## North American PHE V Demonstration

## Fleet Summary Report: Hymotion Prius (V2G reen data logger) 180

Reporting Period: J an 09-Dec 09
All TipsConbined

| Overall gasoline fuel economy (mpg) | 49 |
| :--- | :---: |
| Overall AC electrical energy consumption (AC Wh/mi) | 57 |
| Overall DC electrical energy consumption (DC Wh/mi) |  |
| Total number of trips | 42 |
| Total distance traveled (mi) | 89,494 |

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

| Gasoline fuel economy (mpg) | 63 |
| :--- | :---: |
| DC electrical energy consumption (DC Wh/mi) | 140 |
| Number of trips | 39,691 |
| Percent of trips city / highway | $86 \% \quad / \quad 14 \%$ |
| Distance traveled (mi) | 181,906 |
| Percent of total distance traveled | $22 \%$ |

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

| Gasoline fuel economy (mpg) | 53 |
| :--- | :---: |
| DC electrical energy consumption (DC Wh/mi) | 6 |
| Number of trips | 49 |
| Percent of trips city / highway | 7,634 |
| Distance traveled (mi) | $53 \%$ |
| Percent of total distance traveled | 194,793 |

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

| Gasoline fuel economy (mpg) | 43 |
| :--- | :---: |
| Number of trips | 42,169 |
| Percent of trips city / highway | $75 \% / 25 \%$ |
| Distance traveled (mi) | 452,145 |
| Percent of total distance traveled | $55 \%$ |
| Number of trips when the plug-in battery pack <br> was turned off by the vehicle operator 8 | 2414 |
| Distance traveled with plug-in battery pack <br> turned off by the vehicle operator (mi) ${ }^{9}$ | 86,112 |

[^0]| TipsinChergeDapleting(CD) mode | City | Highway |
| :--- | ---: | ---: |
| Gasoline fuel economy (mpg) | 61 | 66 |
| DC electrical energy consumption (DC Wh/mi) | 166 | 108 |
| Percent of miles with internal combustion engine off | $30 \%$ | $8 \%$ |
| Average trip aggressiveness (on scale $0-10$ ) | 1.7 | 1.7 |
| Average trip distance (mi) | 3.0 | 14.7 |

## TipsinbothChergeDapletingandChargeSustaining(CD/ CS) modes

| Gasoline fuel economy (mpg) | 55 | 53 |
| :--- | ---: | ---: |
| DC electrical energy consumption (DC Wh/mi) | 79 | 43 |
| Percent of miles with internal combustion engine off | $23 \%$ | $4 \%$ |
| Average trip aggressiveness (on scale $0-10$ ) | 1.8 | 1.6 |
| Average trip distance (mi) | 8.7 | 40.3 |

## TipsindhergeSustaining(CS) mode

| Gasoline fuel economy (mpg) | 37 | 46 |
| :--- | ---: | :---: |
| Percent of miles with internal combustion engine off | $22 \%$ | $4 \%$ |
| Average trip aggressiveness (on scale 0-10) | 1.8 | 1.7 |
| Average trip distance $(\mathrm{mi})$ | 3.7 | 31.3 |



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 | 15 |
| :--- | :---: |
| Average number of charging events per vehicle per day when vehicle driven | 1.0 |
| Average distance driven between charging events (mi) | 45.0 |
| Average number of trips between charging events | 4.9 |
| Average time plugged in per charging event (hr) | 21.1 |
| Average time charging per charging event (hr) | 2.9 |
| Average energy per charging event (AC kWh) | 2.6 |
| Average charging energy per vehicle per month (AC kWh) | 38.1 |
| Total number of charging events | 18,335 |
| Total charging energy (AC kWh) | 47,419 |

Time of Day When Driving


Time of Day When Charging


Time of Day When Plugging In



[^0]:    Notes: 1-9. Please see http://avt.inel.gov/phev/reportnotes for an explanation of all PHEV Fleet Testing Report notes.

