USPS eLLV Conversion Fleet

Fleet Location: Washington D.C Metro Area
Reporting period: May 2011
Number of Vehicles: 5
Number of vehicle days driven: 50

### All Trips Combined

- Overall DC electrical energy consumption (DC Wh/mi) 504
- Overall AC electrical energy consumption (AC Wh/mi) 719
- Average operating electricity cost (cents per mile) 8.1
- Total number of trips 1,401
- Total distance traveled (mi) 719
- Average Trip Distance (mi) 0.5

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

- DC electrical energy consumption (DC Wh/mi) 530
- Number of trips 1,308
- Distance traveled (mi) 495
- Percent of total distance traveled (%) 69%
- Average Trip Distance (mi) 0.4
- Average Driving Speed (mph) 5.6
- Average Stops per mile 31.4
- Percent of Regen Braking Energy Recovery (%) 15%

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

- DC electrical energy consumption (DC Wh/mi) 471
- Number of trips 91
- Distance traveled (mi) 175
- Percent of total distance traveled (%) 24%
- Average Trip Distance (mi) 1.9
- Average Driving Speed (mph) 16.6
- Average Stops per mile 3.8
- Percent of Regen Braking Energy Recovery (%) 13%

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

- DC electrical energy consumption (DC Wh/mi) 357
- Number of trips 2
- Distance traveled (mi) 49
- Percent of total distance traveled (%) 7%
- Average Trip Distance (mi) 24.7
- Average Driving Speed (mph) 41.3
- Average Stops per mile 1.2
- Percent of Regen Braking Energy Recovery (%) 8%

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