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	60.3449	77.8075	67.1241
→	**2. Optional Utility Factor Composite MPGe**	**92.5857**	**70.8637**	**81.3626** ←
	B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
	1. Utility Factor Composity MPGe	64.8536	59.9005	62.5270

Based on the all-electric range, is this PHEV a dual fuel vehicle for CAFE?			YES
	City	Highway	Combined
All-Electric Range (miles, unadjusted)	36.60	40.40	38.3

GHG Values	City	Highway	Combined
Composite CREE, no DF (g/mi)	68.5	112.6	88.3
Composite CREE, with DF (g/mi)	**82.5**	**117.6**	**98.3**

Label Values (5-Cycle Adjusted)

	Charge-Depleting	City	Highway	Combined
	Charge-depleting Range (Miles)	26.09	28.72	**27**
	All-Electric Range (Miles)	25.63	28.31	**27**
	Total Driving Range (Miles)			**440**
	AUDI wants to adjust the electric Range by 11%		e-Range DF	0.890
DF	Charge-depleting Range (Miles)	23.2201	25.55724	**24**
DF	All-Electric Range (Miles)	22.80714	25.19145	**24**
DF	Total Driving Range (Miles)			**440**
	CD Fuel Economy (MPGe)	64.0210	74.0048	**68**
	CD Electricity Consumption (kW-hr/100mi)	48.9270	42.9830	**46.2522**
	CD Gasoline Consumption (gal/100mi)	0.1	0.1	**0.1**
	Charge-Sustaining	**City**	**Highway**	**Combined**
	CS Fuel Economy (MPG)	26.3	33.8	**29**
	CS Fuel Consumption (gal/100mi)	3.8	3.0	**3.4**
	Composite CD/CS	**City**	**Highway**	**Combined**
	Annual Fuel Cost ($/year)			**$ 1,250**
	5-Year Fuel Savings Value ($/5 years)		You SAVE:	**$ 1,250**
	Composite CO2 (g/mi)	157.6	116.9	**139**
	Composite Fuel Economy (MPG)	38.7911	48.2418	**43**
	MPG Rating (on scale of 1-10)			**9**
	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 ($/gallon)	**$ 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:	PV
Manufacturer name:	AUDI AG
Model name:	A7 55 TFSI e quattro PHEV
Liquid fuel type:	Premium Unleaded
Additional descriptors as needed:	
Fuel tank size (U.S. gallons)	14.0

Deterioration Factors for GHG (CREE) Values (o Yes

Select the type of DF to apply:	Multiplicative
Enter a single DF for City and Highway:	
Enter a City DF :	1.2041
Enter a Highway DF:	1.0444

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)	0.7320	0.4300	
Unadjusted Fuel Economy (MPG)	64.8536	59.9005	
Unadjusted GHG (g/mi)	68.5000	112.6000	
Adjusted Fuel Economy (MPG)	43.4771	41.3333	
Adjusted GHG (g/mi)	117.0	172.8	
HOV Lane Values	**City**	**Highway**	**Combined**
MDIUF based on unadjusted Rcda	0.6550	0.6850	
Composite CD/CS Fuel Economy (MPGe)	58.4	74.6	64.7

Fueleconomy.gov Values		
Charge-sustaining Efficiency		**MPG**
City FE (Guide) - Conventional Fuel		26
Hwy FE (Guide) - Conventional Fuel		34
Comb FE (Guide) - Conventional Fuel		29
City Unadj FE - Conventional Fuel		34.6
Hwy Unadj FE - Conventional Fuel		45.5
Comb Unadj FE - Conventional Fuel		38.7806
City Unrd Adj FE - Conventional Fuel		26.2858
Hwy Unrd Adj FE - Conventional Fuel		33.8227
Comb Unrd Adj FE - Conventional Fuel		29.2154
Charge-sustaining CO2		**g/mi**
City CO2 Rounded Adjusted		336
Hwy CO2 Rounded Adjusted		260
Comb CO2 Rounded Adjusted		302
*City CO2 Unadj		255.0
*Hwy CO2 Unadj		194.0
*Comb CO2 Unadj		227.6
*City CO2 Unrd Adj		335.9
*Hwy CO2 Unrnd Adj		260.5
*Comb CO2 Unrnd Adj		302
Charge-sustaining Driving Range (Adjusted)		
*Range1 - Model Type Driving Range - Conventional Fuel - City		367
*Range1 - Model Type Driving Range - Conventional Fuel - Hwy		473
Range1 - Model Type Driving Range - Conventional Fuel - Comb		415
Charge-depleting Efficiency	**kW-hr/100mi**	**MPGe**
City2 FE (Guide) - Alternative Fuel	49	64
Hwy2 Fuel FE (Guide) - Alternative Fuel	43	74
Comb2 Fuel FE (Guide) - Alternative Fuel	46	68
City2 Unadj FE - Alternative Fuel	34.4	91.5
Hwy2 Unadj FE - Alternative Fuel	30.7	105.7
Comb2 Unadj FE - Alternative Fuel	32.7350	97.3875
City2 Unrd Adj FE - Alternative Fuel	48.9270	64.0210
Hwy2 Unrd Adj FE - Alternative Fuel	42.9830	74.0048
Cmb2 Unrd Adj FE - Alternative Fuel	46.2522	68.1588
Charge-depleting CO2		**g/mi**
City CO2 Rounded Adj		9
Hwy CO2 Rounded Adj		4
Comb CO2 Rounded Adj		7
*City CO2 Unadj		6.4
*Hwy CO2 Unadj		3
*Comb CO2 Unadj		4.9
*City CO2 Unrd Adj		9.2
*Hwy CO2 Unrnd Adj		4.3
*Comb CO2 Unrnd Adj		7
Charge-depleting Driving Range (Adjusted)		**miles**
City Range on Electricity (miles)		26.09
Hwy Range on Electricity (miles)		28.72
Comb Range on Electricity as shown on FE Label (miles)		27
All-Electric Driving Range (Adjusted)		**miles**
City All-Electric Range		25.63
Hwy All-Electric Range		28.30
Comb All-Electric Range as shown on FE Label (miles)		27.0
Charge-depleting Utility Factors		**UF**
City Utility Factor (MDIUF)		0.541
Hwy Utility Factor (MDIUF)		0.572
Comb Utility Factor (MDIUF)		0.555
Composite Efficiency (Adjusted)		**MPGe**
City PHEV Composite MPGe		39
Hwy PHEV Composite MPGe		48
Comb PHEV Composite MPGe		43
Composite CO2 (Adjusted)		**g/mi**
City CO2-PHEV Composite Rounded Adjusted Combined CO2		158
Hwy CO2-PHEV Composite Rounded Adjusted Combined CO2		117
CO2-PHEV Composite Rounded Adjusted Combined CO2		139
PHEV Total Driving Range (Adjusted)		**miles**
		440

Test Set #1

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

ENTER CHARGE-SUSTAINING TEST RESULTS HERE	City	Highway
Fuel Economy, Unadjusted (MPG):	34.6	45.5
Fuel Economy, Adjusted (MPG):	26.2858	33.8227
CREE (g/mi):	256.0	194.0
CO2, Unadjusted (g/mi):	255	194
CO2, Adjusted (g/mi):	335.9	260.5
Comment:	The values for CS UDDS(City) and SC03 where corrected with NEC-Correction-Calculations	

CHARGE-SUSTAINING TEST-NUMBERS	Mfr	EPA
FTP 4-bag	ING-08-20191217-15	MVGA10065744
HFET	ING-09-20191119-18	MVGA10065745
US06	ING-09-20191119-19	MVGA10065741
SC03	ING-08-20200207-15	MVGA10065743
Cold-CO	ING-09-20191115-12	MVGA10065742

Testnumber: ING-08-20191126-16

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	7.460	5.656	414.51	0.0	0	0
2	7.464	11.184	398.75	0.0	0	0
3	7.460	16.877	385.38	0.0	0	0
4	7.432	22.593	376.12	0.0	0	0
5	7.456	27.999	370.00	271.9	32	32
6	7.442	27.612	366.75	34.0	260	260
7	7.453	28.233	366.50	40.5	218	218
8	7.455	28.081	365.62	36.5	242	242
9	7.427	28.043	365.75	37.7	234	234
10	7.435	27.891	365.75	37.8	234	234
Recharge energy (AC kilowatt-hours):						12.765
All-Electric Range (miles):						36.609

Calculated transition cycle: 6 — To override transition cycle, enter here---> — Charge-Testnumber: ING-LS-03-20191126-02

Testnumber: ING-07-20191030-12

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	10.258	6.949	412.38	0.0	0	0
2	10.257	13.754	393.12	0.0	0	0
3	10.254	20.794	379.25	0.0	0	0
4	10.254	27.706	370.12	686.8	12	13
5	10.249	27.180	368.38	39.8	222	222
6	10.249	27.166	369.62	45.5	194	194
Recharge energy (AC kilowatt-hours):						12.343
All-Electric Range (miles):						40.436

Calculated transition cycle: 4 — To override transition cycle, enter here---> 5 — Charge-Testnumber: ING-LS-03-20191030-01

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]
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]
Recharge energy (AC kilowatt-hours):						
All-Electric Range (miles):						

Calculated transition cycle: ERROR — To override transition cycle, enter here--->

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]

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]

Results from Test Set #1: Hybrid

CAFE Values			
A. PHEV meets dual fuel criteria:	**City**	**Highway**	**Combined**
1. Default 50/50 Composite MPGe [4]	60.3449	77.8075	67.1241
2. Optional Utility Factor Composite MPGe [4]	92.5857	70.8637	81.3626
B. PHEV does NOT meet dual fuel criteria:	**City**	**Highway**	**Combined**
1. Utility Factor Composite MPGe [4]	64.8536	59.9005	62.5270
GHG Values	**City**	**Highway**	**Combined**
Composite CREE, (g/mi) [1]	**68.5**	**112.6**	**88.3**

Label Values (5-Cycle Adjusted)			
Charge-Depleting			**Combined**
CD range, adjusted (miles) [0]			**27**
CD All-Electric Range, adjusted (mi) [0]			**27**
Total Driving Range (Miles) [0]			**440**
CD Fuel Economy (MPGe) [0]			**68**
CD Electricity Consumption (kW-hr/100mi) [0]			**46**
CD Gasoline Consumption (gal/100mi) [0]			**0.1**
Charge-Sustaining			**Combined**
CS Fuel Economy (MPG) [0]	26.2858	33.8227	**29**
CS Fuel Consumption (gal/100mi) [1]	3.8	3.0	**3.4**
Composite CD/CS			**Combined**
Annual Fuel Cost ($/year) [0]			**1,250**
5-Year Fuel Savings Value ($/5 years) [0]			**1,250**
Composite CO2 (g/mi) [0]			**139**
Composite Fuel Economy (MPG) [0]			**43**
HOV Lane Values	**City**	**Highway**	**Combined**
MDIUF based on unadjusted Rcda [3]	0.655	0.685	
Composite CD/CS Fuel Economy (MPGe) [4]	58.3693	74.6164	64.7098
Trends Report Values	**City**	**Highway**	**Combined**
Fleet Utility Factor (43/57) [3]	0.732	0.430	0.5961
Unadjusted Fuel Economy (MPG) [4]	64.8536	59.9005	62.5270
Unadjusted GHG (g/mi) [1]	68.5	112.6	88.3
Adjusted Fuel Economy (MPG) [4]	43.4771	41.3333	42.4855
Adjusted GHG (g/mi) [1]	117.0	172.8	142.1

INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #1: Hybrid

Charge-Depleting (CD) Test Results

	DRIVING DISTANCE VALUES	CITY	HIGHWAY
	CD driving distance (Rcda), unadjusted (miles) [3]	37.272	41.023
	CD driving distance (Rcda), adjusted (miles) [3]	26.090	28.716
	CD all-electric driving distance, unadjusted (miles) [3]	36.609	40.436
	CD All-Electric Range, adjusted (mi) [3]	25.626	28.305
	FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
NEW	CD AC electricity consumption (Rcdc), unadjusted (Watt-hours) [1]	12644.4	12349.0
	CD AC electricity consumption rate (Rcda), adjusted (kW-hr/100mi) [3]	48.927	42.983
	CD test total DC energy consumed, unadjusted (Watt-hours) [1]	10853.5	10570.0
NEW	CD Rcda total fuel consumption (Rcda), unadjusted (gal equiv) [4]	0.4075	0.3880
	CD utilitized total fuel consumption rate (55/45 FUF, Rcdc), unadjusted (gal-equiv/mile) [6]	0.009639	0.006057
NEW	CD utilitized total fuel consumption rate (43/57 FUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.012805	0.007341
NEW	CD utilitized total fuel consumption rate (MDIUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.010752	0.010233
	CD gasoline consumption (Rcda), unadjusted (gal) [1]	0.02742185	0.014930111
	CD fuel economy (Rcda), adjusted (MPGe) [4]	64.0210	74.0048
	CD gasoline consumption rate (Rcda), adjusted (gal/100mi) [4]	0.1051	0.0520
NEW	CD fuel economy (Rcda), unadjusted (MPGe) [4]	91.4599	105.7215
NEW	CD AC electricity consumption rate (Rcda), unadjusted (kW-hr/100mi) [3]	34.372	30.654
	GHG EMISSIONS VALUES	**CITY**	**HIGHWAY**
	CD CO2 emissions rate (Rcda), unadjusted (g/mi) [1]	6.4	3.0
NEW	CD CO2 emissions rate (Rcda), adjusted (g/mi) [1]	9.2	4.3
NEW	CD utilitized CO2 (MDIUF, Rcdc), adjusted (g/mi) [1]	24.9	24.4
	CD utilitized CREE (55/45 FUF, Rcdc), unadjusted (g/mi) [1]	17.3	18.7
NEW	CD utilitized CREE (43/57 FUF, Rcdc), adjusted (g/mi) [1]	27.0	24.3
	UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
	CD 55/45 Fleet Utility Factor (FUF) for Rcdc [3]	0.800	0.516
	MDIUF based on adjusted Rcda [3]	0.541	0.572
	MDIUF based on adjusted Rcdc [3]	0.605	0.645
	Fraction of transition cycle that is charge-depleting operation (Zn) [3]	0.000	0.000
	Number of last cycle number with charge-depleting operation (transition cycle) [0]	6	5

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]	36.337	40.389
	Charge-sustaining driving range, adjusted (mi) [3]	367.280	473.013
	UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
	CD 55/45 Fleet Utility Factor (FUF) for EAER [3]	0.734	0.431
	FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	**CITY**	**HIGHWAY**
	CD cost per mile - electricity ($/mi) [3]	$ 0.064	$ 0.056
	CD cost per mile - gasoline ($/mi) [3]	$ 0.003	$ 0.002
	CD total cost per mile ($/mi) [3]	$ 0.067	$ 0.058
	CS cost per mile ($/mi) [3]	$ 0.124	$ 0.096
	Composite CD/CS cost ($/mi) [3]	$ 0.093	$ 0.074
	COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	**CITY**	**HIGHWAY**
	Composite CD/CS CO2, adjusted (g/mi) [1]	157.6	116.9
	Composite CD/CS Fuel Economy, adjusted (MPG) [4]	38.7911	48.2418

Results from Test Set #2: 0

CAFE Values			
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

	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

Results from Test Set #3: 0

CAFE Values			
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

	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

DETAILED CALCULATIONS	UDDS	Hybrid																					
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	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
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/mi equiv	UF	gal/mi equiv	g/mi	CD or CS	
1	0.0000	0	5.656	2344.5	2757.4	7.45	0.010966464	0.0110	0.243	0.0000	0.0027	0.0818	0.7000	5.22200	5.215000	0.155	0	0.002428288	0.198	0.003101943	0	CD	100.00%
2	0.0000	0	5.528	2204.3	2592.5	14.90	0.010305114	0.0103	0.183	0.0000	0.0019	0.0769	0.7000	5.22480	10.430000	0.126	0	0.001854921	0.159	0.002340733	0	CD	100.00%
3	0.0000	0	5.693	2194.0	2580.4	22.35	0.010262517	0.0103	0.137	0.0000	0.0014	0.0766	0.7000	5.22200	15.645000	0.103	0	0.001510056	0.126	0.001847253	0	CD	100.00%
4	0.0000	0	5.716	2149.9	2528.5	29.80	0.010093991	0.0101	0.103	0.0000	0.0010	0.0750	0.7000	5.20240	20.860000	0.086	0	0.001240119	0.100	0.001441999	0	CD	100.00%
5	0.0274	239	5.406	2000.2	2352.5	37.25	0.009361154	0.0130	0.077	2.4640	0.0010	0.0972	0.7000	5.21920	26.075000	0.071	3.245714286	0.001322525	0.080	0.001490169	3.657142857	CD	217.61%
6	0.2189	1935	-0.387	-141.9	-166.9	44.70	-0.00066538	0.0287	0.057	14.8200	0.0016	0.2139	0.7678	5.71401	31.795149	0.064	21.67216177	0.002396139	0.069	0.002583338	23.3652994	CD	-1.93%
7	0.1840	1625	0.621	227.6	267.7	52.15	0.00106567	0.0258	0.043	9.3740	0.0011	0.1920	0.7582	5.65079	37.44	0.052	14.9513954	0.00176653	0.053	0.001800502	15.23892223	CS based on 1% fuel energy	0.63%
8	0.2042	1804	-0.152	-55.6	-65.4	59.60	-0.00026028	0.0271	0.032	7.7440	0.0009	0.2023	0.7629	5.68713	43.13	0.043	13.64074336	0.001529622	0.042	0.00149405	13.32351677	CS based on 1% fuel energy	-0.81%
9	0.1970	1738	-0.038	-13.9	-16.3	67.05	-6.5115E-05	0.0265	0.025	5.8500	0.0007	0.1965	0.7606	5.64915	48.79	0.037	11.38276127	0.001287132	0.032	0.001113195	9.84455029	CS based on 1% fuel energy	-0.52%
10	0.1967	1740	-0.152	-55.6	-65.4	74.50	-0.00026098	0.0262	0.019	4.4460	0.0005	0.1948	0.7597	5.64849	54.45	0.030	9.240289185	0.001034361	0.026	0.000896447	8.008250627	CS based on 1% fuel energy	-0.84%
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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	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
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/mi equiv	UF	gal/mi equiv	g/mi	CD or CS	
1																							1.000
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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	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
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/mi equiv	UF	gal/mi equiv	g/mi	CD or CS	
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Current Cycle (n)	Current Cycle (n) + (n-1)	Current Cycle (n) + (n-1) + (n-2)	Current Cycle (n) + (n-1) + (n-2) + (n-3)	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
				CD or CS	
100.00%	100.00%	100.00%	100.00%	CD	1.000
100.00%	100.00%	100.00%	100.00%	CD	0.485
100.00%	100.00%	100.00%	100.00%	CD	0.325
100.00%	100.00%	100.00%	100.00%	CD	0.242
217.61%	451.50%	690.20%	930.01%	CD	0.184
-1.93%	22.51%	48.55%	75.12%	CS based on 2% battery energy	-0.013
3.69%	0.63%	14.46%	29.37%	CS based on 2% battery energy	0.008
-0.81%	1.32%	0.15%	9.55%	CS based on 2% battery energy	-0.005
-0.21%	-0.52%	0.81%	0.06%	CS based on 2% battery energy	-0.006
-0.84%	-0.53%	-0.62%	0.39%	CS based on 2% battery energy	-0.012
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				Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
				CD or CS	
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				Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
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DETAILED CALCULATIONS	HFET	Hybrid																				
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
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	
1	0.0000	0.0000	6.949	2865.6000	3346.3000	10.30	0.009678495	0.0097	0.123	0.0000	0.0012	0.0993	0.7000	7.181	7.21	0.2060000	0	0.002848243	0.0970	0.001341163	0	CD	100.00%
2	0.0000	0.0000	6.805	2675.2000	3123.9000	20.60	0.009036129	0.0090	0.117	0.0000	0.0011	0.0927	0.7000	7.180	14.42	0.1560000	0	0.002013766	0.0940	0.001213423	0	CD	100.00%
3	0.0000	0.0000	7.04	2669.9000	3117.7000	30.90	0.009020834	0.0090	0.105	0.0000	0.0009	0.0925	0.7000	7.178	21.63	0.1190000	0	0.001533542	0.0870	0.001121161	0	CD	100.00%
4	0.0149	123.0000	6.912	2558.3000	2987.4000	41.20	0.00864382	0.0101	0.092	1.1960	0.0009	0.1036	0.7000	7.178	28.84	0.0920000	1.577142857	0.001327409	0.0800	0.001154268	1.485714286	CD	511.20%
5	0.2575	2275.0000	-0.526	-193.8000	-226.3000	51.50	-0.0006551	0.0245	0.079	17.5380	0.0019	0.2508	0.7018	7.193	36.07	0.0720000	22.77562992	0.002510503	0.0720	0.002510503	22.77562992	CD	-2.25%
6	0.2253	1988.0000	-0.014	-5.2000	-6.1000	61.80	-1.7659E-05	0.0220	0.067	12.9980	0.0015	0.2251	0.7000	7.174	43.28	0.0560000	15.52	0.001756829	0.0640	0.002007805	17.73714286	CD	-1.23%
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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
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	
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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
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	
1																							1.000
2																							1.000
3																							1.000
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Current Cycle (n)	Current Cycle (n) + (n-1)	Current Cycle (n) + (n-1) + (n-2)	Current Cycle (n) + (n-1) + (n-2) + (n-3)	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
				CD or CS	
100.00%	100.00%	100.00%	100.00%	CD	1.000
100.00%	100.00%	100.00%	100.00%	CD	0.483
100.00%	100.00%	100.00%	100.00%	CD	0.325
511.20%	1044.69%	1579.25%	2151.85%	CD	0.238
-2.25%	25.89%	55.13%	84.42%	CS based on 2% battery energy	-0.018
-0.07%	-1.23%	14.14%	30.15%	CS based on 2% battery energy	-0.019
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				Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
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				Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
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