## North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)
Number of vehicles: 173
Reporting Period: Jan 10 - Dec 10

## Vehicle Technologies Program

Date range of data received:

$$
1 / 1 / 2010 \text { to } 12 / 31 / 2010
$$

Number of days the vehicles were driven: 365

Gasoline Fuel Economy By Trip Type


Distance Traveled By Trip Type


Miles Logged by Month This Year


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

| Trips in Charge Depleting (CD) mode | City | Highway |
| :---: | :---: | :---: |
| Gasoline fuel economy (mpg) | 60 | 65 |
| DC electrical energy consumption (DC Wh/mi) | 164 | 109 |
| Percent of miles with internal combustion engine off | 34\% | 20\% |
| Average trip aggressiveness (on scale 0-10) | 2.0 | 1.9 |
| Average trip distance (mi) | 3.2 | 15.6 |
| Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes |  |  |
| Gasoline fuel economy (mpg) | 52 | 53 |
| DC electrical energy consumption (DC Wh/mi) | 78 | 44 |
| Percent of miles with internal combustion engine off | 29\% | 12\% |
| Average trip aggressiveness (on scale 0-10) | 2.0 | 1.6 |
| Average trip distance (mi) | 9.2 | 43.0 |
| Trips in Charge Sustaining (CS) mode |  |  |
| Gasoline fuel economy (mpg) | 36 | 46 |
| Percent of miles with internal combustion engine off | 23\% | 9\% |
| Average trip aggressiveness (on scale 0-10) | 2.1 | 1.7 |
| Average trip distance (mi) | 3.4 | 37.7 |

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 | 12 |
| :--- | :---: |
| Average number of charging events per vehicle per day when vehicle driven | 0.8 |
| Average distance driven between charging events (mi) | 57.0 |
| Average number of trips between charging events | 5.9 |
| Average time plugged in per charging event (hr) | 26.5 |
| Average time charging per charging event (hr) | 2.6 |
| Average energy per charging event (AC kWh) | 2.8 |
| Average charging energy per vehicle per month (AC kWh) | 33.1 |
| Total number of charging events | 22,965 |
| Total charging energy (AC kWh) | 64,670 |

Time of Day When Driving


Time of Day When Charging


Time of Day When Plugging In


