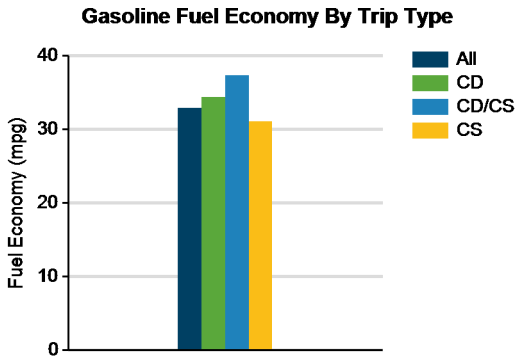
SCAQMD Quantum Escape PHEV Report

All Vehicles

Number of vehicles: 18
Date range of data received: 05/01/2012 to 05/31/2012
Reporting period: May 2012
Number of vehicle days driven: 270

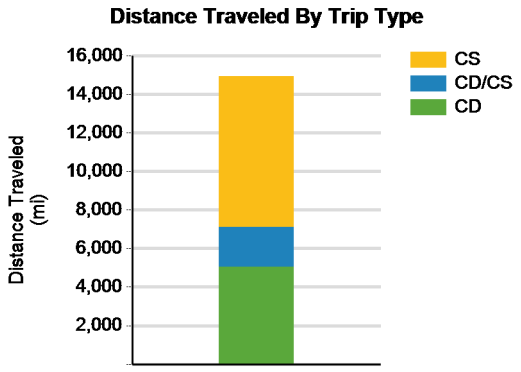
All Trips Combined

Overall gasoline fuel economy (mpg)	33
Overall AC electrical energy consumption (AC Wh/mi)[1]	35
Overall DC electrical energy consumption (DC Wh/mi)[2]	21
Total number of trips	1,492
Total distance traveled (mi)	14,935



Trips in Charge Depleting (CD) mode[3]

Gasoline fuel economy (mpg)	34
DC electrical energy consumption (DC Wh/mi)[4]	44
Number of trips	733
Percent of trips city | highway	79% | 21%
Distance traveled (mi)	5,035
Percent of total distance traveled	34%



Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes[5]

Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi)[6]	45
Number of trips	76
Percent of trips city | highway	37% | 63%
Distance traveled (mi)	2,083
Percent of total distance traveled	14%

Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)	31
Number of trips	683
Percent of trips city | highway	74% | 26%
Distance traveled (mi)	7,817
Percent of total distance traveled	52%

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

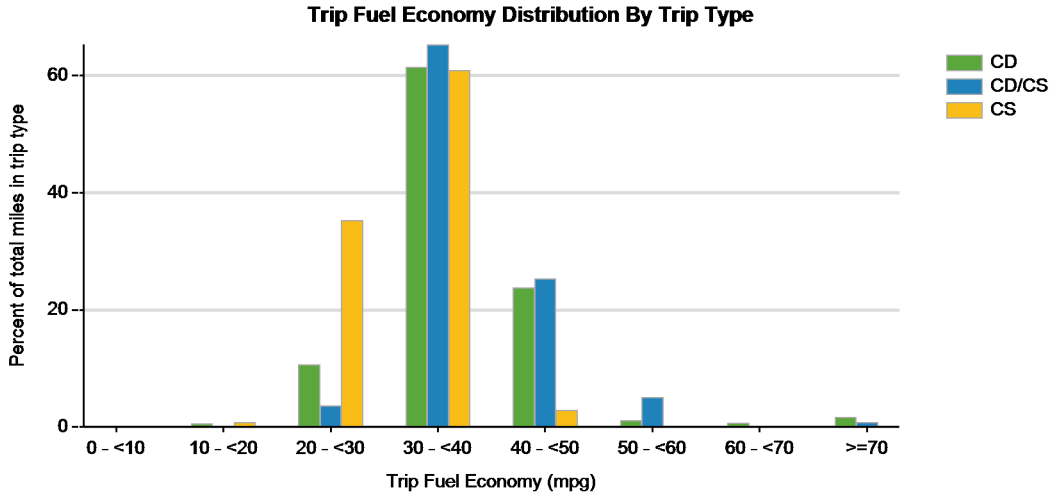
	City	Highway
Gasoline fuel economy (mpg)	31	36
DC electrical energy consumption (DC Wh/mi)	37	47
Percent of miles with internal combustion engine off	4%	2%
Average trip driving intensity[8]	5	3
Average trip distance (mi)	2.8	22.5

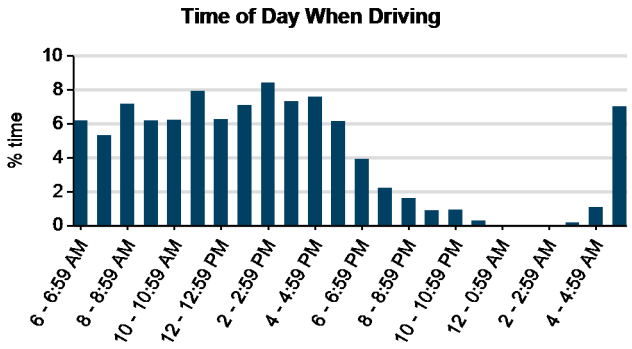
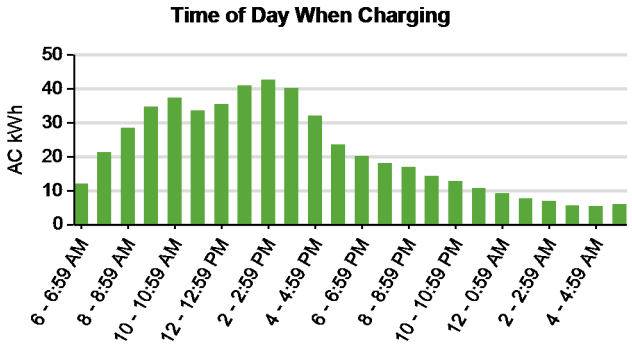
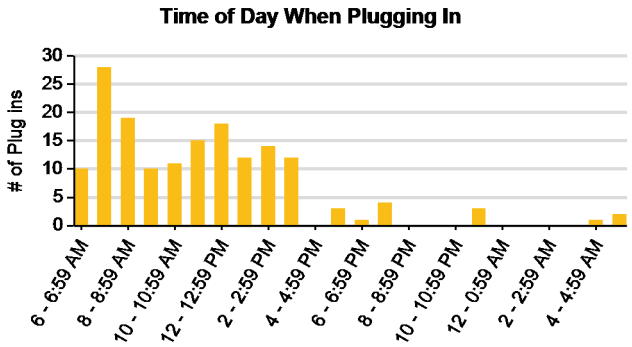
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	36	38
DC electrical energy consumption (DC Wh/mi)	40	46
Percent of miles with internal combustion engine off	7%	1%
Average trip driving intensity[8]	4	2
Average trip distance (mi)	12.3	36.2

Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	29	31
Percent of miles with internal combustion engine off	2%	1%
Average trip driving intensity[8]	5	2
Average trip distance (mi)	2.4	37.4



Plug-in charging

Average number of charging events per vehicle per month when driven	9
Average number of charging events per vehicle per day when driven	0.6
Average distance driven between charging events (mi)	91.6
Average number of trips between charging events	9.2
Average time plugged in per charging event (hr)	21.9
Average time plugged in and drawing power (hr)	21.9
Average time charging per charging event (power > 200 w) (hr)	4.4
Average energy per charging event (AC kWh)	3.2
Average charging energy per vehicle per month (AC kWh)	29.0
Total number of charging events	163
Total charging energy (AC kWh)	522