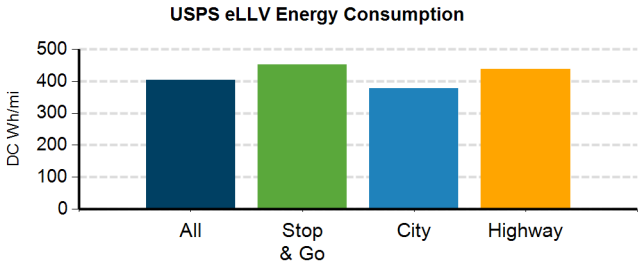
USPS eLLV Conversion Fleet

Fleet Location: Washington D.C Metro Area
Reporting period: March 2011
Number of Vehicles: 5
Number of vehicle days driven: 38

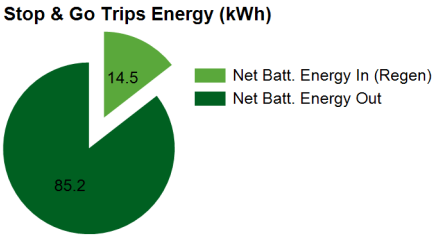
All Trips Combined

Overall DC electrical energy consumption (DC Wh/mi)	409
Overall AC electrical energy consumption (AC Wh/mi)[1]	584
Average operating electricity cost (cents per mile)[2]	6.5
Total number of trips	561
Total distance traveled (mi)	492
Average Trip Distance (mi)	0.9



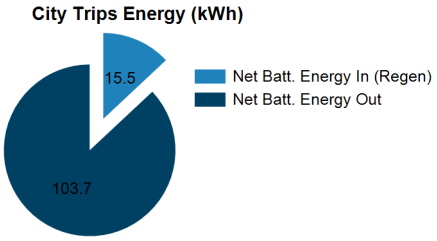
Stop & Go Trips (>5 stops/mile)

DC electrical energy consumption (DC Wh/mi)	450
Number of trips	493
Distance traveled (mi)	189
Percent of total distance traveled (%)	38%
Average Trip Distance (mi)	0.4
Average Driving Speed (mph)	4.9
Average Stops per mile	28.7
Percent of Regen Braking Energy Recovery (%)	15%



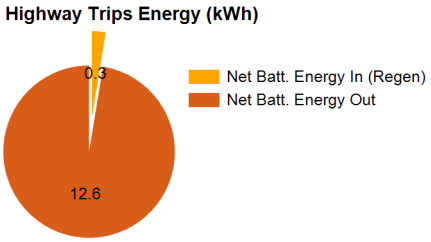
City Trips (≤ 5 stops/mile & <37 mph avg)

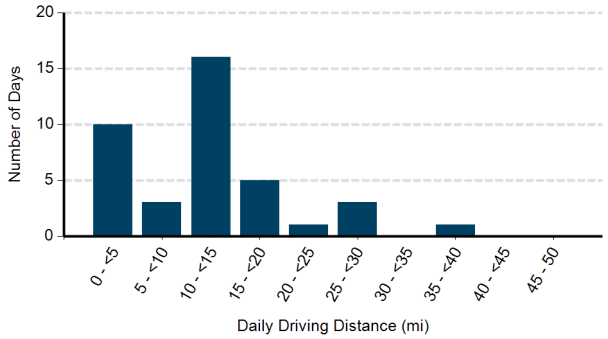
DC electrical energy consumption (DC Wh/mi)	377
Number of trips	67
Distance traveled (mi)	275
Percent of total distance traveled (%)	56%
Average Trip Distance (mi)	4.1
Average Driving Speed (mph)	17.9
Average Stops per mile	3.7
Percent of Regen Braking Energy Recovery (%)	13%

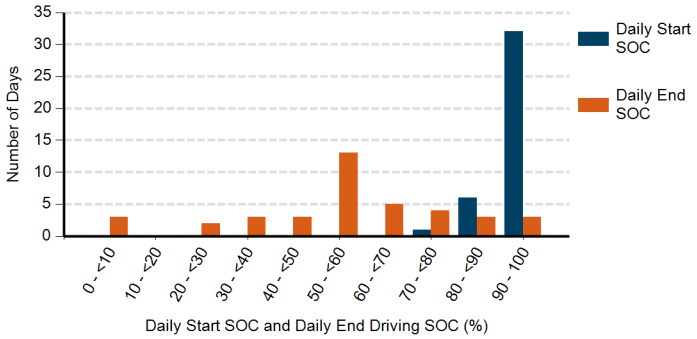


Highway Trips (≤ 5 stops/mile & ≥ 37 mph avg)

DC electrical energy consumption (DC Wh/mi)	438
Number of trips	1
Distance traveled (mi)	29
Percent of total distance traveled (%)	6%
Average Trip Distance (mi)	28.7
Average Driving Speed (mph)	39.3
Average Stops per mile	1.3
Percent of Regen Braking Energy Recovery (%)	3%







1. Calculation based upon average of the vehicles' roundtrip charging efficiency (70%)
2. From www.eia.gov, the national average cost of electricity is $ 0.112 per AC kWhr. The gasoline powered LLV fleet averages 10 mpg.

NOTE: A trip is defined as all vehicle operation between key on and key off