

## USPS eLLV Conversion Fleet

Fleet Location: Washington D.C Metro Area

Reporting period: March 11 - Dec 11

Number of Vehicles: 5

Number of vehicle days driven: 255

### All Trips Combined

Overall DC electrical energy consumption (DC Wh/mi)	452
Overall AC electrical energy consumption (AC Wh/mi) <sup>1</sup>	645
Average operating electricity cost (cents per mile) <sup>2</sup>	7.2
Total number of trips	9,181
Total distance traveled (mi)	3,965
Average Trip Distance (mi)	0.4

### Stop & Go Trips (>5 stops/mile)

DC electrical energy consumption (DC Wh/mi)	486
Number of trips	8,449
Distance traveled (mi)	2,381
Percent of total distance traveled (%)	60%
Average Trip Distance (mi)	0.3
Average Driving Speed (mph)	5.3
Average Stops per mile	32.3
Percent of Regen Braking Energy Recovery (%)	14%

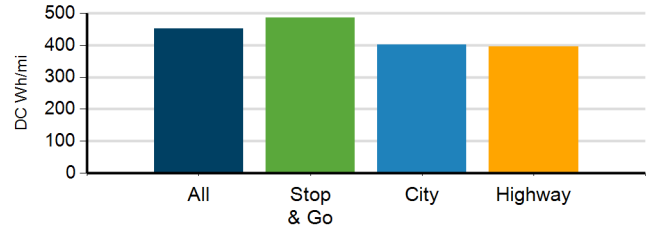
### City Trips (≤ 5 stops/mile & <37 mph avg)

DC electrical energy consumption (DC Wh/mi)	402
Number of trips	694
Distance traveled (mi)	1,450
Percent of total distance traveled (%)	37%
Average Trip Distance (mi)	2.1
Average Driving Speed (mph)	18.6
Average Stops per mile	3.7
Percent of Regen Braking Energy Recovery (%)	13%

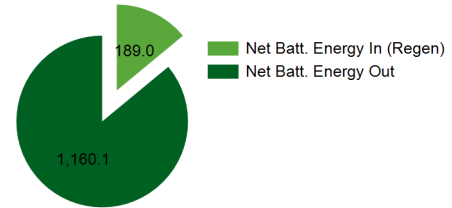
### Highway Trips (≤ 5 stops/mile & ≥ 37 mph avg)

DC electrical energy consumption (DC Wh/mi)	396
Number of trips	38
Distance traveled (mi)	135
Percent of total distance traveled (%)	3%
Average Trip Distance (mi)	3.5
Average Driving Speed (mph)	41.8
Average Stops per mile	2.7
Percent of Regen Braking Energy Recovery (%)	5%

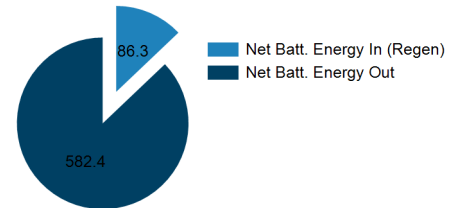
USPS eLLV Energy Consumption



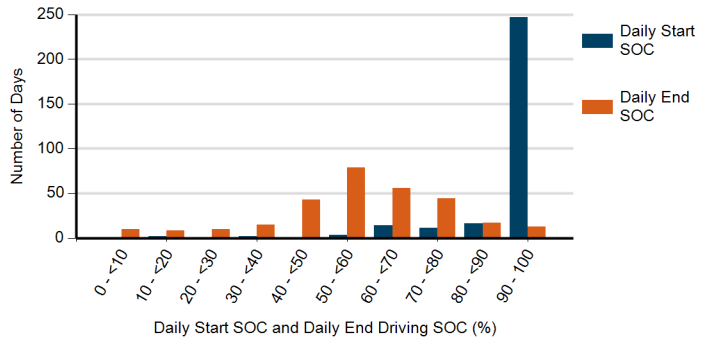
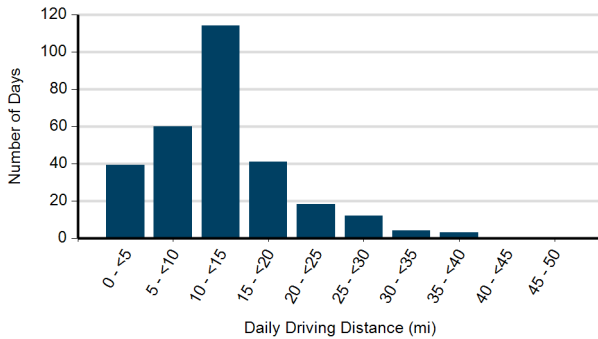
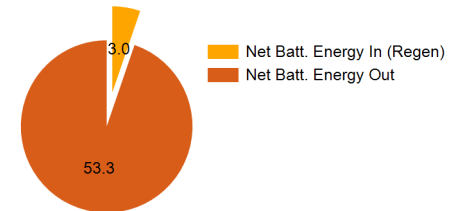
Stop & Go Trips Energy (kWh)



City Trips Energy (kWh)



Highway Trips Energy (kWh)



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