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 ←	53.4778	65.8869	58.4299
2. Optional Utility Factor Composite MPGe	63.0393	51.2963	57.1517
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composity MPGe	48.9113	46.1275	47.6181
Based on the all-electric range, is this PHEV a dual fuel vehicle for CAFE?			YES
	City	Highway	Combined
All-Electric Range (miles, unadjusted)	23.60	25.30	24.4

GHG Values	City	Highway	Combined
Composite CREE, no DF (g/mi)	116.5	161.1	136.6

Label Values (5-Cycle Adjusted)			
Charge-Depleting	City	Highway	Combined
Charge-depleting Range (Miles)	17.66	18.11	18
All-Electric Range (Miles)	16.55	17.72	17
Total Driving Range (Miles)			340
CD Fuel Economy (MPGe)	58.7567	61.4548	60
CD Electricity Consumption (kW-hr/100mi)	57.4770	54.4640	56.1212
CD Gasoline Consumption (gal/100mi)	0.0	0.0	0.0
Charge-Sustaining	City	Highway	Combined
CS Fuel Economy (MPG)	21.3	27.4	24
CS Fuel Consumption (gal/100mi)	4.7	3.6	4.2
Composite CD/CS	City	Highway	Combined
Annual Fuel Cost ($/year)		$	1,650
5-Year Fuel Savings Value ($/5 years)		You SPEND: $	750
Composite CO2 (g/mi)	216.7	187.7	204
Composite Fuel Economy (MPG)	29.0325	35.4042	32
MPG Rating (on scale of 1-10)			7
GHG Rating (on scale of 1-10)			9

Label Inputs Based on Model Year and Fuel Type (generally these should not be changed)		
Gasoline cost ($/gallon)	$	3.25
Electricity cost ($/kW-hour)	$	0.13
Average vehicle 5-year cost ($)	$	7,500
Average vehicle MPG		27

ENTER BASIC VEHICLE INFORMATION HERE

Vehicle Information	
Model year:	2021
Vehicle category:	LT
Manufacturer name:	BMW
Model name:	X3 xDrive30e
Liquid fuel type:	Premium Unleaded
Additional descriptors as needed:	
Fuel tank size (U.S. gallons)	13.2
Deterioration Factors for GHG (CREE) Values (optional)	
Select the type of DF to apply:	None
Enter a single DF for City and Highway:	
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

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	
Fleet Utility Factor (43/57)	0.5910	0.2780	
Unadjusted Fuel Economy (MPG)	48.9113	46.1275	
Unadjusted GHG (g/mi)	116.5000	161.1000	
Adjusted Fuel Economy (MPG)	31.9043	31.3162	
Adjusted GHG (g/mi)	179.0	247.1	
HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda	0.5270	0.5380	
Composite CD/CS Fuel Economy (MPGe)	46.1	55.5	49.9

Fueleconomy.gov Values		
Charge-sustaining Efficiency		MPG
City FE (Guide) - Conventional Fuel		21
Hwy FE (Guide) - Conventional Fuel		27
Comb FE (Guide) - Conventional Fuel		24
City Unadj FE - Conventional Fuel		30.8
Hwy Unadj FE - Conventional Fuel		38.9
Comb Unadj FE - Conventional Fuel		33.9844
City Unrd Adj FE - Conventional Fuel		21.3424
Hwy Unrd Adj FE - Conventional Fuel		27.4208
Comb Unrd Adj FE - Conventional Fuel		23.7073
Charge-sustaining CO2		g/mi
City CO2 Rounded Adjusted		367
Hwy CO2 Rounded Adjusted		321
Comb CO2 Rounded Adjusted		346
*City CO2 Unadj		285.2
*Hwy CO2 Unadj		225.9
*Comb CO2 Unadj		258.5
*City CO2 Unrd Adj		367.2
*Hwy CO2 Unrnd Adj		320.8
*Comb CO2 Unrnd Adj		346.3
Charge-sustaining Driving Range (Adjusted)		
*Range1 - Model Type Driving Range - Conventional Fuel - City		282
*Range1 - Model Type Driving Range - Conventional Fuel - Hwy		362
Range1 - Model Type Driving Range - Conventional Fuel - Comb		318
Charge-depleting Efficiency	kW-hr/100mi	MPGe
City2 FE (Guide) - Alternative Fuel	57	59
Hwy2 Fuel FE (Guide) - Alternative Fuel	54	61
Comb2 Fuel FE (Guide) - Alternative Fuel	56	60
City2 Unadj FE - Alternative Fuel	40.5	83.1
Hwy2 Unadj FE - Alternative Fuel	38.4	87.8
Comb2 Unadj FE - Alternative Fuel	39.5550	85.1512
City2 Unrd Adj FE - Alternative Fuel	57.4770	58.7567
Hwy2 Unrd Adj FE - Alternative Fuel	54.4640	61.4548
Cmb2 Unrd Adj FE - Alternative Fuel	56.1212	59.9409
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)		17.66
Hwy Range on Electricity (miles)		18.11
Comb Range on Electricity as shown on FE Label (miles)		18
All-Electric Driving Range (Adjusted)		miles
City All-Electric Range		16.55
Hwy All-Electric Range		17.72
Comb All-Electric Range as shown on FE Label (miles)		17.0
Charge-depleting Utility Factors		UF
City Utility Factor (MDIUF)		0.419
Hwy Utility Factor (MDIUF)		0.427
Comb Utility Factor (MDIUF)		0.423
Composite Efficiency (Adjusted)		MPGe
City PHEV Composite MPGe		29
Hwy PHEV Composite MPGe		35
Comb PHEV Composite MPGe		32
Composite CO2 (Adjusted)		g/mi
City CO2-PHEV Composite Rounded Adjusted Combined CO2		217
Hwy CO2-PHEV Composite Rounded Adjusted Combined CO2		188
CO2-PHEV Composite Rounded Adjusted Combined CO2		204
PHEV Total Driving Range (Adjusted)		miles
		340

Test Set #1

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

ENTER CHARGE-SUSTAINING TEST RESULTS HERE	City	Highway
Fuel Economy, Unadjusted (MPG):	30.8	38.9
Fuel Economy, Adjusted (MPG):	21.3424	27.4208
CREE (g/mi):	285.9	226.0
CO2, Unadjusted (g/mi):	285	226
CO2, Adjusted (g/mi):	367.2	320.8
CS FE Method:	5C FE	

Test Number: LBMX10062421

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	7.461	6.835	389.40		0	0	
2	7.440	13.715	369.40		0	0	
3	7.449	21.108	354.50		0	0	
4	7.458	23.725	348.00	43.1	203	204	
5	7.453	24.111	346.95	31.8	276	276	
6	7.455	23.825	346.85	28.3	310	310	
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34							
35							
					Recharge energy (AC kilowatt-hours):	10.151	
					All-Electric Range (miles):	23.640	
Calculated transition cycle: 4			To override transition cycle, enter here--->				

Test Number: LBMX10062383

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	10.250	8.768	385.55		0	0
2	10.262	17.878	359.95		0	0
3	10.249	22.639	348.50	70.0	125	125
4	10.264	22.632	347.50	38.0	231	231
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35						
					Recharge energy (AC kilowatt-hours):	9.864
					All-Electric Range (miles):	25.314
Calculated transition cycle: 3			To override transition cycle, enter here--->			

Results from Test Set #1: 0

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:	City	Highway	Combined
1. Default 50/50 Composite MPGe [4]	53.4778	65.8869	58.4299
2. Optional Utility Factor Composite MPGe [4]	63.0393	51.2963	57.1517
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	48.9113	46.1275	47.6181
GHG Values	City	Highway	Combined
Composite CREE, (g/mi) [1]	116.5	161.1	136.6
Label Values (5-Cycle Adjusted)			
Charge-Depleting			Combined
CD range, adjusted (miles) [0]			18
CD All-Electric Range, adjusted (mi) [0]			17
Total Driving Range (Miles) [0]			340
CD Fuel Economy (MPGe) [0]			60
CD Electricity Consumption (kW-hr/100mi) [0]			56
CD Gasoline Consumption (gal/100mi) [0]			0
Charge-Sustaining			Combined
CS Fuel Economy (MPG) [0]	21.3424	27.4208	24
CS Fuel Consumption (gal/100mi) [1]	4.7	3.6	4.2
Composite CD/CS			Combined
Annual Fuel Cost ($/year) [0]			1,650
5-Year Fuel Savings Value ($/5 years) [0]			(750)
Composite CO2 (g/mi) [0]			204
Composite Fuel Economy (MPG) [0]			32
HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda [3]	0.527	0.538	
Composite CD/CS Fuel Economy (MPGe) [4]	46.0908	55.5407	49.9123
Trends Report Values	City	Highway	Combined
Fleet Utility Factor (43/57) [3]	0.591	0.278	0.4502
Unadjusted Fuel Economy (MPG) [4]	48.9113	46.1275	47.6181
Unadjusted GHG (g/mi) [1]	116.5	161.1	136.6
Adjusted Fuel Economy (MPG) [4]	31.9043	31.3162	31.6369
Adjusted GHG (g/mi) [1]	179.0	247.1	209.6

INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #1: 0

Charge-Depleting (CD) Test Results	CITY	HIGHWAY
DRIVING DISTANCE VALUES	CITY	HIGHWAY
CD driving distance (Rcda), unadjusted (miles) [3]	24.990	25.872
CD driving distance (Rcda), adjusted (miles) [3]	17.661	18.111
CD all-electric driving distance, unadjusted (miles) [3]	23.640	25.314
CD All-Electric Range, adjusted (mi) [3]	16.548	17.720
FUEL CONSUMPTION & ECONOMY VALUES	CITY	HIGHWAY
NEW CD AC electricity consumption (Rcdc), unadjusted (Watt-hours) [1]	10110.9	9866.9
CD AC electricity consumption rate (Rcda), adjusted (kW-hr/100mi) [3]	57.477	54.464
CD test total DC energy consumed, unadjusted (Watt-hours) [1]	8768.9	8316.4
NEW CD Rcda total fuel consumption (Rcda), unadjusted (gal equiv) [4]	0.3006	0.2947
CD utilitized total fuel consumption rate (55/45 FUF, Rcdc), unadjusted (gal-equiv/mile) [6]	0.009601	0.004841
NEW CD utilitized total fuel consumption rate (43/57 FUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.012180	0.005602
NEW CD utilitized total fuel consumption rate (MDIUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.009939	0.009318
CD gasoline consumption (Rcda), unadjusted (gal) [1]	0	0
CD fuel economy (Rcda), adjusted (MPGe) [4]	58.7567	61.4548
CD gasoline consumption rate (Rcda), adjusted (gal/100mi) [4]	0.0000	0.0000
NEW CD fuel economy (Rcda), unadjusted (MPGe) [4]	83.1397	87.7897
NEW CD AC electricity consumption rate (Rcda), unadjusted (kW-hr/100mi) [3]	40.54	38.393
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]	24.7	21.2
CD utilitized CREE (55/45 FUF, Rcdc), unadjusted (g/mi) [1]	21.0	13.1
NEW CD utilitized CREE (43/57 FUF, Rcdc), adjusted (g/mi) [1]	28.8	15.5
UTILITY FACTORS & OTHER METRICS	CITY	HIGHWAY
CD 55/45 Fleet Utility Factor (FUF) for Rcdc [3]	0.666	0.345
MDIUF based on adjusted Rcda [3]	0.419	0.427
MDIUF based on adjusted Rcdc [3]	0.477	0.481
Fraction of transition cycle that is charge-depleting operation (Zn) [3]	0.354	0.523
Number of last cycle number with charge-depleting operation (transition cycle) [0]	4	3
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]	24.990	25.872
Charge-sustaining driving range, adjusted (mi) [3]	281.720	361.955
UTILITY FACTORS & OTHER METRICS	CITY	HIGHWAY
CD 55/45 Fleet Utility Factor (FUF) for EAER [3]	0.603	0.295
FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	CITY	HIGHWAY
CD cost per mile - electricity ($/mi) [3]	$ 0.075	$ 0.071
CD cost per mile - gasoline ($/mi) [3]	$ -	$ -
CD total cost per mile ($/mi) [3]	$ 0.075	$ 0.071
CS cost per mile ($/mi) [3]	$ 0.152	$ 0.119
Composite CD/CS cost ($/mi) [3]	$ 0.120	$ 0.099
COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	CITY	HIGHWAY
Composite CD/CS CO2, adjusted (g/mi) [1]	216.7	187.7
Composite CD/CS Fuel Economy, adjusted (MPG) [4]	29.0325	35.4042

DETAILED CALCULATIONS	
Cycle No.	Gasoline Consumed
No.	gal
1	0.0000
2	0.0000
3	0.0000
4	0.1730
5	0.2344
6	0.2634
7	
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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]
1						
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3						
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35						
					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]
1						
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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	
Cycle No.	Gasoline Consumed
No.	gal
1	
2	
3	
4	
5	
6	
7	
8	
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10	
11	
12	
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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]
1						
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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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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!

DETAILED CALCULATIONS	
Cycle No.	Gasoline Consumed
No.	gal
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UDDS	0																							
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	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
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/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
0	6.835	2661.5	3081.0	7.45	0.012251812	0.0123	0.243	0.0000	0.0030	0.0914	0.7000	5.22270	5.215000	0.155	0	0.002712901	0.198	0.003465513	0	CD	1.000	CD	1.000
0	6.880	2541.5	2942.1	14.90	0.011732489	0.0117	0.183	0.0000	0.0021	0.0873	0.7000	5.20800	10.430000	0.126	0	0.002111848	0.159	0.002664951	0	CD	1.000	CD	0.488
0	7.393	2620.8	3033.9	22.35	0.012083951	0.0121	0.137	0.0000	0.0017	0.0900	0.7000	5.21430	15.645000	0.103	0	0.001778067	0.126	0.002175111	0	CD	1.000	CD	0.335
1514	2.616	910.4	1053.9	29.80	0.004192593	0.0274	0.103	21.0120	0.0028	0.2043	0.7637	5.69558	21.334469	0.093	24.72085779	0.003336031	0.108	0.003087764	28.84951209	CD	0.157	CD	0.104
2057	0.386	133.9	155.0	37.25	0.00061703	0.0321	0.077	21.2520	0.0025	0.2390	0.7766	5.78788	27.120022	0.076	27.01059133	0.003137884	0.086	0.003350764	30.56461655	CD	0.017	CS based on 2%	0.015
2311	-0.286	-99.2	-114.8	44.70	-0.00045688	0.0349	0.057	17.6700	0.0020	0.2600	0.7828	5.83611	32.952218	0.063	24.94746265	0.002806896	0.067	0.002985112	26.53142854	CD	-0.011	CS based on 2%	-0.011
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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]	43/57 Highway 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	8.768	3380.5000	4009.6000	10.30	0.011606008	0.0116	0.123	0.0000	0.0014	0.1190	0.7000	7.375	7.21	0.2060000	0	0.003415482	0.0970	0.001608263		0 CD	1.000	CD	1.000
2	0.0000	0.0000	9.11	3279.1000	3889.3000	20.60	0.011244628	0.0112	0.117	0.0000	0.0013	0.1154	0.7000	7.183	14.42	0.1560000	0	0.002505946	0.0940	0.001509993		0 CD	1.000	CD	0.492
3	0.1464	1281.0000	4.761	1659.2000	1968.0000	30.90	0.00569704	0.0200	0.105	13.1250	0.0021	0.2048	0.7000	7.174	21.63	0.1190000	21.25	0.003397068	0.0870	0.002483571	15.53571429	CD	0.338	CD	0.199
4	0.2701	2371.0000	-0.007	-2.4000	-2.8000	41.20	-8.0937E-06	0.0263	0.092	21.2520	0.0024	0.2700	0.7063	7.250	28.91	0.0930000	30.41553055	0.003463907	0.0810	0.003016951	26.49094596	CS based on 1%	0.000	CS based on 2%	0.000
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UDDS	0																							
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	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
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/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
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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]	43/57 Highway 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	
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UDDS	0																							
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	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
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/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
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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]	43/57 Highway 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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35																							1.000		1.000