102,250	\$204,500	\$8,438		
38	Purchase New Plug-In Vehicle	150	\$315,000	\$40,900	\$81,800	\$3,375		
39 40	Purchased New Hybrid with a Converter Kit Individual	225	\$887,333	\$61,350	\$122,700	\$5,063		
41	Using Converter Kit on Existing Vehicle	450	\$1,180,665	\$2,700	\$5,400	\$10,125		
42	Purchase New Plug-In Vehicle	150	\$315,000	\$900	\$1,800	\$3,375		
43	Purchased New Hybrid with a Converter Kit	150	\$591,555	\$900	\$1,800	\$3,375		
44	Total	1,500	\$4,273,440	\$209,000	\$418,000	\$33,750		
45 46	Conversion Kits (Rebate Limited to 100 Units) Excess Rebate		1,200					
47	Public Charging Station (Rebate Limited to 100 Units)		\$2,200,000 100					
48	Total Impact		\$2,934,190					
49	-							
	SFY 2012-2013							
51 52	Corporate Fleet	500	¢1 211 050	\$102.250	¢204.500	¢202 420	¢11.250	
52	Using Converter Kit on Existing Vehicle Purchase New Plug-In Vehicle	500 200	\$1,311,850 \$420,000	\$102,250 \$40,900	\$204,500 \$81,800	\$383,438 \$153,375	\$11,250 \$4,500	
53 54	Purchased New Hybrid with a Converter Kit	300	\$1,183,110	\$61,350	\$122,700	\$230,063	\$6,750	
55 56	Individual		. ,,	,	,		,	
56	Using Converter Kit on Existing Vehicle	600	\$1,574,220	\$2,700	\$5,400	\$10,125	\$13,500	
57	Purchase New Plug-In Vehicle	200	\$420,000	\$900	\$1,800	\$3,375	\$4,500	
58 59	Purchased New Hybrid with a Converter Kit	200	\$788,740 \$5,607,020	\$900	\$1,800	\$3,375 \$793,750	\$4,500 \$45,000	
60	Total Conversion Kits (Rebate Limited to 100 Units)	2,000	\$5,697,920 1,600	\$209,000	\$418,000	\$783,750	\$45,000	
61	Excess Rebate		\$3,000,000					
62	Public Charging Station (Rebate Limited to 100 Units)		100					
63	Total Impact		\$4,353,670					