## North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)
Number of vehicles: 78
Reporting Period: July 2011

All Trips Combined

| Overall gasoline fuel economy (mpg) | 48 |
| :---: | :---: |
| Overall AC electrical energy consumption (AC Wh/mi) ${ }^{1}$ | 49 |
| Overall DC electrical energy consumption (DC Wh/mi) ${ }^{2}$ | 34 |
| Total number of trips | 5,966 |
| Total distance traveled (mi) | 53,157 |
| Trips in Charge Depleting (CD) mode ${ }^{3}$ |  |
| Gasoline fuel economy (mpg) | 70 |
| DC electrical energy consumption (DC Wh/mi) 4 | 147 |
| Number of trips | 2,176 |
| Percent of trips city / highway | 87\% / 13\% |
| Distance traveled (mi) | 9,283 |
| Percent of total distance traveled | 17\% |
| Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes ${ }^{5}$ |  |
| Gasoline fuel economy (mpg) | 53 |
| DC electrical energy consumption (DC Wh/mi) 6 | 48 |
| Number of trips | 338 |
| Percent of trips city / highway | 50\% / 50\% |
| Distance traveled (mi) | 8,779 |
| Percent of total distance traveled | 17\% |

Trips in Charge Sustaining (CS) mode ${ }^{7}$

| Gasoline fuel economy (mpg) | 43 |
| :--- | :---: |
| Number of trips | 3,452 |
| Percent of trips city / highway | $78 \% / 22 \%$ |
| Distance traveled (mi) | 35,094 |
| Percent of total distance traveled | $66 \%$ |
| Number of trips when the plug-in battery pack <br> was turned off by the vehicle operator 8 | 427 |
| Distance traveled with plug-in battery pack <br> turned off by the vehicle operator (mi) ${ }^{9}$ | 7,110 |

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


Effect Of Driving Aggressiveness on Fuel Economy This Year


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.

Trip Fuel Economy Distribution By Trip Type


| Average number of charging events per vehicle per month when driven | 13 |
| :--- | :---: |
| Average number of charging events per vehicle per day when vehicle driven | 0.9 |
| Average distance driven between charging events (mi) | 52.5 |
| Average number of trips between charging events | 5.9 |
| Average time plugged in per charging event (hr) | 27.8 |
| Average time charging per charging event (hr) | 2.5 |
| Average energy per charging event (AC kWh) | 2.6 |
| Average charging energy per vehicle per month (AC kWh) | 34.3 |
| Total number of charging events | 1,012 |
| Total charging energy (AC kWh) | 2,611 |

Time of Day When Driving


Time of Day When Charging


Time of Day When Plugging In


