

SCAQMD Quantum Escape PHEV Report

Number of vehicles: 17 Date range of data received: 11/01/2012 to 11/30/2012

Reporting period: November 2012 Number of vehicle days driven: 186

All Trips Combined

Overall gasoline fuel economy (mpg)	36
Overall AC electrical energy consumption (AC Wh/mi) ¹	36
Overall DC electrical energy consumption (DC Wh/mi) ²	18
Total number of trips	1,290
Total distance traveled (mi)	13,023

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁴	58
Number of trips	432
Percent of trips city highway	75% 25%
Distance traveled (mi)	2,835
Percent of total distance traveled	22%

Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

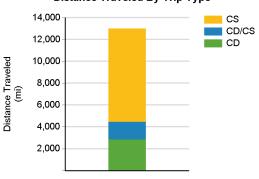
Gasoline fuel economy (mpg)	41
DC electrical energy consumption (DC Wh/mi) ⁶	48
Number of trips	52
Percent of trips city highway	31% 69%
Distance traveled (mi)	1,613
Percent of total distance traveled	12%

Trips in Charge Sustaining (CS) mode7

Gasoline fuel economy (mpg)	34
Number of trips	806
Percent of trips city highway	73% 27%
Distance traveled (mi)	8,575
Percent of total distance traveled	66%

All Vehicles

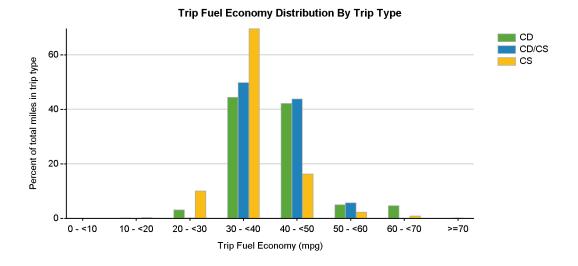
Gasoline Fuel Economy By Trip Type 50 CD CD/CS Fuel Economy (mpg) CS 30 20 10 0





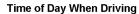


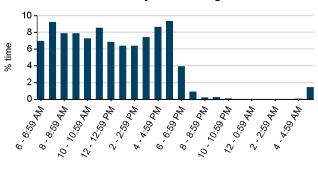
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	37	41
DC electrical energy consumption (DC Wh/mi)	65	53
Percent of miles with internal combustion engine off	2%	2%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	3.5	15.6
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	47	40
DC electrical energy consumption (DC Wh/mi)	74	44
Percent of miles with internal combustion engine off	1%	3%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	11.5	39.7
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	32	35
Percent of miles with internal combustion engine off	3%	3%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	3.7	29.2



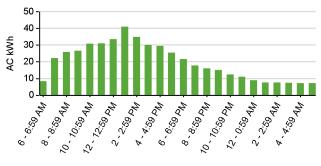


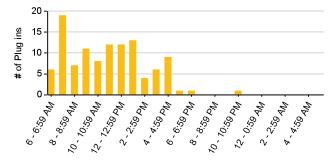
Average number of charging events per vehicle per month when driven	6	
Average number of charging events per vehicle per day when driven	0.6	
Average distance driven between charging events (mi)	118.4	
Average number of trips between charging events	11.7	
Average time plugged in per charging event (hr)	36.5	
Average time plugged in and drawing power (hr)	36.5	
Average time charging per charging event (power > 200 w) (hr)	5.0	
Average energy per charging event (AC kWh)	4.3	
Average charging energy per vehicle per month (AC kWh)	27.5	
Total number of charging events	110	
Total charging energy (AC kWh)	468	





Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Number of vehicles: Date range of data received: 11/01/2012 to 11/30/2012

Reporting period: November 2012 Number of vehicle days driven: 16

All Trips Combined

Overall gasoline fuel economy (mpg)	37
Overall AC electrical energy consumption (AC Wh/mi) ¹	
Overall DC electrical energy consumption (DC Wh/mi) ²	3
Total number of trips	134
Total distance traveled (mi)	2,750

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	56
DC electrical energy consumption (DC Wh/mi) ⁴	12
Number of trips	7
Percent of trips city highway	57% 43%
Distance traveled (mi)	142
Percent of total distance traveled	5%

Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

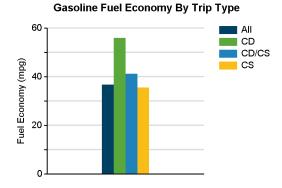
Gasoline fuel economy (mpg)	41
DC electrical energy consumption (DC Wh/mi) ⁶	9
Number of trips	7
Percent of trips city highway	29% 71%
Distance traveled (mi)	250
Percent of total distance traveled	9%

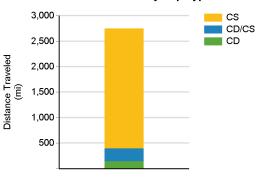
Trips in Charge Sustaining (CS) mode7

Gasoline fuel economy (mpg)	36
Number of trips	120
Percent of trips city highway	60% 40%
Distance traveled (mi)	2,358
Percent of total distance traveled	86%

Quantum SCAQMD #8



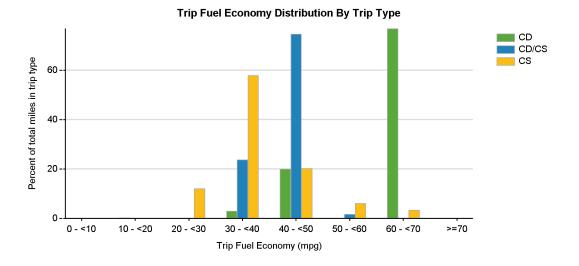








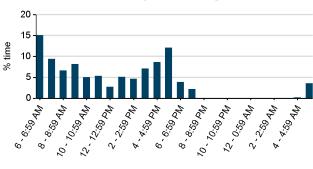
Trips in Charge Depleting (CD) mode	Citv	Highway
	•	
Gasoline fuel economy (mpg)	34	57
DC electrical energy consumption (DC Wh/mi)	78	15
Percent of miles with internal combustion engine off	30%	15%
Average trip driving intensity ⁸	5	2
Average trip distance (mi)	1.1	45.9
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	54	41
DC electrical energy consumption (DC Wh/mi)	18	9
Percent of miles with internal combustion engine off	43%	8%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	2.1	49.2
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	36	36
Percent of miles with internal combustion engine off	29%	6%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	2.3	45.7



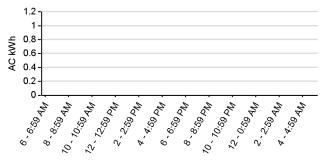


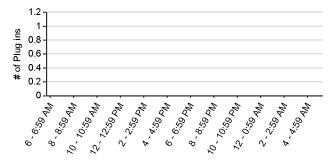
Average number of charging events per vehicle per month when driven	0	
Average number of charging events per vehicle per day when driven	0.0	
Average distance driven between charging events (mi)	0.0	
Average number of trips between charging events	0.0	
Average time plugged in per charging event (hr)	0.0	
Average time plugged in and drawing power (hr)	0.0	
Average time charging per charging event (power > 200 w) (hr)	0.0	
Average energy per charging event (AC kWh)	0.0	
Average charging energy per vehicle per month (AC kWh)	0.0	
Total number of charging events	0	
Total charging energy (AC kWh)	0	

Time of Day When Driving



Time of Day When Charging









Date range of data received:

SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #25

10

Reporting period: November 2012 Number of vehicle days driven: 12

All Trips Combined

Number of vehicles:

Overall gasoline fuel economy (mpg)	39
Overall AC electrical energy consumption (AC Wh/mi) ¹	82
Overall DC electrical energy consumption (DC Wh/mi) ²	38
Total number of trips	81
Total distance traveled (mi)	731

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁴	53
Number of trips	44
Percent of trips city highway	73% 27%
Distance traveled (mi)	295
Percent of total distance traveled	40%

Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

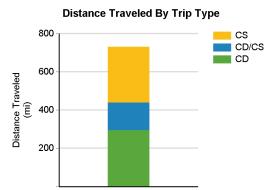
Gasoline fuel economy (mpg)	46
DC electrical energy consumption (DC Wh/mi) ⁶	66
Number of trips	5
Percent of trips city highway	0% 100%
Distance traveled (mi)	145
Percent of total distance traveled	20%

Trips in Charge Sustaining (CS) mode7

Gasoline fuel economy (mpg)	36
Number of trips	32
Percent of trips city highway	81% 19%
Distance traveled (mi)	292
Percent of total distance traveled	40%

Gasoline Fuel Economy By Trip Type 50 CD CD/CS Fuel Economy (mpg) CS 30 20

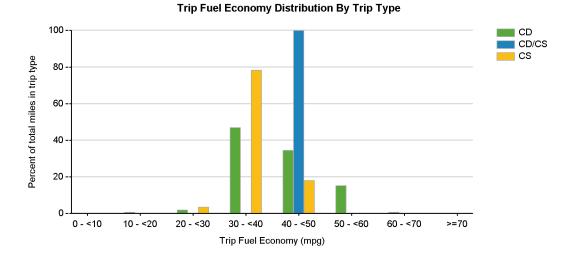
11/06/2012 to 11/29/2012



Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



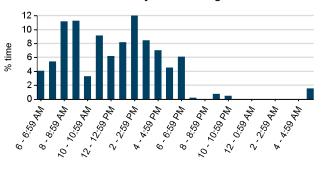
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	39	40
DC electrical energy consumption (DC Wh/mi)	49	58
Percent of miles with internal combustion engine off	13%	6%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	4.7	12.0
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	0	46
DC electrical energy consumption (DC Wh/mi)	0	66
Percent of miles with internal combustion engine off	0%	7%
Average trip driving intensity ⁸		2
Average trip distance (mi)	0.0	29.0
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	35	37
Percent of miles with internal combustion engine off	20%	9%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	3.6	33.2



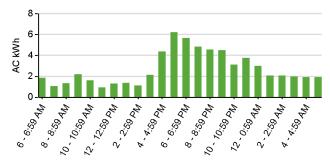


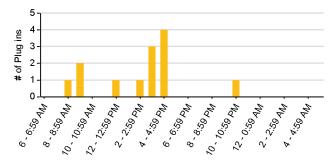
Average number of charging events per vehicle per month when driven	13	
Average number of charging events per vehicle per day when driven	1.1	
Average distance driven between charging events (mi)	56.3	
Average number of trips between charging events	6.2	
Average time plugged in per charging event (hr)	35.0	
Average time plugged in and drawing power (hr)	35.0	
Average time charging per charging event (power > 200 w) (hr)	6.1	
Average energy per charging event (AC kWh)	4.6	
Average charging energy per vehicle per month (AC kWh)	60.2	
Total number of charging events	13	
Total charging energy (AC kWh)	60	





Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #24

Number of vehicles: 1 Date range of data received: 11/01/2012 to 11/30/2012

Reporting period: November 2012 Number of vehicle days driven: 11

All Trips Combined

Overall gasoline fuel economy (mpg)	40
Overall AC electrical energy consumption (AC Wh/mi) ¹	73
Overall DC electrical energy consumption (DC Wh/mi) ²	53
Total number of trips	65
Total distance traveled (mi)	540

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	40
DC electrical energy consumption (DC Wh/mi) ⁴	58
Number of trips	52
Percent of trips city highway	58% 42%
Distance traveled (mi)	363
Percent of total distance traveled	67%

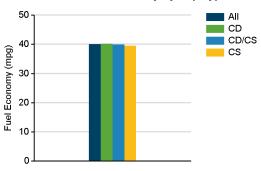
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

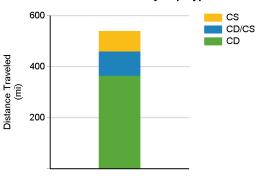
Gasoline fuel economy (mpg)	40
DC electrical energy consumption (DC Wh/mi) ⁶	57
Number of trips	5
Percent of trips city highway	60% 40%
Distance traveled (mi)	97
Percent of total distance traveled	18%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	39
Number of trips	8
Percent of trips city highway	75% 25%
Distance traveled (mi)	80
Percent of total distance traveled	15%

Gasoline Fuel Economy By Trip Type

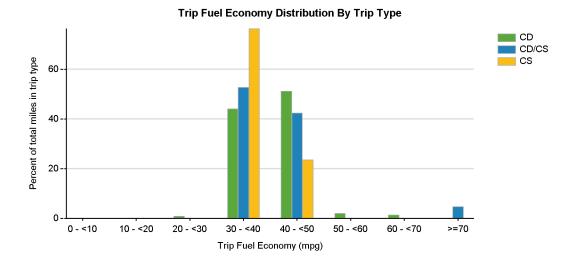




Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



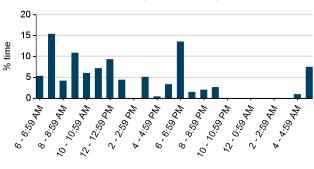
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	39	41
DC electrical energy consumption (DC Wh/mi)	73	51
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	3.6	11.5
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	43	38
DC electrical energy consumption (DC Wh/mi)	58	56
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	2	2
Average trip distance (mi)	15.2	25.5
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	40	39
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	3
Average trip distance (mi)	5.5	23.6



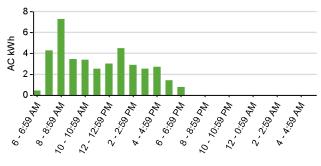


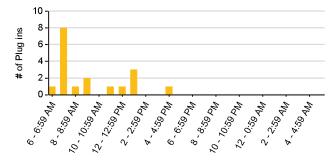
Average number of charging events per vehicle per month when driven	18	
Average number of charging events per vehicle per day when driven	1.6	
Average distance driven between charging events (mi)	30.0	
Average number of trips between charging events	3.6	
Average time plugged in per charging event (hr)	4.9	
Average time plugged in and drawing power (hr)	4.9	
Average time charging per charging event (power > 200 w) (hr)	3.4	
Average energy per charging event (AC kWh)	2.2	
Average charging energy per vehicle per month (AC kWh)	39.3	
Total number of charging events	18	
Total charging energy (AC kWh)	39	

Time of Day When Driving



Time of Day When Charging









Date range of data received:

SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #23

Reporting period: November 2012 Number of vehicle days driven: 11

All Trips Combined

Number of vehicles:

Overall gasoline fuel economy (mpg)	37
Overall AC electrical energy consumption (AC Wh/mi) ¹	34
Overall DC electrical energy consumption (DC Wh/mi) ²	19
Total number of trips	104
Total distance traveled (mi)	1,325

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	40
DC electrical energy consumption (DC Wh/mi) ⁴	60
Number of trips	25
Percent of trips city highway	68% 32%
Distance traveled (mi)	230
Percent of total distance traveled	17%

Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

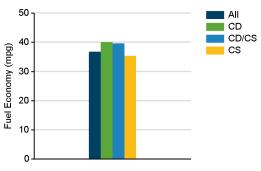
Gasoline fuel economy (mpg)	40
DC electrical energy consumption (DC Wh/mi) ⁶	46
Number of trips	5
Percent of trips city highway	20% 80%
Distance traveled (mi)	212
Percent of total distance traveled	16%

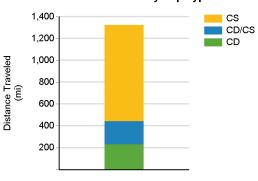
Trips in Charge Sustaining (CS) mode7

Gasoline fuel economy (mpg)	35
Number of trips	74
Percent of trips city highway	78% 22%
Distance traveled (mi)	882
Percent of total distance traveled	67%

Gasoline Fuel Economy By Trip Type

11/01/2012 to 11/30/2012

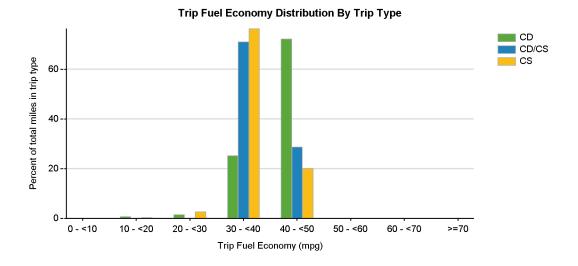




Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.

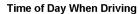


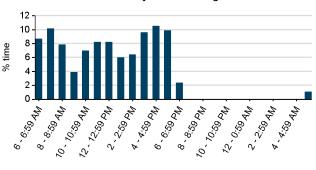
Trips in Charge Depleting (CD) made	City	Highway
Trips in Charge Depleting (CD) mode	City	Iligilway
Gasoline fuel economy (mpg)	29	42
DC electrical energy consumption (DC Wh/mi)	87	57
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	3
Average trip distance (mi)	1.4	25.9
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	43	39
DC electrical energy consumption (DC Wh/mi)	50	45
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	21.8	47.6
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	33	36
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	3.5	42.4



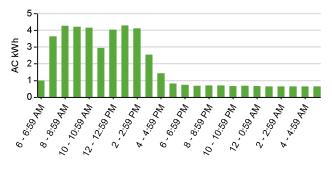


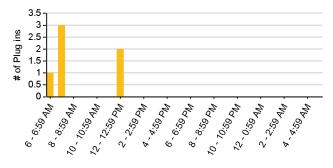
Average number of charging events per vehicle per month when driven	6	
Average number of charging events per vehicle per day when driven	0.5	
Average distance driven between charging events (mi)	220.8	
Average number of trips between charging events	17.3	
Average time plugged in per charging event (hr)	77.5	
Average time plugged in and drawing power (hr)	77.5	
Average time charging per charging event (power > 200 w) (hr)	4.2	
Average energy per charging event (AC kWh)	7.6	
Average charging energy per vehicle per month (AC kWh)	45.6	
Total number of charging events	6	
Total charging energy (AC kWh)	46	





Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #22

Number of vehicles: Date range of data received: 11/07/2012 to 11/30/2012

Reporting period: November 2012 Number of vehicle days driven: 5

All Trips Combined

Overall gasoline fuel economy (mpg)	40
Overall AC electrical energy consumption (AC Wh/mi) ¹	133
Overall DC electrical energy consumption (DC Wh/mi) ²	54
Total number of trips	25
Total distance traveled (mi)	300

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	42
DC electrical energy consumption (DC Wh/mi) ⁴	58
Number of trips	19
Percent of trips city highway	63% 37%
Distance traveled (mi)	183
Percent of total distance traveled	61%

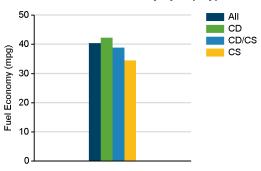
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

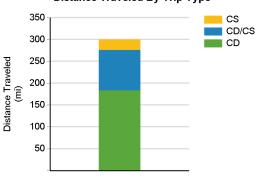
Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁶	51
Number of trips	4
Percent of trips city highway	50% 50%
Distance traveled (mi)	93
Percent of total distance traveled	31%

Trips in Charge Sustaining (CS) mode7

Gasoline fuel economy (mpg)	35
Number of trips	2
Percent of trips city highway	100% 0%
Distance traveled (mi)	24
Percent of total distance traveled	8%

Gasoline Fuel Economy By Trip Type

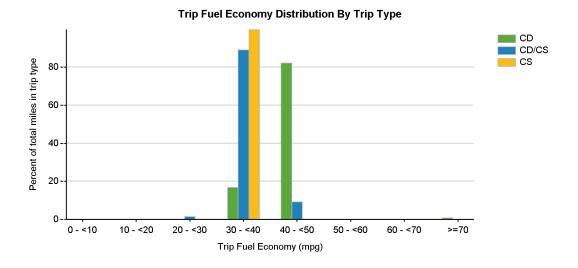




Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



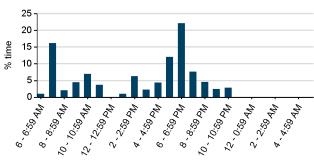
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	39	47
DC electrical energy consumption (DC Wh/mi)	53	64
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	7.7	13.0
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	43	38
DC electrical energy consumption (DC Wh/mi)	72	48
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	2
Average trip distance (mi)	5.0	41.5
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	35	(
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	
Average trip distance (mi)	12.0	0.0



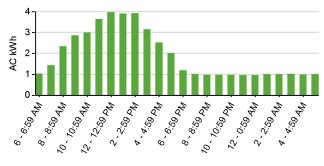


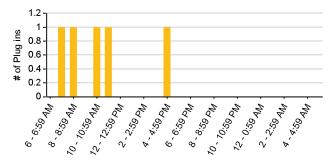
Average number of charging events per vehicle per month when driven	5	
Average number of charging events per vehicle per day when driven	1.0	
Average distance driven between charging events (mi)	60.1	
Average number of trips between charging events	5.0	
Average time plugged in per charging event (hr)	101.6	
Average time plugged in and drawing power (hr)	101.6	
Average time charging per charging event (power > 200 w) (hr)	4.8	
Average energy per charging event (AC kWh)	8.0	
Average charging energy per vehicle per month (AC kWh)	40.1	
Total number of charging events	5	
Total charging energy (AC kWh)	40	





Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #21

Number of vehicles: 1 Date range of data received: 11/01/2012 to 11/28/2012

Reporting period: November 2012 Number of vehicle days driven: 10

All Trips Combined

Overall gasoline fuel economy (mpg)	37
Overall AC electrical energy consumption (AC Wh/mi) ¹	90
Overall DC electrical energy consumption (DC Wh/mi) ²	30
Total number of trips	36
Total distance traveled (mi)	319

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	38
DC electrical energy consumption (DC Wh/mi) ⁴	79
Number of trips	22
Percent of trips city highway	86% 14%
Distance traveled (mi)	123
Percent of total distance traveled	39%

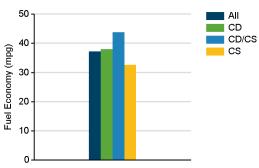
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

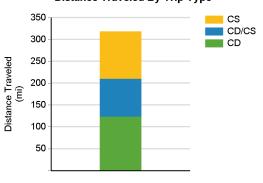
Gasoline fuel economy (mpg)	44
DC electrical energy consumption (DC Wh/mi) ⁶	67
Number of trips	3
Percent of trips city highway	33% 67%
Distance traveled (mi)	87
Percent of total distance traveled	27%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	33
Number of trips	11
Percent of trips city highway	64% 36%
Distance traveled (mi)	109
Percent of total distance traveled	34%

Gasoline Fuel Economy By Trip Type

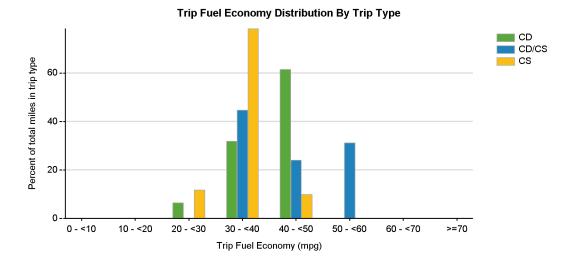




Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



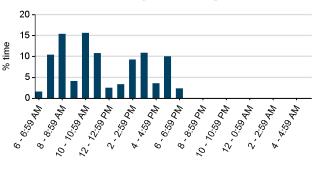
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	33	43
DC electrical energy consumption (DC Wh/mi)	80	79
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	2.7	24.1
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	53	41
DC electrical energy consumption (DC Wh/mi)	65	67
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	27.0	29.8
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	39	31
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	3.1	21.7



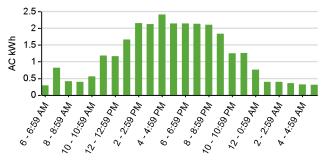


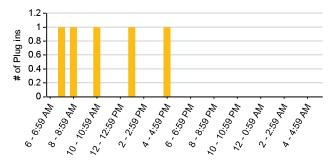
Average number of charging events per vehicle per month when driven	5	
Average number of charging events per vehicle per day when driven	0.5	
Average distance driven between charging events (mi)	63.7	
Average number of trips between charging events	7.2	
Average time plugged in per charging event (hr)	39.9	
Average time plugged in and drawing power (hr)	39.9	
Average time charging per charging event (power > 200 w) (hr)	12.8	
Average energy per charging event (AC kWh)	5.7	
Average charging energy per vehicle per month (AC kWh)	28.7	
Total number of charging events	5	
Total charging energy (AC kWh)	29	

Time of Day When Driving



Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #20

Number of vehicles: 1 Date range of data received: 11/02/2012 to 11/14/2012

Reporting period: November 2012 Number of vehicle days driven: 3

All Trips Combined

Overall gasoline fuel economy (mpg)	2
Overall AC electrical energy consumption (AC Wh/mi) ¹	42,121
Overall DC electrical energy consumption (DC Wh/mi) ²	883
Total number of trips	6
Total distance traveled (mi)	0

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	0
DC electrical energy consumption (DC Wh/mi) ⁴	0
Number of trips	2
Percent of trips city highway	100% 0%
Distance traveled (mi)	0
Percent of total distance traveled	0%

Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

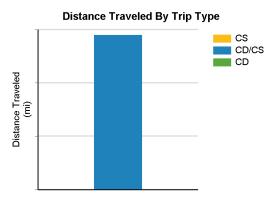
Gasoline fuel economy (mpg)	0
DC electrical energy consumption (DC Wh/mi) ⁶	0
Number of trips	2
Percent of trips city highway	100% 0%
Distance traveled (mi)	0
Percent of total distance traveled	100%

Trips in Charge Sustaining (CS) mode⁷

Casalina fual aganamy (mng)	0
Gasoline fuel economy (mpg)	0
Number of trips	2
Percent of trips city highway	100% 0%
Distance traveled (mi)	0
Percent of total distance traveled	0%

Gasoline Fuel Economy By Trip Type

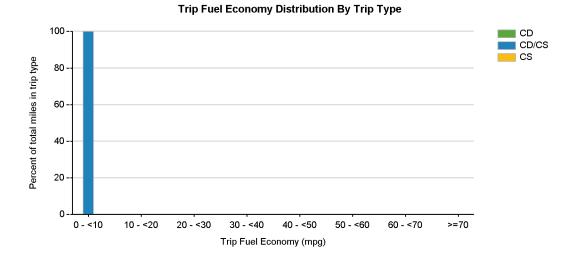
All
CD
CD/CS
CD/CS
CS



Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



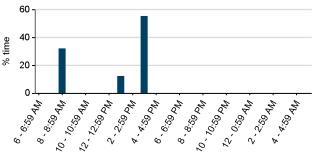
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	0	(
DC electrical energy consumption (DC Wh/mi)	0	(
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸		
Average trip distance (mi)	0.0	0.0
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	0	(
DC electrical energy consumption (DC Wh/mi)	0	(
Percent of miles with internal combustion engine off	103%	0%
Average trip driving intensity ⁸	1	
Average trip distance (mi)	0.0	0.0
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	0	(
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸		
Average trip distance (mi)	0.0	0.0





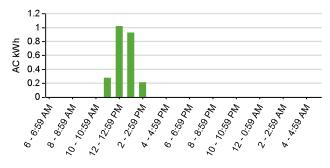
Average number of charging events per vehicle per month when driven	3	
Average number of charging events per vehicle per day when driven	1.0	
Average distance driven between charging events (mi)	0.0	
Average number of trips between charging events	2.0	
Average time plugged in per charging event (hr)	0.8	
Average time plugged in and drawing power (hr)	0.8	
Average time charging per charging event (power > 200 w) (hr)	0.8	
Average energy per charging event (AC kWh)	0.8	
Average charging energy per vehicle per month (AC kWh)	2.4	
Total number of charging events	3	
Total charging energy (AC kWh)	2	

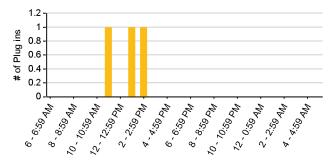




Time of Day When Driving

Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #18

Number of vehicles: 1 Date range of data received: 11/01/2012 to 11/30/2012

Reporting period: November 2012 Number of vehicle days driven: 9

All Trips Combined

Overall gasoline fuel economy (mpg)	34
Overall AC electrical energy consumption (AC Wh/mi) ¹	59
Overall DC electrical energy consumption (DC Wh/mi) ²	35
Total number of trips	52
Total distance traveled (mi)	384

Trips in Charge Depleting (CD) mode³

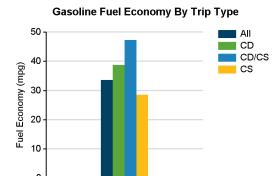
Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁴	72
Number of trips	6
Percent of trips city highway	50% 50%
Distance traveled (mi)	86
Percent of total distance traveled	22%

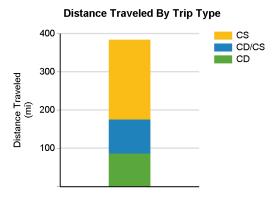
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	47
3 (1 3)	• • • • • • • • • • • • • • • • • • • •
DC electrical energy consumption (DC Wh/mi) ⁶	80
Number of trips	2
Percent of trips city highway	50% 50%
Distance traveled (mi)	88
Percent of total distance traveled	23%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	29
Number of trips	44
Percent of trips city highway	89% 11%
Distance traveled (mi)	209
Percent of total distance traveled	55%

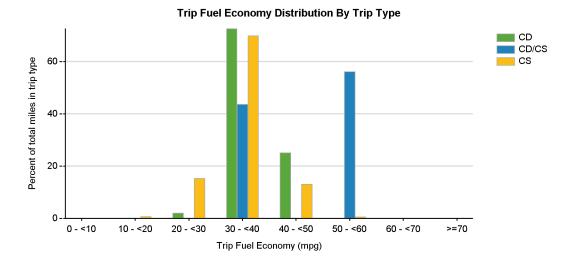




Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



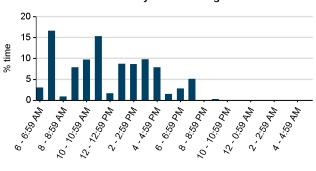
Gasoline fuel economy (mpg) OC electrical energy consumption (DC Wh/mi) Percent of miles with internal combustion engine off Average trip driving intensity ⁸ Average trip distance (mi) Trips in Charge Depleting and Charge Sustaining (CD/CS) mode Gasoline fuel economy (mpg) OC electrical energy consumption (DC Wh/mi) Percent of miles with internal combustion engine off Average trip driving intensity ⁸ 2 Average trip driving intensity ⁸ 2 Average trip driving intensity ⁸ 2 Average trip distance (mi) 49.7 Average trip diving intensity ⁸ 40.7 Average trip driving intensity (CS) mode Casoline fuel economy (mpg) 25 Average trip driving intensity (CS) mode	Trice in Observe Develotion (OD) weeds	City	Highway
OC electrical energy consumption (DC Wh/mi) Percent of miles with internal combustion engine off Average trip driving intensity ⁸ Average trip distance (mi) Trips in Charge Depleting and Charge Sustaining (CD/CS) mode Gasoline fuel economy (mpg) Co electrical energy consumption (DC Wh/mi) Percent of miles with internal combustion engine off Average trip driving intensity ⁸ Average trip distance (mi) Trips in Charge Sustaining (CS) mode Average trip distance (mi) Average trip distance (mi) Average trip distance (mi) Average trip diving intensity ⁸ Percent of miles with internal combustion engine off Average trip diving intensity ⁸ Average trip diving intensity ⁸ Average trip diving intensity ⁸ Average trip driving intensity ⁸	Trips in Charge Depleting (CD) mode	City	nignway
Percent of miles with internal combustion engine off Average trip driving intensity ⁸ Average trip distance (mi) Trips in Charge Depleting and Charge Sustaining (CD/CS) mode Gasoline fuel economy (mpg) CC electrical energy consumption (DC Wh/mi) Percent of miles with internal combustion engine off Average trip driving intensity ⁸ Average trip distance (mi) Trips in Charge Sustaining (CS) mode Gasoline fuel economy (mpg) Average trip distance (mi) Trips in Charge Sustaining (CS) mode Gasoline fuel economy (mpg) Percent of miles with internal combustion engine off Average trip driving intensity ⁸	Gasoline fuel economy (mpg)	44	37
Average trip driving intensity ⁸ Average trip distance (mi) Trips in Charge Depleting and Charge Sustaining (CD/CS) mode Gasoline fuel economy (mpg) Deferent of miles with internal combustion engine off Average trip driving intensity ⁸ Average trip distance (mi) Trips in Charge Sustaining (CS) mode Gasoline fuel economy (mpg) Average trip driving intensity ⁸ Average trip distance (mi) Average trip distance (mi) Average trip driving intensity (CS) mode Gasoline fuel economy (mpg) Average trip driving intensity (CS) mode	DC electrical energy consumption (DC Wh/mi)	85	68
Average trip distance (mi) 7.9 20.9 Trips in Charge Depleting and Charge Sustaining (CD/CS) mode Gasoline fuel economy (mpg) 58 38 CC electrical energy consumption (DC Wh/mi) Percent of miles with internal combustion engine off Average trip driving intensity Average trip distance (mi) 7.9 20.9 7	Percent of miles with internal combustion engine off	0%	0%
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode Gasoline fuel economy (mpg) 58 38 DC electrical energy consumption (DC Wh/mi) 95 61 Percent of miles with internal combustion engine off 0% 0% Average trip driving intensity ⁸ 2 2 Average trip distance (mi) 49.7 38.7 Trips in Charge Sustaining (CS) mode Gasoline fuel economy (mpg) 25 36 Percent of miles with internal combustion engine off 0% 0% Average trip driving intensity ⁸ 4 3	Average trip driving intensity ⁸	3	2
Gasoline fuel economy (mpg) CC electrical energy consumption (DC Wh/mi) Percent of miles with internal combustion engine off Average trip driving intensity ⁸ 2 2 Average trip distance (mi) 49.7 38.7 Trips in Charge Sustaining (CS) mode Gasoline fuel economy (mpg) 25 36 Percent of miles with internal combustion engine off Average trip driving intensity ⁸ 4 38	Average trip distance (mi)	7.9	20.9
DC electrical energy consumption (DC Wh/mi) Percent of miles with internal combustion engine off Average trip driving intensity ⁸ 2 2 Average trip distance (mi) 49.7 38.7 Trips in Charge Sustaining (CS) mode Gasoline fuel economy (mpg) 25 36 Percent of miles with internal combustion engine off Average trip driving intensity ⁸ 4 3	Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Percent of miles with internal combustion engine off 0% 0% Average trip driving intensity ⁸ 2 2 Average trip distance (mi) 49.7 38.7 Trips in Charge Sustaining (CS) mode Gasoline fuel economy (mpg) 25 36 Overage trip driving intensity ⁸ 4 3	Gasoline fuel economy (mpg)	58	38
Average trip driving intensity ⁸ 2 2 Average trip distance (mi) 49.7 38.7 Trips in Charge Sustaining (CS) mode Gasoline fuel economy (mpg) 25 36 Percent of miles with internal combustion engine off 0% 0% Average trip driving intensity ⁸ 4 3	DC electrical energy consumption (DC Wh/mi)	95	61
Average trip distance (mi) 49.7 38.7 Frips in Charge Sustaining (CS) mode Gasoline fuel economy (mpg) 25 36 Percent of miles with internal combustion engine off Average trip driving intensity ⁸ 4 3	Percent of miles with internal combustion engine off	0%	0%
Trips in Charge Sustaining (CS) mode Gasoline fuel economy (mpg) Percent of miles with internal combustion engine off Average trip driving intensity ⁸ 4 3	Average trip driving intensity ⁸	2	2
Gasoline fuel economy (mpg) 25 36 Percent of miles with internal combustion engine off Average trip driving intensity ⁸ 4 3	Average trip distance (mi)	49.7	38.7
Percent of miles with internal combustion engine off 0% 0% Average trip driving intensity ⁸ 4 3	Trips in Charge Sustaining (CS) mode		
Average trip driving intensity ⁸ 4 3	Gasoline fuel economy (mpg)	25	36
	Percent of miles with internal combustion engine off	0%	0%
	Average trip driving intensity ⁸	4	3
Average trip distance (mi) 3.3 16.1	Average trip distance (mi)	3.3	16.1



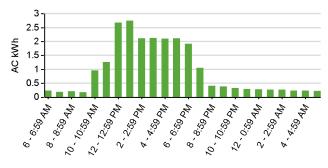


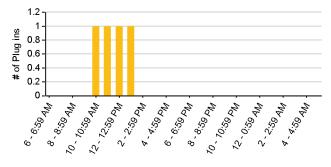
Average number of charging events per vehicle per month when driven	4	
Average number of charging events per vehicle per day when driven	0.4	
Average distance driven between charging events (mi)	96.0	
Average number of trips between charging events	13.0	
Average time plugged in per charging event (hr)	32.9	
Average time plugged in and drawing power (hr)	32.9	
Average time charging per charging event (power > 200 w) (hr)	3.9	
Average energy per charging event (AC kWh)	5.6	
Average charging energy per vehicle per month (AC kWh)	22.5	
Total number of charging events	4	
Total charging energy (AC kWh)	23	

Time of Day When Driving



Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #17

Number of vehicles: 1 Date range of data received: 11/01/2012 to 11/29/2012

Reporting period: November 2012 Number of vehicle days driven: 9

All Trips Combined

Overall gasoline fuel economy (mpg)	35
Overall AC electrical energy consumption (AC Wh/mi) ¹	64
Overall DC electrical energy consumption (DC Wh/mi) ²	18
Total number of trips	43
Total distance traveled (mi)	328

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁴	73
Number of trips	14
Percent of trips city highway	86% 14%
Distance traveled (mi)	61
Percent of total distance traveled	19%

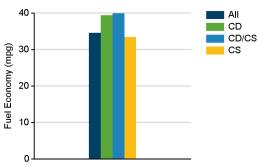
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	40
DC electrical energy consumption (DC Wh/mi) ⁶	77
Number of trips	1
Percent of trips city highway	0% 100%
Distance traveled (mi)	14
Percent of total distance traveled	4%

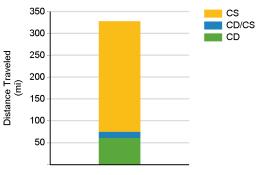
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	33
Number of trips	28
Percent of trips city highway	79% 21%
Distance traveled (mi)	253
Percent of total distance traveled	77%

Gasoline Fuel Economy By Trip Type



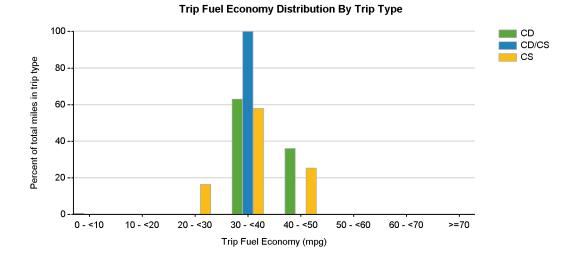
Distance Traveled By Trip Type



Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



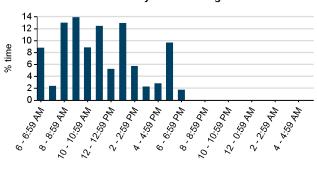
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	35	41
DC electrical energy consumption (DC Wh/mi)	79	72
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	1.0	24.1
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	0	40
DC electrical energy consumption (DC Wh/mi)	0	77
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸		3
Average trip distance (mi)	0.0	14.1
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	28	36
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	3
Average trip distance (mi)	2.9	31.5



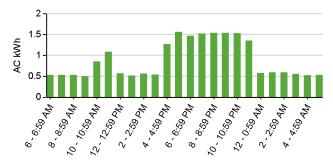


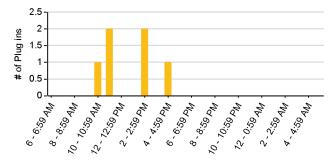
Average number of charging events per vehicle per month when driven	6	
Average number of charging events per vehicle per day when driven	0.7	
Average distance driven between charging events (mi)	54.6	
Average number of trips between charging events	7.2	
Average time plugged in per charging event (hr)	65.4	
Average time plugged in and drawing power (hr)	65.4	
Average time charging per charging event (power > 200 w) (hr)	5.3	
Average energy per charging event (AC kWh)	3.5	
Average charging energy per vehicle per month (AC kWh)	21.1	
Total number of charging events	6	
Total charging energy (AC kWh)	21	

Time of Day When Driving



Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #13

Number of vehicles: 1 Date range of data received: 11/03/2012 to 11/30/2012

Reporting period: November 2012 Number of vehicle days driven: 12

All Trips Combined

Overall gasoline fuel economy (mpg)	35
Overall AC electrical energy consumption (AC Wh/mi) ¹	18
Overall DC electrical energy consumption (DC Wh/mi) ²	16
Total number of trips	100
Total distance traveled (mi)	1,274

Trips in Charge Depleting (CD) mode³

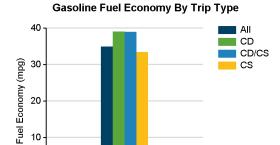
Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁴	60
Number of trips	10
Percent of trips city highway	40% 60%
Distance traveled (mi)	156
Percent of total distance traveled	12%

Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁶	59
Number of trips	3
Percent of trips city highway	0% 100%
Distance traveled (mi)	220
Percent of total distance traveled	17%

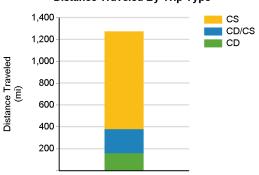
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	33
Number of trips	87
Percent of trips city highway	75% 25%
Distance traveled (mi)	897
Percent of total distance traveled	70%



Distance Traveled By Trip Type

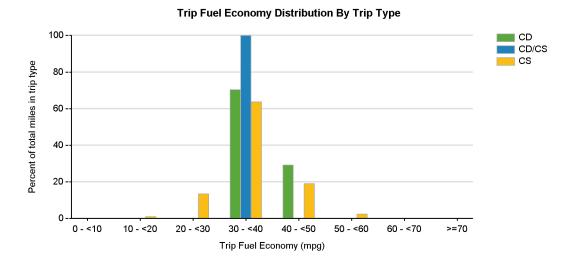
0



Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



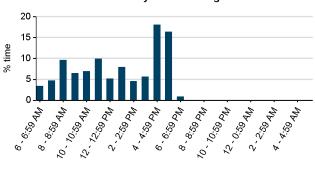
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	32	40
DC electrical energy consumption (DC Wh/mi)	34	64
Percent of miles with internal combustion engine off	4%	2%
Average trip driving intensity ⁸	5	3
Average trip distance (mi)	4.7	22.9
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	0	39
DC electrical energy consumption (DC Wh/mi)	0	59
Percent of miles with internal combustion engine off	0%	4%
Average trip driving intensity ⁸		2
Average trip distance (mi)	0.0	73.4
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	29	35
Percent of miles with internal combustion engine off	6%	2%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	2.5	33.5



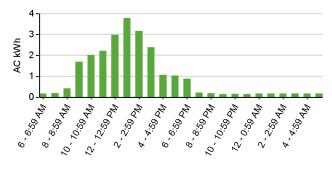


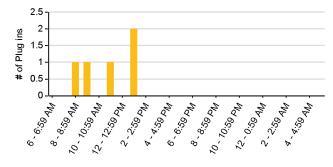
Average number of charging events per vehicle per month when driven	5	
Average number of charging events per vehicle per day when driven	0.4	
Average distance driven between charging events (mi)	254.8	
Average number of trips between charging events	20.0	
Average time plugged in per charging event (hr)	21.1	
Average time plugged in and drawing power (hr)	21.1	
Average time charging per charging event (power > 200 w) (hr)	7.6	
Average energy per charging event (AC kWh)	4.7	
Average charging energy per vehicle per month (AC kWh)	23.6	
Total number of charging events	5	
Total charging energy (AC kWh)	24	

Time of Day When Driving



Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Date range of data received: 11/01/2012 to 11/30/2012

Reporting period: November 2012 Number of vehicle days driven: 18

All Trips Combined

Number of vehicles:

Overall gasoline fuel economy (mpg)	34
Overall AC electrical energy consumption (AC Wh/mi) ¹	8
Overall DC electrical energy consumption (DC Wh/mi) ²	6
Total number of trips	154
Total distance traveled (mi)	1,218

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	30
DC electrical energy consumption (DC Wh/mi) ⁴	49
Number of trips	5
Percent of trips city highway	40% 60%
Distance traveled (mi)	10
Percent of total distance traveled	1%

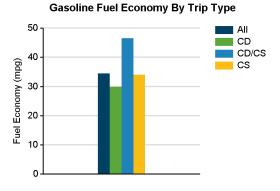
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

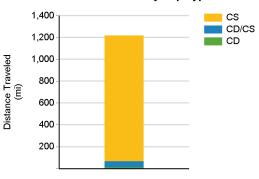
Gasoline fuel economy (mpg)	47
DC electrical energy consumption (DC Wh/mi) ⁶	48
Number of trips	4
Percent of trips city highway	25% 75%
Distance traveled (mi)	55
Percent of total distance traveled	5%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	34
Number of trips	145
Percent of trips city highway	77% 23%
Distance traveled (mi)	1,153
Percent of total distance traveled	95%

Quantum SCAQMD #11

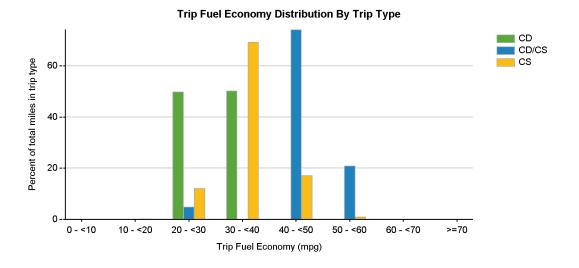




Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.

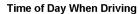


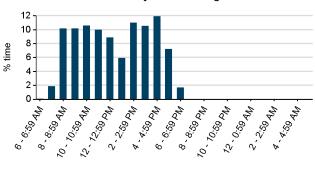
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	26	35
DC electrical energy consumption (DC Wh/mi)	62	35
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	6	3
Average trip distance (mi)	2.5	1.7
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	29	48
DC electrical energy consumption (DC Wh/mi)	6	51
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	3
Average trip distance (mi)	2.7	17.4
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	31	37
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	4.8	18.3



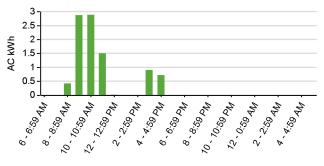


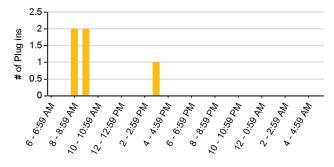
Average number of charging events per vehicle per month when driven	5	
Average number of charging events per vehicle per day when driven	0.3	
Average distance driven between charging events (mi)	243.6	
Average number of trips between charging events	30.8	
Average time plugged in per charging event (hr)	1.9	
Average time plugged in and drawing power (hr)	1.9	
Average time charging per charging event (power > 200 w) (hr)	1.9	
Average energy per charging event (AC kWh)	1.9	
Average charging energy per vehicle per month (AC kWh)	9.3	
Total number of charging events	5	
Total charging energy (AC kWh)	9	





Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #9 Date range of data received: 11/01/2012 to 11/30/2012

10

Reporting period: November 2012 Number of vehicle days driven: 17

All Trips Combined

Number of vehicles:

Overall gasoline fuel economy (mpg)	35
Overall AC electrical energy consumption (AC Wh/mi) ¹	14
Overall DC electrical energy consumption (DC Wh/mi) ²	9
Total number of trips	126
Total distance traveled (mi)	1,621

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	38
DC electrical energy consumption (DC Wh/mi) ⁴	53
Number of trips	10
Percent of trips city highway	50% 50%
Distance traveled (mi)	134
Percent of total distance traveled	8%

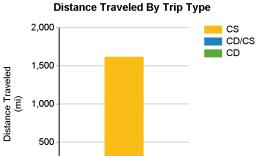
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁶	48
Number of trips	4
Percent of trips city highway	25% 75%
Distance traveled (mi)	135
Percent of total distance traveled	8%

Trips in Charge Sustaining (CS) mode7

Gasoline fuel economy (mpg)	35
Number of trips	112
Percent of trips city highway	60% 40%
Distance traveled (mi)	1,352
Percent of total distance traveled	83%

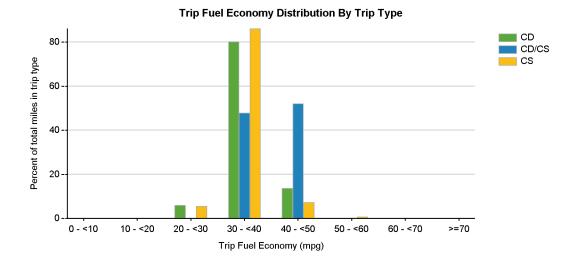
Gasoline Fuel Economy By Trip Type 40 CD CD/CS Fuel Economy (mpg) CS



Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



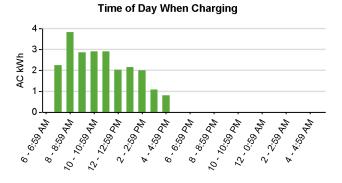
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	33	40
DC electrical energy consumption (DC Wh/mi)	62	51
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	5.8	20.9
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	42	39
DC electrical energy consumption (DC Wh/mi)	26	48
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	3.2	43.9
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	34	35
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	3.3	25.1

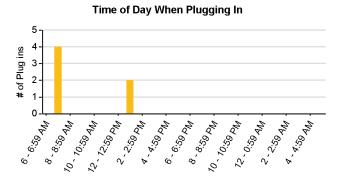




Average number of charging events per vehicle per month when driven	6	
Average number of charging events per vehicle per day when driven	0.4	
Average distance driven between charging events (mi)	270.2	
Average number of trips between charging events	21.0	
Average time plugged in per charging event (hr)	4.2	
Average time plugged in and drawing power (hr)	4.2	
Average time charging per charging event (power > 200 w) (hr)	4.2	
Average energy per charging event (AC kWh)	3.8	
Average charging energy per vehicle per month (AC kWh)	22.9	
Total number of charging events	6	
Total charging energy (AC kWh)	23	











SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #15

Number of vehicles: 1 Date range of data received: 11/01/2012 to 11/28/2012

Reporting period: November 2012 Number of vehicle days driven: 10

All Trips Combined

Overall gasoline fuel economy (mpg)	38
Overall AC electrical energy consumption (AC Wh/mi) ¹	99
Overall DC electrical energy consumption (DC Wh/mi) ²	46
Total number of trips	72
Total distance traveled (mi)	435

Trips in Charge Depleting (CD) mode³

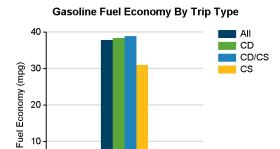
Gasoline fuel economy (mpg)	38
DC electrical energy consumption (DC Wh/mi) ⁴	66
Number of trips	64
Percent of trips city highway	86% 14%
Distance traveled (mi)	275
Percent of total distance traveled	63%

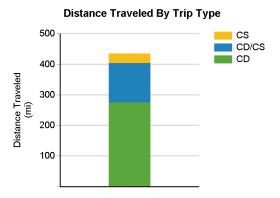
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁶	20
Number of trips	3
Percent of trips city highway	0% 100%
Distance traveled (mi)	129
Percent of total distance traveled	30%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	31
Number of trips	5
Percent of trips city highway	80% 20%
Distance traveled (mi)	31
Percent of total distance traveled	7%

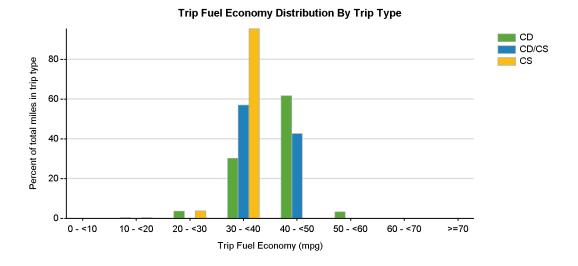




Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



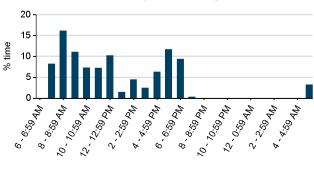
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	36	39
DC electrical energy consumption (DC Wh/mi)	74	62
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	1.5	21.4
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	0	39
DC electrical energy consumption (DC Wh/mi)	0	20
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸		2
Average trip distance (mi)	0.0	43.0
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	26	31
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	6	3
Average trip distance (mi)	0.4	29.7



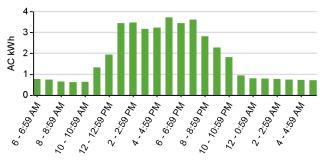


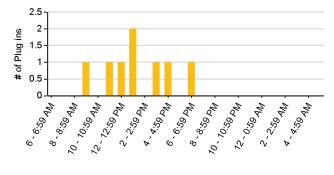
Average number of charging events per vehicle per month when driven	8	
Average number of charging events per vehicle per day when driven	0.8	
Average distance driven between charging events (mi)	54.4	
Average number of trips between charging events	9.0	
Average time plugged in per charging event (hr)	56.7	
Average time plugged in and drawing power (hr)	56.7	
Average time charging per charging event (power > 200 w) (hr)	7.0	
Average energy per charging event (AC kWh)	5.4	
Average charging energy per vehicle per month (AC kWh)	43.0	
Total number of charging events	8	
Total charging energy (AC kWh)	43	

Time of Day When Driving



Time of Day When Charging









SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #19

Number of vehicles: Date range of data received: 11/01/2012 to 11/30/2012

Reporting period: November 2012 Number of vehicle days driven: 17

All Trips Combined

Overall gasoline fuel economy (mpg)	36
Overall AC electrical energy consumption (AC Wh/mi) ¹	73
Overall DC electrical energy consumption (DC Wh/mi) ²	61
Total number of trips	138
Total distance traveled (mi)	687

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	36
DC electrical energy consumption (DC Wh/mi) ⁴	62
Number of trips	125
Percent of trips city highway	84% 16%
Distance traveled (mi)	603
Percent of total distance traveled	88%

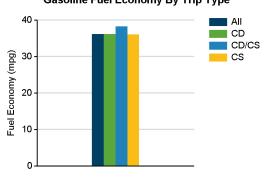
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

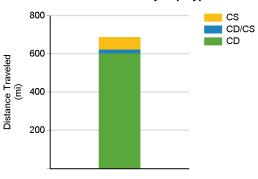
Gasoline fuel economy (mpg)	38
DC electrical energy consumption (DC Wh/mi) ⁶	126
Number of trips	2
Percent of trips city highway	100% 0%
Distance traveled (mi)	19
Percent of total distance traveled	3%

Trips in Charge Sustaining (CS) mode7

Gasoline fuel economy (mpg)	36
Number of trips	11
Percent of trips city highway	82% 18%
Distance traveled (mi)	65
Percent of total distance traveled	9%

Gasoline Fuel Economy By Trip Type

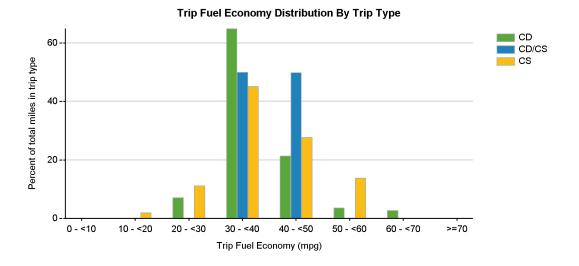




Notes: 1 - 8. Please see http://avt.inl.gov/pdf/phev/SCAQMDreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.



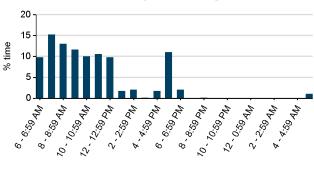
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	36	37
DC electrical energy consumption (DC Wh/mi)	64	53
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	4.6	6.3
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	38	0
DC electrical energy consumption (DC Wh/mi)	126	0
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	
Average trip distance (mi)	9.5	0.0
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	39	32
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	4
Average trip distance (mi)	4.7	11.2





Average number of charging events per vehicle per month when driven	21	
Average number of charging events per vehicle per day when driven	1.2	
Average distance driven between charging events (mi)	32.7	
Average number of trips between charging events	6.6	
Average time plugged in per charging event (hr)	4.2	
Average time plugged in and drawing power (hr)	4.2	
Average time charging per charging event (power > 200 w) (hr)	3.8	
Average energy per charging event (AC kWh)	2.4	
Average charging energy per vehicle per month (AC kWh)	49.8	
Total number of charging events	21	
Total charging energy (AC kWh)	50	

Time of Day When Driving



Time of Day When Charging

