

SCAQMD Quantum Escape PHEV Report

All Vehicles

Number of vehicles: 18

Date range of data received: 07/01/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 258

All Trips Combined

Overall gasoline fuel economy (mpg)	35
Overall AC electrical energy consumption (AC Wh/mi) ¹	53
Overall DC electrical energy consumption (DC Wh/mi) ²	34
Total number of trips	1,515
Total distance traveled (mi)	15,617

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁴	65
Number of trips	739
Percent of trips city highway	74% 26%
Distance traveled (mi)	4,915
Percent of total distance traveled	31%

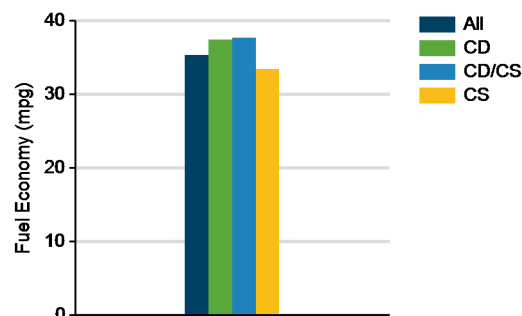
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	38
DC electrical energy consumption (DC Wh/mi) ⁶	58
Number of trips	93
Percent of trips city highway	38% 62%
Distance traveled (mi)	2,842
Percent of total distance traveled	18%

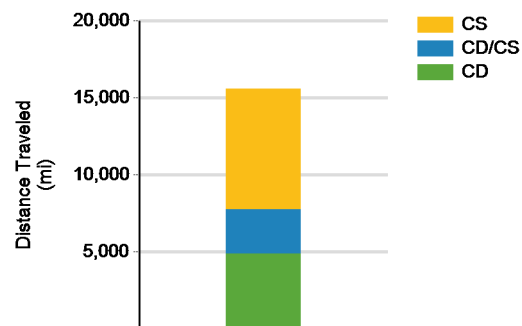
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	33
Number of trips	683
Percent of trips city highway	72% 28%
Distance traveled (mi)	7,860
Percent of total distance traveled	50%

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

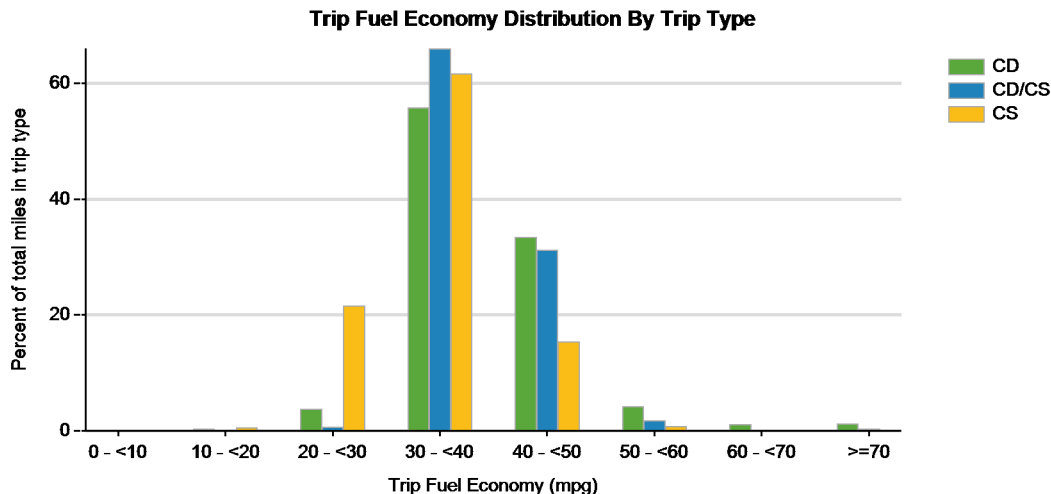
	City	Highway
Gasoline fuel economy (mpg)	35	39
DC electrical energy consumption (DC Wh/mi)	71	61
Percent of miles with internal combustion engine off	2%	1%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	3.5	15.9

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	39	37
DC electrical energy consumption (DC Wh/mi)	81	53
Percent of miles with internal combustion engine off	1%	1%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	14.7	40.1

Trips in Charge Sustaining (CS) mode

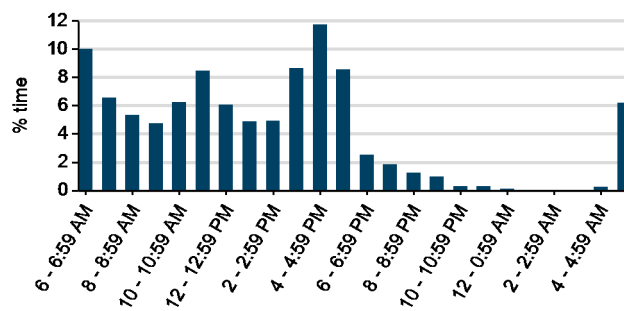
Gasoline fuel economy (mpg)	31	34
Percent of miles with internal combustion engine off	4%	1%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	3.6	32.0



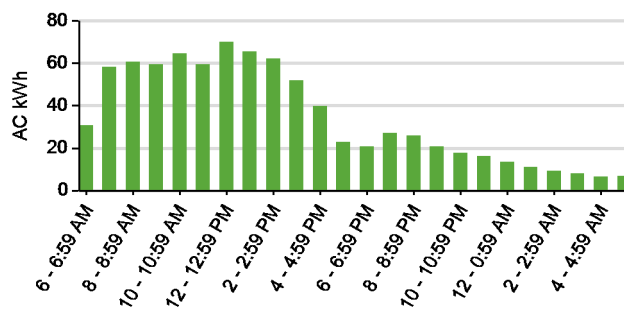
Plug-in charging

Average number of charging events per vehicle per month when driven	14
Average number of charging events per vehicle per day when driven	0.9
Average distance driven between charging events (mi)	65.6
Average number of trips between charging events	6.4
Average time plugged in per charging event (hr)	15.8
Average time plugged in and drawing power (hr)	15.3
Average time charging per charging event (power > 200 w) (hr)	4.4
Average energy per charging event (AC kWh)	3.5
Average charging energy per vehicle per month (AC kWh)	49.1
Total number of charging events	238
Total charging energy (AC kWh)	834

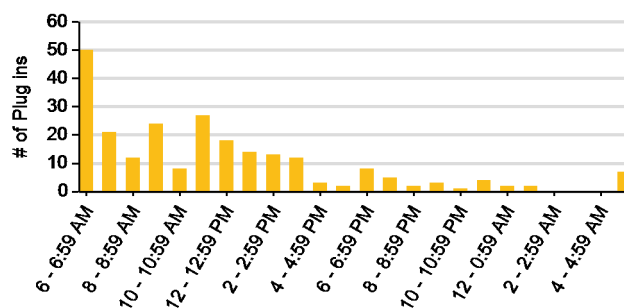
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #QF14

Number of vehicles: 1

Date range of data received:

07/01/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 17

All Trips Combined

Overall gasoline fuel economy (mpg)	38
Overall AC electrical energy consumption (AC Wh/mi) ¹	85
Overall DC electrical energy consumption (DC Wh/mi) ²	52
Total number of trips	106
Total distance traveled (mi)	884

Trips in Charge Depleting (CD) mode³

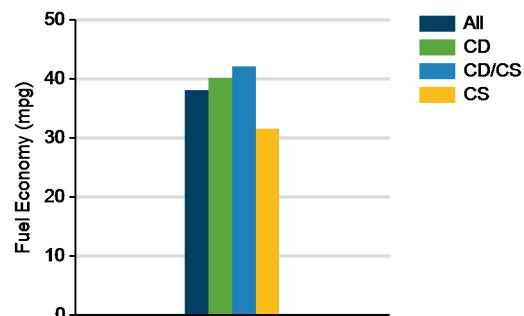
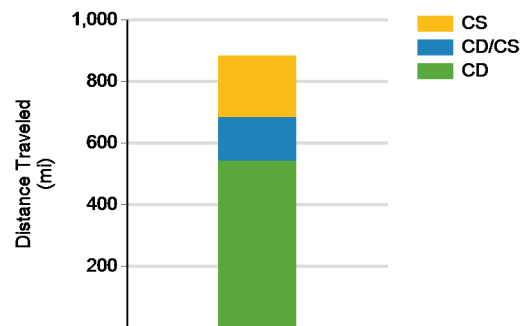
Gasoline fuel economy (mpg)	40
DC electrical energy consumption (DC Wh/mi) ⁴	68
Number of trips	80
Percent of trips city highway	55% 45%
Distance traveled (mi)	542
Percent of total distance traveled	61%

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

Gasoline fuel economy (mpg)	42
DC electrical energy consumption (DC Wh/mi) ⁶	63
Number of trips	7
Percent of trips city highway	29% 71%
Distance traveled (mi)	141
Percent of total distance traveled	16%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	19
Percent of trips city highway	68% 32%
Distance traveled (mi)	201
Percent of total distance traveled	23%

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

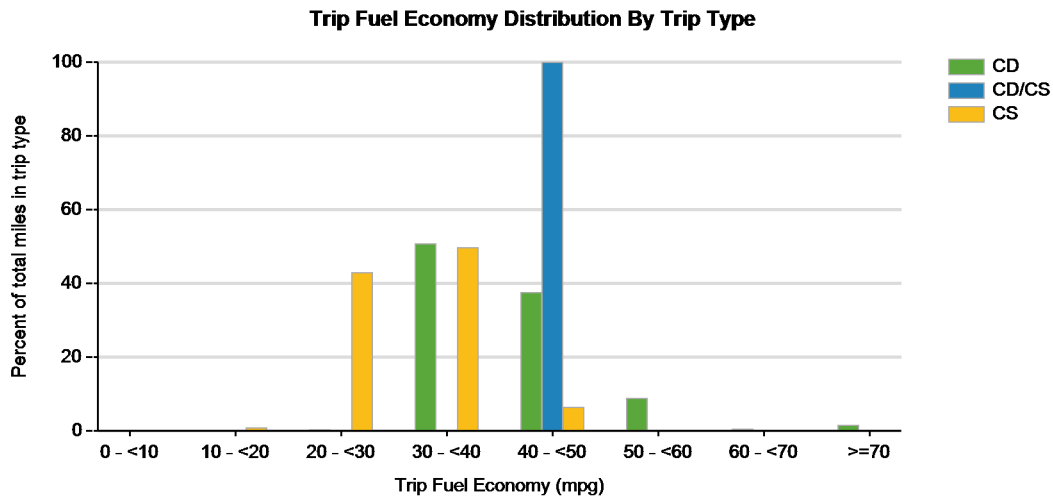
	City	Highway
Gasoline fuel economy (mpg)	40	40
DC electrical energy consumption (DC Wh/mi)	67	68
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	3.6	10.6

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	42	42
DC electrical energy consumption (DC Wh/mi)	91	57
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	12.4	23.2

Trips in Charge Sustaining (CS) mode

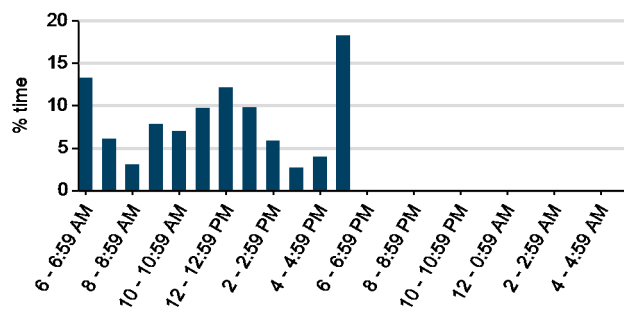
Gasoline fuel economy (mpg)	27	33
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	6	3
Average trip distance (mi)	3.8	25.3



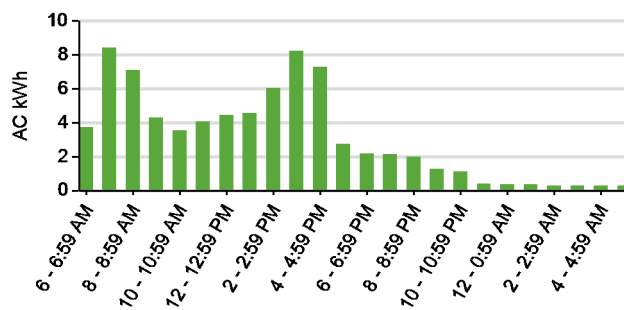
Plug-in charging

Average number of charging events per vehicle per month when driven	23
Average number of charging events per vehicle per day when driven	1.4
Average distance driven between charging events (mi)	38.4
Average number of trips between charging events	4.6
Average time plugged in per charging event (hr)	10.7
Average time plugged in and drawing power (hr)	10.7
Average time charging per charging event (power > 200 w) (hr)	5.7
Average energy per charging event (AC kWh)	3.3
Average charging energy per vehicle per month (AC kWh)	75.5
Total number of charging events	23
Total charging energy (AC kWh)	75

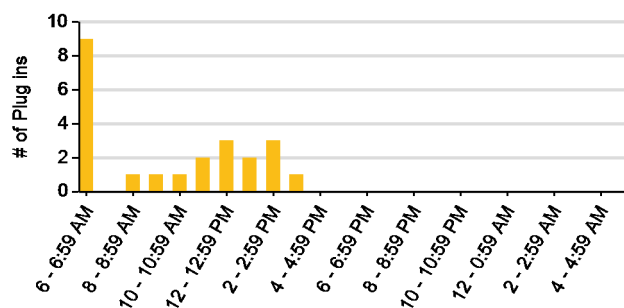
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #24

Number of vehicles: 1

Date range of data received:

07/06/2012 to 07/27/2012

Reporting period: July 2012

Number of vehicle days driven: 13

All Trips Combined

Overall gasoline fuel economy (mpg)	39
Overall AC electrical energy consumption (AC Wh/mi) ¹	18
Overall DC electrical energy consumption (DC Wh/mi) ²	56
Total number of trips	68
Total distance traveled (mi)	483

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁴	67
Number of trips	57
Percent of trips city highway	60% 40%
Distance traveled (mi)	318
Percent of total distance traveled	66%

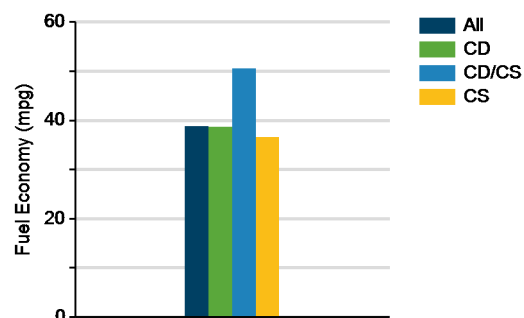
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	51
DC electrical energy consumption (DC Wh/mi) ⁶	97
Number of trips	3
Percent of trips city highway	67% 33%
Distance traveled (mi)	38
Percent of total distance traveled	8%

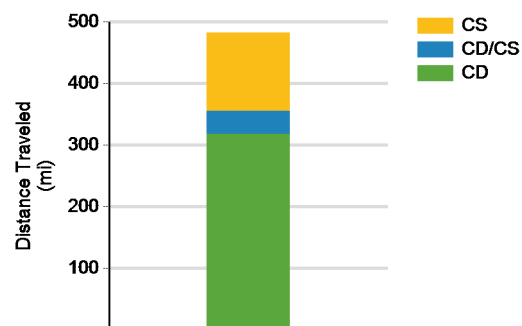
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	37
Number of trips	8
Percent of trips city highway	25% 75%
Distance traveled (mi)	128
Percent of total distance traveled	26%

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

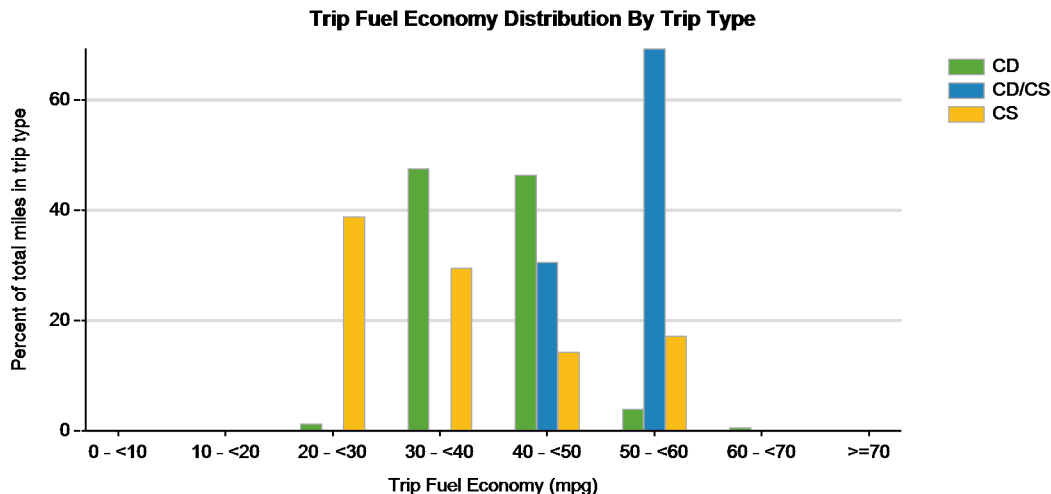
	City	Highway
Gasoline fuel economy (mpg)	37	40
DC electrical energy consumption (DC Wh/mi)	80	55
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	3
Average trip distance (mi)	9.2	18.0

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	49	51
DC electrical energy consumption (DC Wh/mi)	151	74
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	11.6	3.7

Trips in Charge Sustaining (CS) mode

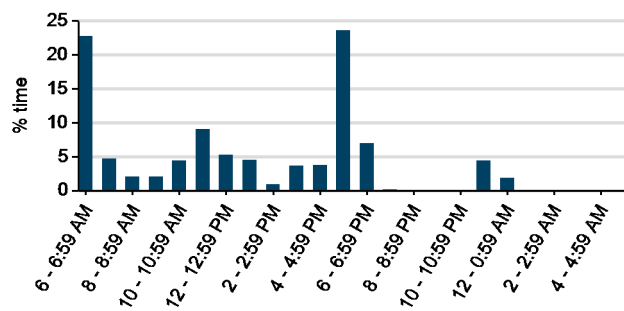
Gasoline fuel economy (mpg)	48	36
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	0.2	3.3



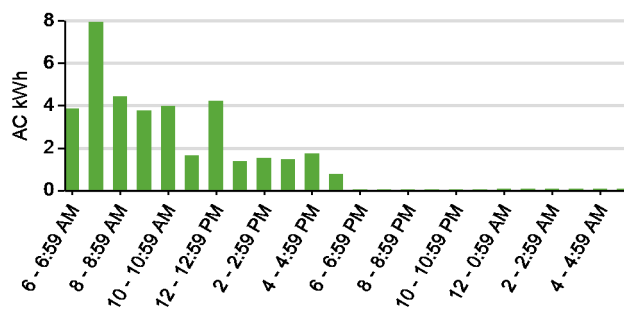
Plug-in charging

Average number of charging events per vehicle per month when driven	19
Average number of charging events per vehicle per day when driven	1.5
Average distance driven between charging events (mi)	103.9
Average number of trips between charging events	6.1
Average time plugged in per charging event (hr)	4.7
Average time plugged in and drawing power (hr)	4.7
Average time charging per charging event (power > 200 w) (hr)	3.2
Average energy per charging event (AC kWh)	1.9
Average charging energy per vehicle per month (AC kWh)	35.9
Total number of charging events	19
Total charging energy (AC kWh)	36

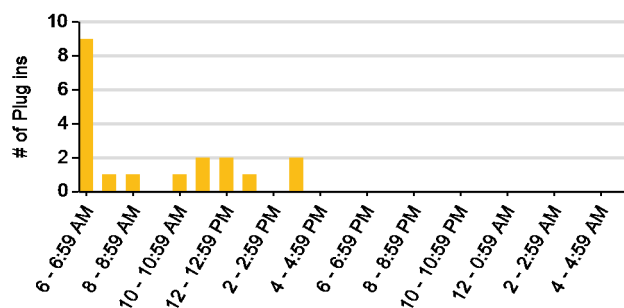
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #23

Number of vehicles: 1

Date range of data received:

07/03/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 16

All Trips Combined

Overall gasoline fuel economy (mpg)	35
Overall AC electrical energy consumption (AC Wh/mi) ¹	26
Overall DC electrical energy consumption (DC Wh/mi) ²	19
Total number of trips	128
Total distance traveled (mi)	1,968

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	41
DC electrical energy consumption (DC Wh/mi) ⁴	69
Number of trips	26
Percent of trips city highway	50% 50%
Distance traveled (mi)	326
Percent of total distance traveled	17%

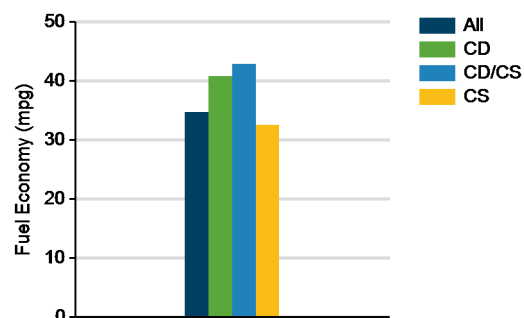
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	43
DC electrical energy consumption (DC Wh/mi) ⁶	43
Number of trips	7
Percent of trips city highway	29% 71%
Distance traveled (mi)	252
Percent of total distance traveled	13%

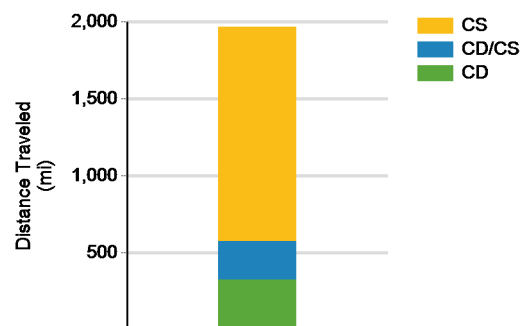
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	95
Percent of trips city highway	73% 27%
Distance traveled (mi)	1,390
Percent of total distance traveled	71%

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

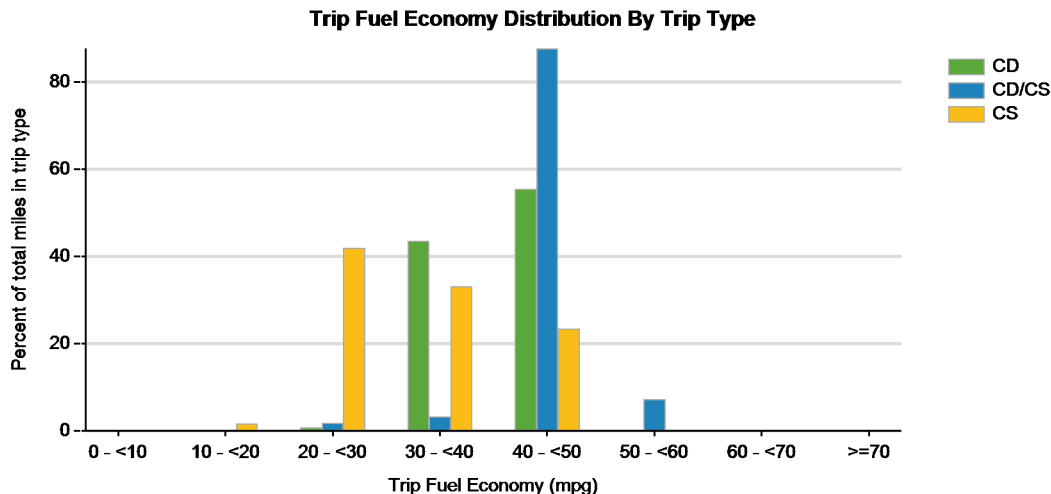
	City	Highway
Gasoline fuel economy (mpg)	34	41
DC electrical energy consumption (DC Wh/mi)	111	66
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	1.0	34.4

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	42	43
DC electrical energy consumption (DC Wh/mi)	76	39
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	30.2	31.8

Trips in Charge Sustaining (CS) mode

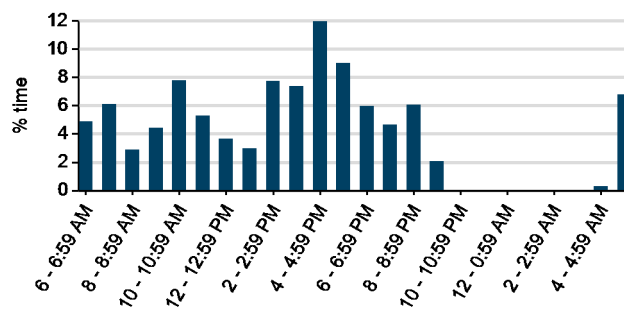
Gasoline fuel economy (mpg)	28	34
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	6.0	31.1



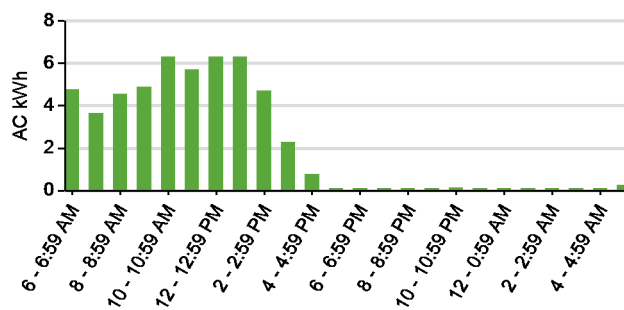
Plug-in charging

Average number of charging events per vehicle per month when driven	13
Average number of charging events per vehicle per day when driven	0.8
Average distance driven between charging events (mi)	151.9
Average number of trips between charging events	8.8
Average time plugged in per charging event (hr)	10.5
Average time plugged in and drawing power (hr)	10.5
Average time charging per charging event (power > 200 w) (hr)	4.3
Average energy per charging event (AC kWh)	4.0
Average charging energy per vehicle per month (AC kWh)	51.9
Total number of charging events	13
Total charging energy (AC kWh)	52

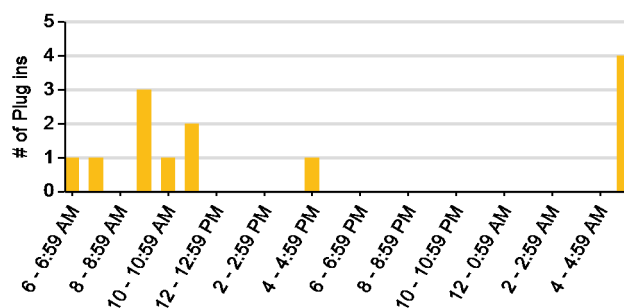
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #21

Number of vehicles: 1

Date range of data received:

07/06/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 21

All Trips Combined

Overall gasoline fuel economy (mpg)	33
Overall AC electrical energy consumption (AC Wh/mi) ¹	60
Overall DC electrical energy consumption (DC Wh/mi) ²	44
Total number of trips	98
Total distance traveled (mi)	1,377

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	32
DC electrical energy consumption (DC Wh/mi) ⁴	67
Number of trips	51
Percent of trips city highway	67% 33%
Distance traveled (mi)	531
Percent of total distance traveled	39%

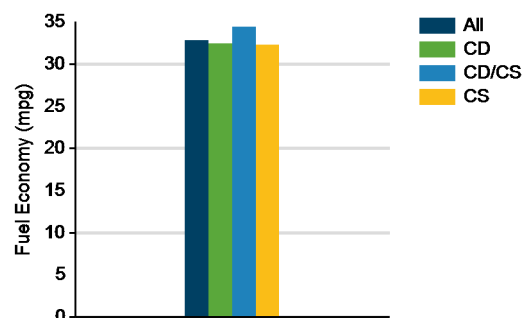
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	34
DC electrical energy consumption (DC Wh/mi) ⁶	57
Number of trips	12
Percent of trips city highway	50% 50%
Distance traveled (mi)	349
Percent of total distance traveled	25%

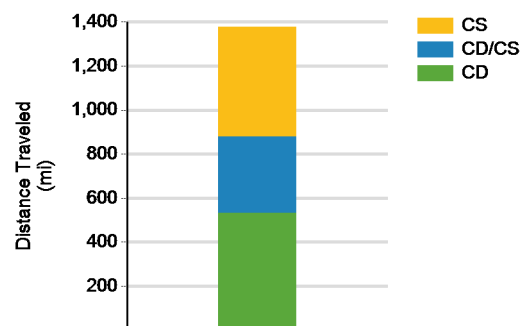
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	35
Percent of trips city highway	77% 23%
Distance traveled (mi)	496
Percent of total distance traveled	36%

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

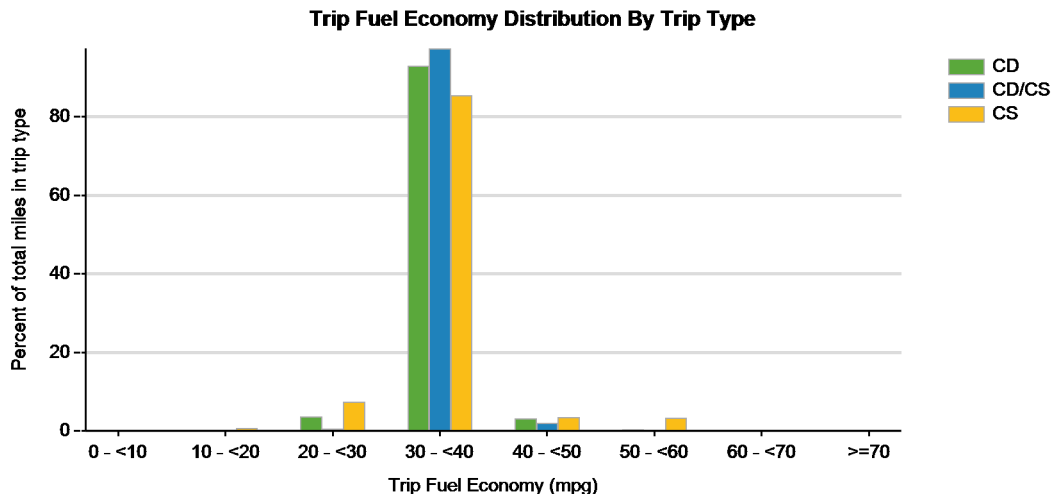
	City	Highway
Gasoline fuel economy (mpg)	33	32
DC electrical energy consumption (DC Wh/mi)	72	61
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	4
Average trip distance (mi)	8.0	15.3

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	36	33
DC electrical energy consumption (DC Wh/mi)	80	42
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	4
Average trip distance (mi)	23.4	34.8

Trips in Charge Sustaining (CS) mode

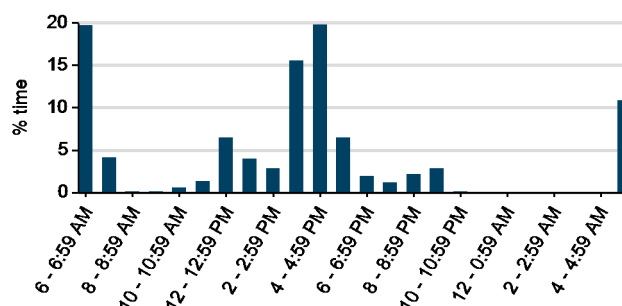
Gasoline fuel economy (mpg)	32	32
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	5.3	44.0



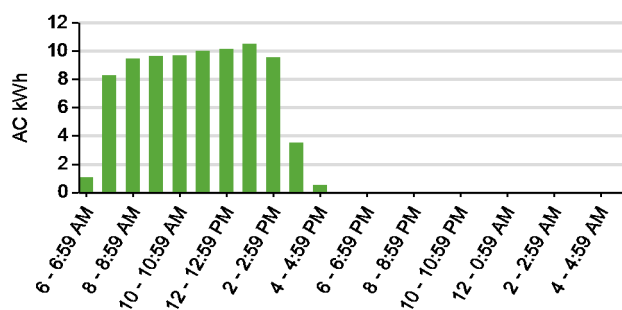
Plug-in charging

Average number of charging events per vehicle per month when driven	21
Average number of charging events per vehicle per day when driven	1.0
Average distance driven between charging events (mi)	65.6
Average number of trips between charging events	4.7
Average time plugged in per charging event (hr)	5.5
Average time plugged in and drawing power (hr)	5.5
Average time charging per charging event (power > 200 w) (hr)	4.6
Average energy per charging event (AC kWh)	3.9
Average charging energy per vehicle per month (AC kWh)	82.5
Total number of charging events	21
Total charging energy (AC kWh)	82

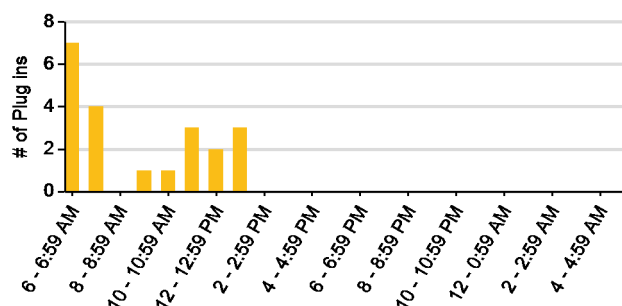
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #20

Number of vehicles: 1

Date range of data received:

07/03/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 15

All Trips Combined

Overall gasoline fuel economy (mpg)	32
Overall AC electrical energy consumption (AC Wh/mi) ¹	15
Overall DC electrical energy consumption (DC Wh/mi) ²	30
Total number of trips	133
Total distance traveled (mi)	691

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	36
DC electrical energy consumption (DC Wh/mi) ⁴	84
Number of trips	44
Percent of trips city highway	86% 14%
Distance traveled (mi)	168
Percent of total distance traveled	24%

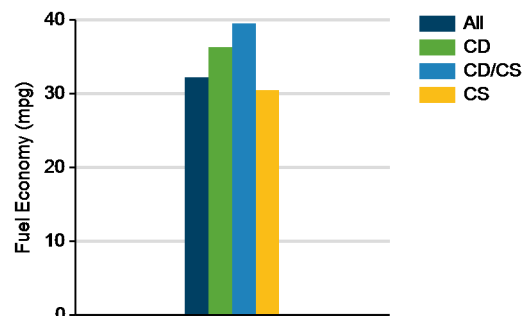
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁶	109
Number of trips	4
Percent of trips city highway	100% 0%
Distance traveled (mi)	46
Percent of total distance traveled	7%

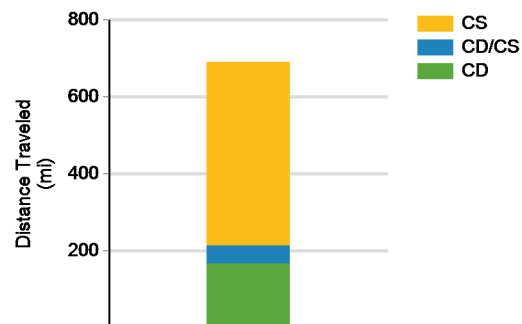
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	30
Number of trips	85
Percent of trips city highway	86% 14%
Distance traveled (mi)	477
Percent of total distance traveled	69%

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

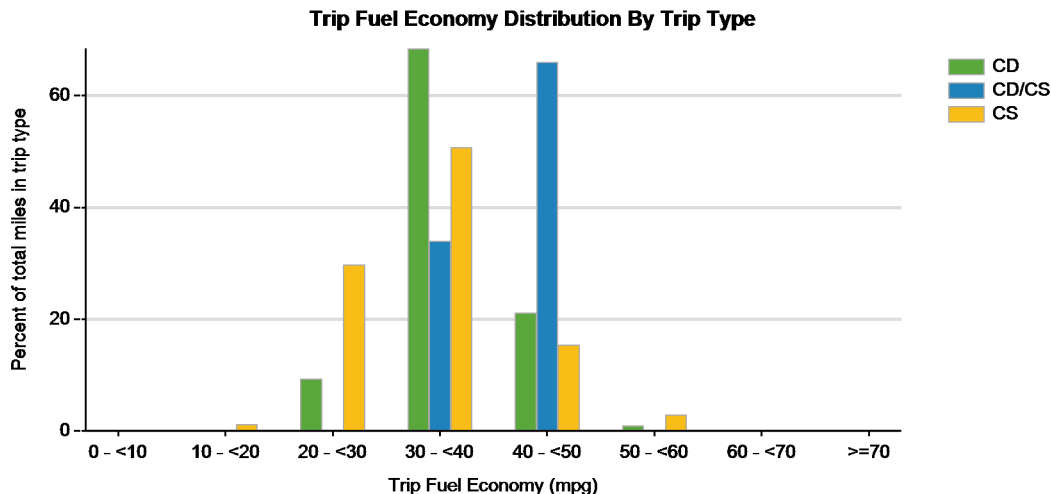
	City	Highway
Gasoline fuel economy (mpg)	36	36
DC electrical energy consumption (DC Wh/mi)	109	65
Percent of miles with internal combustion engine off	17%	6%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	4.3	10.6

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	39	0
DC electrical energy consumption (DC Wh/mi)	109	0
Percent of miles with internal combustion engine off	10%	0%
Average trip driving intensity ⁸	4	
Average trip distance (mi)	45.9	0.0

Trips in Charge Sustaining (CS) mode

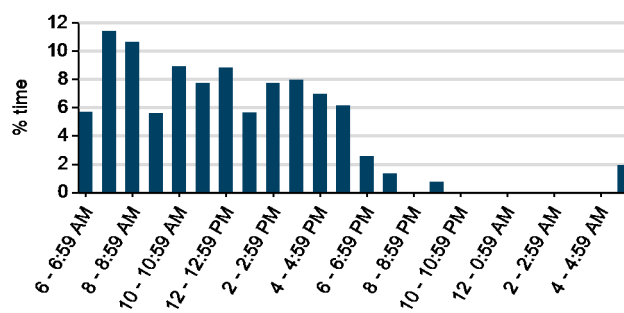
Gasoline fuel economy (mpg)	28	33
Percent of miles with internal combustion engine off	16%	6%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	5.5	6.3



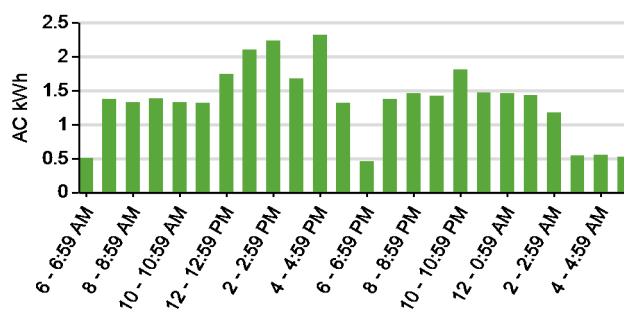
Plug-in charging

Average number of charging events per vehicle per month when driven	8
Average number of charging events per vehicle per day when driven	0.5
Average distance driven between charging events (mi)	246.8
Average number of trips between charging events	14.4
Average time plugged in per charging event (hr)	26.4
Average time plugged in and drawing power (hr)	26.4
Average time charging per charging event (power > 200 w) (hr)	4.9
Average energy per charging event (AC kWh)	3.8
Average charging energy per vehicle per month (AC kWh)	30.2
Total number of charging events	8
Total charging energy (AC kWh)	30

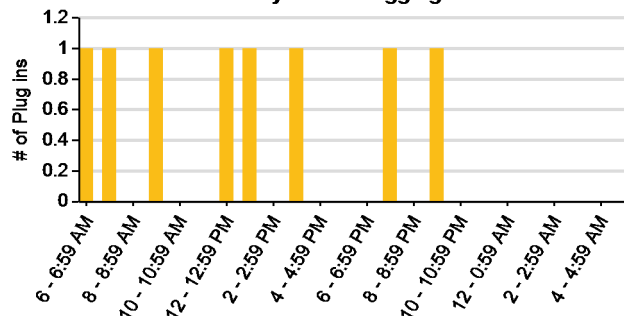
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #18

Number of vehicles: 1

Date range of data received:

07/02/2012 to 07/27/2012

Reporting period: July 2012

Number of vehicle days driven: 15

All Trips Combined

Overall gasoline fuel economy (mpg)	32
Overall AC electrical energy consumption (AC Wh/mi) ¹	22
Overall DC electrical energy consumption (DC Wh/mi) ²	24
Total number of trips	83
Total distance traveled (mi)	1,097

Trips in Charge Depleting (CD) mode³

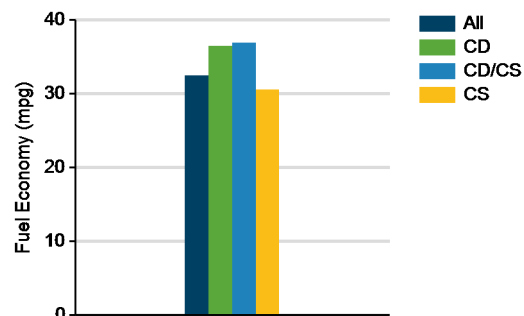
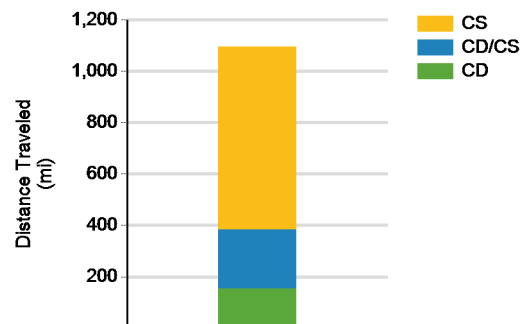
Gasoline fuel economy (mpg)	36
DC electrical energy consumption (DC Wh/mi) ⁴	51
Number of trips	19
Percent of trips city highway	79% 21%
Distance traveled (mi)	154
Percent of total distance traveled	14%

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

Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁶	64
Number of trips	6
Percent of trips city highway	17% 83%
Distance traveled (mi)	229
Percent of total distance traveled	21%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	31
Number of trips	58
Percent of trips city highway	62% 38%
Distance traveled (mi)	714
Percent of total distance traveled	65%

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

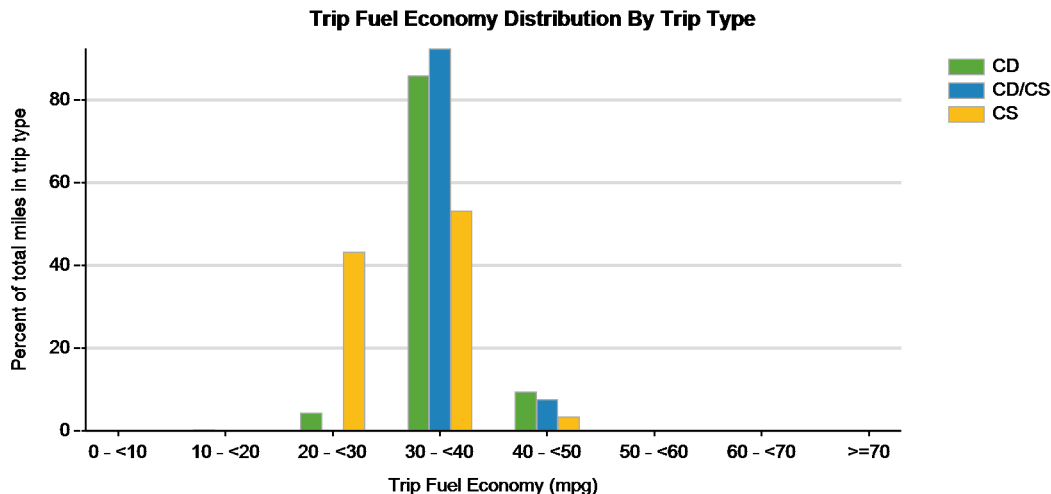
	City	Highway
Gasoline fuel economy (mpg)	36	36
DC electrical energy consumption (DC Wh/mi)	44	56
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	3
Average trip distance (mi)	3.3	10.8

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	37	37
DC electrical energy consumption (DC Wh/mi)	174	64
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	2
Average trip distance (mi)	0.9	32.5

Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	29	31
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	1.8	17.6



Average number of charging events per vehicle per month when driven	8
Average number of charging events per vehicle per day when driven	0.5
Average distance driven between charging events (mi)	246.8
Average number of trips between charging events	14.4
Average time plugged in per charging event (hr)	33.7
Average time plugged in and drawing power (hr)	33.7
Average time charging per charging event (power > 200 w) (hr)	5.2
Average energy per charging event (AC kWh)	5.5
Average charging energy per vehicle per month (AC kWh)	44.1
Total number of charging events	8
Total charging energy (AC kWh)	44

[illegible]

Time Interval	AC kWh
6 - 6:59 AM	1.9
8 - 8:59 AM	3.8
10 - 10:59 AM	4.0
12 - 12:59 PM	4.8
2 - 2:59 PM	4.2
4 - 4:59 PM	3.6
6 - 6:59 PM	2.8
8 - 8:59 PM	1.5
10 - 10:59 PM	0.5
12 - 0:59 AM	0.3
2 - 2:59 AM	0.4
4 - 4:59 AM	0.4

Time Slot	# of Plug Ins
6 - 6:59 AM	3
8 - 8:59 AM	1
10 - 10:59 AM	1
12 - 12:59 PM	1
2 - 2:59 PM	1
4 - 4:59 PM	1
6 - 6:59 PM	0
8 - 8:59 PM	0
10 - 10:59 PM	0
12 - 0:59 AM	0
2 - 2:59 AM	0
4 - 4:59 AM	0

SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #17

Number of vehicles: 1

Date range of data received:

07/02/2012 to 07/27/2012

Reporting period: July 2012

Number of vehicle days driven: 19

All Trips Combined

Overall gasoline fuel economy (mpg)	38
Overall AC electrical energy consumption (AC Wh/mi) ¹	18
Overall DC electrical energy consumption (DC Wh/mi) ²	23
Total number of trips	81
Total distance traveled (mi)	835

Trips in Charge Depleting (CD) mode³

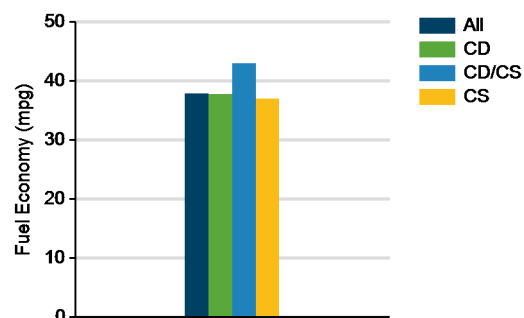
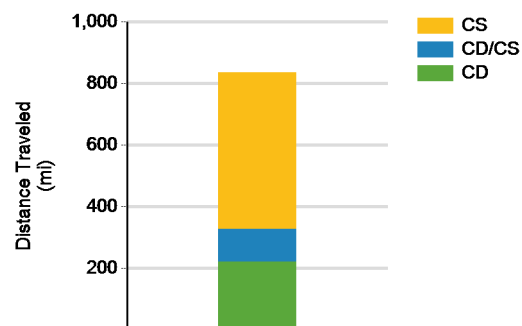
Gasoline fuel economy (mpg)	38
DC electrical energy consumption (DC Wh/mi) ⁴	46
Number of trips	31
Percent of trips city highway	87% 13%
Distance traveled (mi)	221
Percent of total distance traveled	26%

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

Gasoline fuel economy (mpg)	43
DC electrical energy consumption (DC Wh/mi) ⁶	61
Number of trips	3
Percent of trips city highway	0% 100%
Distance traveled (mi)	108
Percent of total distance traveled	13%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	37
Number of trips	47
Percent of trips city highway	83% 17%
Distance traveled (mi)	507
Percent of total distance traveled	61%

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

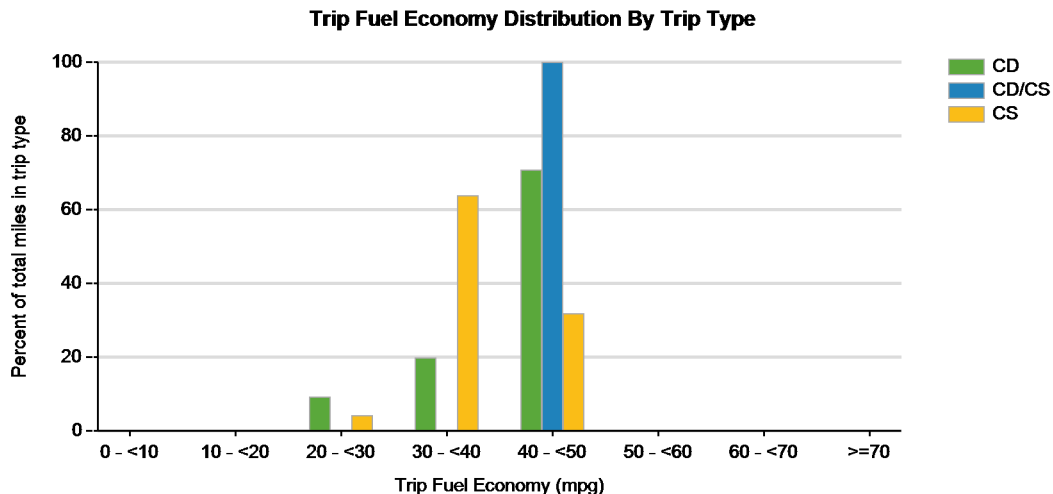
	City	Highway
Gasoline fuel economy (mpg)	38	37
DC electrical energy consumption (DC Wh/mi)	40	61
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	4
Average trip distance (mi)	9.4	6.8

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	0	43
DC electrical energy consumption (DC Wh/mi)	0	61
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸		3
Average trip distance (mi)	0.0	15.4

Trips in Charge Sustaining (CS) mode

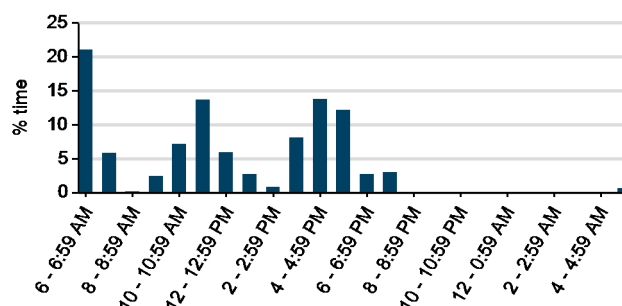
Gasoline fuel economy (mpg)	35	38
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	5.1	7.7



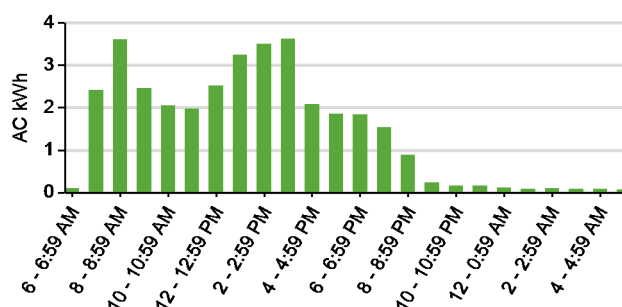
Plug-in charging

Average number of charging events per vehicle per month when driven	15
Average number of charging events per vehicle per day when driven	0.8
Average distance driven between charging events (mi)	131.7
Average number of trips between charging events	7.7
Average time plugged in per charging event (hr)	4.7
Average time plugged in and drawing power (hr)	4.7
Average time charging per charging event (power > 200 w) (hr)	4.7
Average energy per charging event (AC kWh)	2.3
Average charging energy per vehicle per month (AC kWh)	34.8
Total number of charging events	15
Total charging energy (AC kWh)	35

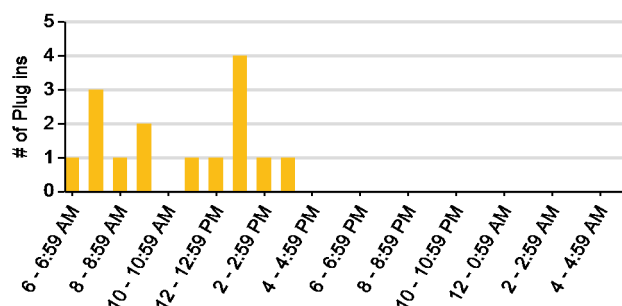
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #16

Number of vehicles: 1

Date range of data received:

07/02/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 18

All Trips Combined

Overall gasoline fuel economy (mpg)	35
Overall AC electrical energy consumption (AC Wh/mi) ¹	33
Overall DC electrical energy consumption (DC Wh/mi) ²	47
Total number of trips	77
Total distance traveled (mi)	818

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	36
DC electrical energy consumption (DC Wh/mi) ⁴	57
Number of trips	58
Percent of trips city highway	85% 16%
Distance traveled (mi)	404
Percent of total distance traveled	49%

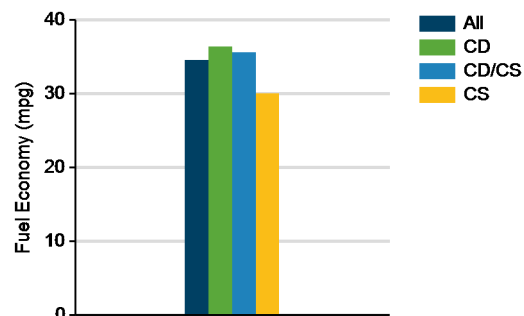
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	36
DC electrical energy consumption (DC Wh/mi) ⁶	54
Number of trips	5
Percent of trips city highway	0% 100%
Distance traveled (mi)	235
Percent of total distance traveled	29%

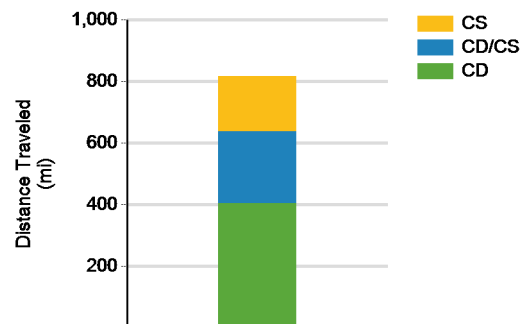
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	30
Number of trips	14
Percent of trips city highway	71% 29%
Distance traveled (mi)	179
Percent of total distance traveled	22%

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

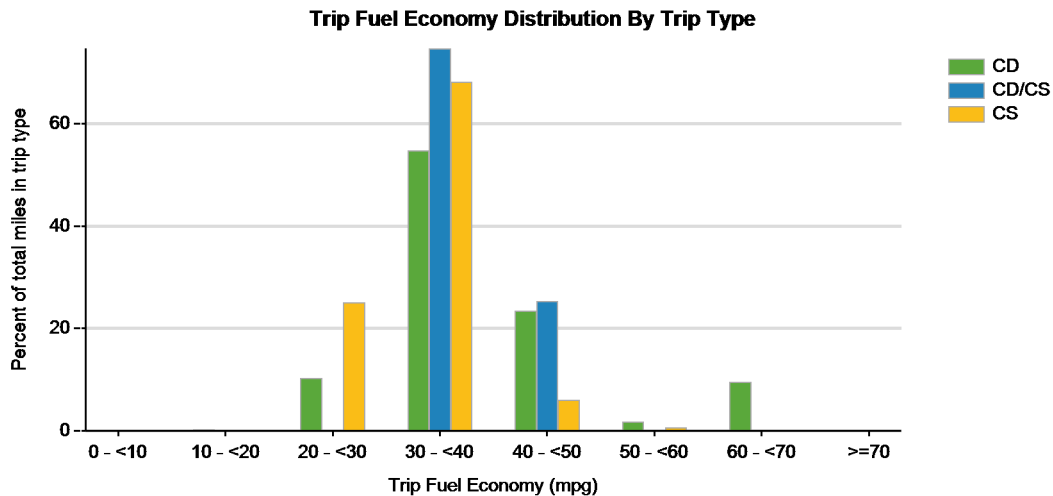
	City	Highway
Gasoline fuel economy (mpg)	33	39
DC electrical energy consumption (DC Wh/mi)	69	50
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	8.6	28.6

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	0	36
DC electrical energy consumption (DC Wh/mi)	0	54
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸		3
Average trip distance (mi)	0.0	33.5

Trips in Charge Sustaining (CS) mode

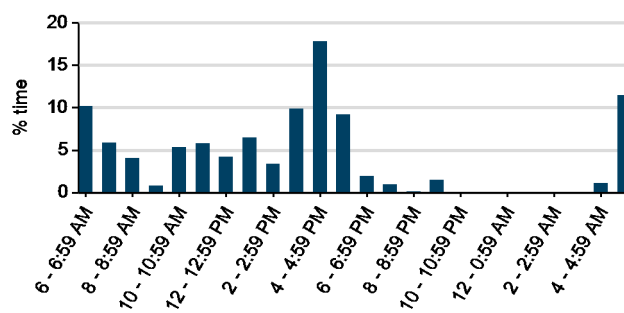
Gasoline fuel economy (mpg)	28	30
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	3
Average trip distance (mi)	0.4	4.5



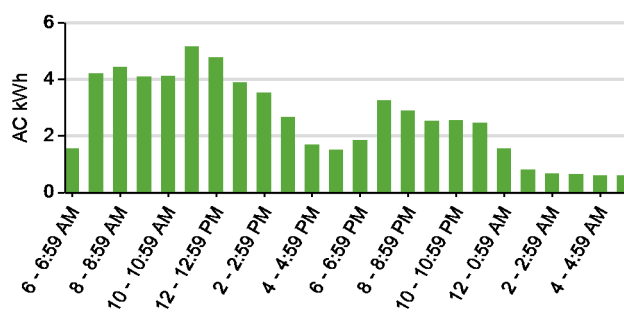
Plug-in charging

Average number of charging events per vehicle per month when driven	14
Average number of charging events per vehicle per day when driven	0.8
Average distance driven between charging events (mi)	141.1
Average number of trips between charging events	8.2
Average time plugged in per charging event (hr)	23.9
Average time plugged in and drawing power (hr)	23.9
Average time charging per charging event (power > 200 w) (hr)	5.1
Average energy per charging event (AC kWh)	4.7
Average charging energy per vehicle per month (AC kWh)	65.6
Total number of charging events	14
Total charging energy (AC kWh)	66

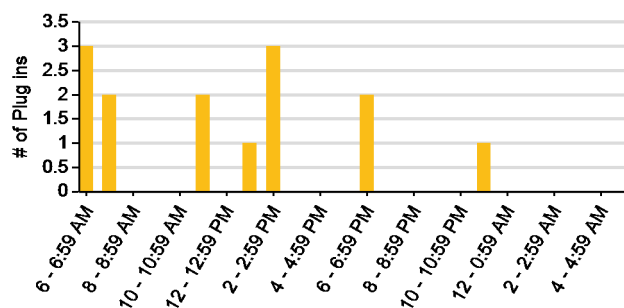
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #13

Number of vehicles: 1

Date range of data received:

07/03/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 13

All Trips Combined

Overall gasoline fuel economy (mpg)	36
Overall AC electrical energy consumption (AC Wh/mi) ¹	64
Overall DC electrical energy consumption (DC Wh/mi) ²	39
Total number of trips	55
Total distance traveled (mi)	907

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	38
DC electrical energy consumption (DC Wh/mi) ⁴	64
Number of trips	20
Percent of trips city highway	55% 45%
Distance traveled (mi)	263
Percent of total distance traveled	29%

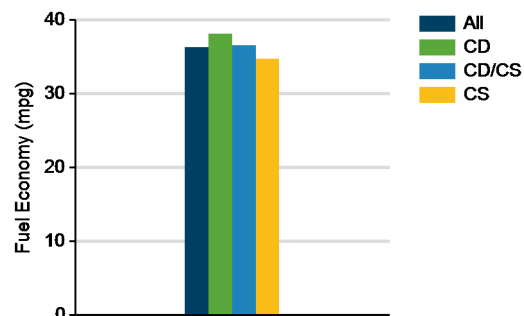
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁶	45
Number of trips	6
Percent of trips city highway	0% 100%
Distance traveled (mi)	307
Percent of total distance traveled	34%

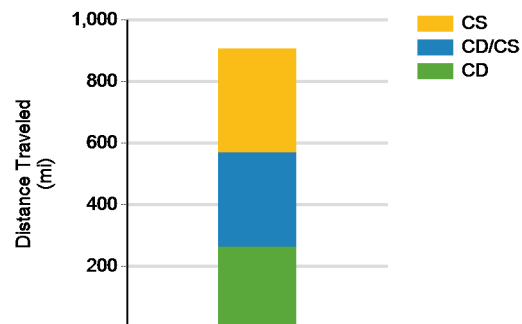
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	35
Number of trips	29
Percent of trips city highway	72% 28%
Distance traveled (mi)	337
Percent of total distance traveled	37%

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

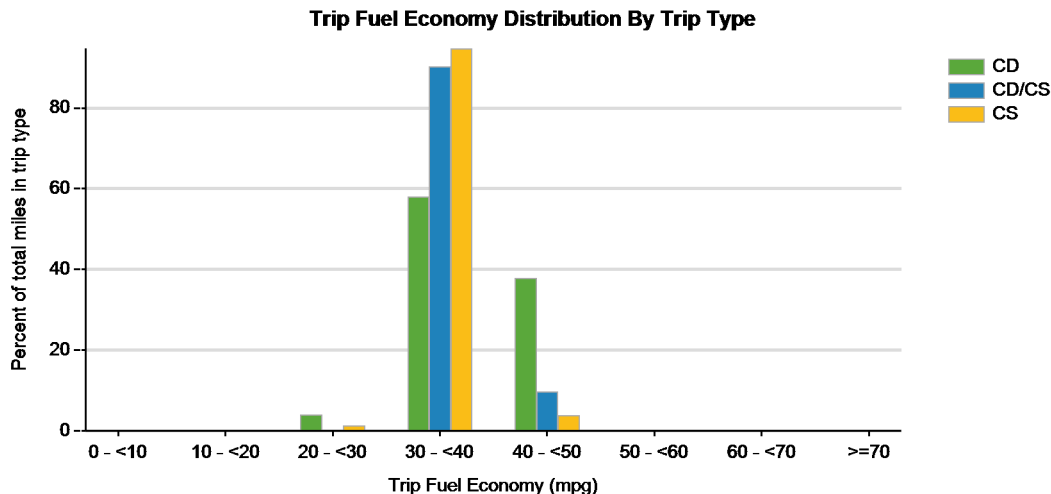
	City	Highway
Gasoline fuel economy (mpg)	22	39
DC electrical energy consumption (DC Wh/mi)	98	62
Percent of miles with internal combustion engine off	8%	0%
Average trip driving intensity ⁸	5	3
Average trip distance (mi)	1.0	28.0

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	0	37
DC electrical energy consumption (DC Wh/mi)	0	45
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸		3
Average trip distance (mi)	0.0	51.2

Trips in Charge Sustaining (CS) mode

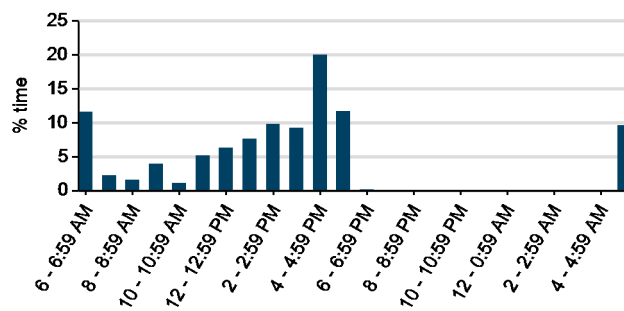
Gasoline fuel economy (mpg)	35	35
Percent of miles with internal combustion engine off	1%	1%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	3.8	32.3



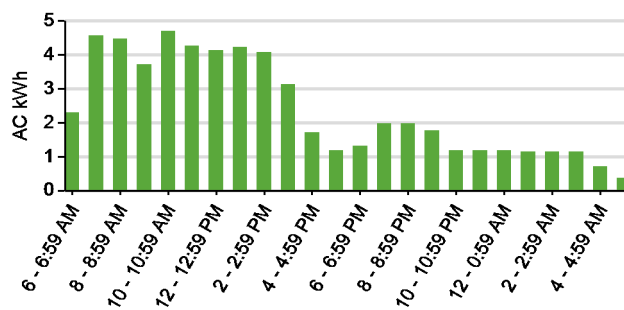
Plug-in charging

Average number of charging events per vehicle per month when driven	11
Average number of charging events per vehicle per day when driven	0.8
Average distance driven between charging events (mi)	82.5
Average number of trips between charging events	5.0
Average time plugged in per charging event (hr)	22.4
Average time plugged in and drawing power (hr)	22.4
Average time charging per charging event (power > 200 w) (hr)	5.1
Average energy per charging event (AC kWh)	5.2
Average charging energy per vehicle per month (AC kWh)	57.7
Total number of charging events	11
Total charging energy (AC kWh)	58

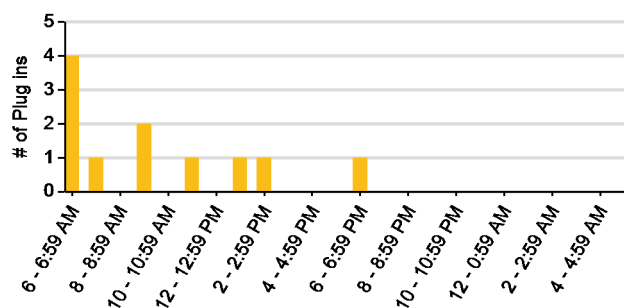
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #11

Number of vehicles: 1

Date range of data received:

07/02/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 13

All Trips Combined

Overall gasoline fuel economy (mpg)	31
Overall AC electrical energy consumption (AC Wh/mi) ¹	12
Overall DC electrical energy consumption (DC Wh/mi) ²	53
Total number of trips	41
Total distance traveled (mi)	210

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	30
DC electrical energy consumption (DC Wh/mi) ⁴	75
Number of trips	36
Percent of trips city highway	81% 19%
Distance traveled (mi)	103
Percent of total distance traveled	49%

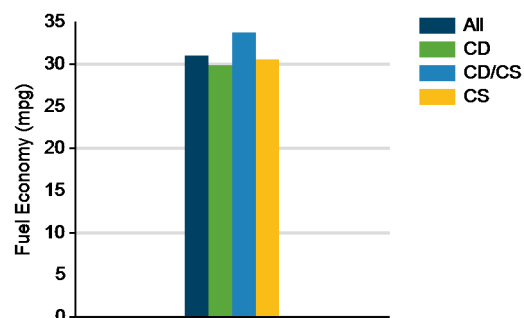
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	34
DC electrical energy consumption (DC Wh/mi) ⁶	66
Number of trips	2
Percent of trips city highway	100% 0%
Distance traveled (mi)	57
Percent of total distance traveled	27%

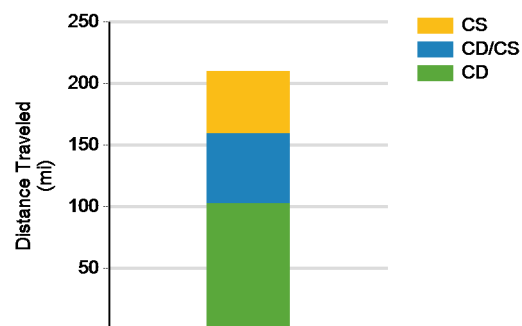
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	31
Number of trips	3
Percent of trips city highway	67% 33%
Distance traveled (mi)	50
Percent of total distance traveled	24%

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

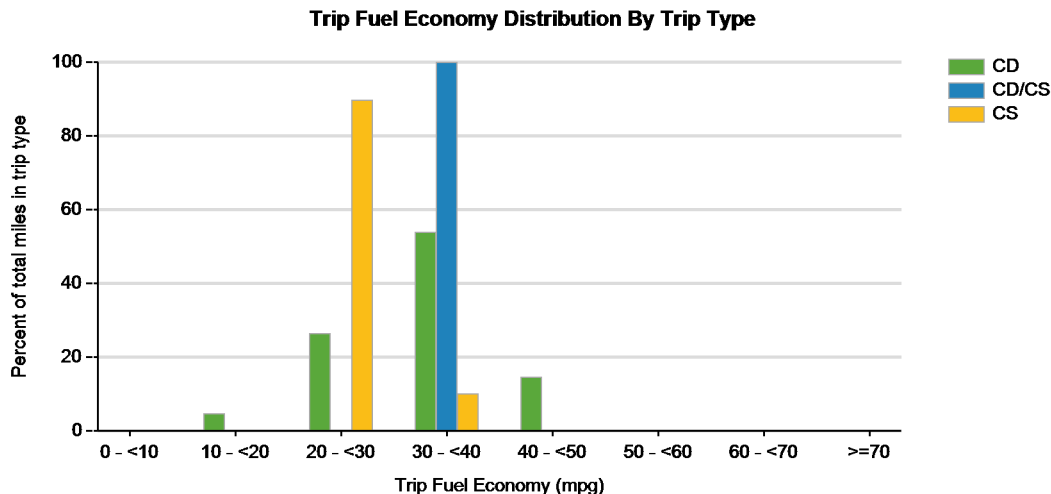
	City	Highway
Gasoline fuel economy (mpg)	24	38
DC electrical energy consumption (DC Wh/mi)	81	70
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	6	2
Average trip distance (mi)	2.8	6.1

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	34	0
DC electrical energy consumption (DC Wh/mi)	66	0
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	
Average trip distance (mi)	56.6	0.0

Trips in Charge Sustaining (CS) mode

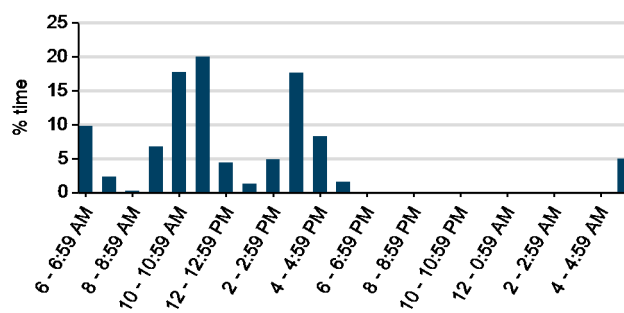
Gasoline fuel economy (mpg)	38	30
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	4
Average trip distance (mi)	0.1	1.3



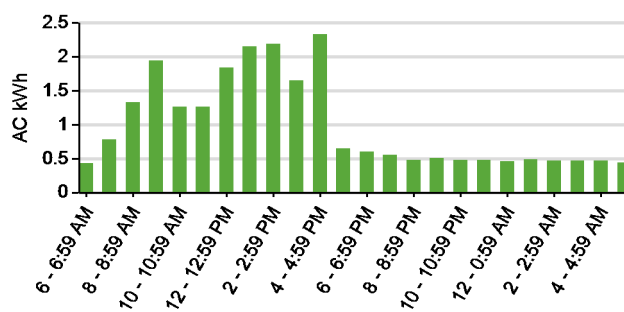
Plug-in charging

Average number of charging events per vehicle per month when driven	7
Average number of charging events per vehicle per day when driven	0.5
Average distance driven between charging events (mi)	282.1
Average number of trips between charging events	16.4
Average time plugged in per charging event (hr)	40.7
Average time plugged in and drawing power (hr)	40.7
Average time charging per charging event (power > 200 w) (hr)	4.2
Average energy per charging event (AC kWh)	3.4
Average charging energy per vehicle per month (AC kWh)	23.7
Total number of charging events	7
Total charging energy (AC kWh)	24

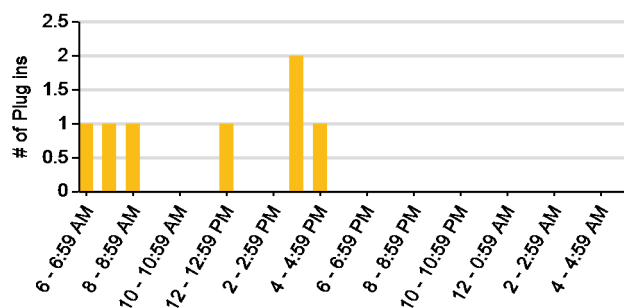
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #10

Number of vehicles: 1

Date range of data received:

07/06/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 20

All Trips Combined

Overall gasoline fuel economy (mpg)	34
Overall AC electrical energy consumption (AC Wh/mi) ¹	21
Overall DC electrical energy consumption (DC Wh/mi) ²	37
Total number of trips	110
Total distance traveled (mi)	849

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	34
DC electrical energy consumption (DC Wh/mi) ⁴	54
Number of trips	55
Percent of trips city highway	87% 13%
Distance traveled (mi)	394
Percent of total distance traveled	46%

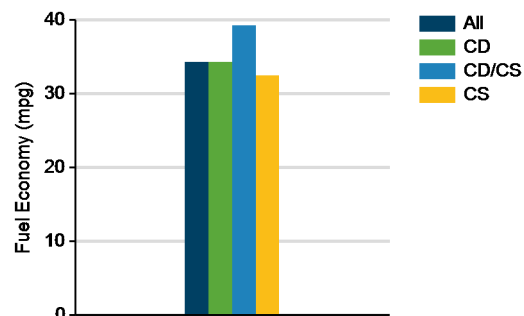
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁶	59
Number of trips	3
Percent of trips city highway	33% 67%
Distance traveled (mi)	144
Percent of total distance traveled	17%

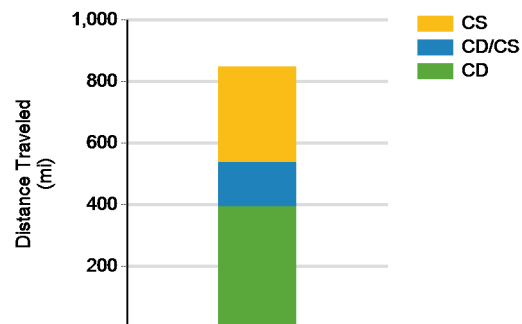
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	52
Percent of trips city highway	90% 10%
Distance traveled (mi)	311
Percent of total distance traveled	37%

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

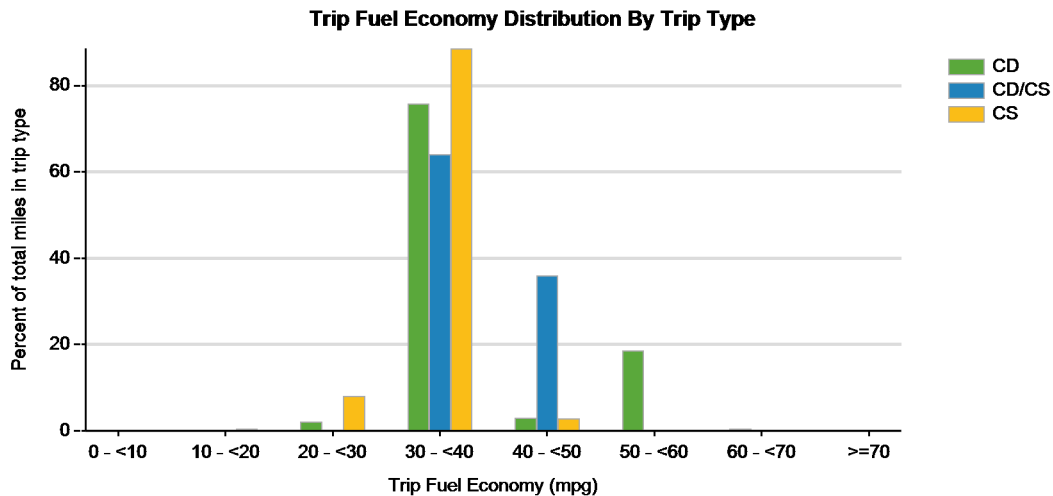
	City	Highway
Gasoline fuel economy (mpg)	32	39
DC electrical energy consumption (DC Wh/mi)	60	45
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	13.5	18.2

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	31	40
DC electrical energy consumption (DC Wh/mi)	54	60
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	1
Average trip distance (mi)	8.6	19.3

Trips in Charge Sustaining (CS) mode

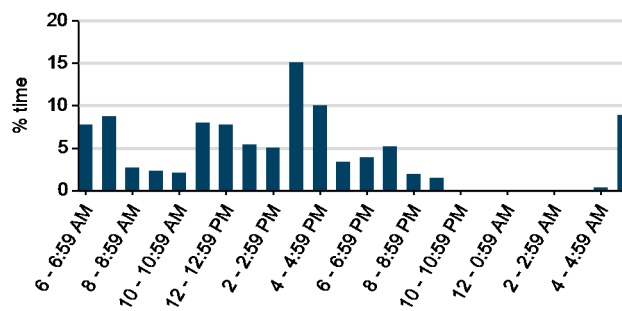
Gasoline fuel economy (mpg)	32	33
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	2.4	5.6



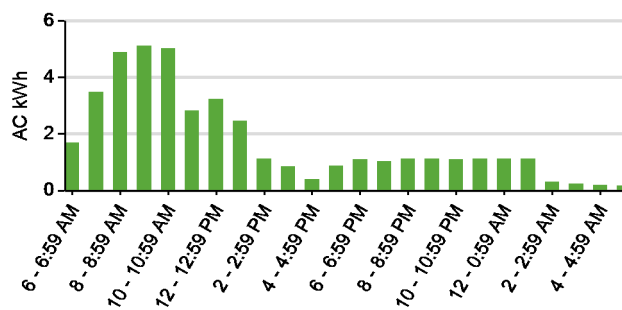
Plug-in charging

Average number of charging events per vehicle per month when driven	10
Average number of charging events per vehicle per day when driven	0.5
Average distance driven between charging events (mi)	197.5
Average number of trips between charging events	11.5
Average time plugged in per charging event (hr)	14.7
Average time plugged in and drawing power (hr)	14.7
Average time charging per charging event (power > 200 w) (hr)	5.9
Average energy per charging event (AC kWh)	4.2
Average charging energy per vehicle per month (AC kWh)	41.7
Total number of charging events	10
Total charging energy (AC kWh)	42

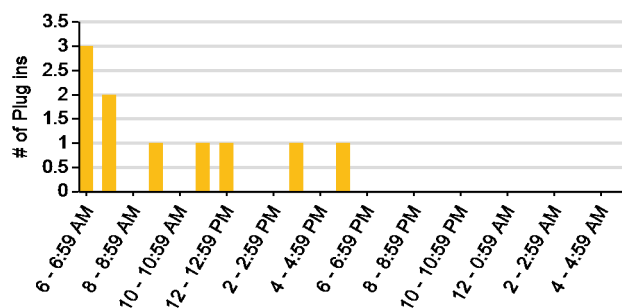
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #9

Number of vehicles: 1

Date range of data received:

07/06/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 16

All Trips Combined

Overall gasoline fuel economy (mpg)	36
Overall AC electrical energy consumption (AC Wh/mi) ¹	22
Overall DC electrical energy consumption (DC Wh/mi) ²	19
Total number of trips	115
Total distance traveled (mi)	1,975

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁴	58
Number of trips	26
Percent of trips city highway	65% 35%
Distance traveled (mi)	276
Percent of total distance traveled	14%

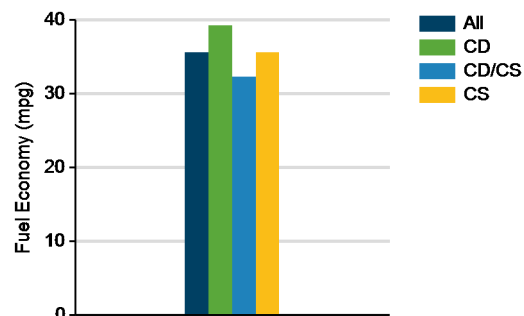
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	32
DC electrical energy consumption (DC Wh/mi) ⁶	58
Number of trips	8
Percent of trips city highway	13% 88%
Distance traveled (mi)	252
Percent of total distance traveled	13%

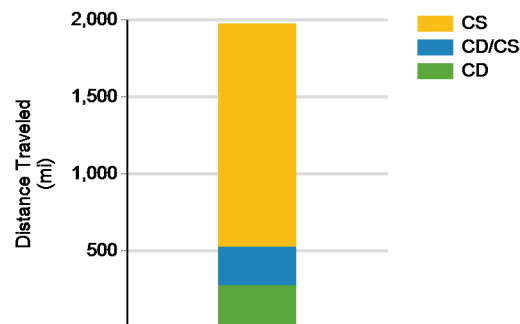
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	36
Number of trips	81
Percent of trips city highway	56% 44%
Distance traveled (mi)	1,447
Percent of total distance traveled	73%

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

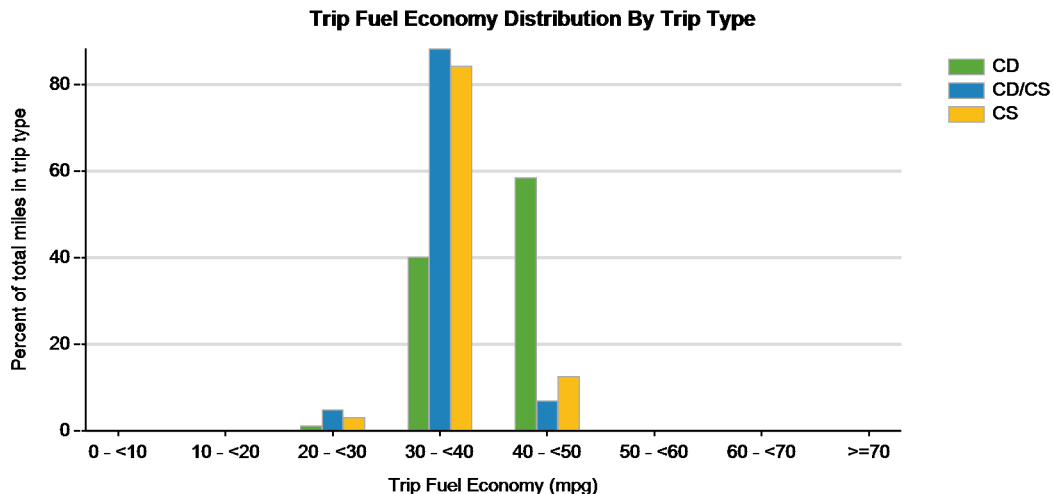
	City	Highway
Gasoline fuel economy (mpg)	33	40
DC electrical energy consumption (DC Wh/mi)	69	57
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	5	2
Average trip distance (mi)	1.6	27.6

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	34	32
DC electrical energy consumption (DC Wh/mi)	37	58
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	8.6	34.8

Trips in Charge Sustaining (CS) mode

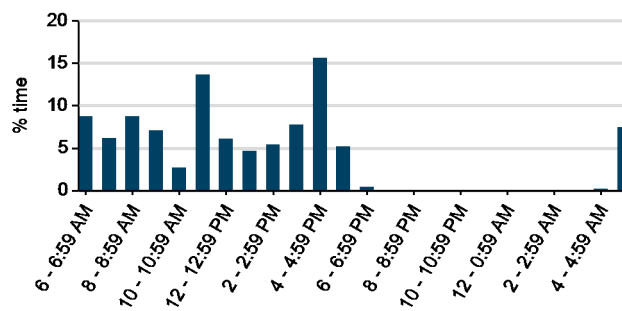
Gasoline fuel economy (mpg)	31	36
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	2.9	36.5



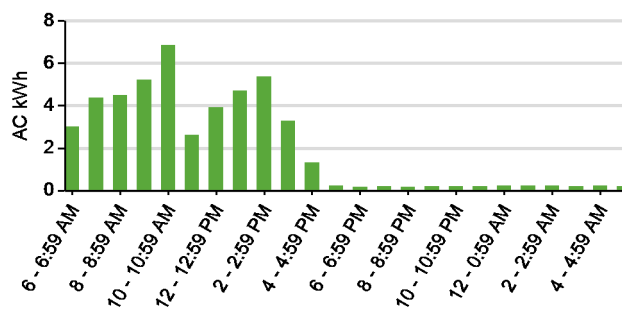
Plug-in charging

Average number of charging events per vehicle per month when driven	16
Average number of charging events per vehicle per day when driven	1.0
Average distance driven between charging events (mi)	123.4
Average number of trips between charging events	7.2
Average time plugged in per charging event (hr)	2.9
Average time plugged in and drawing power (hr)	2.9
Average time charging per charging event (power > 200 w) (hr)	2.9
Average energy per charging event (AC kWh)	2.7
Average charging energy per vehicle per month (AC kWh)	43.2
Total number of charging events	16
Total charging energy (AC kWh)	43

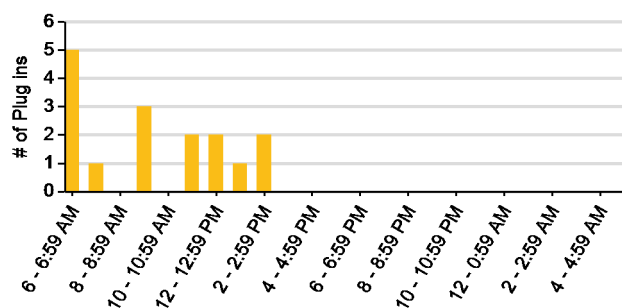
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #12

Number of vehicles: 1

Date range of data received:

07/03/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 17

All Trips Combined

Overall gasoline fuel economy (mpg)	34
Overall AC electrical energy consumption (AC Wh/mi) ¹	14
Overall DC electrical energy consumption (DC Wh/mi) ²	24
Total number of trips	91
Total distance traveled (mi)	819

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	36
DC electrical energy consumption (DC Wh/mi) ⁴	72
Number of trips	32
Percent of trips city highway	81% 19%
Distance traveled (mi)	141
Percent of total distance traveled	17%

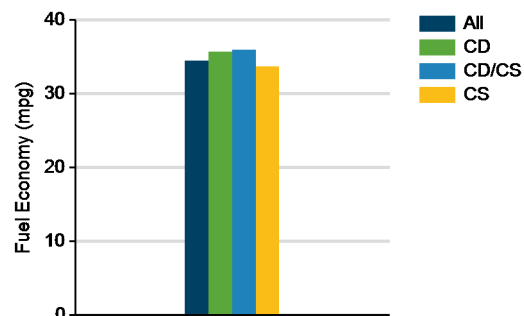
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	36
DC electrical energy consumption (DC Wh/mi) ⁶	56
Number of trips	4
Percent of trips city highway	0% 100%
Distance traveled (mi)	159
Percent of total distance traveled	19%

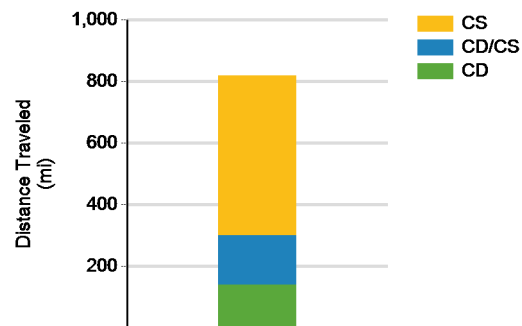
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	34
Number of trips	55
Percent of trips city highway	78% 22%
Distance traveled (mi)	519
Percent of total distance traveled	63%

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

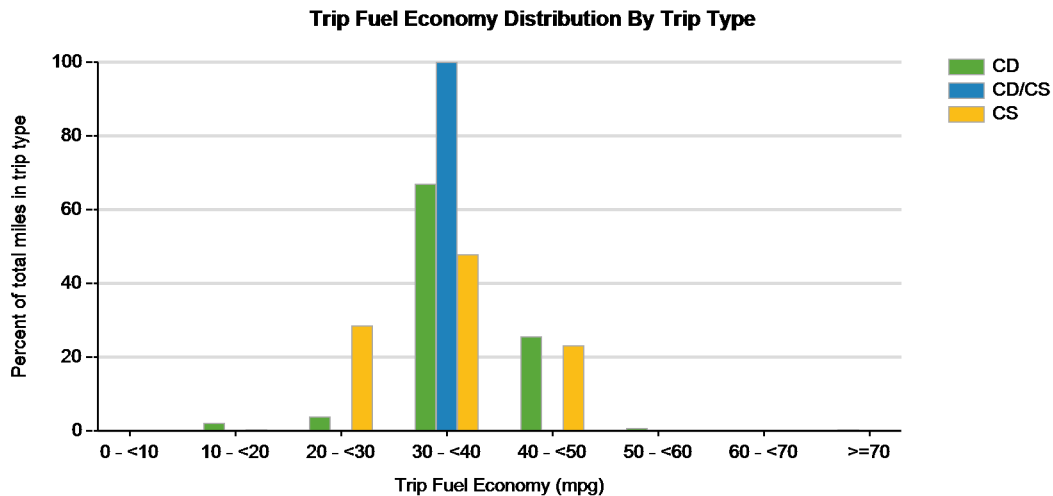
	City	Highway
Gasoline fuel economy (mpg)	29	38
DC electrical energy consumption (DC Wh/mi)	72	72
Percent of miles with internal combustion engine off	18%	6%
Average trip driving intensity ⁸	6	4
Average trip distance (mi)	1.9	12.1

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	0	36
DC electrical energy consumption (DC Wh/mi)	0	56
Percent of miles with internal combustion engine off	0%	4%
Average trip driving intensity ⁸		3
Average trip distance (mi)	0.0	22.6

Trips in Charge Sustaining (CS) mode

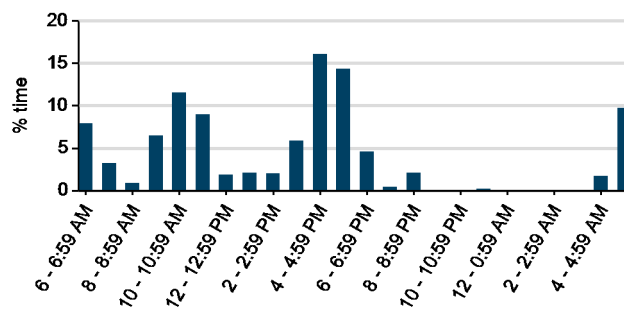
Gasoline fuel economy (mpg)	31	35
Percent of miles with internal combustion engine off	17%	5%
Average trip driving intensity ⁸	5	3
Average trip distance (mi)	3.2	10.4



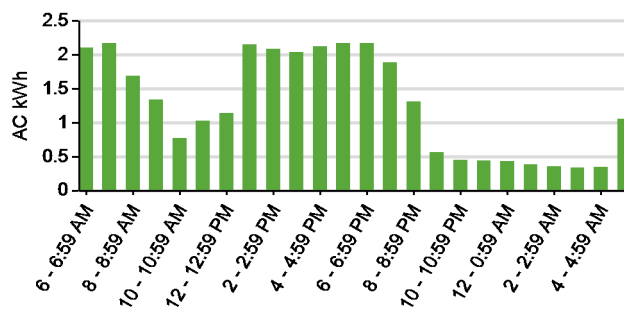
Plug-in charging

Average number of charging events per vehicle per month when driven	8
Average number of charging events per vehicle per day when driven	0.5
Average distance driven between charging events (mi)	246.8
Average number of trips between charging events	14.4
Average time plugged in per charging event (hr)	19.2
Average time plugged in and drawing power (hr)	19.2
Average time charging per charging event (power > 200 w) (hr)	6.7
Average energy per charging event (AC kWh)	3.6
Average charging energy per vehicle per month (AC kWh)	28.5
Total number of charging events	8
Total charging energy (AC kWh)	29

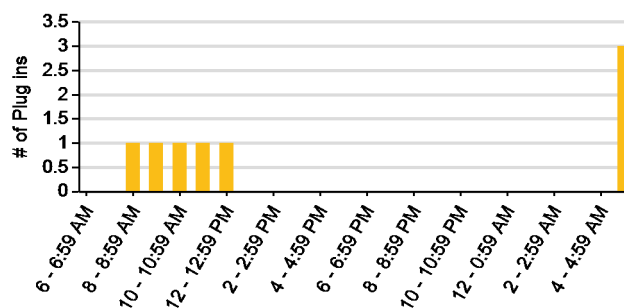
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #15

Number of vehicles: 1

Date range of data received:

07/06/2012 to 07/31/2012

Reporting period: July 2012

Number of vehicle days driven: 11

All Trips Combined

Overall gasoline fuel economy (mpg)	36
Overall AC electrical energy consumption (AC Wh/mi) ¹	31
Overall DC electrical energy consumption (DC Wh/mi) ²	49
Total number of trips	77
Total distance traveled (mi)	600

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁴	73
Number of trips	60
Percent of trips city highway	88% 12%
Distance traveled (mi)	225
Percent of total distance traveled	37%

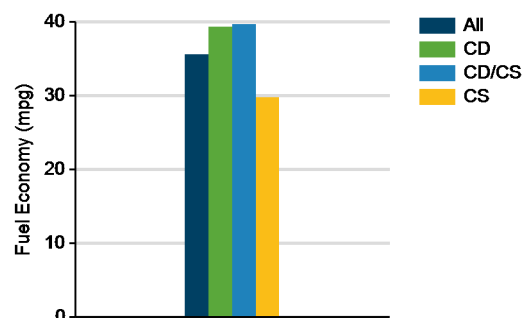
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	40
DC electrical energy consumption (DC Wh/mi) ⁶	61
Number of trips	5
Percent of trips city highway	80% 20%
Distance traveled (mi)	175
Percent of total distance traveled	29%

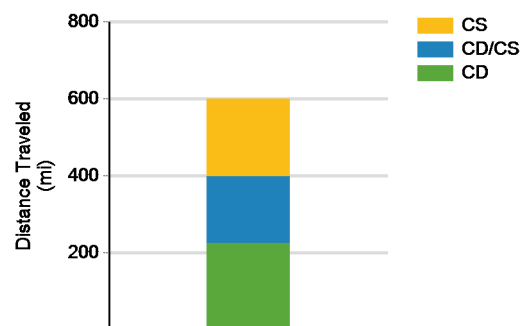
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	30
Number of trips	12
Percent of trips city highway	67% 33%
Distance traveled (mi)	200
Percent of total distance traveled	33%

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

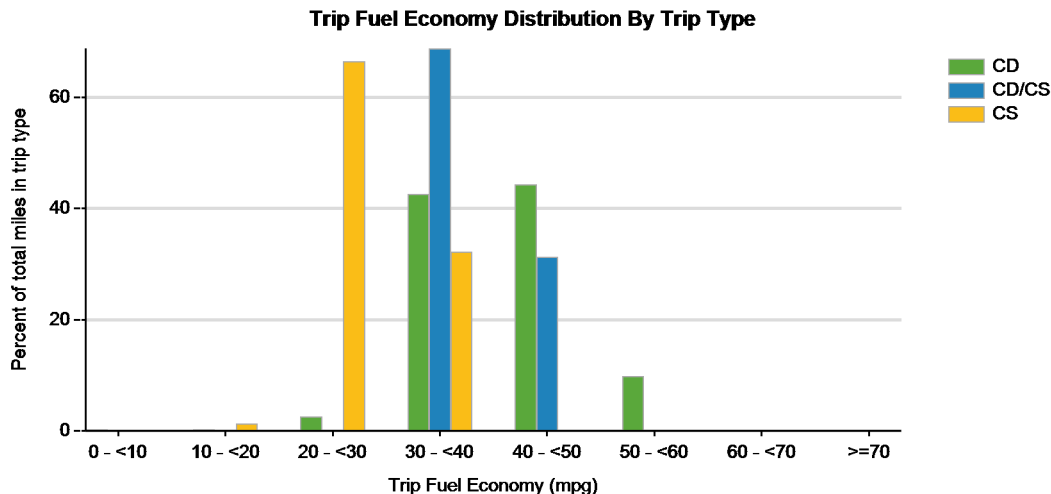
	City	Highway
Gasoline fuel economy (mpg)	39	39
DC electrical energy consumption (DC Wh/mi)	107	60
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	3.7	18.0

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	42	38
DC electrical energy consumption (DC Wh/mi)	62	59
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	1
Average trip distance (mi)	78.1	13.8

Trips in Charge Sustaining (CS) mode

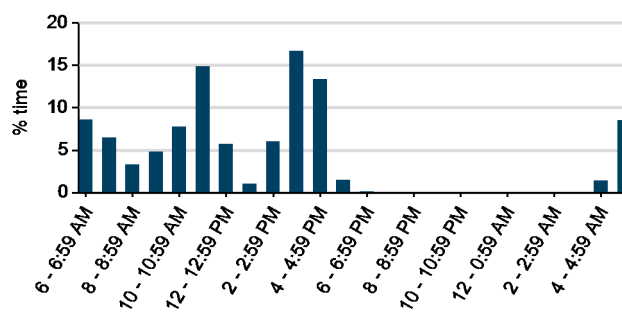
Gasoline fuel economy (mpg)	31	29
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	0.9	4.5



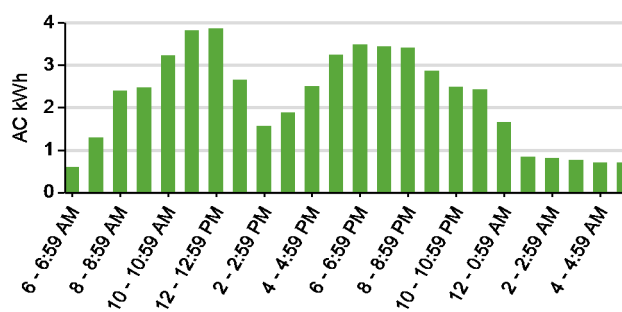
Plug-in charging

Average number of charging events per vehicle per month when driven	13
Average number of charging events per vehicle per day when driven	1.2
Average distance driven between charging events (mi)	151.9
Average number of trips between charging events	8.8
Average time plugged in per charging event (hr)	48.0
Average time plugged in and drawing power (hr)	48.0
Average time charging per charging event (power > 200 w) (hr)	4.4
Average energy per charging event (AC kWh)	4.7
Average charging energy per vehicle per month (AC kWh)	61.6
Total number of charging events	13
Total charging energy (AC kWh)	62

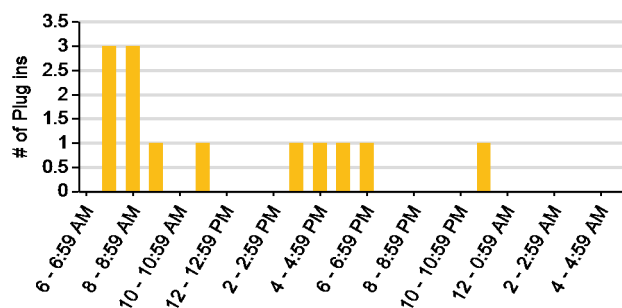
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #19

Number of vehicles: 1

Date range of data received:

07/06/2012 to 07/27/2012

Reporting period: July 2012

Number of vehicle days driven: 16

All Trips Combined

Overall gasoline fuel economy (mpg)	41
Overall AC electrical energy consumption (AC Wh/mi) ¹	84
Overall DC electrical energy consumption (DC Wh/mi) ²	62
Total number of trips	147
Total distance traveled (mi)	880

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	42
DC electrical energy consumption (DC Wh/mi) ⁴	73
Number of trips	105
Percent of trips city highway	79% 21%
Distance traveled (mi)	551
Percent of total distance traveled	63%

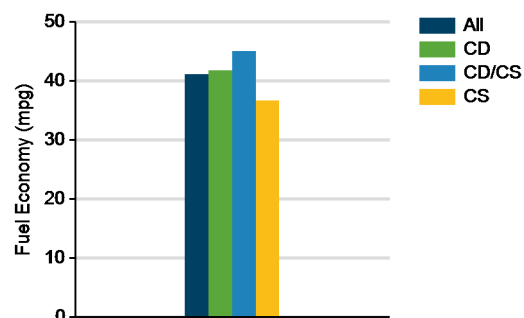
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	45
DC electrical energy consumption (DC Wh/mi) ⁶	73
Number of trips	9
Percent of trips city highway	78% 22%
Distance traveled (mi)	144
Percent of total distance traveled	16%

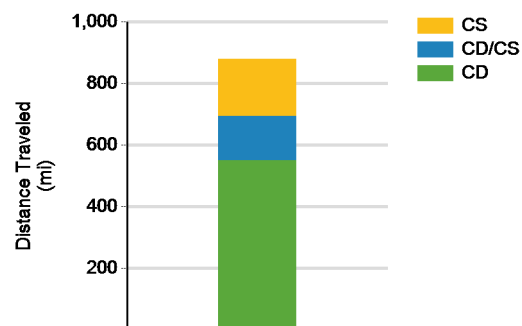
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	37
Number of trips	33
Percent of trips city highway	94% 6%
Distance traveled (mi)	184
Percent of total distance traveled	21%

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

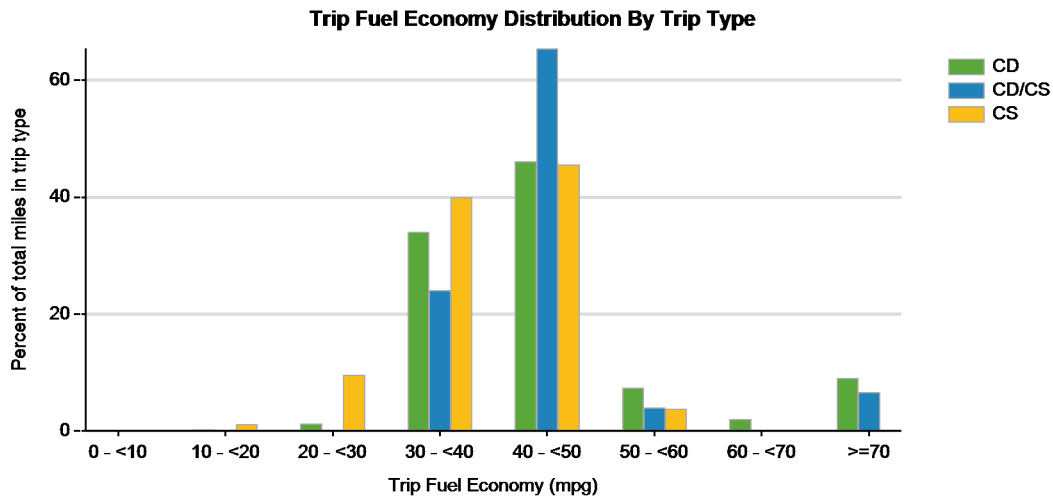
	City	Highway
Gasoline fuel economy (mpg)	41	44
DC electrical energy consumption (DC Wh/mi)	74	70
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	3
Average trip distance (mi)	4.5	8.1

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	45	44
DC electrical energy consumption (DC Wh/mi)	83	46
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	3	2
Average trip distance (mi)	14.7	20.5

Trips in Charge Sustaining (CS) mode

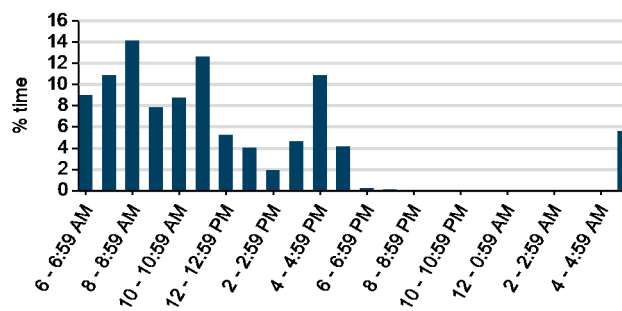
Gasoline fuel economy (mpg)	35	44
Percent of miles with internal combustion engine off	0%	0%
Average trip driving intensity ⁸	4	2
Average trip distance (mi)	4.4	24.3



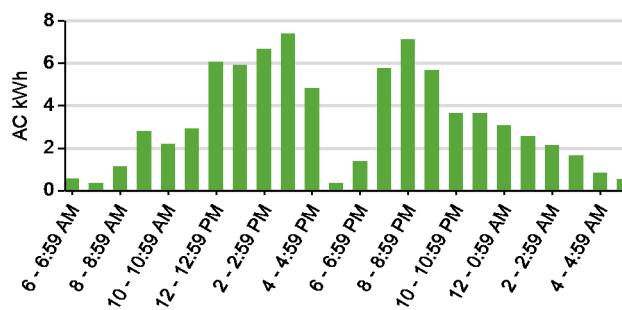
Plug-in charging

Average number of charging events per vehicle per month when driven	31
Average number of charging events per vehicle per day when driven	1.9
Average distance driven between charging events (mi)	28.4
Average number of trips between charging events	4.7
Average time plugged in per charging event (hr)	3.8
Average time plugged in and drawing power (hr)	3.8
Average time charging per charging event (power > 200 w) (hr)	3.0
Average energy per charging event (AC kWh)	2.4
Average charging energy per vehicle per month (AC kWh)	74.3
Total number of charging events	31
Total charging energy (AC kWh)	74

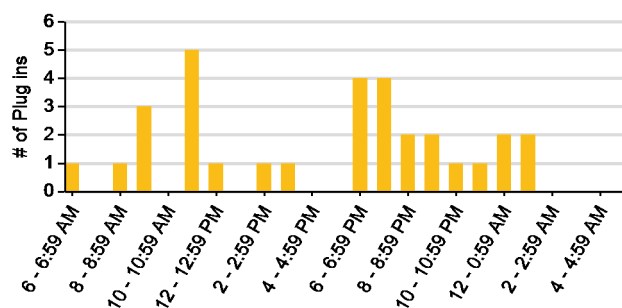
Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In



SCAQMD Quantum Escape PHEV Report

Quantum SCAQMD #7

Number of vehicles: 1

Date range of data received:

07/03/2012 to 07/29/2012

Reporting period: July 2012

Number of vehicle days driven: 15

All Trips Combined

Overall gasoline fuel economy (mpg)	37
Overall AC electrical energy consumption (AC Wh/mi) ¹	43
Overall DC electrical energy consumption (DC Wh/mi) ²	32
Total number of trips	90
Total distance traveled (mi)	1,222

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁴	63
Number of trips	33
Percent of trips city highway	70% 30%
Distance traveled (mi)	296
Percent of total distance traveled	24%

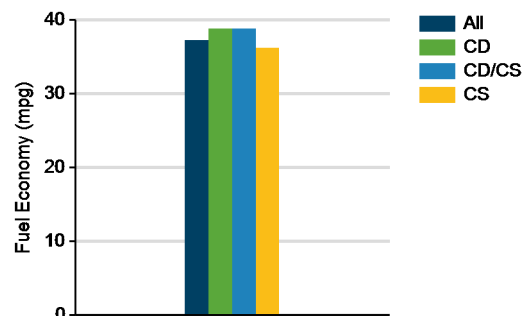
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi) ⁶	61
Number of trips	9
Percent of trips city highway	33% 67%
Distance traveled (mi)	207
Percent of total distance traveled	17%

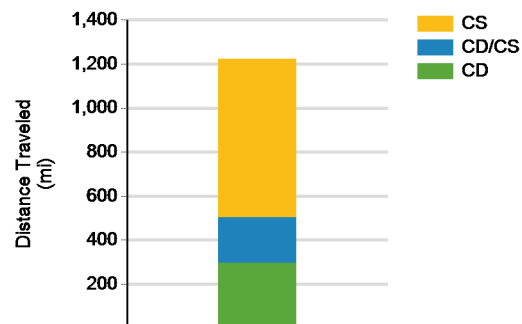
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	36
Number of trips	48
Percent of trips city highway	52% 48%
Distance traveled (mi)	719
Percent of total distance traveled	59%

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

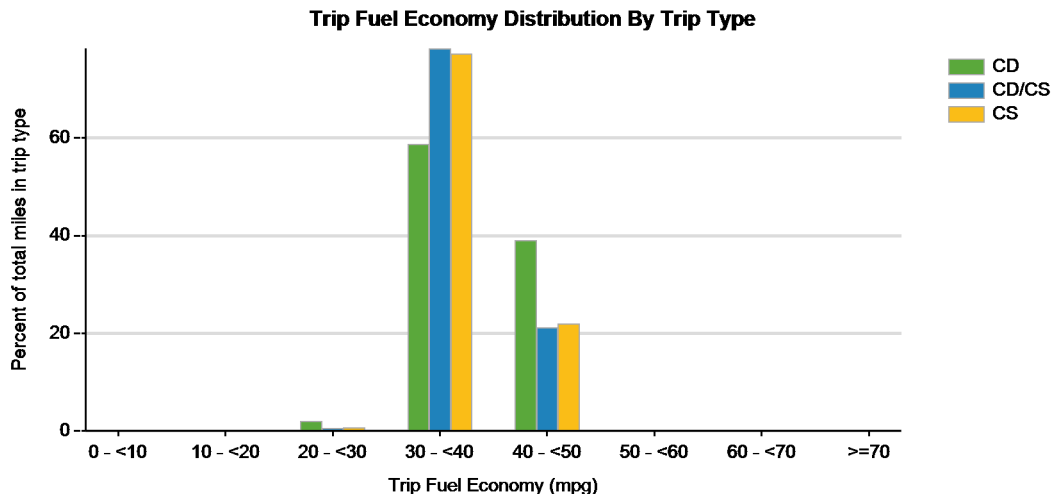
	City	Highway
Gasoline fuel economy (mpg)	35	40
DC electrical energy consumption (DC Wh/mi)	69	61
Percent of miles with internal combustion engine off	12%	4%
Average trip driving intensity ⁸	5	2
Average trip distance (mi)	3.3	22.0

Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	40	39
DC electrical energy consumption (DC Wh/mi)	133	58
Percent of miles with internal combustion engine off	24%	4%
Average trip driving intensity ⁸	5	3
Average trip distance (mi)	2.3	33.4

Trips in Charge Sustaining (CS) mode

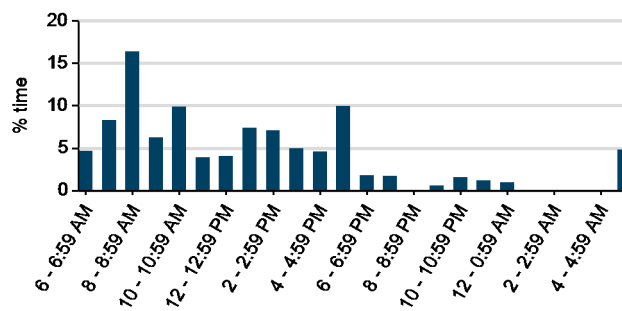
Gasoline fuel economy (mpg)	32	37
Percent of miles with internal combustion engine off	15%	3%
Average trip driving intensity ⁸	5	2
Average trip distance (mi)	2.1	28.9



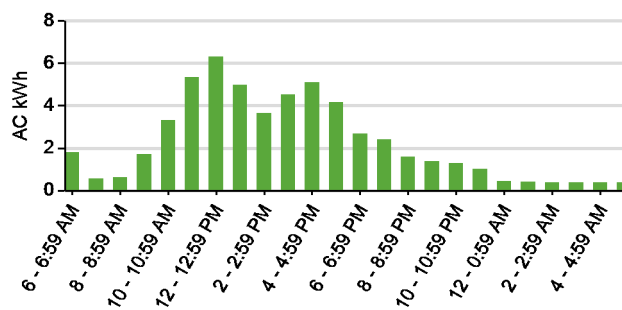
Plug-in charging

Average number of charging events per vehicle per month when driven	14
Average number of charging events per vehicle per day when driven	0.9
Average distance driven between charging events (mi)	87.3
Average number of trips between charging events	6.4
Average time plugged in per charging event (hr)	14.6
Average time plugged in and drawing power (hr)	14.6
Average time charging per charging event (power > 200 w) (hr)	6.1
Average energy per charging event (AC kWh)	3.8
Average charging energy per vehicle per month (AC kWh)	52.9
Total number of charging events	14
Total charging energy (AC kWh)	53

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

