## North American PHE V Demonstration

## Fleet Summary Report: <br> Hymotion Prius (V2G reen data logger)

Number of vehicles: 166
Reporting Period: April 2010
All TipsCandined

| Overall gasoline fuel economy (mpg) | 48 |
| :--- | ---: |
| Overall AC electrical energy consumption (AC Wh/mi) |  |
| Overall DC electrical energy consumption (DC Wh/mi) |  |
| Total number of trips | 56 |
| Total distance traveled (mi) | 40 |

TipsinClage Depleting(D) mode ${ }^{3}$

| Gasoline fuel economy (mpg) | 63 |
| :--- | :---: |
| DC electrical energy consumption (DC Wh/mi) | 138 |
| Number of trips | 4,474 |
| Percent of trips city / highway | $87 \%$ |
| / $13 \%$ | $13 \%$ |
| Percent of total distance traveled | 21,639 |

TipssinbothCargeDepletingandChargeSustaining(CD/CS) modes ${ }^{5}$

| Gasoline fuel economy (mpg) | 53 |
| :--- | :---: |
| DC electrical energy consumption (DC Wh/mi) | 51 |
| Number of trips | 776 |
| Percent of trips city / highway | $44 \% /$ |
| Distance traveled (mi) | 21,992 |
| Percent of total distance traveled | $21 \%$ |

TipsindrageSutaining(CS) mode ${ }^{7}$

| Gasoline fuel economy (mpg) | 43 |
| :--- | :---: |
| Number of trips | 5,901 |
| Percent of trips city / highway | $80 \% / 20 \%$ |
| Distance traveled (mi) | 60,011 |
| Percent of total distance traveled | $58 \%$ |
| Number of trips when the plug-in battery pack <br> was turned off by the vehicle operator 8 | 394 |
| Distance traveled with plug-in battery pack <br> turned off by the vehicle operator $(\text { mi) })^{9}$ | 8,897 |

## Vehicle Technologies Program

Date range of data received:
$4 / 1 / 2010$ to $4 / 30 / 2010$
Number of days the vehicles were driven: 30
Gasoline Fuel Economy By Trip Type



Notes: 1-9. Please see http://avt.inel.gov/phev/reportnotes for an explanation of all PHEV Fleet Testing Report notes.

| TipsinChergeDepleting(CD) mock | City | Highwey |
| :--- | ---: | ---: |
| Gasoline fuel economy (mpg) | 62 | 65 |
| DC electrical energy consumption (DC Wh/mi) | 159 | 107 |
| Percent of miles with internal combustion engine off | $35 \%$ | $19 \%$ |
| Average trip aggressiveness (on scale 0-10) | 1.9 | 1.9 |
| Average trip distance (mi) | 3.3 | 15.8 |

## TipsinbothChergeDepletingandChargeSustaining(CD/ CS) modes

| Gasoline fuel economy (mpg) | 50 | 54 |
| :--- | ---: | ---: |
| DC electrical energy consumption (DC Wh/mi) | 80 | 47 |
| Percent of miles with internal combustion engine off | $31 \%$ | $12 \%$ |
| Average trip aggressiveness (on scale $0-10$ ) | 2.0 | 1.7 |
| Average trip distance (mi) | 8.4 | 44.2 |

## TipsindhergeSustaining(CS) mode

| Gasoline fuel economy (mpg) | 37 | 45 |
| :--- | ---: | :---: |
| Percent of miles with internal combustion engine off | $24 \%$ | $9 \%$ |
| Average trip aggressiveness (on scale 0 - 10) | 2.1 | 1.8 |
| Average trip distance $(\mathrm{mi})$ | 3.2 | 38.1 |



Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.


| Average number of charging events per vehicle per month when driven | 12 |
| :--- | ---: |
| Average number of charging events per vehicle per day when vehicle driven | 0.9 |
| Average distance driven between charging events (mi) | 51.2 |
| Average number of trips between charging events | 5.5 |
| Average time plugged in per charging event (hr) | 27.9 |
| Average time charging per charging event (hr) | 2.7 |
| Average energy per charging event (AC kWh) | 2.9 |
| Average charging energy per vehicle per month (AC kWh) | 35.3 |
| Total number of charging events | 2,023 |
| Total charging energy (AC kWh) | 5,828 |

Time of Day When Driving


Time of Day When Charging


Time of Day When Plugging In


