

Report Price: £2466.89 | \$3995.00 | €3133.71

The above prices are correct at the time of publication, but are subject to change due to currency fluctuations.



"The hybrid and electric car market is growing at breakneck speeds, but there's some concern that this is mostly driven by government distortions. Without robust market demand, this segment remains at the whims of political fancy. With the gap between what consumers are willing to pay and what hybrid and electrics actually cost remaining wide, affordability remains the key issue."

— Colin Bird, Automotive Analyst

This report looks at the following areas:

- · How can hybrid and electric vehicle manufacturers address affordability concerns?
- How can hybrid and electric vehicle manufacturers address performance and range concerns?

This report provides a detailed review of the hybrid and electric car market in the US. It provides insight into the external and internal factors affecting hybrid and electric car sales, consumption, and purchasing intent. The report explores consumers' chief concerns when buying into this category for those who are ambivalent of these newer technologies, including reliability, range, recharging times, and charging station convenience.

This report builds on the analysis presented in Mintel's *Hybrid and Electric Cars – US, November 2012*, as well as the *September 2011* report of the same title.

- For the purposes of this report, Mintel defines the hybrid and electric vehicle market as including passenger vehicles (cars and light trucks), that are based on the following technologies:
- Hybrid electric vehicle (HEV)
- · Plug-in hybrid electric vehicle (PHEV)
- Electric vehicle (EV)

The following alternative fuel technologies are discussed in the report but are not considered part of the hybrid and electric market:

- Diesel
- Compressed natural gas (CNG)
- Fuel cell vehicle (FCV)

For more detailed explanation of these fuel technologies see *Terms* .

Note: This report will also not cover any developments surrounding the use of propane or biodiesel as a power source.

BUY THIS REPORT NOW

VISIT: store.mintel.com

CALL: EMEA +44 (0) 20 7606 4533

> Brazil 0800 095 9094

Americas +1 (312) 943 5250

APAC +61 (0) 2 8284 8100

EMAIL: oxygen@mintel.com

DID YOU KNOW?

This report is part of a series of reports, produced to provide you with a more holistic view of this market



Report Price: £2466.89 | \$3995.00 | €3133.71

The above prices are correct at the time of publication, but are subject to change due to currency fluctuations.

#### **Table of Contents**

#### Scope and Themes

What you need to know

Definition

Data sources

Sales data

Consumer survey data

Abbreviations and terms

Abbreviations

Terms

#### **Executive Summary**

#### The market

Figure 1: Total U.S unit sales of hybrid and plug-in electric vehicles and forecast of market, 2008-18

#### Market factors

#### New CAFE standards encourage sale of hybrids and plug-in electrics

Figure 2: Projections of new and existing light vehicle fleet fuel efficiency, 2012-40

## Regulations in California have massive effect on plug-in hybrid and electric car sales

Figure 3: California zero-emission vehicle (ZEV) sales, as mandated by the 2012 amendments to the California Zero-Emission Vehicle Regulation

#### Historically high fuel prices help shift consumer purchasing preferences toward hybrids and electrics

Figure 4: All grades/all formulations retail gasoline prices, dollars per gallon, 1993-2013

### Key players

## Toyota dominates the hybrid and electric market

Figure 5: Largest manufacturers in the hybrid and electric segment, by market share, November 2013-year to date

## The consumer

## Approximately 4% of household vehicles are hybrids or alternative powered

Figure 6: Vehicles owned by household, by vehicle body style and hybrid/alternative power, November 2013

## Hybrids most popular alternative vehicle considered by vehicle purchasers

Figure 7: Intent on purchasing an alternative fuel vehicle, by type, Millennials versus Baby Boomers, November 2013

## Top reasons for not buying a hybrid or plug-in electric include expense and recharging options

Figure 8: Reasons for not wanting an alternative fuel vehicle, November 2013

## Top reasons for purchasing a hybrid or plug-in electric include saving money on fuel

Figure 9: Reasons for wanting an alternative fuel vehicle, by hybrid, plug-in hybrid and electric vehicle only, November 2013

## What we think

### Issues and Insights

## How can hybrid and electric vehicle manufacturers address affordability concerns?

The issues

The implications



VISIT: store.mintel.com

CALL: EMEA +44 (0) 20 7606 4533 | Brazil 0800 095 9094



Report Price: £2466.89 | \$3995.00 | €3133.71

The above prices are correct at the time of publication, but are subject to change due to currency fluctuations.

How can hybrid and electric vehicle manufacturers address performance and range concerns?

The issues

The implications

**Trend Applications** 

Trend: Prove It

Figure 10: Lincoln "That's Me" print and web advertising, October 2013

Trend: Green and Lean

Mintel Futures: Brand Intervention

Market Size and Forecast

Key points

Hybrid and plug-in electrics to top 1 million annual sales by 2017

Figure 11: Total US unit sales of total hybrid and plug-in electric vehicle sales, 2008-18

Hybrids

Figure 12: Total US unit sales of total hybrid vehicle sales, 2008-18

Plug-in electrics

Figure 13: Total US unit sales of total plug-in electric vehicle sales, 2008-18

Fan chart forecasts

Figure 14: Total US unit sales and fan chart forecast for hybrids and plug-in electrics, 2008-18

Figure 15: Total US unit sales and fan chart forecast for hybrids, 2008-18

Figure 16: Total US unit sales and fan chart forecast for plug-in electrics, 2008-18

Market Drivers

Key points

New fuel economy standards will encourage sale of hybrids and plug-in electrics

Figure 17: Projections of new and existing light vehicle fleet fuel efficiency, 2012-40

California regulations help spur or curtail plug-in electrics

High fuel prices shift consumer purchasing preferences

Figure 18: All grades all formulations retail gasoline prices, dollars per gallon, 1993-2013

Figure 19: Gasoline regular grade retail price including taxes US average dollars per gallon, 2012-14 (forecast)

Labor force participation, real disposable income, and unemployment critical to hybrid and electric car sales

Figure 20: Key macroeconomic indicators; labor force, unemployment and DPI, (2005 chain-weighted dollars), 2011-40

Figure 21: Civilian labor force participation rates by age, 1992, 2002, 2012, and projected 2022

American drivers continue to drive fewer miles, weakening demand

Figure 22: Vehicle miles traveled per licensed driver, 1970-2040

Government excise tax credits and state rebates/credits help spur demand for plug-in electrics

Figure 23: State hybrid and electric vehicle incentives, 2013 (Part 1: AL-DC)

Figure 24: State hybrid and electric vehicle incentives, 2013 (Part 2: FL-LA)

Figure 25: State hybrid and electric vehicle incentives, 2013 (Part 3: ME-NY)

Figure 26: State hybrid and electric vehicle incentives, 2013 (Part 4: NC-TX)

BUY THIS REPORT NOW VISIT: store.mintel.com

CALL: EMEA +44 (0) 20 7606 4533 | Brazil 0800 095 9094



Report Price: £2466.89 | \$3995.00 | €3133.71

The above prices are correct at the time of publication, but are subject to change due to currency fluctuations.

Figure 27: State hybrid and electric vehicle incentives, 2013 (Part 5: UT-WA)

#### Competitive Context

#### Key points

Hybrids expected to dominate alternative energy transportation, but competition exist in diesels, natural gas, and fuel cells

Figure 28: Sales of light duty vehicles using nongasoline technologies by type, 2011, 2025, and 2040

#### Diesels

## Natural gas

Figure 29: Natural gas consumption in the transportation sector, 2010-40

### Hydrogen fuel cells

### Fuel efficient nonhybrid gasoline vehicles

Figure 30: Most fuel-efficient nonhybrid gasoline powered vehicles

#### Market Segmentation

### Hybrid versus Plug-in Electric

## Key points

## Hybrid dominates over plug-in electric

Figure 31: Share of total US unit sales of vehicles, by engine type, 2008-18

## Car type

## Key points

## Compact and midsized passenger cars continue to dominate hybrid and electric space

Figure 32: US unit sales of hybrid vehicles, by segment, YTD Nov 2012-YTD Nov 2013

Figure 33: US unit sales of hybrid midsize cars, 2008-13

### Luxury hybrid and plug-in electric sales outpace mainstream units

Figure 34: US unit sales of hybrids/plug-in vehicles, mainstream versus luxury segments, 2008-13

### Leading Manufacturers

#### Key points

## Despite increased competition, Toyota dominates the hybrid and electric market

Figure 35: Largest hybrid and electric manufacturers, by market share, November 2013-year to date

## A note on the manufacturer and dealers relationship

#### Manufacturer profiles

## Toyota Motor Sales USA, Inc.

Figure 36: Toyota hybrid and electric market share and unit sales, by model, 2012-13

## Ford Motor Company

Figure 37: Ford hybrid and electric market share and unit sales, by model 2012-13

#### General Motors Company

Figure 38: General Motors hybrid and electric market share and unit sales, by model, 2012-13

## Nissan North America Inc.

Figure 39: Nissan hybrid and electric market share and unit sales, by model, 2012-13

## Hyundai Motor America



VISIT: store.mintel.com

CALL: EMEA +44 (0) 20 7606 4533 | Brazil 0800 095 9094



Report Price: £2466.89 | \$3995.00 | €3133.71

The above prices are correct at the time of publication, but are subject to change due to currency fluctuations.

Figure 40: Hyundai hybrid and electric market share and unit sales, by model, 2012-13

#### American Honda Motor Co. Inc.

Figure 41: Honda hybrid and electric market share and unit sales, by model, 2012-13

#### Tesla Motors, Inc.

Figure 42: Tesla hybrid and electric market share and unit sales, by model, 2012-13

#### Innovations and Innovators

Technical advancement drives performance and so luxury sales

2014 mainstream hybrid introductions from Honda, Nissan, and Subaru

2014 mainstream family vehicle plug-in introductions

2014 high-performance plug-in hybrid introductions

#### Marketing Strategies

#### Overview of the brand landscape

## Strategy: attractive lease deals salient marketing position for hybrids and plug-in electrics

Figure 43: Special lease terms for select plug-in hybrids and all-electrics, January 2014

### Strategy: lower prices attract mainstream consumers

Figure 44: Price changes on popular plug-in electrics, from 2011-14 model year

## Strategy: distinguish new hybrids and plug-in electrics with sub-branding

Figure 45: Toyota Prius family, 2013

Figure 46: Toyota Prius Family "Hum" TV Spot, October 2012

Figure 47: BMW i3 TV Spot, October 2013

## Strategy: Tesla's unique no-hassle, haggle-free, retail distribution is a breath of fresh air for consumers

Strategy: adding plug-in electrics to certified preowned programs

## Social Media – Hybrid and Electric Cars

## Key points

#### Key social media metrics

Figure 48: Key performance indicators, December 2013

#### Market overview

## Brand ownership and awareness

Figure 49: Brand ownership and awareness: hybrid and electric car brands, October 2013

## Interaction with brands

Figure 50: Interaction with hybrid and electric car brands, October 2013

### Online conversations

Figure 51: Toyota Prius positive words, December 9, 2012-December 8, 2013

Figure 52: Online mentions, selected hybrid and electric car brands, by week, December 9, 2012-December 8, 2013

#### Where are people talking about hybrid and electric car brands?

Figure 53: Mentions by page type, selected hybrid and electric car brands, December 9, 2012-December 8, 2013

## What are people talking about online?

Figure 54: Mentions by type of conversation, selected hybrid and electric car brands, December 9, 2012-December 8, 2013

BUY THIS REPORT NOW VISIT: store.mintel.com

CALL: EMEA +44 (0) 20 7606 4533 | Brazil 0800 095 9094



Report Price: £2466.89 | \$3995.00 | €3133.71

The above prices are correct at the time of publication, but are subject to change due to currency fluctuations.

### Brand analysis

#### Toyota Prius

Figure 55: Toyota Prius key social media indicators, November 2013

#### Tesla

Figure 56: Tesla key social media indicators, December 2013

#### Nissan LEAF

Figure 57: Nissan LEAF key social media indicators, December 2013

#### Ford C-Max

Figure 58: Ford C-max key social media indicators, December 2013

#### Chevrolet Volt

Figure 59: Chevrolet Volt key social media indicators, December 2013

#### Volkswagen Jetta TDI

Figure 60: Volkswagen Jetta TDI key social media indicators, December 2013

#### Vehicles Owned by Household, by Vehicle Body Style

#### Key points

#### Approximately 4% of household vehicles are hybrids or alternative powered

Figure 61: Vehicles owned by household, by vehicle body style and hybrid/alternative powertrain, November 2013

## Little difference in hybrid/alternative vehicle ownership across generational groups

Figure 62: Vehicles owned by household, by vehicle body style and hybrid/alternative powertrain, by generations, November 2013

## $Hybrid/alternative\ powered\ vehicles\ far\ more\ likely\ to\ be\ owned\ by\ households\ earning\ \$100K+$

Figure 63: Vehicles owned by household, by vehicle body style and hybrid/alternative powertrain, by household income, November 2013

## Hybrid/alternative powered vehicles more popular in the West and South

Figure 64: Vehicles owned by household, by vehicle body style and hybrid/alternative powertrain, by region, November 2013

## Millennial parents more likely to own a hybrid/alternative powered vehicle

Figure 65: Vehicles owned by household, by vehicle body style and hybrid/alternative powertrain, by Millennial versus non-Millennial parent, November 2013

## Multiple vehicle owners more likely to own hybrid/alternative powered vehicle

Figure 66: Vehicles owned by household, by vehicle body style and hybrid/alternative powertrain, by single versus multiple car ownership, November 2013

### Heavier drivers more likely to own a hybrid/alternative powered vehicle

Figure 67: Vehicles owned by household, by vehicle body style and hybrid/alternative powertrain, by mileage driven, November 2013

## Smartphone/tablet owners more likely to own a hybrid/alternative powered vehicle

Figure 68: Vehicles owned by household, by vehicle body style and hybrid/alternative powertrain, by smartphone and tablet ownership, November 2013

## Intent of Purchasing a Vehicle in the Next Three Years

## Key points

### More than half of households expect to purchase a car in the next three years

Figure 69: Intent of purchasing a vehicle in the next three years, November 2013

### Millennials most likely to purchase a vehicle in the next three years

Figure 70: Intent of purchasing a vehicle in the next three years, by generations, November 2013

## Heavy drivers more likely to expect to buy in the next three years

Figure 71: Intent of purchasing a vehicle in the next three years, by mileage driven, November 2013

BUY THIS REPORT NOW VISIT: store.mintel.com

CALL: EMEA +44 (0) 20 7606 4533 | Brazil 0800 095 9094 Americas +1 (312) 943 5250 | APAC +61 (0) 2 8284 8100



Report Price: £2466.89 | \$3995.00 | €3133.71

The above prices are correct at the time of publication, but are subject to change due to currency fluctuations.

### Among those expecting to purchase a vehicle in the next three years, about 44% expect to purchase within the next year

Figure 72: When the next vehicle will be purchased, November 2013

#### Heavy drivers more likely to plan to purchase within the next year

Figure 73: When the next vehicle will be purchased, November 2013

## Millennials are far more likely to purchase in the next year

Figure 74: When next vehicle will be purchased, by generations, November 2013

#### Intent on Purchasing an Alternative Fuel Vehicle, by Type

#### Key points

### Hybrids most popular alternative vehicle considered by vehicle purchasers

Figure 75: Intent on purchasing an alternative fuel vehicle, by type, November 2013

### Millennials far and away the most interested in alternative fuels

Figure 76: Intent on purchasing an alternative fuel vehicle, by type, by generations, November 2013

#### Males 18-34 most enthusiastic for hybrids and electrics

Figure 77: Intent on purchasing an alternative fuel vehicle, by type, by gender and age, November 2013

## Households income has mixed correlation to hybrid or electric intentions

Figure 78: Intent on purchasing an alternative fuel vehicle, by type, by household income, November 2013

#### Less enthusiasm for hybrids and electrics in the Midwest

Figure 79: Intent on purchasing an alternative fuel vehicle, by type, by region, November 2013

#### Heavy drivers more interested in hybrid and plug-in electrics

Figure 80: Intent on purchasing an alternative fuel vehicle, by type, by mileage driven, November 2013

#### Alternative Fuel Intenders Future Purchase Intent by New, Used, or CPO

#### Key points

## Those considering alternatively powered vehicles more interested in compact cars

Figure 81: Vehicle body style considered for purchase in the next three years, all versus those likely to buy an alternatively powered vehicle, November 2013

## Women more interested in compact crossovers

Figure 82: Vehicle body style considered for purchase in the next three years, by those likely to buy an alternatively powered vehicle, by gender, November 2013

## Millennials, Generation X, show stronger demand for SUVs and pickup trucks

Figure 83: Vehicle body style considered for purchase in the next three years, by those likely to buy an alternatively powered vehicle, by generations, November 2013

### HEV intenders with children more interested in SUVs and crossovers

Figure 84: Vehicle body style considered for purchase in the next three years, by those likely to buy an alternatively powered vehicle, by presence of children in household, November 2013

## Alternative Fuel Intenders Future Purchase Intent by New, Used, or CPO

## Key points

## Those considering alternative powered vehicles are far more likely to purchase their next car new

Figure 85: Alternative fuel intenders future purchase intent, by new, used, or CPO, November 2013

#### Men are far more likely to consider a new car at next purchase

Figure 86: Alternative fuel intenders future purchase intent, by new, used, or CPO, by gender, November 2013

## Millennials more certain of purchasing new vehicle

Figure 87: Alternative fuel intenders future purchase intent, by new, used, or CPO, by generations, November 2013

BUY THIS REPORT NOW VISIT: store.mintel.com

CALL: EMEA +44 (0) 20 7606 4533 | Brazil 0800 095 9094



Report Price: £2466.89 | \$3995.00 | €3133.71

The above prices are correct at the time of publication, but are subject to change due to currency fluctuations.

### Reasons for Not Wanting a Hybrid, Plug-in Hybrid, or Electric Vehicle

#### Key points

#### Top reasons for not buying a hybrid or plug-in electric include expense and refueling/recharging options

Figure 88: Reasons for not wanting an alternative fuel vehicle, by hybrid, plug-in hybrid and electric vehicle only, November 2013

### Women more likely to not have the option of plugging in vehicle

Figure 89: Reasons for not wanting an alternative fuel vehicle, by hybrid, plug-in hybrid and electric vehicle only, by gender, November 2013

## Baby Boomers more skeptical about the benefits of hybrid and plug-in electrics

Figure 90: Reasons for not wanting an alternative fuel vehicle, by hybrid, plug-in hybrid and electric vehicle only, by generations,

## Light drivers are more concerned with the cost of hybrids and plug-ins

Figure 91: Reasons for not wanting an alternative fuel vehicle, by hybrid, plug-in hybrid, and electric vehicle only, by mileage driven, November 2013

### Reasons for Wanting a Hybrid, Plug-in Hybrid, or All-Electric Vehicle

#### Key points

#### Saving money on fuel: top reason for buying

Figure 92: Reasons for wanting an alternative fuel vehicle, November 2013

#### Saving money on fuel more important to those earning less

Figure 93: Reasons for wanting an alternative fuel vehicle, by household income, November 2013

## Households with children far more interested in carpooling lane waiver

Figure 94: Reasons for wanting an alternative fuel vehicle, by presence of children in household, November 2013

## Top reasons for wanting a hybrid or plug-in electric among heavy drivers include wanting a carpooling lane waiver

Figure 95: Reasons for wanting an alternative fuel vehicle, by mileage driven, November 2013

#### Race and Hispanic Origin

## Key points

## Overall vehicle ownership, driving, and intent to buy

### Asians/Pacific Islanders show higher than average hybrid/alternative powered vehicle ownership

Figure 96: Vehicles owned by household, by vehicle body style, by race/Hispanic origin, November 2013

#### Blacks more likely to have purchased last vehicle used or certified preowned

Figure 97: Vehicle last purchased by new, used, or CPO, by race/Hispanic origin, November 2013

#### More heavy drivers among Blacks and Hispanics

Figure 98: Miles personally driven annually, by race/Hispanic origin, November 2013

## Hispanics significantly more likely to purchase another vehicle in the next three years

Figure 99: Intent of purchasing a vehicle in the next three years, by race/Hispanic origin, November 2013

## Hispanics and Blacks are more likely to make a purchase within the next year

Figure 100: Approximately when will the next vehicle be purchased, by race/Hispanic origin, November 2013

### Race/Hispanic origin and the HEV market

## More than half of Hispanics likely or very likely to consider purchasing a hybrid

Figure 101: Intent on purchasing an alternative fuel vehicle, by type, by race/Hispanic origin, November 2013

## Hispanics who are interested in alternative fuel vehicles also interested in crossovers and light-duty pickups

Figure 102: Alternative fuel intenders future purchase intent, by vehicle body style, by race/Hispanic origin, November 2013

**BUY THIS** REPORT NOW



Report Price: £2466.89 | \$3995.00 | €3133.71

The above prices are correct at the time of publication, but are subject to change due to currency fluctuations.

## Hispanics more likely to not have a place to charge up a plug-in electric

Figure 103: Reasons for not wanting an alternative fuel vehicle, by hybrid, plug-in hybrid, and electric vehicle only, by race/Hispanic origin, November 2013

### Whites and non-Hispanics more interested in saving money on fuel when considering a hybrid or plug-in

Figure 104: Reasons for wanting an alternative fuel vehicle, by hybrid, plug-in hybrid, and electric vehicle only, by race/Hispanic origin, November 2013

#### Appendix - Other Useful Consumer Tables

## Number of vehicles owned by household

- Figure 105: Number of vehicles owned by household, November 2013
- Figure 106: Number of vehicles owned by household, by mileage driven, November 2013
- Figure 107: Number of vehicles owned by household, by vehicle type planned to purchase, new, used, CPO, November 2013
- Figure 108: Number of vehicles owned by household, by smartphone and tablet ownership, November 2013

### Vehicles owned by household, by vehicle body style

Figure 109: Vehicles owned by household, by vehicle body style, by vehicle type planned to purchase, by new, used, CPO, November 2013

#### Miles personally driven annually

- Figure 110: Miles personally driven annually, November 2013
- Figure 111: Miles personally driven annually, by household income, November 2013
- Figure 112: Miles personally driven annually, by gender, November 2013
- Figure 113: Miles personally driven annually, by generations, November 2013

## Cost of most recently acquired vehicle

- Figure 114: Cost of most recently acquired vehicle, by generations, November 2013
- Figure 115: Cost of most recently acquired vehicle, by household income, November 2013
- Figure 116: Cost of most recently acquired vehicle, by race/Hispanic origin, November 2013
- Figure 117: Cost of most recently acquired vehicle, by mileage driven, November 2013
- Figure 118: Cost of most recently acquired vehicle, by vehicle type planned to purchase, new, used, CPO, November 2013

## Vehicle last purchased by new, used, or CPO

- Figure 119: Vehicle last purchased by new, used, or CPO, by region, November 2013
- Figure 120: Vehicle last purchased by new, used, or CPO, by smartphone and tablet ownership, November 2013

#### Vehicle usage/activity

- Figure 121: Vehicle usage/activity, November 2013
- Figure 122: Vehicle usage/activity, by generations, November 2013
- Figure 123: Vehicle usage/activity, by race/Hispanic origin, November 2013
- Figure 124: Vehicle usage/activity, by presence of children in household, November 2013
- Figure 125: Vehicle usage/activity, by mileage driven, November 2013

### Other travel methods, besides automobile

- Figure 126: Other travel methods, besides automobile, by frequency of use, November 2013
- Figure 127: Frequency of walking versus using an automobile, by gender, November 2013
- Figure 128: Frequency of using public transportation versus using an automobile, by race/Hispanic origin, November 2013
- Figure 129: Frequency of public transportation versus using an automobile, by generations, November 2013

## When next vehicle will be purchased

Figure 130: When the next vehicle will be purchased, by gender, November 2013

BUY THIS REPORT NOW VISIT: store.mintel.com

CALL: EMEA +44 (0) 20 7606 4533 | Brazil 0800 095 9094



Report Price: £2466.89 | \$3995.00 | €3133.71

The above prices are correct at the time of publication, but are subject to change due to currency fluctuations.

Figure 131: When the next vehicle will be purchased, by mileage driven, November 2013

Figure 132: When the next vehicle will be purchased, by vehicle type planned to purchase, new used, CPO, November 2013

Figure 133: When the next vehicle will be purchased, by smartphone and tablet ownership, November 2013

#### Reasons for not wanting an alternative fuel vehicle

Figure 134: Reasons for not wanting an alternative fuel vehicle, by household income, November 2013

Figure 135: Reasons for not wanting an alternative fuel vehicle, by presence of children in household, November 2013

Figure 136: Reasons for wanting an alternative fuel vehicle, by smartphone and tablet ownership, November 2013

## Reasons for wanting an alternative fuel vehicle

Figure 137: Reasons for wanting an alternative fuel vehicle, by car ownership, November 2013

#### Appendix - Social Media

#### Brand usage or awareness

Figure 138: Brand usage or awareness, November 2013

Figure 139: Tesla (ie tesla model S) usage or awareness, by demographics, November 2013

Figure 140: Toyota Prius (ie Prius, Prius c, Prius v) usage or awareness, by demographics, November 2013

Figure 141: Toyota Prius (ie Prius, Prius c, Prius v) usage or awareness, by demographics, November 2013

#### Activities done

Figure 142: Activities done, November 2013

Figure 143: Tesla – activities done – I have looked up/talked about this brand online on social media, by demographics, November

Figure 144: Tesla – activities done – I follow/like the brand on social media because, by demographics, November°2013

Figure 145: Tesla – activities done – I have researched the brand on social media to, by demographics, November 2013

Figure 146: Toyota Prius – activities done – I have looked up/talked about this brand online on social media, by demographics,

November 2013 Figure 147: Toy

Toyota Prius – activities done – I have contacted/interacted with the brand online on social media to, by demographics,

Figure 148: Toyota Prius – activities done – I follow/like the brand on social media because, by demographics, November 2013

Figure 149: Toyota Prius – activities done – I have researched the brand on social media to, by demographics, November 2013

Figure 150: Ford C-Max – activities done – I have looked up/talked about this brand online on social media, by demographics,

Figure 151: Ford C-Max – activities done – I follow/like the brand on social media because, by demographics, November 2013

Figure 152: Ford C-Max – activities done – I have researched the brand on social media to, by demographics, November 2013

Figure 153: Nissan LEAF - activities done - I have looked up/talked about this brand online on social media, by demographics,

Figure 154: Nissan LEAF – activities done – I have contacted/interacted with the brand online on social media to, by demographics,

Figure 155: Nissan LEAF – activities done – I follow/like the brand on social media because, by demographics, November 2013

Figure 156: Nissan LEAF – activities done – I have researched the brand on social media to, by demographics, November 2013

Figure 157: Chevrolet Volt – activities done – I have looked up/talked about this brand online on social media, by demographics,

November 2013

Figure 158: Chevrolet Volt – activities done – I have contacted/interacted with the brand online on social media to, by demographics,

Figure 159: Chevrolet Volt – activities done – I have researched the brand on social media to, by demographics, November 2013

Figure 160: Volkswagen Jetta TDI – activities done – I have looked up/talked about this brand online on social media, by demographics, November 2013

Figure 161: Volkswagen Jetta TDI – activities done – I have contacted/interacted with the brand online on social media to, by

demographics, November 2013
Figure 162: Volkswagen Jetta TDI – activities done – I follow/like the brand on social media because, by demographics, November

2013
Figure 163: Volkswagen Jetta TDI – activities done – I have researched the brand on social media to, by demographics, November 2013

Appendix - Trade Associations

