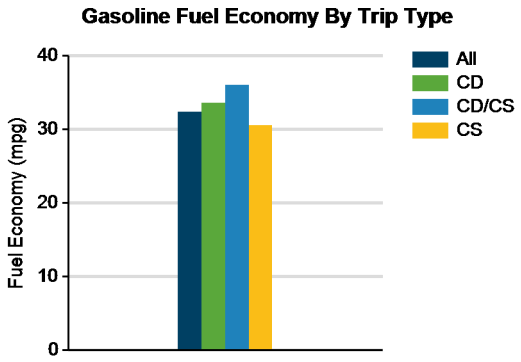
SCAQMD Quantum Escape PHEV Report

All Vehicles

Number of vehicles: 17
Date range of data received: 04/01/2012 to 04/30/2012
Reporting period: April 2012
Number of vehicle days driven: 250

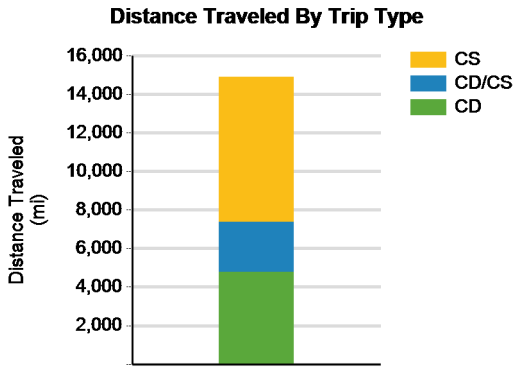
All Trips Combined

Overall gasoline fuel economy (mpg)	32
Overall AC electrical energy consumption (AC Wh/mi)[1]	45
Overall DC electrical energy consumption (DC Wh/mi)[2]	22
Total number of trips	1,585
Total distance traveled (mi)	14,910



Trips in Charge Depleting (CD) mode[3]

Gasoline fuel economy (mpg)	34
DC electrical energy consumption (DC Wh/mi)[4]	49
Number of trips	883
Percent of trips city | highway	81% | 19%
Distance traveled (mi)	4,778
Percent of total distance traveled	32%



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

Gasoline fuel economy (mpg)	36
DC electrical energy consumption (DC Wh/mi)[6]	43
Number of trips	79
Percent of trips city | highway	38% | 62%
Distance traveled (mi)	2,592
Percent of total distance traveled	17%

Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)	31
Number of trips	623
Percent of trips city | highway	75% | 25%
Distance traveled (mi)	7,540
Percent of total distance traveled	51%

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

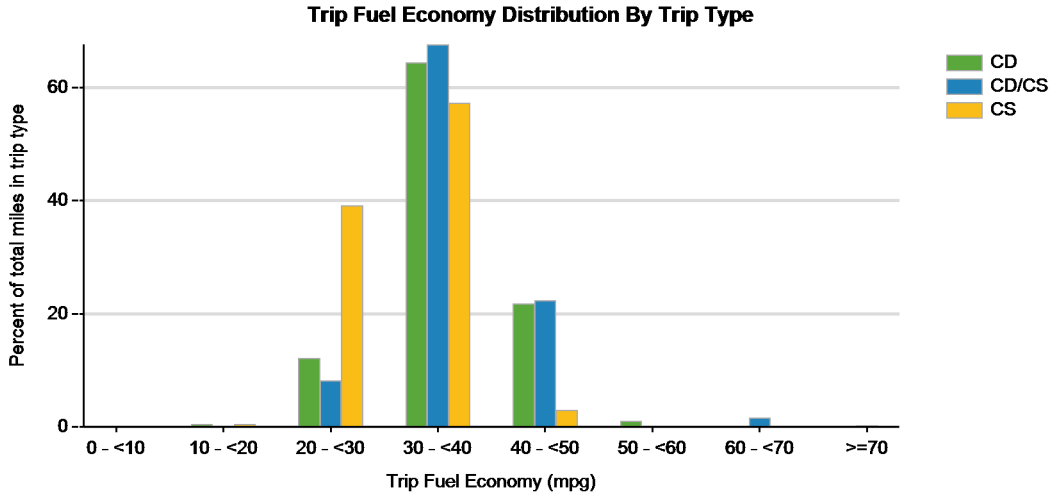
	City	Highway
Gasoline fuel economy (mpg)	30	35
DC electrical energy consumption (DC Wh/mi)	42	52
Percent of miles with internal combustion engine off	3%	1%
Average trip driving intensity[8]	5	3
Average trip distance (mi)	2.3	18.6

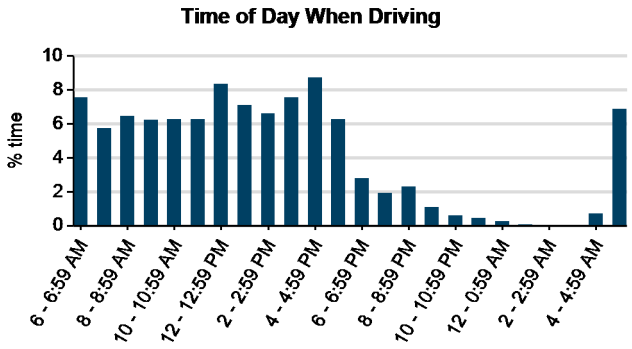
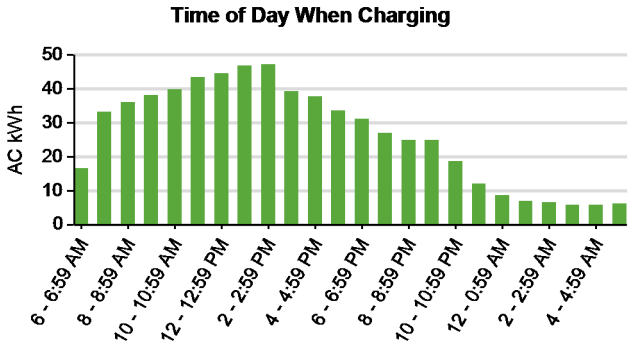
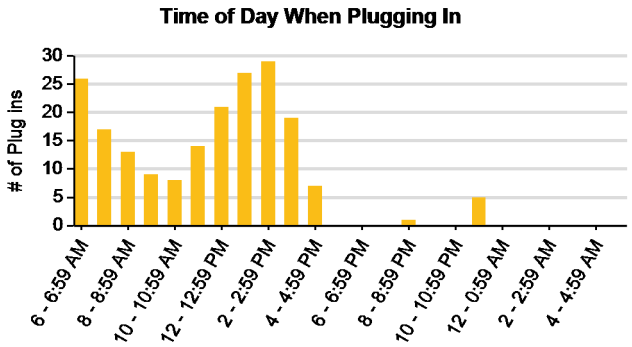
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	37	36
DC electrical energy consumption (DC Wh/mi)	46	43
Percent of miles with internal combustion engine off	14%	1%
Average trip driving intensity[8]	4	2
Average trip distance (mi)	8.6	47.6

Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	29	31
Percent of miles with internal combustion engine off	4%	1%
Average trip driving intensity[8]	5	2
Average trip distance (mi)	2.3	41.4



Plug-in charging

Average number of charging events per vehicle per month when driven	12
Average number of charging events per vehicle per day when driven	0.8
Average distance driven between charging events (mi)	76.1
Average number of trips between charging events	8.1
Average time plugged in per charging event (hr)	16.6
Average time plugged in and drawing power (hr)	16.6
Average time charging per charging event (power > 200 w) (hr)	3.9
Average energy per charging event (AC kWh)	3.5
Average charging energy per vehicle per month (AC kWh)	39.8
Total number of charging events	196
Total charging energy (AC kWh)	677