## EV Project Chevrolet Volt Vehicle Summary Report

Region: ALL
Number of vehicles: 809
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Overall fuel economy (mpg) | 136 |
| :--- | ---: |
| Overall electrical energy consumption (AC Wh/mi) | 222 |
| Number of trips ${ }^{1}$ | 286,682 |
| Total distance traveled (mi) | $2,392,509$ |
| Avg trip distance (mi) | 8.3 |
| Avg distance traveled per day when the vehicle was driven (mi) | 41.2 |
| Avg number of trips between charging events | 3.5 |
| Avg distance traveled between charging events (mi) | 29.3 |
| Avg number of charging events per day when the vehicle was driven | 1.4 |

## = $=1 /$ Project

|  | Home <br> charging | Away-from- <br> home <br> charging | Unknown <br> charging |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | location $^{2}$ | locations $^{3}$ | locations $^{4}$ |

Battery State of Charge (SOC) at the Start of Charging Events


Frequency of Charging by Charging Location


Battery State of Charge (SOC) at the End of Charging Events


[^0]2 Charging events at the "home charging location" refer to charging events performed at the location where the vehicle owner's home charging unit is installed. 3 Charging events at "away-from-home charging locations" refer to charging events performed at any location other than the vehicle's "home charging location." 4 Charging events at "unknown charging locations" were performed when the vehicle's location relative to its "home charging location" is not known, due to GPS data anomalies.

## EV Project Chevrolet Volt Vehicle Summary Report

Region: Phoenix, AZ Metropolitan Area
Number of vehicles: 61
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Overall fuel economy (mpg) | 115 |
| :--- | ---: |
| Overall electrical energy consumption (AC Wh/mi) | 244 |
| Number of trips ${ }^{1}$ | 23,312 |
| Total distance traveled (mi) | 202,464 |
| Avg trip distance (mi) | 8.7 |
| Avg distance traveled per day when the vehicle was driven (mi) | 44.0 |
| Avg number of trips between charging events | 3.5 |
| Avg distance traveled between charging events (mi) | 30.4 |
| Avg number of charging events per day when the vehicle was driven | 1.4 |



|  | Home <br> charging <br> location $^{2}$ | Away-from- <br> home <br> charging <br> locations $^{3}$ | Unknown <br> charging <br> locations |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | 5,558 | 935 | 178 |
| Number of charging events | $83 \%$ | $14 \%$ | $3 \%$ |
| Percent of all charging events |  |  |  |

Battery State of Charge (SOC) at the Start of Charging Events


## EV Project Chevrolet Volt Vehicle Summary Report

## Region: Los Angeles, CA Metropolitan Area

Number of vehicles: 101
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Overall fuel economy (mpg) | 125 |
| :--- | ---: |
| Overall electrical energy consumption (AC Wh/mi) | 224 |
| Number of trips ${ }^{1}$ | 34,509 |
| Total distance traveled (mi) | 275,094 |
| Avg trip distance (mi) | 8.0 |
| Avg distance traveled per day when the vehicle was driven (mi) | 39.3 |
| Avg number of trips between charging events | 4.0 |
| Avg distance traveled between charging events (mi) | 31.5 |
| Avg number of charging events per day when the vehicle was driven | 1.2 |



|  | Home <br> charging <br> location $^{2}$ | Away-from- <br> home <br> charging <br> locations $^{3}$ | Unknown <br> charging <br> locations $^{4}$ |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | 6,642 | 1,366 | 727 |
| Number of charging events | $76 \%$ | $16 \%$ | $8 \%$ |
| Percent of all charging events |  |  |  |



Battery State of Charge (SOC) at the End of Charging Events


1 A trip is defined as all the driving done between consecutive "key-on" and "key-off" events when some distance was traveled.
2 Charging events at the "home charging location" refer to charging events performed at the location where the vehicle owner's home charging unit is installed. 3 Charging events at "away-from-home charging locations" refer to charging events performed at any location other than the vehicle's "home charging location." 4 Charging events at "unknown charging locations" were performed when the vehicle's location relative to its "home charging location" is not known, due to GPS data anomalies.

## EV Project Chevrolet Volt Vehicle Summary Report

## Region: San Diego, CA Metropolitan Area

Number of vehicles: 114
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Vehicle Usage | 137 |
| :--- | ---: |
| Overall fuel economy (mpg) | 226 |
| Overall electrical energy consumption (AC Wh/mi) | 41,129 |
| Number of trips ${ }^{1}$ | 316,969 |
| Total distance traveled (mi) | 7.7 |
| Avg trip distance (mi) | 38.7 |
| Avg distance traveled per day when the vehicle was driven (mi) | 3.8 |
| Avg number of trips between charging events | 29.6 |
| Avg distance traveled between charging events (mi) | 1.3 |

## =7VProject

Frequency of Charging by Charging Location


|  | Home <br> charging <br> location $^{2}$ | Away-from- <br> home <br> charging <br> locations $^{3}$ | Unknown <br> charging <br> locations |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | 8,204 | 1,399 | 1,088 |
| Number of charging events | $77 \%$ | $13 \%$ | $10 \%$ |
| Percent of all charging events |  |  |  |



[^1]
## EV Project Chevrolet Volt Vehicle Summary Report

Region: Washington, D.C. Metropolitan Area

Number of vehicles: 149
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Vehicle Usage | 151 |
| :--- | ---: |
| Overall fuel economy (mpg) | 215 |
| Overall electrical energy consumption (AC Wh/mi) | 49,025 |
| Number of trips ${ }^{1}$ | 447,540 |
| Total distance traveled (mi) | 9.1 |
| Avg trip distance (mi) | 42.3 |
| Avg distance traveled per day when the vehicle was driven (mi) | 3.4 |
| Avg number of trips between charging events | 30.9 |
| Avg distance traveled between charging events (mi) | 1.4 |

## =7VProject



|  | Home <br> charging <br> location $^{2}$ | Away-from- <br> home <br> charging <br> locations $^{3}$ | Unknown <br> charging <br> locations |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | 11,461 | 1,619 | 1,415 |
| Number of charging events | $79 \%$ | $11 \%$ | $10 \%$ |
| Percent of all charging events |  |  |  |



Battery State of Charge (SOC) at the End of Charging Events


1 A trip is defined as all the driving done between consecutive "key-on" and "key-off" events when some distance was traveled.
2 Charging events at the "home charging location" refer to charging events performed at the location where the vehicle owner's home charging unit is installed. 3 Charging events at "away-from-home charging locations" refer to charging events performed at any location other than the vehicle's "home charging location." 4 Charging events at "unknown charging locations" were performed when the vehicle's location relative to its "home charging location" is not known, due to GPS data anomalies.

## EV Project Chevrolet Volt Vehicle Summary Report

## Region: Oregon

Number of vehicles: 76
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Overall fuel economy (mpg) | 150 |
| :--- | ---: |
| Overall electrical energy consumption (AC Wh/mi) | 208 |
| Number of trips ${ }^{1}$ | 27,216 |
| Total distance traveled (mi) | 213,048 |
| Avg trip distance (mi) | 7.8 |
| Avg distance traveled per day when the vehicle was driven (mi) | 39.8 |
| Avg number of trips between charging events | 3.5 |
| Avg distance traveled between charging events (mi) | 27.6 |
| Avg number of charging events per day when the vehicle was driven | 1.4 |

## =7/ Project

|  | Home <br> charging | Away-from- <br> home <br> charging | Unknown <br> charging |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | location $^{2}$ | locations $^{3}$ | locations $^{4}$ |

Battery State of Charge (SOC) at the Start of Charging Events


Frequency of Charging by Charging Location


Battery State of Charge (SOC) at the End of Charging Events


1 A trip is defined as all the driving done between consecutive "key-on" and "key-off" events when some distance was traveled.
2 Charging events at the "home charging location" refer to charging events performed at the location where the vehicle owner's home charging unit is installed.
3 Charging events at "away-from-home charging locations" refer to charging events performed at any location other than the vehicle's "home charging location."
4 Charging events at "unknown charging locations" were performed when the vehicle's location relative to its "home charging location" is not known, due to GPS data anomalies.

## EV Project Chevrolet Volt Vehicle Summary Report

Region: Knoxville, TN Metropolitan Area
Number of vehicles: 14
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Overall fuel economy (mpg) | 128 |
| :--- | ---: |
| Overall electrical energy consumption (AC Wh/mi) | 207 |
| Number of trips ${ }^{1}$ | 4,876 |
| Total distance traveled (mi) | 39,938 |
| Avg trip distance (mi) | 8.2 |
| Avg distance traveled per day when the vehicle was driven (mi) | 41.1 |
| Avg number of trips between charging events | 3.6 |
| Avg distance traveled between charging events (mi) | 29.3 |
| Avg number of charging events per day when the vehicle was driven | 1.4 |



|  | Home <br> charging <br> location $^{2}$ | Away-from- <br> home <br> charging <br> locations $^{3}$ | Unknown <br> charging <br> locations |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | 1,022 | 236 | 103 |
| Number of charging events | $75 \%$ | $17 \%$ | $8 \%$ |
| Percent of all charging events |  |  |  |



[^2]
## EV Project Chevrolet Volt Vehicle Summary Report

Region: Memphis, TN Metropolitan Area
Number of vehicles: 16
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Overall fuel economy (mpg) | 110 |
| :--- | ---: |
| Overall electrical energy consumption (AC Wh/mi) | 220 |
| Number of trips ${ }^{1}$ | 6,019 |
| Total distance traveled (mi) | 41,380 |
| Avg trip distance (mi) | 6.9 |
| Avg distance traveled per day when the vehicle was driven (mi) | 37.0 |
| Avg number of trips between charging events | 3.8 |
| Avg distance traveled between charging events (mi) | 26.3 |
| Avg number of charging events per day when the vehicle was driven | 1.4 |


|  | Home <br> charging | Away-from- <br> home <br> charging | Unknown <br> charging |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | location $^{2}$ | locations $^{3}$ | locations $^{4}$ |

Battery State of Charge (SOC) at the Start of Charging Events


Frequency of Charging by Charging Location


## EV Project Chevrolet Volt Vehicle Summary Report

Region: Nashville, TN Metropolitan Area

Number of vehicles: 20

Reporting period: July 2012 through September 2012

## Vehicle Usage

| Vehicle Usage | 138 |
| :--- | ---: |
| Overall fuel economy (mpg) | 213 |
| Overall electrical energy consumption (AC Wh/mi) | 7,173 |
| Number of trips ${ }^{1}$ | 63,708 |
| Total distance traveled (mi) | 8.9 |
| Avg trip distance (mi) | 43.9 |
| Avg distance traveled per day when the vehicle was driven (mi) | 3.4 |
| Avg number of trips between charging events | 30.2 |
| Avg distance traveled between charging events (mi) | 1.5 |


|  | Home <br> charging | Away-from- <br> home <br> charging | Unknown <br> charging |
| :--- | :---: | :---: | :---: |
| Cocations ${ }^{3}$ |  |  |  |${\text { locations }{ }^{4}}^{\text {Charging Location and Type }}$| location $^{2}$ | 1,360 | 300 | 451 |
| :--- | :---: | :---: | :---: |
| Number of charging events | $64 \%$ | $14 \%$ | $21 \%$ |
| Percent of all charging events |  |  |  |

Battery State of Charge (SOC) at the Start of Charging Events


Frequency of Charging by Charging Location


1 A trip is defined as all the driving done between consecutive "key-on" and "key-off" events when some distance was traveled.
2 Charging events at the "home charging location" refer to charging events performed at the location where the vehicle owner's home charging unit is installed.
3 Charging events at "away-from-home charging locations" refer to charging events performed at any location other than the vehicle's "home charging location."
4 Charging events at "unknown charging locations" were performed when the vehicle's location relative to its "home charging location" is not known, due to GPS data anomalies.

## EV Project Chevrolet Volt Vehicle Summary Report

## Region: Dallas/Ft. Worth, TX Metropolitan Area

Number of vehicles: 109
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Vehicle Usage |  |
| :--- | ---: |
| Overall fuel economy (mpg) | 136 |
| Overall electrical energy consumption (AC Wh/mi) | 243 |
| Number of trips ${ }^{1}$ | 30,909 |
| Total distance traveled (mi) | 838,646 |
| Avg trip distance (mi) | 8.3 |
| Avg distance traveled per day when the vehicle was driven (mi) | 3.8 |
| Avg number of trips between charging events | 26.3 |
| Avg distance traveled between charging events (mi) | 1.6 |
| Avg number of charging events per day when the vehicle was driven |  |



|  | Home <br> charging <br> location $^{2}$ | Away-from- <br> home <br> charging <br> locations $^{3}$ | Unknown <br> charging <br> locations |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | 10,080 | 1,982 | 839 |
| Number of charging events | $78 \%$ | $15 \%$ | $7 \%$ |
| Percent of all charging events |  |  |  |



Battery State of Charge (SOC) at the End of Charging Events


[^3]2 Charging events at the "home charging location" refer to charging events performed at the location where the vehicle owner's home charging unit is installed. 3 Charging events at "away-from-home charging locations" refer to charging events performed at any location other than the vehicle's "home charging location." 4 Charging events at "unknown charging locations" were performed when the vehicle's location relative to its "home charging location" is not known, due to GPS data anomalies.

Idaho National Laboratory

## EV Project Chevrolet Volt Vehicle Summary Report

Region: Houston, TX Metropolitan Area
Number of vehicles: 59
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Overall fuel economy (mpg) | 130 |
| :--- | ---: |
| Overall electrical energy consumption (AC Wh/mi) | 219 |
| Number of trips ${ }^{1}$ | 19,506 |
| Total distance traveled (mi) | 178,002 |
| Avg trip distance (mi) | 9.1 |
| Avg distance traveled per day when the vehicle was driven (mi) | 43.2 |
| Avg number of trips between charging events | 3.4 |
| Avg distance traveled between charging events (mi) | 31.3 |
| Avg number of charging events per day when the vehicle was driven | 1.4 |



|  | Home <br> charging <br> location $^{2}$ | Away-from- <br> home <br> charging <br> locations $^{3}$ | Unknown <br> charging <br> locations |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | 4,619 | 791 | 278 |
| Number of charging events | $81 \%$ | $14 \%$ | $5 \%$ |
| Percent of all charging events |  |  |  |

Battery State of Charge (SOC) at the Start of Charging Events

Battery State of Charge (SOC) at the End of Charging Events



[^4]Idaho National Laboratory

## EV Project Chevrolet Volt Vehicle Summary Report

## Region: Washington State

Number of vehicles: 72
Reporting period: July 2012 through September 2012

## Vehicle Usage

| Overall fuel economy (mpg) | 155 |
| :--- | ---: |
| Overall electrical energy consumption (AC Wh/mi) | 209 |
| Number of trips ${ }^{1}$ | 26,670 |
| Total distance traveled (mi) | 211,961 |
| Avg trip distance (mi) | 7.9 |
| Avg distance traveled per day when the vehicle was driven (mi) | 40.4 |
| Avg number of trips between charging events | 3.3 |
| Avg distance traveled between charging events (mi) | 26.6 |
| Avg number of charging events per day when the vehicle was driven | 1.5 |


|  | Home <br> charging | Away-from- <br> home <br> charging | Unknown <br> charging |
| :--- | :---: | :---: | :---: |
| Charging Location and Type | location $^{2}$ | locations $^{3}$ | locations $^{4}$ |

Battery State of Charge (SOC) at the Start of Charging Events


Frequency of Charging by Charging Location


Battery State of Charge (SOC) at the End of Charging Events


[^5]2 Charging events at the "home charging location" refer to charging events performed at the location where the vehicle owner's home charging unit is installed. 3 Charging events at "away-from-home charging locations" refer to charging events performed at any location other than the vehicle's "home charging location." 4 Charging events at "unknown charging locations" were performed when the vehicle's location relative to its "home charging location" is not known, due to GPS data anomalies.

Idaho National Laboratory


[^0]:    1 A trip is defined as all the driving done between consecutive "key-on" and "key-off" events when some distance was traveled.

[^1]:    1 A trip is defined as all the driving done between consecutive "key-on" and "key-off" events when some distance was traveled.
    2 Charging events at the "home charging location" refer to charging events performed at the location where the vehicle owner's home charging unit is installed. 3 Charging events at "away-from-home charging locations" refer to charging events performed at any location other than the vehicle's "home charging location." 4 Charging events at "unknown charging locations" were performed when the vehicle's location relative to its "home charging location" is not known, due to GPS data anomalies.

[^2]:    1 A trip is defined as all the driving done between consecutive "key-on" and "key-off" events when some distance was traveled.
    2 Charging events at the "home charging location" refer to charging events performed at the location where the vehicle owner's home charging unit is installed. 3 Charging events at "away-from-home charging locations" refer to charging events performed at any location other than the vehicle's "home charging location." 4 Charging events at "unknown charging locations" were performed when the vehicle's location relative to its "home charging location" is not known, due to GPS data anomalies.

[^3]:    1 A trip is defined as all the driving done between consecutive "key-on" and "key-off" events when some distance was traveled.

[^4]:    1 A trip is defined as all the driving done between consecutive "key-on" and "key-off" events when some distance was traveled.
    2 Charging events at the "home charging location" refer to charging events performed at the location where the vehicle owner's home charging unit is installed. 3 Charging events at "away-from-home charging locations" refer to charging events performed at any location other than the vehicle's "home charging location." 4 Charging events at "unknown charging locations" were performed when the vehicle's location relative to its "home charging location" is not known, due to GPS data anomalies.

[^5]:    1 A trip is defined as all the driving done between consecutive "key-on" and "key-off" events when some distance was traveled.

