ENTER/REPLACE DATA IN GREEN CELLS ONLY!

CALCULATED CAFE, GHG, AND LABEL VALUES

CAFE Values	City	Highway	Combined
✔ A. PHEV meets dual fuel criteria:			
1. Default 50/50 Composite MPGe	59.1401	69.0602	63.2271
→ 2. Optional Utility Factor Composite MPGe	82.3179	58.0794	69.3028 ←
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composity MPGe	58.6114	50.9022	54.8717

Based on the all-electric range, is this PHEV a dual fuel vehicle for CAFE?			YES
	City	Highway	Combined
All-Electric Range (miles, unadjusted)	31.70	33.00	32.3

GHG Values	City	Highway	Combined
Composite CREE, no DF (g/mi)	80.3	138.4	106.4
Composite CREE, with DF (g/mi)	**106.1**	**152.0**	**126.8**

Label Values (5-Cycle Adjusted)				
Charge-Depleting	**City**	**Highway**	**Combined**	
Charge-depleting Range (Miles)	33.24	22.97	**29**	
All-Electric Range (Miles)	22.21	23.11	**23**	
Total Driving Range (Miles)			**410**	
AUDI wants to adjust the electric Range by 16,5%		e-Range DF	0.835	
DF Charge-depleting Range (Miles)	*27.75*	*19.18*	*24*	**19**
DF All-Electric Range (Miles)	18.55	19.3	**19**	
DF Total Driving Range (Miles)			**400**	
CD Fuel Economy (MPGe)	43.0492	64.0089	**50**	
CD Electricity Consumption (kW-hr/100mi)	37.6430	52.3220	**44.2486**	
CD Gasoline Consumption (gal/100mi)	1.2	0.0	**0.7**	
Charge-Sustaining	**City**	**Highway**	**Combined**	
CS Fuel Economy (MPG)	25.3	28.7	**27**	
CS Fuel Consumption (gal/100mi)	4.0	3.5	**3.7**	
Composite CD/CS	**City**	**Highway**	**Combined**	
Annual Fuel Cost ($/year)			**$ 1,450**	
5-Year Fuel Savings Value ($/5 years)		You SAVE:	**$ 250**	
Composite CO2 (g/mi)	174.8	155.3	**166**	
Composite Fuel Economy (MPG)	35.7837	39.2974	**37**	
MPG Rating (on scale of 1-10)			**8**	
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:	LT
Manufacturer name:	AUDI AG
Model name:	Q5 55 TFSI e quattro PHEV
Liquid fuel type:	Premium Unleaded
Additional descriptors as needed:	
Fuel tank size (U.S. gallons)	✓ 14.3

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 :	1.3213
Enter a Highway DF:	1.0983

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)	0.7870	0.3580	
Unadjusted Fuel Economy (MPG)	58.6114	50.9022	
Unadjusted GHG (g/mi)	80.3000	138.4000	
Adjusted Fuel Economy (MPG)	39.5462	34.1009	
Adjusted GHG (g/mi)	134.8	218.4	
HOV Lane Values	**City**	**Highway**	**Combined**
MDIUF based on unadjusted Rcda	0.7200	0.6150	
Composite CD/CS Fuel Economy (MPGe)	49.5	61.9	54.4

Fueleconomy.gov Values		
Charge-sustaining Efficiency		**MPG**
City FE (Guide) - Conventional Fuel		25
Hwy FE (Guide) - Conventional Fuel		29
Comb FE (Guide) - Conventional Fuel		27
City Unadj FE - Conventional Fuel		34.4
Hwy Unadj FE - Conventional Fuel		40.9
Comb Unadj FE - Conventional Fuel		37.0479
City Unrd Adj FE - Conventional Fuel		25.2973
Hwy Unrd Adj FE - Conventional Fuel		28.6828
Comb Unrd Adj FE - Conventional Fuel		26.7163
Charge-sustaining CO2		**g/mi**
City CO2 Rounded Adjusted		349
Hwy CO2 Rounded Adjusted		308
Comb CO2 Rounded Adjusted		331
*City CO2 Unadj		256.5
*Hwy CO2 Unadj		216.1
*Comb CO2 Unadj		238.3
*City CO2 Unrd Adj		349.1
*Hwy CO2 Unrnd Adj		307.9
*Comb CO2 Unrnd Adj		330.5
Charge-sustaining Driving Range (Adjusted)		
*Range1 - Model Type Driving Range - Conventional Fuel - City		352
*Range1 - Model Type Driving Range - Conventional Fuel - Hwy		410
Range1 - Model Type Driving Range - Conventional Fuel - Comb		378
Charge-depleting Efficiency	**kW-hr/100mi**	**MPGe**
City2 FE (Guide) - Alternative Fuel	38	43
Hwy2 Fuel FE (Guide) - Alternative Fuel	52	64
Comb2 Fuel FE (Guide) - Alternative Fuel	44	50
City2 Unadj FE - Alternative Fuel	27.6	59.6
Hwy2 Unadj FE - Alternative Fuel	36.9	91.4
Comb2 Unadj FE - Alternative Fuel	31.7850	70.6634
City2 Unrd Adj FE - Alternative Fuel	37.6430	43.0492
Hwy2 Unrd Adj FE - Alternative Fuel	52.3220	64.0089
Cmb2 Unrd Adj FE - Alternative Fuel	44.2486	50.4889
Charge-depleting CO2		**g/mi**
City CO2 Rounded Adj		105
Hwy CO2 Rounded Adj		0
Comb CO2 Rounded Adj		58
*City CO2 Unadj		75.7
*Hwy CO2 Unadj		0
*Comb CO2 Unadj		41.6
*City CO2 Unrd Adj		104.9
*Hwy CO2 Unrnd Adj		0
*Comb CO2 Unrnd Adj		57.7
Charge-depleting Driving Range (Adjusted)		**miles**
City Range on Electricity (miles)		27.75
Hwy Range on Electricity (miles)		19.18
Comb Range on Electricity as shown on FE Label (miles)		24
All-Electric Driving Range (Adjusted)		**miles**
City All-Electric Range		18.55
Hwy All-Electric Range		19.30
Comb All-Electric Range as shown on FE Label (miles)		19.0
Charge-depleting Utility Factors		**UF**
City Utility Factor (MDIUF)		0.619
Hwy Utility Factor (MDIUF)		0.5
Comb Utility Factor (MDIUF)		0.571
Composite Efficiency (Adjusted)		**MPGe**
City PHEV Composite MPGe		36
Hwy PHEV Composite MPGe		39
Comb PHEV Composite MPGe		37
Composite CO2 (Adjusted)		**g/mi**
City CO2-PHEV Composite Rounded Adjusted Combined CO2		175
Hwy CO2-PHEV Composite Rounded Adjusted Combined CO2		155
CO2-PHEV Composite Rounded Adjusted Combined CO2		166
PHEV Total Driving Range (Adjusted)		**miles**
		400

Test Set #1

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

ENTER CHARGE-SUSTAINING TEST RESULTS HERE	City	Highway
Fuel Economy, Unadjusted (MPG):	34.4	40.9
Fuel Economy, Adjusted (MPG):	25.2973	28.6828
CREE (g/mi):	256.7	216.2
CO2, Unadjusted (g/mi):	256	216
CO2, Adjusted (g/mi):	349.1	307.9

ENTER CHARGE-SUSTAINING TEST RESULTS	EPA	Mfr
CS-UDDS	MVGA10065709	ING-08-20200331-10
CS-HFET	MVGA10065710	ING-08-20200331-11
CS-US06	MVGA10065711	ING-08-20200331-12
CS-SC03	MVGA10065707	ING-08-20200428-15
CS-Cold CO	MVGA10065708	ING-09-20200430-20

Testnumber: ING-08-20200324-13

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	7.440	6.019	415.12	0.0	0	0
2	7.474	11.930	399.29	0.0	0	0
3	7.450	17.995	387.00	0.0	0	0
4	7.483	24.123	377.97	0.0	0	0
5	7.455	25.538	374.62	38.6	228	229
6	7.480	26.706	372.88	43.2	204	204
7	7.451	26.904	371.88	35.4	249	250
8	7.471	26.877	371.50	36.6	241	241
9	7.448	26.708	371.62	34.5	256	256
10	7.492	26.514	371.75	35.6	248	248
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14						
15						
16						
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30						
31						
32						
33						
34						
35						

Recharge energy (AC kilowatt-hours):	12.512
All-Electric Range (miles):	31.733
Calculated transition cycle: 8 — To override transition cycle, enter here--->	7

Charge-Testnumber: ING-LS-03-20200324-02

Testnumber: ING-08-20200325-16

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	10.266	8.205	412.50	0.0	0	0
2	10.258	16.213	392.00	0.0	0	0
3	10.252	24.430	379.00	0.0	0	0
4	10.251	26.062	374.50	48.7	181	181
5	10.264	25.849	374.50	39.3	225	225
6	10.259	25.911	375.00	41.2	215	215
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10						
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31						
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33						
34						
35						

Recharge energy (AC kilowatt-hours):	12.019
All-Electric Range (miles):	33.020
Calculated transition cycle: 4 — To override transition cycle, enter here--->	

Charge-Testnumber: ING-LS-03-20200325-01

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]
1						
2						
3						
4						
5						
6						
7						
8						
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11						
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14						
15						
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32						
33						
34						
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						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
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31						
32						
33						
34						
35						

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]
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

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						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Results from Test Set #1: Normal (Hybrid)

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:	**City**	**Highway**	**Combined**
1. Default 50/50 Composite MPGe [4]	59.1401	69.0602	63.2271
2. Optional Utility Factor Composite MPGe [4]	82.3179	58.0794	69.3028
B. PHEV does NOT meet dual fuel criteria:	**City**	**Highway**	**Combined**
1. Utility Factor Composite MPGe [4]	58.6114	50.9022	54.8717
GHG Values	**City**	**Highway**	**Combined**
Composite CREE, (g/mi) [1]	**80.3**	**138.4**	**106.4**

Label Values (5-Cycle Adjusted)			
Charge-Depleting			**Combined**
CD range, adjusted (miles) [0]			**29**
CD All-Electric Range, adjusted (mi) [0]			**23**
Total Driving Range (Miles) [0]			**410**
CD Fuel Economy (MPGe) [0]			**50**
CD Electricity Consumption (kW-hr/100mi) [0]			**44**
CD Gasoline Consumption (gal/100mi) [0]			**0.7**
Charge-Sustaining			**Combined**
CS Fuel Economy (MPG) [0]	25.2973	28.6828	**27**
CS Fuel Consumption (gal/100mi) [1]	4.0	3.5	**3.7**
Composite CD/CS			**Combined**
Annual Fuel Cost ($/year) [0]			**1,450**
5-Year Fuel Savings Value ($/5 years) [0]			**250**
Composite CO2 (g/mi) [0]			**166**
Composite Fuel Economy (MPG) [0]			**37**
HOV Lane Values	**City**	**Highway**	**Combined**
MDIUF based on unadjusted Rcda [3]	0.720	0.615	
Composite CD/CS Fuel Economy (MPGe) [4]	49.4868	61.9284	54.4054
Trends Report Values	**City**	**Highway**	**Combined**
Fleet Utility Factor (43/57) [3]	0.787	0.358	0.5940
Unadjusted Fuel Economy (MPG) [4]	58.6114	50.9022	54.8717
Unadjusted GHG (g/mi) [1]	80.3	138.4	106.4
Adjusted Fuel Economy (MPG) [4]	39.5462	34.1009	36.8950
Adjusted GHG (g/mi) [1]	134.8	218.4	172.4

INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #1: Normal (Hybrid)

Charge-Depleting (CD) Test Results

		CITY	HIGHWAY
	DRIVING DISTANCE VALUES	**CITY**	**HIGHWAY**
	CD driving distance (Rcda), unadjusted (miles) [3]	46.049	32.816
	CD driving distance (Rcda), adjusted (miles) [3]	33.239	22.971
	CD all-electric driving distance, unadjusted (miles) [3]	31.733	33.020
	CD All-Electric Range, adjusted (mi) [3]	22.213	23.114
	FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
NEW	CD AC electricity consumption (Rcdc), unadjusted (Watt-hours) [1]	12686.0	12085.7
	CD AC electricity consumption rate (Rcda), adjusted (kW-hr/100mi) [3]	37.643	52.322
	CD test total DC energy consumed, unadjusted (Watt-hours) [1]	10416.5	10192.5
NEW	CD Rcda total fuel consumption (Rcda), unadjusted (gal equiv) [4]	0.7721	0.3589
	CD utilitized total fuel consumption rate (55/45 FUF, Rcdc), unadjusted (gal-equiv/mile) [6]	0.012500	0.005868
NEW	CD utilitized total fuel consumption rate (43/57 FUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.016867	0.006942
NEW	CD utilitized total fuel consumption rate (MDIUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.014545	0.010560
	CD gasoline consumption (Rcda), unadjusted (gal) [1]	0.39571805	0
	CD fuel economy (Rcda), adjusted (MPGe) [4]	43.0492	64.0089
	CD gasoline consumption rate (Rcda), adjusted (gal/100mi) [4]	1.1905	0.0000
NEW	CD fuel economy (Rcda), unadjusted (MPGe) [4]	59.6399	91.442
NEW	CD AC electricity consumption rate (Rcda), unadjusted (kW-hr/100mi) [3]	27.55	36.859
	GHG EMISSIONS VALUES	**CITY**	**HIGHWAY**
	CD CO2 emissions rate (Rcda), unadjusted (g/mi) [1]	75.7	0.0
NEW	CD CO2 emissions rate (Rcda), adjusted (g/mi) [1]	104.9	0.0
NEW	CD utilitized CO2 (MDIUF, Rcdc), adjusted (g/mi) [1]	56.5	23.8
	CD utilitized CREE (55/45 FUF, Rcdc), unadjusted (g/mi) [1]	40.0	16.7
NEW	CD utilitized CREE (43/57 FUF, Rcdc), adjusted (g/mi) [1]	60.4	20.7
	UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
	CD 55/45 Fleet Utility Factor (FUF) for Rcdc [3]	0.843	0.437
	MDIUF based on adjusted Rcda [3]	0.619	0.500
	MDIUF based on adjusted Rcdc [3]	0.661	0.573
	Fraction of transition cycle that is charge-depleting operation (Zn) [3]	0.170	0.199
	Number of last cycle number with charge-depleting operation (transition cycle) [0]	7	4

Intermediate Results Requiring Charge-Sustaining (CS) Test Results or Other Inputs

		CITY	HIGHWAY
	DRIVING DISTANCE VALUES	**CITY**	**HIGHWAY**
	CD Equivalent All-Electric Range (EAER), Unadjusted (mi) [3]	32.457	32.816
	Charge-sustaining driving range, adjusted (mi) [3]	351.741	410.164
	UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
	CD 55/45 Fleet Utility Factor (FUF) for EAER [3]	0.696	0.363
	FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	**CITY**	**HIGHWAY**
	CD cost per mile - electricity ($/mi) [3]	$ 0.049	$ 0.068
	CD cost per mile - gasoline ($/mi) [3]	$ 0.039	$ -
	CD total cost per mile ($/mi) [3]	$ 0.088	$ 0.068
	CS cost per mile ($/mi) [3]	$ 0.128	$ 0.113
	Composite CD/CS cost ($/mi) [3]	$ 0.103	$ 0.090
	COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	**CITY**	**HIGHWAY**
	Composite CD/CS CO2, adjusted (g/mi) [1]	174.8	155.3
	Composite CD/CS Fuel Economy, adjusted (MPG) [4]	35.7837	39.2974

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

		CITY	HIGHWAY
	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	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**

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

DETAILED CALCULATIONS UDDS ormal (Hybric

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
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*
1	0.0000	0	6.019	2498.6	3001.2	7.45	0.011968168	0.0120	0.243	0.0000	0.0029	0.0890	0.7000	5.20800	5.215000	0.155	0	0.002650094	0.198	0.003385282	0
2	0.0000	0	5.911	2360.2	2835.0	14.90	0.011253967	0.0113	0.183	0.0000	0.0021	0.0841	0.7000	5.23180	10.430000	0.126	0	0.002025714	0.159	0.002556258	0
3	0.0000	0	6.065	2347.2	2819.4	22.35	0.011228095	0.0112	0.137	0.0000	0.0015	0.0836	0.7000	5.21500	15.645000	0.103	0	0.001652134	0.126	0.002021057	0
4	0.0000	0	6.128	2316.2	2782.2	29.80	0.011031086	0.0110	0.103	0.0000	0.0011	0.0825	0.7000	5.23810	20.860000	0.086	0	0.001355248	0.100	0.001575869	0
5	0.1931	1700	1.415	530.1	636.7	37.25	0.00253392	0.0284	0.077	17.6330	0.0022	0.2120	0.7669	5.71727	26.573438	0.077	22.89202996	0.002855545	0.086	0.00318931	25.67986091
6	0.1731	1526	1.168	435.5	523.1	44.70	0.00207486	0.0252	0.057	11.6280	0.0014	0.1887	0.7563	5.65684	32.207590	0.062	16.72436419	0.002067837	0.066	0.002201246	17.80335543
7	0.2105	1855	0.198	73.6	88.4	52.15	0.000352001	0.0286	0.043	10.7500	0.0012	0.2131	0.7674	5.71773	37.92	0.052	16.87304399	0.001938068	0.052	0.001938068	16.94080721
8	0.2041	1801	-0.027	-10.0	-12.0	59.60	-4.7655E-05	0.0273	0.032	7.7120	0.0009	0.2038	0.7633	5.70265	43.61	0.043	13.57648559	0.001536495	0.041	0.00146503	12.94502115
9	0.2159	1907	-0.169	-62.8	-75.4	67.05	-0.00030036	0.0287	0.025	6.4000	0.0007	0.2136	0.7676	5.71728	49.33	0.036	12.00584305	0.001345271	0.032	0.001195797	10.67186049
10	0.2104	1858	-0.194	-72.1	-86.6	74.50	-0.00034295	0.0277	0.019	4.7120	0.0005	0.2079	0.7648	5.72985	55.03	0.030	9.728095168	0.001088407	0.025	0.000907006	8.106745973
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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
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*
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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
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*
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INTERNAL

Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	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						*CD or CS*		
CD	100.00%	100.00%	100.00%	100.00%	100.00%	CD	1.000	
CD	100.00%	100.00%	100.00%	100.00%	100.00%	CD	0.486	
CD	100.00%	100.00%	100.00%	100.00%	100.00%	CD	0.326	
CD	100.00%	100.00%	100.00%	100.00%	100.00%	CD	0.243	
CD	8.19%	8.19%	43.97%	80.22%	116.68%	CD	0.053	Cycle 6
CD	7.50%	7.50%	7.86%	26.73%	45.85%	CD	0.042	7.50%
CD	1.04%	1.04%	3.96%	5.38%	17.36%	CS based on 2% battery energy	0.007	7.86%
CS based on 1% fuel energy	-0.15%	-0.15%	0.46%	2.53%	3.93%	CS based on 2% battery energy	-0.001	26.73%
CS based on 1% fuel energy	-0.87%	-0.87%	-0.52%	0.00%	1.62%	CS based on 2% battery energy	-0.007	45.85%
CD	-1.02%	-1.02%	-0.94%	-0.69%	-0.25%	CS based on 2% battery energy	-0.014	
	1.000						1.000	Cycle 7
	1.000						1.000	1.04%
	1.000						1.000	3.96%
	1.000						1.000	5.38%
	1.000						1.000	17.36%
	1.000						1.000	
	1.000						1.000	Cycle 8
	1.000						1.000	-0.15%
	1.000						1.000	0.46%
	1.000						1.000	2.53%
	1.000						1.000	3.93%
	1.000						1.000	
	1.000						1.000	
	1.000						1.000	Cycle 9
	1.000						1.000	-0.87%
	1.000						1.000	-0.52%
	1.000						1.000	0.00%
	1.000						1.000	1.62%
	1.000						1.000	
	1.000						1.000	
	1.000						1.000	
	1.000						1.000	Cycle 10
	1.000						1.000	-1.02%
	1.000						1.000	-0.94%
	1.000						1.000	-0.69%
								-0.25%

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
CD or CS						*CD or CS*	
	1.000						1.000
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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
CD or CS						*CD or CS*	
	1.000						1.000
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DETAILED CALCULATIONS HFET ormal (Hybric

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
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*
1	0.0000	0.0000	8.205	3384.6000	3991.1000	10.30	0.011534453	0.0115	0.123	0.0000	0.0014	0.1184	0.7000	7.186	7.21	0.2060000	0	0.003394425	0.0970	0.001598346	0
2	0.0000	0.0000	8.008	3139.1000	3701.6000	20.60	0.010706129	0.0107	0.117	0.0000	0.0013	0.1098	0.7000	7.181	14.42	0.1560000	0	0.002385937	0.0940	0.00143768	0
3	0.0000	0.0000	8.217	3114.2000	3672.3000	30.90	0.010627601	0.0106	0.105	0.0000	0.0011	0.1090	0.7000	7.176	21.63	0.1190000	0	0.001806692	0.0870	0.001320859	0
4	0.2105	1855.0000	1.632	611.2000	720.7000	41.20	0.002085902	0.0226	0.092	16.6520	0.0021	0.2319	0.7000	7.176	28.84	0.0920000	23.78857143	0.002972886	0.0800	0.002585118	20.68571429
5	0.2612	2309.0000	-0.213	-79.8000	-94.1000	51.50	-0.00027201	0.0252	0.079	17.7750	0.0020	0.2584	0.7036	7.222	36.09	0.0720000	23.02443401	0.002576003	0.0720	0.002576003	23.02443401
6	0.2490	2206.0000	0.062	23.2000	27.4000	61.80	7.92412E-05	0.0244	0.067	14.4050	0.0016	0.2498	0.7015	7.197	43.31	0.0560000	17.16351826	0.001943955	0.0640	0.002221663	19.61544945
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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
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*
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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
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*
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Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	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						*CD or CS*	
CD	100.00%	100.00%	100.00%	100.00%	100.00%	CD	1.000
CD	100.00%	100.00%	100.00%	100.00%	100.00%	CD	0.481
CD	100.00%	100.00%	100.00%	100.00%	100.00%	CD	0.323
CD	8.66%	8.66%	52.80%	97.29%	145.26%	CD	0.060
CS based on 1% fuel energy	-0.91%	-0.91%	3.36%	23.06%	42.91%	CS based on 2% battery energy	-0.008
CS based on 1% fuel energy	-0.33%	0.28%	-0.33%	2.30%	15.19%	CS based on 2% battery energy	-0.006
	1.000						1.000
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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
CD or CS						*CD or CS*	
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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
CD or CS						*CD or CS*	
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