ENTER/REPLACE DATA IN GREEN CELLS ONLY!

CALCULATED CAFE, GHG, AND LABEL VALUES

CAFE Values	City	Highway	Combined
✓ A. PHEV meets dual fuel criteria:	City	Highway	Combined
1. Default 50/50 Composite MPGe	123.7522	122.7447	123.2968
→ 2. Optional Utility Factor Composite MPGe ←	208.2109	111.4317	149.7028
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composity MPGe	132.7624	94.6052	112.3678
Based on the all-electric range, is this PHEV a dual fuel vehicle for CAFE?			YES
	City	Highway	Combined
All-Electric Range (miles, unadjusted)	42.50	39.60	41.2

GHG Values	City	Highway	Combined
Composite CREE, no DF (g/mi)	27.4	71.6	47.3
Composite CREE, with DF (g/mi)	27.4	71.6	47.3

Label Values (5-Cycle Adjusted)			
Charge-Depleting	City	Highway	Combined
Charge-depleting Range (Miles)	29.86	27.95	29
All-Electric Range (Miles)	29.76	27.72	29
Total Driving Range (Miles)			620
CD Fuel Economy (MPGe)	123.1224	115.1485	119.4016
CD Electricity Consumption (kW-hr/100mi)	27.5010	28.4480	27.9272
CD Gasoline Consumption (gal/100mi)	0.0	0.0	0.0
Charge-Sustaining	City	Highway	Combined
CS Fuel Economy (MPG)	52.4362	51.4965	52
CS Fuel Consumption (gal/100mi)	1.9	1.9	1.9
Composite CD/CS	City	Highway	Combined
Annual Fuel Cost ($/year)			$ 650
5-Year Fuel Savings Value ($/5 years)		You SAVE:	$ 4,250
Composite CO2 (g/mi)	72.0	76.9	74
Composite Fuel Economy (MPG)	78.1048	74.2290	76
MPG Rating (on scale of 1-10)			10
GHG Rating (on scale of 1-10)			10

Label Inputs Based on Model Year and Fuel Type (generally these should not be changed)	
Gasoline cost ($/gallon)	$ 2.70
Electricity cost ($/kW-hour)	$ 0.13
Average vehicle 5-year cost ($)	$ 7,500
Average vehicle MPG	27

This calculator automatically selects the appropriate CAFE value for 2016 and later model year PHEVs. If the PHEV is a dual fuel vehicle for purposes of CAFE, the better of a 50/50 weighting or a utility factor calculation will be selected. The statute requires manufacturers to request use of the utility factor method for 2016 and later PHEVs. Submitting this spreadsheet to EPA, filled out completely and correctly, will constitute such a request. Prior to 2016 the 50/50 weighting option must be used.

THE FOLLOWING VALUES ARE USED FOR OTHER EPA PUBLICATIONS OR PROGRAMS

Trends Report Values	City	Highway	Combined
Fleet Utility Factor (43/57)	0.7260	0.3580	
Unadjusted Fuel Economy (MPG)	132.7624	94.6052	
Unadjusted GHG (g/mi)	27.4000	71.6000	
Adjusted Fuel Economy (MPG)	87.3332	63.5087	
Adjusted GHG (g/mi)	50.7	114.1	
HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda	0.6970	0.6770	
Composite CD/CS Fuel Economy (MPGe)	122.6	116.6	119.8

Fueleconomy.gov Values		
Charge-sustaining Efficiency		MPG
City FE (Guide) - Conventional Fuel		52
Hwy FE (Guide) - Conventional Fuel		51
Comb FE (Guide) - Conventional Fuel		52
City Unadj FE - Conventional Fuel		72.3
Hwy Unadj FE - Conventional Fuel		72.4
Comb Unadj FE - Conventional Fuel		72.3450
City Unrd Adj FE - Conventional Fuel		52.4362
Hwy Unrd Adj FE - Conventional Fuel		51.4965
Comb Unrd Adj FE - Conventional Fuel		52.0091
Charge-sustaining CO2		g/mi
City CO2 Rounded Adjusted		170
Hwy CO2 Rounded Adjusted		174
Comb CO2 Rounded Adjusted		172
*City CO2 Unadj		124.0
*Hwy CO2 Unadj		124.0
*Comb CO2 Unadj		124.0
*City CO2 Unrd Adj		170.4
*Hwy CO2 Unrnd Adj		174.1
*Comb CO2 Unrnd Adj		172.1
Charge-sustaining Driving Range (Adjusted)		
*Range1 - Model Type Driving Range - Conventional Fuel - City		598
*Range1 - Model Type Driving Range - Conventional Fuel - Hwy		587
Range1 - Model Type Driving Range - Conventional Fuel - Comb		593
Charge-depleting Efficiency	kW-hr/100mi	MPGe
City2 FE (Guide) - Alternative Fuel	28	123
Hwy2 Fuel FE (Guide) - Alternative Fuel	28	115
Comb2 Fuel FE (Guide) - Alternative Fuel	28	119
City2 Unadj FE - Alternative Fuel	19.2	175.8897
Hwy2 Unadj FE - Alternative Fuel	20.5	164.5013
Comb2 Unadj FE - Alternative Fuel	19.7850	170.5757
City2 Unrd Adj FE - Alternative Fuel	27.5010	123.1224
Hwy2 Unrd Adj FE - Alternative Fuel	28.4480	115.1485
Cmb2 Unrd Adj FE - Alternative Fuel	27.9272	119.4016
Charge-depleting CO2		g/mi
City CO2 Rounded Adj		0
Hwy CO2 Rounded Adj		0
Comb CO2 Rounded Adj		0
*City CO2 Unadj		0
*Hwy CO2 Unadj		0
*Comb CO2 Unadj		0
*City CO2 Unrd Adj		0
*Hwy CO2 Unrnd Adj		0
*Comb CO2 Unrnd Adj		0
Charge-depleting Driving Range (Adjusted)		miles
City Range on Electricity (miles)		29.86
Hwy Range on Electricity (miles)		27.95
Comb Range on Electricity as shown on FE Label (miles)		29
All-Electric Driving Range (Adjusted)		miles
City All-Electric Range		29.76
Hwy All-Electric Range		27.72
Comb All-Electric Range as shown on FE Label (miles)		29.0
Charge-depleting Utility Factors		UF
City Utility Factor (MDIUF)		0.584
Hwy Utility Factor (MDIUF)		0.563
Comb Utility Factor (MDIUF)		0.575
Composite Efficiency (Adjusted)		MPGe
City PHEV Composite MPGe		78
Hwy PHEV Composite MPGe		74
Comb PHEV Composite MPGe		76
Composite CO2 (Adjusted)		g/mi
City CO2-PHEV Composite Rounded Adjusted Combined CO2		72
Hwy CO2-PHEV Composite Rounded Adjusted Combined CO2		77
CO2-PHEV Composite Rounded Adjusted Combined CO2		74
PHEV Total Driving Range (Adjusted)		miles
		620

ENTER BASIC VEHICLE INFORMATION HERE

Vehicle Information	
Model year:	2021
Vehicle category:	PV
Manufacturer name:	Hyundai
Model name:	Ioniq Plug-in hybrid
Liquid fuel type:	Regular Unleaded
Additional descriptors as needed:	
Fuel tank size (U.S. gallons)	11.4
Deterioration Factors for GHG (CREE) Values (optiona	Yes
Select the type of DF to apply:	Additive
Enter a single DF for City and Highway:	0
Enter a City DF :	
Enter a Highway DF:	
Inputs & Conversions (most of these should not be changed)	
DOE Petroleum Equivalence Factor (PEF):	82049
Watt-hours of energy per gallon of gasoline:	33705
Grams of CO2 per gallon of gasoline/diesel:	8887
Fuel lower heating value (kJ/kg):	43020
Fuel density (kg/gal):	2.805

ERROR AND VALIDATION MESSAGES

Test Set #1

Test Set name (e.g., Eco, Power):	Eco
Production Volume (projected or actual):	

ENTER CHARGE-SUSTAINING TEST RESULTS HERE

	City	Highway
Fuel Economy, Unadjusted (MPG):	72.3	72.4
Fuel Economy, Adjusted (MPG):	52.4362	51.4965
CREE (g/mi):	124.0	124.0
CO2, Unadjusted (g/mi):	124	124
CO2, Adjusted (g/mi):	170.4	174.1

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
1	7.456	3.405	387.22	0.0	0	0
2	7.457	6.856	374.15	0.0	0	0
3	7.454	10.373	362.85	0.0	0	0
4	7.458	13.971	353.93	0.0	0	0
5	7.455	17.623	347.71	0.0	0	0
6	7.455	20.261	341.04	199.8	45	45
7	7.453	20.490	337.63	78.5	114	114
8	7.457	20.412	337.60	72.7	123	123
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Recharge energy (AC kilowatt-hours):						8.213
All-Electric Range (miles):						42.520
Calculated transition cycle: 7			To override transition cycle, enter here--->			6

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
1	10.245	4.986	385.20	0.0	0	0
2	10.246	10.126	366.80	0.0	0	0
3	10.246	15.454	353.50	0.0	0	0
4	10.246	20.233	344.00	445.5	20	20
5	10.246	19.776	339.00	64.2	140	140
6	10.248	19.755	339.80	70.1	128	128
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Recharge energy (AC kilowatt-hours):						7.951
All-Electric Range (miles):						39.600
Calculated transition cycle: ERROR			To override transition cycle, enter here--->			4

Results from Test Set #1: Eco

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:	City	Highway	Combined
1. Default 50/50 Composite MPGe [4]	123.7522	122.7447	123.2968
2. Optional Utility Factor Composite MPGe [4]	208.2109	111.4317	149.7028
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	132.7624	94.6052	112.3678
GHG Values	City	Highway	Combined
Composite CREE, (g/mi) [1]	27.4	71.6	47.3
Label Values (5-Cycle Adjusted)			
Charge-Depleting			Combined
CD range, adjusted (miles) [0]			29
CD All-Electric Range, adjusted (mi) [0]			29
Total Driving Range (Miles) [0]			620
CD Fuel Economy (MPGe) [0]			119
CD Electricity Consumption (kW-hr/100mi) [0]			28
CD Gasoline Consumption (gal/100mi) [0]			0
Charge-Sustaining			Combined
CS Fuel Economy (MPG) [0]	52.4362	51.4965	52.0091
CS Fuel Consumption (gal/100mi) [1]	1.9	1.9	1.9
Composite CD/CS			Combined
Annual Fuel Cost ($/year) [0]			650
5-Year Fuel Savings Value ($/5 years) [0]			4,250
Composite CO2 (g/mi) [0]			74
Composite Fuel Economy (MPG) [0]			76
HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda [3]	0.697	0.677	
Composite CD/CS Fuel Economy (MPGe) [4]	122.6345	116.5986	119.8428
Trends Report Values	City	Highway	Combined
Fleet Utility Factor (43/57) [3]	0.726	0.358	0.5604
Unadjusted Fuel Economy (MPG) [4]	132.7624	94.6052	112.3678
Unadjusted GHG (g/mi) [1]	27.4	71.6	47.3
Adjusted Fuel Economy (MPG) [4]	87.3332	63.5087	74.7196
Adjusted GHG (g/mi) [1]	50.7	114.1	79.2

INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #1: Eco

Charge-Depleting (CD) Test Results		CITY	HIGHWAY
	DRIVING DISTANCE VALUES	CITY	HIGHWAY
	CD driving distance (Rcda), unadjusted (miles) [3]	42.663	39.928
	CD driving distance (Rcda), adjusted (miles) [3]	29.864	27.949
	CD all-electric driving distance, unadjusted (miles) [3]	42.520	39.600
	CD All-Electric Range, adjusted (mi) [3]	29.764	27.720
	FUEL CONSUMPTION & ECONOMY VALUES	CITY	HIGHWAY
NEW	CD AC electricity consumption (Rcdc), unadjusted (Watt-hours) [1]	8156.3	8130.6
	CD AC electricity consumption rate (Rcda), adjusted (kW-hr/100mi) [3]	27.501	28.448
	CD test total DC energy consumed, unadjusted (Watt-hours) [1]	7379.7	7171.4
NEW	CD Rcda total fuel consumption (Rcda), unadjusted (gal equiv) [4]	0.2426	0.2427
	CD utilitized total fuel consumption rate (55/45 FUF, Rcdc), unadjusted (gal-equiv/mile) [6]	0.004766	0.002794
NEW	CD utilitized total fuel consumption rate (43/57 FUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.006225	0.003279
NEW	CD utilitized total fuel consumption rate (MDIUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.005175	0.005180
	CD gasoline consumption (Rcda), unadjusted (gal) [1]	0	0
	CD fuel economy (Rcda), adjusted (MPGe) [4]	123.1224	115.1485
	CD gasoline consumption rate (Rcda), adjusted (gal/100mi) [4]	0.0000	0.0000
NEW	CD fuel economy (Rcda), unadjusted (MPGe) [4]	175.8897	164.5013
NEW	CD AC electricity consumption rate (Rcda), unadjusted (kW-hr/100mi) [3]	19.163	20.489
	GHG EMISSIONS VALUES	CITY	HIGHWAY
	CD CO2 emissions rate (Rcda), unadjusted (g/mi) [1]	0.0	0.0
NEW	CD CO2 emissions rate (Rcda), adjusted (g/mi) [1]	0.0	0.0
NEW	CD utilitized CO2 (MDIUF, Rcdc), adjusted (g/mi) [1]	3.8	2.6
	CD utilitized CREE (55/45 FUF, Rcdc), unadjusted (g/mi) [1]	2.6	1.8
NEW	CD utilitized CREE (43/57 FUF, Rcdc), adjusted (g/mi) [1]	4.0	2.3
	UTILITY FACTORS & OTHER METRICS	CITY	HIGHWAY
	CD 55/45 Fleet Utility Factor (FUF) for Rcdc [3]	0.800	0.437
	MDIUF based on adjusted Rcda [3]	0.584	0.563
	MDIUF based on adjusted Rcdc [3]	0.600	0.573
	Fraction of transition cycle that is charge-depleting operation (Zn) [3]	0.722	0.897
	Number of last cycle number with charge-depleting operation (transition cycle) [0]	6	4
Intermediate Results Requiring Charge-Sustaining (CS) Test Results or Other Inputs			
	DRIVING DISTANCE VALUES	CITY	HIGHWAY
	CD Equivalent All-Electric Range (EAER), Unadjusted (mi) [3]	42.663	39.928
	Charge-sustaining driving range, adjusted (mi) [3]	597.773	587.060
	UTILITY FACTORS & OTHER METRICS	CITY	HIGHWAY
	CD 55/45 Fleet Utility Factor (FUF) for EAER [3]	0.785	0.427
	FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	CITY	HIGHWAY
	CD cost per mile - electricity ($/mi) [3]	$ 0.036	$ 0.037
	CD cost per mile - gasoline ($/mi) [3]	$ -	$ -
	CD total cost per mile ($/mi) [3]	$ 0.036	$ 0.037
	CS cost per mile ($/mi) [3]	$ 0.051	$ 0.052
	Composite CD/CS cost ($/mi) [3]	$ 0.042	$ 0.044
	COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	CITY	HIGHWAY
	Composite CD/CS CO2, adjusted (g/mi) [1]	72.0	76.9
	Composite CD/CS Fuel Economy, adjusted (MPG) [4]	78.1048	74.229

DETAILED CALCULATIONS — UDDS — Eco

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoretical Cumulative Cycle Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas + electric)	55/45 City Fleet Utility Factor [3]	55/45 City FUF x CREE	55/45 City FUF x Total Consumption	Total Fuel Consumption (gas + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi
1	0.0000	0	3.405	1318.5	1467.4	7.45	0.005839132	0.0058	0.243	0.0000	0.0014	0.0435	0.7000	5.21920	5.215000	0.155	0
2	0.0000	0	3.451	1291.2	1437.0	14.90	0.005717396	0.0057	0.183	0.0000	0.0010	0.0426	0.7000	5.21990	10.430000	0.126	0
3	0.0000	0	3.517	1276.1	1420.2	22.35	0.005652828	0.0057	0.137	0.0000	0.0008	0.0421	0.7000	5.21780	15.645000	0.103	0
4	0.0000	0	3.598	1273.4	1417.2	29.80	0.005637862	0.0056	0.103	0.0000	0.0006	0.0420	0.7000	5.22060	20.860000	0.086	0
5	0.0000	0	3.652	1269.8	1413.2	37.25	0.005624212	0.0056	0.077	0.0000	0.0004	0.0419	0.7000	5.21850	26.075000	0.071	0
6	0.0373	335	2.638	899.7	1001.3	44.70	0.003984944	0.0090	0.057	2.5650	0.0005	0.0670	0.7000	5.21850	31.290000	0.059	3.792857143
7	0.0949	850	0.229	77.3	86.0	52.15	0.000342352	0.0131	0.043	4.9020	0.0006	0.0975	0.7000	5.21710	36.51	0.049	7.98
8	0.1026	917	-0.078	-26.3	-29.3	59.60	-0.00011658	0.0136	0.032	3.9360	0.0004	0.1017	0.7000	5.21990	41.72	0.041	7.204285714
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Test Set #2

Test Set name (e.g., Eco, Power):	
Production Volume (projected or actual):	

ENTER CHARGE-SUSTAINING TEST RESULTS HERE

	City	Highway
Fuel Economy, Unadjusted (MPG):		
Fuel Economy, Adjusted (MPG):		
CREE (g/mi):		
CO2, Unadjusted (g/mi):		
CO2, Adjusted (g/mi):		

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
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Recharge energy (AC kilowatt-hours):						
All-Electric Range (miles):						
Calculated transition cycle: ERROR			To override transition cycle, enter here--->			

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
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Recharge energy (AC kilowatt-hours):						
All-Electric Range (miles):						
Calculated transition cycle: ERROR			To override transition cycle, enter here--->			

Results from Test Set #2: 0

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:	City	Highway	Combined
1. Default 50/50 Composite MPGe [4]	-	-	-
2. Optional Utility Factor Composite MPGe [4]	-	-	-
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	-	-	-
GHG Values	City	Highway	Combined
Composite CREE, without upstream emissions [1]	0.0	0.0	0.0
Label Values (5-Cycle Adjusted)			
Charge-Depleting			Combined
CD range, adjusted (miles) [0]			0
CD All-Electric Range, adjusted (mi) [0]			0
Total Driving Range (Miles) [0]			0
CD Fuel Economy (MPGe) [0]			0
CD Electricity Consumption (kW-hr/100mi) [0]			0
CD Gasoline Consumption (gal/100mi) [0]			0
Charge-Sustaining			Combined
CS Fuel Economy (MPG) [0]	0.0000	0.0000	0
CS Fuel Consumption (gal/100mi) [1]	0.0	0.0	0
Composite CD/CS			Combined
Annual Fuel Cost ($/year) [0]			-
5-Year Fuel Savings Value ($/5 years) [0]			7,500
Composite CO2 (g/mi) [0]			0
Composite Fuel Economy (MPG) [0]			0
HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda [3]	0.000	0.000	
Composite CD/CS Fuel Economy (MPGe) [4]	0.0000	0.0000	0.0000
Trends Report Values	City	Highway	Combined
Fleet Utility Factor (43/57) [3]	0.000	0.000	0.0000
Unadjusted Fuel Economy (MPG) [4]	0.0000	0.0000	0.0000
Unadjusted GHG (g/mi) [1]	-	-	-
Adjusted Fuel Economy (MPG) [4]	0.0000	0.0000	0.0000
Adjusted GHG (g/mi) [1]	0.0	0.0	0.0

INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #2: 0

Charge-Depleting (CD) Test Results		CITY	HIGHWAY
	DRIVING DISTANCE VALUES	CITY	HIGHWAY
	CD driving distance (Rcda), unadjusted (miles) [3]	0.000	0.000
	CD driving distance (Rcda), adjusted (miles) [3]	0.000	0.000
	CD all-electric driving distance, unadjusted (miles) [3]	0.000	0.000
	CD All-Electric Range, adjusted (mi) [3]	0.000	0.000
	FUEL CONSUMPTION & ECONOMY VALUES	CITY	HIGHWAY
NEW	CD AC electricity consumption (Rcdc), unadjusted (Watt-hours) [1]	0.0	0.0
	CD AC electricity consumption rate (Rcda), adjusted (kW-hr/100mi) [3]	0.000	0.000
	CD test total DC energy consumed, unadjusted (Watt-hours) [1]	0.0	0.0
NEW	CD Rcda total fuel consumption (Rcda), unadjusted (gal equiv) [4]	0.0000	0.0000
	CD utilitized total fuel consumption rate (55/45 FUF, Rcdc), unadjusted (gal-equiv/mile) [6]	0.000000	0.000000
NEW	CD utilitized total fuel consumption rate (43/57 FUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.000000	0.000000
NEW	CD utilitized total fuel consumption rate (MDIUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.000000	0.000000
	CD gasoline consumption (Rcda), adjusted (gal) [1]	0	0
	CD fuel economy (Rcda), adjusted (MPGe) [4]	0.0000	0.0000
	CD gasoline consumption rate (Rcda), adjusted (gal/100mi) [4]	0.0000	0.0000
NEW	CD fuel economy (Rcda), unadjusted (MPGe) [4]	0	0
NEW	CD AC electricity consumption rate (Rcda), unadjusted (kW-hr/100mi) [3]	0	0
	GHG EMISSIONS VALUES	CITY	HIGHWAY
	CD CO2 emissions rate (Rcda), unadjusted (g/mi) [1]	0.0	0.0
NEW	CD CO2 emissions rate (Rcda), adjusted (g/mi) [1]	0.0	0.0
NEW	CD utilitized CO2 (MDIUF, Rcdc), adjusted (g/mi) [1]	0.0	0.0
	CD utilitized CREE (55/45 FUF, Rcdc), unadjusted (g/mi) [1]	0.0	0.0
NEW	CD utilitized CREE (43/57 FUF, Rcdc), adjusted (g/mi) [1]	0.0	0.0
	UTILITY FACTORS & OTHER METRICS	CITY	HIGHWAY
	CD 55/45 Fleet Utility Factor (FUF) for Rcdc [3]	0.000	0.000
	MDIUF based on adjusted Rcda [3]	0.000	0.000
	MDIUF based on adjusted Rcdc [3]	0.000	0.000
	Fraction of transition cycle that is charge-depleting operation (Zn) [3]	#VALUE!	#VALUE!
	Number of last cycle number with charge-depleting operation (transition cycle) [0]	EOT ERROR	EOT ERROR
Intermediate Results Requiring Charge-Sustaining (CS) Test Results or Other Inputs			
	DRIVING DISTANCE VALUES	CITY	HIGHWAY
	CD Equivalent All-Electric Range (EAER), Unadjusted (mi) [3]	#VALUE!	#VALUE!
	Charge-sustaining driving range, adjusted (mi) [3]	0.000	0.000
	UTILITY FACTORS & OTHER METRICS	CITY	HIGHWAY
	CD 55/45 Fleet Utility Factor (FUF) for EAER [3]	#VALUE!	#VALUE!
	FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	CITY	HIGHWAY
	CD cost per mile - electricity ($/mi) [3]	$ -	$ -
	CD cost per mile - gasoline ($/mi) [3]	#VALUE!	#VALUE!
	CD total cost per mile ($/mi) [3]	#VALUE!	#VALUE!
	CS cost per mile ($/mi) [3]	#VALUE!	#VALUE!
	Composite CD/CS cost ($/mi) [3]	#VALUE!	#VALUE!
	COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	CITY	HIGHWAY
	Composite CD/CS CO2, adjusted (g/mi) [1]	0.0	0.0
	Composite CD/CS Fuel Economy, adjusted (MPG) [4]	0	0

DETAILED CALCULATIONS — UDDS — 0

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoretical Cumulative Cycle Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas + electric)	55/45 City Fleet Utility Factor [3]	55/45 City FUF x CREE	55/45 City FUF x Total Consumption	Total Fuel Consumption (gas + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi
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Test Set #3

Test Set name (e.g., Eco, Power):	
Production Volume (projected or actual):	

ENTER CHARGE-SUSTAINING TEST RESULTS HERE

	City	Highway
Fuel Economy, Unadjusted (MPG):		
Fuel Economy, Adjusted (MPG):		
CREE (g/mi):		
CO2, Unadjusted (g/mi):		
CO2, Adjusted (g/mi):		

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
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Recharge energy (AC kilowatt-hours):						
All-Electric Range (miles):						
Calculated transition cycle: ERROR			To override transition cycle, enter here--->			

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
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Recharge energy (AC kilowatt-hours):						
All-Electric Range (miles):						
Calculated transition cycle: ERROR			To override transition cycle, enter here--->			

Results from Test Set #3: 0

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:	City	Highway	Combined
1. Default 50/50 Composite MPGe [4]	-	-	-
2. Optional Utility Factor Composite MPGe [4]	-	-	-
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	-	-	-
GHG Values	City	Highway	Combined
Composite CREE, without upstream emissions [1]	0.0	0.0	0.0
Label Values (5-Cycle Adjusted)			
Charge-Depleting			Combined
CD range, adjusted (miles) [0]			0
CD All-Electric Range, adjusted (mi) [0]			0
Total Driving Range (Miles) [0]			0
CD Fuel Economy (MPGe) [0]			0
CD Electricity Consumption (kW-hr/100mi) [0]			0
CD Gasoline Consumption (gal/100mi) [0]			0
Charge-Sustaining			Combined
CS Fuel Economy (MPG) [0]	0.0000	0.0000	0
CS Fuel Consumption (gal/100mi) [1]	0.0	0.0	0
Composite CD/CS			Combined
Annual Fuel Cost ($/year) [0]			-
5-Year Fuel Savings Value ($/5 years) [0]			7,500
Composite CO2 (g/mi) [0]			0
Composite Fuel Economy (MPG) [0]			0
HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda [3]	0.000	0.000	
Composite CD/CS Fuel Economy (MPGe) [4]	0.0000	0.0000	0.0000
Trends Report Values	City	Highway	Combined
Fleet Utility Factor (43/57) [3]	0.000	0.000	0.0000
Unadjusted Fuel Economy (MPG) [4]	0.0000	0.0000	0.0000
Unadjusted GHG (g/mi) [1]	-	-	-
Adjusted Fuel Economy (MPG) [4]	0.0000	0.0000	0.0000
Adjusted GHG (g/mi) [1]	0.0	0.0	0.0

INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #3: 0

Charge-Depleting (CD) Test Results		CITY	HIGHWAY
	DRIVING DISTANCE VALUES	CITY	HIGHWAY
	CD driving distance (Rcda), unadjusted (miles) [3]	0.000	0.000
	CD driving distance (Rcda), adjusted (miles) [3]	0.000	0.000
	CD all-electric driving distance, unadjusted (miles) [3]	0.000	0.000
	CD All-Electric Range, adjusted (mi) [3]	0.000	0.000
	FUEL CONSUMPTION & ECONOMY VALUES	CITY	HIGHWAY
NEW	CD AC electricity consumption (Rcdc), unadjusted (Watt-hours) [1]	0.0	0.0
	CD AC electricity consumption rate (Rcda), adjusted (kW-hr/100mi) [3]	0.000	0.000
	CD test total DC energy consumed, unadjusted (Watt-hours) [1]	0.0	0.0
NEW	CD Rcda total fuel consumption (Rcda), unadjusted (gal equiv) [4]	0.0000	0.0000
	CD utilitized total fuel consumption rate (55/45 FUF, Rcdc), unadjusted (gal-equiv/mile) [6]	0.000000	0.000000
NEW	CD utilitized total fuel consumption rate (43/57 FUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.000000	0.000000
NEW	CD utilitized total fuel consumption rate (MDIUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.000000	0.000000
	CD gasoline consumption (Rcda), adjusted (gal) [1]	0	0
	CD fuel economy (Rcda), adjusted (MPGe) [4]	0.0000	0.0000
	CD gasoline consumption rate (Rcda), adjusted (gal/100mi) [4]	0.0000	0.0000
NEW	CD fuel economy (Rcda), unadjusted (MPGe) [4]	0	0
NEW	CD AC electricity consumption rate (Rcda), unadjusted (kW-hr/100mi) [3]	0	0
	GHG EMISSIONS VALUES	CITY	HIGHWAY
	CD CO2 emissions rate (Rcda), unadjusted (g/mi) [1]	0.0	0.0
NEW	CD CO2 emissions rate (Rcda), adjusted (g/mi) [1]	0.0	0.0
NEW	CD utilitized CO2 (MDIUF, Rcdc), adjusted (g/mi) [1]	0.0	0.0
	CD utilitized CREE (55/45 FUF, Rcdc), unadjusted (g/mi) [1]	0.0	0.0
NEW	CD utilitized CREE (43/57 FUF, Rcdc), adjusted (g/mi) [1]	0.0	0.0
	UTILITY FACTORS & OTHER METRICS	CITY	HIGHWAY
	CD 55/45 Fleet Utility Factor (FUF) for Rcdc [3]	0.000	0.000
	MDIUF based on adjusted Rcda [3]	0.000	0.000
	MDIUF based on adjusted Rcdc [3]	0.000	0.000
	Fraction of transition cycle that is charge-depleting operation (Zn) [3]	#VALUE!	#VALUE!
	Number of last cycle number with charge-depleting operation (transition cycle) [0]	EOT ERROR	EOT ERROR
Intermediate Results Requiring Charge-Sustaining (CS) Test Results or Other Inputs			
	DRIVING DISTANCE VALUES	CITY	HIGHWAY
	CD Equivalent All-Electric Range (EAER), Unadjusted (mi) [3]	#VALUE!	#VALUE!
	Charge-sustaining driving range, adjusted (mi) [3]	0.000	0.000
	UTILITY FACTORS & OTHER METRICS	CITY	HIGHWAY
	CD 55/45 Fleet Utility Factor (FUF) for EAER [3]	#VALUE!	#VALUE!
	FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	CITY	HIGHWAY
	CD cost per mile - electricity ($/mi) [3]	$ -	$ -
	CD cost per mile - gasoline ($/mi) [3]	#VALUE!	#VALUE!
	CD total cost per mile ($/mi) [3]	#VALUE!	#VALUE!
	CS cost per mile ($/mi) [3]	#VALUE!	#VALUE!
	Composite CD/CS cost ($/mi) [3]	#VALUE!	#VALUE!
	COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	CITY	HIGHWAY
	Composite CD/CS CO2, adjusted (g/mi) [1]	0.0	0.0
	Composite CD/CS Fuel Economy, adjusted (MPG) [4]	0	0

DETAILED CALCULATIONS — UDDS — 0

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoretical Cumulative Cycle Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas + electric)	55/45 City Fleet Utility Factor [3]	55/45 City FUF x CREE	55/45 City FUF x Total Consumption	Total Fuel Consumption (gas + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi
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MDIUF x Adjusted Total Fuel Consumption	43/57 City Fleet Utility Factor [3]	43/57 City FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
gal/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
0.001292951	0.198	0.00165164	0	CD	1.000	CD	1.000
0.001029131	0.159	0.001298666	0	CD	1.000	CD	0.495
0.000831773	0.126	0.001017509	0	CD	1.000	CD	0.328
0.000692652	0.100	0.000805409	0	CD	1.000	CD	0.247
0.000570456	0.080	0.000642767	0	CD	1.000	CD	0.198
0.000757724	0.063	0.000809095	4.05	CD	0.719	CD	0.123
0.000915684	0.050	0.000934372	8.142857143	CD	0.024	CS based on 2% b	0.010
0.000798831	0.040	0.000779348	7.028571429	CS based on 1%	-0.008	CS based on 2% b	-0.004
					1.000		1.000
					1.000		1.000
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					1.000		1.000
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DETAILED CALCULATIONS | **HFET** | **Eco**

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoretical Cumulative Cycle Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas + electric)	55/45 Highway Fleet Utility Factor [3]	55/45 Highway FUF x CREE	55/45 Highway FUF x Total Consumption	Total Fuel Consumption (gas + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 Highway Fleet Utility Factor [3]	FUF x Adjusted Total Fuel Consumption Rate	43/57 Highway FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi	gal-equiv	UF	gal-equiv	g/mi	CD or CS		CD or CS	
1	0.0000	0.0000	4.986	1920.6000	2129.4000	10.30	0.006166674	0.0062	0.123	0.0000	0.0008	0.0632	0.7000	7.172	7.21	0.2060000	0	0.001814764	0.0970	0.000854525	0	CD	1.000	CD	1.000
2	0.0000	0.0000	5.14	1885.4000	2090.4000	20.60	0.00605314	0.0061	0.117	0.0000	0.0007	0.0620	0.7000	7.172	14.42	0.1560000	0	0.001348985	0.0940	0.00081285	0	CD	1.000	CD	0.495
3	0.0000	0.0000	5.328	1883.4000	2088.1000	30.90	0.00604648	0.0060	0.105	0.0000	0.0006	0.0620	0.7000	7.172	21.63	0.1190000	0	0.001027902	0.0870	0.000751491	0	CD	1.000	CD	0.331
4	0.0230	205.0000	4.779	1644.0000	1822.7000	41.20	0.005277965	0.0075	0.092	1.8400	0.0007	0.0771	0.7000	7.172	28.84	0.0920000	2.628571429	0.000988689	0.0800	0.00085973	2.285714286	CD	2.133	CD	0.224
5	0.1596	1434.0000	-0.457	-154.9000	-171.7000	51.50	-0.00049719	0.0151	0.079	11.0600	0.0012	0.1545	0.7000	7.172	36.05	0.0720000	14.4	0.001550997	0.0720	0.001550997	14.4	CD	-0.029	CD	-0.022
6	0.1462	1312.0000	-0.021	-7.1000	-7.9000	61.80	-2.2871E-05	0.0142	0.067	8.5760	0.0010	0.1460	0.7000	7.174	43.26	0.0560000	10.24	0.001139397	0.0640	0.001302168	11.70285714	CD	-0.016	CD	-0.023
7																							1.000		1.000
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MDIUF x Adjusted Total Fuel Consumption	43/57 City Fleet Utility Factor [3]	43/57 City FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
gal/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
					1.000		1.000
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DETAILED CALCULATIONS | **HFET** | **0**

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoretical Cumulative Cycle Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas + electric)	55/45 Highway Fleet Utility Factor [3]	55/45 Highway FUF x CREE	55/45 Highway FUF x Total Consumption	Total Fuel Consumption (gas + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 Highway Fleet Utility Factor [3]	FUF x Adjusted Total Fuel Consumption Rate	43/57 Highway FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi	gal-equiv	UF	gal-equiv	g/mi	CD or CS		CD or CS	
1																							1.000		1.000
2																							1.000		1.000
3																							1.000		1.000
4																							1.000		1.000
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34																							1.000		1.000
35																							1.000		1.000

MDIUF x Adjusted Total Fuel Consumption	43/57 City Fleet Utility Factor [3]	43/57 City FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
gal/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000
					1.000		1.000

DETAILED CALCULATIONS | **HFET** | **0**

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoretical Cumulative Cycle Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas + electric)	55/45 Highway Fleet Utility Factor [3]	55/45 Highway FUF x CREE	55/45 Highway FUF x Total Consumption	Total Fuel Consumption (gas + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 Highway Fleet Utility Factor [3]	FUF x Adjusted Total Fuel Consumption Rate	43/57 Highway FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi	gal-equiv	UF	gal-equiv	g/mi	CD or CS		CD or CS	
1																							1.000		1.000
2																							1.000		1.000
3																							1.000		1.000
4																							1.000		1.000
5																							1.000		1.000
6																							1.000		1.000
7																							1.000		1.000
8																							1.000		1.000
9																							1.000		1.000
10																							1.000		1.000
11																							1.000		1.000
12																							1.000		1.000
13																							1.000		1.000
14																							1.000		1.000
15																							1.000		1.000
16																							1.000		1.000
17																							1.000		1.000
18																							1.000		1.000
19																							1.000		1.000
20																							1.000		1.000
21																							1.000		1.000
22																							1.000		1.000
23																							1.000		1.000
24																							1.000		1.000
25																							1.000		1.000
26																							1.000		1.000
27																							1.000		1.000
28																							1.000		1.000
29																							1.000		1.000
30																							1.000		1.000
31																							1.000		1.000
32																							1.000		1.000
33																							1.000		1.000
34																							1.000		1.000
35																							1.000		1.000