

EV Consumer Study

EIA Energy Conference Washington, DC

June 27, 2017





DEALER.COM

About Cox Automotive

Cox Automotive is a leading provider of products and services that span the automotive ecosystem worldwide.

Our goal is to simplify the trusted exchange of vehicles and maximize value for dealers, manufacturers and car shoppers.

We've built the industry's strongest family of more than 25 brands to provide industry-leading digital marketing, software, financial, wholesale and e-commerce solutions to help our clients thrive in a rapidly changing automotive marketplace.

Our Vision

Transform the way the world buys, sells and owns cars.

33,000+ team members

40,000+ clients MOST BRANDS

Autotrader & Kelley Blue Book

73% BUYERS

use Autotrader or KBB.com

About Cox Automotive

Our client-obsessed culture breeds passionate, proactive people who ensure each client gets the right solution.

As a subsidiary of 116-year-old Cox Enterprises Inc., one of the world's largest privately owned communications, media and automotive services companies, innovation and leadership is in our DNA.

Our focus on building a better future for our clients, consumers and the industry is ingrained in everything we do, from responsible services and solutions development, to team member care and giving back to the communities where we live, work and play.

\$50B+

vehicle values sold annually through Manheim

45M+

financed titles managed by Dealertrack

\$4.2B+ IN LOANS TO 23,000+ DEALERS

NextGear Capital





























VinSolutions









































Dealer-Auction.com



Survey Methodology



Survey Field Dates: 9/16/2016 – 9/30/2016

Goals:

- Understand the current value proposition of EVs
- Learn how to market EVs to multiple consumers: EV owners, EV considerers, and non-EV considerers
- Recognize the gap from consumers' expectations and current EV realities
- Learn what brands and models are successful in marketing EVs

Sampling Information:

- Mobile Survey: fielded to individuals visiting the KBB.com mobile websites
- Total of 6499 Respondents
- Sample representative of a geographically spread of the U.S.
- Other sources of information: U.S. Department of Energy, Vehicle Technology Office.
- Sources are listed in the slide footers



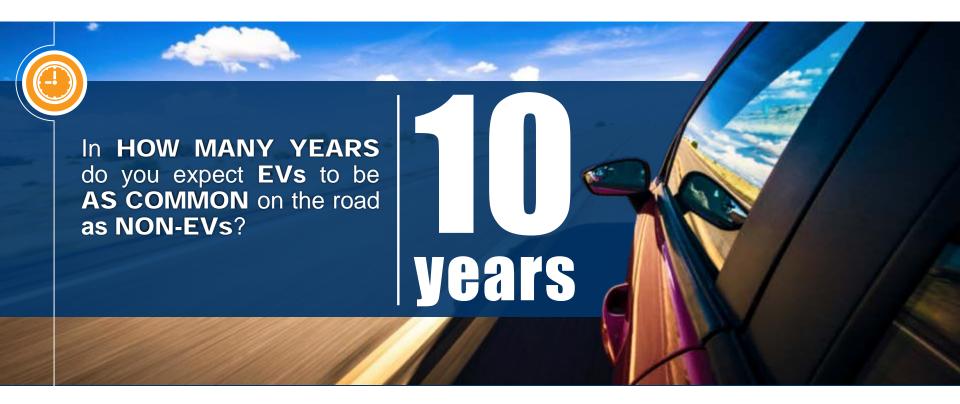








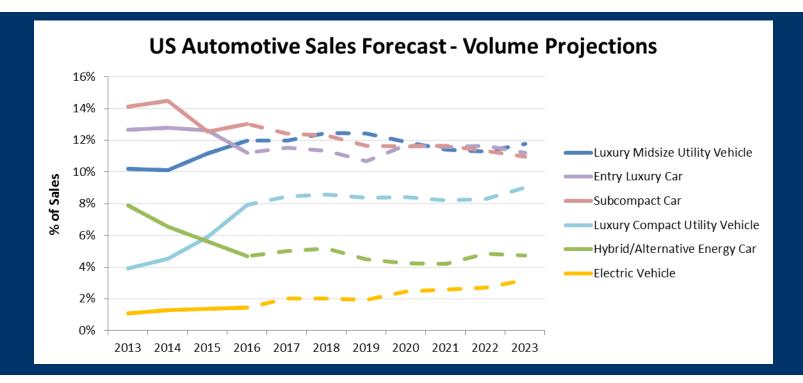
Consumers feel the road to mass EV ownership is long





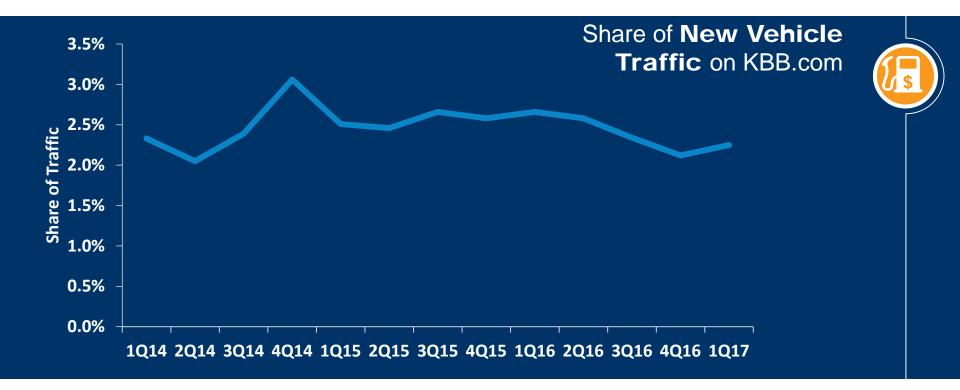
There's little indication consumer demand will increase even as new products emerge





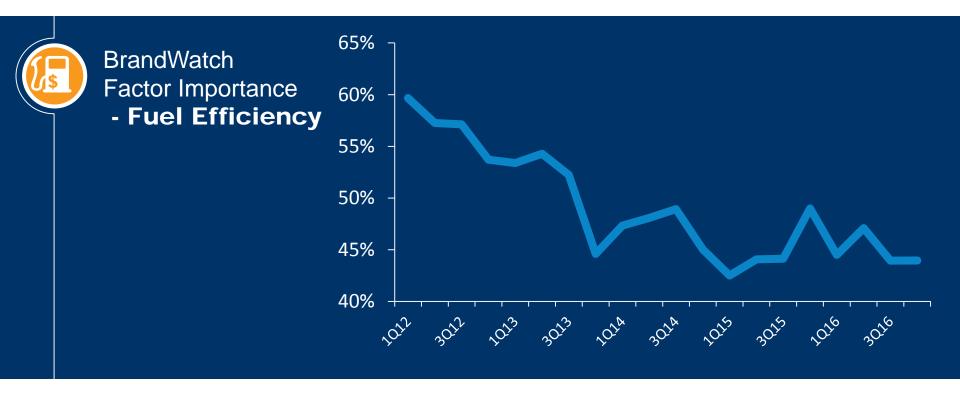


After declining through 2016, EV traffic increased slightly due to interest in Chevrolet Bolt



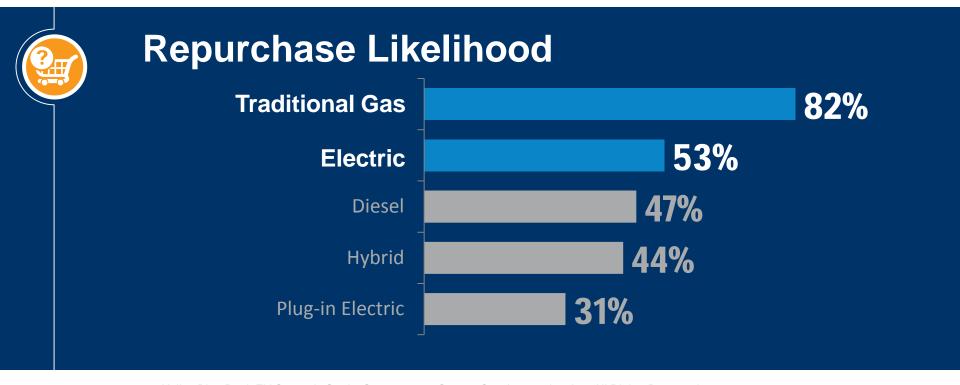


Fuel efficiency has declined in importance to consumers





More than half of current EV owners would buy again, but is that enough?



Q: Which of the following are you most likely to purchase/lease for your next vehicle? (Please select one response only) N = 5402



Q: Do you currently own any of the following types of vehicles? (Please select all that apply) N = 6499









It's less about the environment and more about the economics



Owners' & Considerers' PRIMARY REASON to purchase EVs MONEY on fuel costs



Q: Which of these is the primary reason you feel people purchase electric vehicles? N = 2165



Q: Which of the following types of vehicles would you consider? (Select all that apply) N = 2165

Q: Do you currently own any of the following types of vehicles? (Select all that apply) N = 2165

After that, owners are driven by practical factors

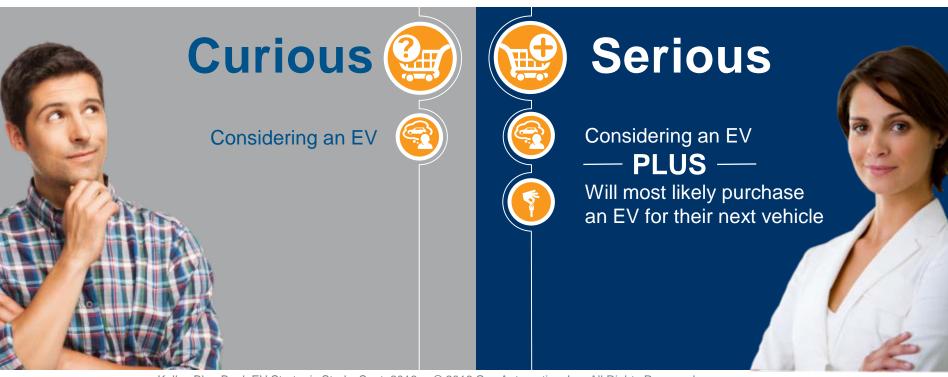




Q: Which of these is the primary reason you feel people purchase electric vehicles? N = 2165

Q: Do you currently own any of the following types of vehicles? (Select all that apply) N = 2165

Consideration split into Curious vs. Serious





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- Q: Which of these is the primary reason you feel people purchase electric vehicles? N = 2165
- Q: Which of the following types of vehicles would you consider? (Select all that apply) N = 2165
- Q: Which of the following are you most likely to purchase/lease for your next vehicle? N = 1713

Serious considerers think more practically, like an owner





- Q: Which of these is the primary reason you feel people purchase electric vehicles? N = 2165
- Q: Which of these questions do you think would be top of mind for someone shopping for an electric vehicle? (Select 2) N = 2165
- Q: Which of the following types of vehicles would you consider? (Select all that apply) N = 2165
- Q: Which of the following are you most likely to purchase/lease for your next vehicle? N = 1713

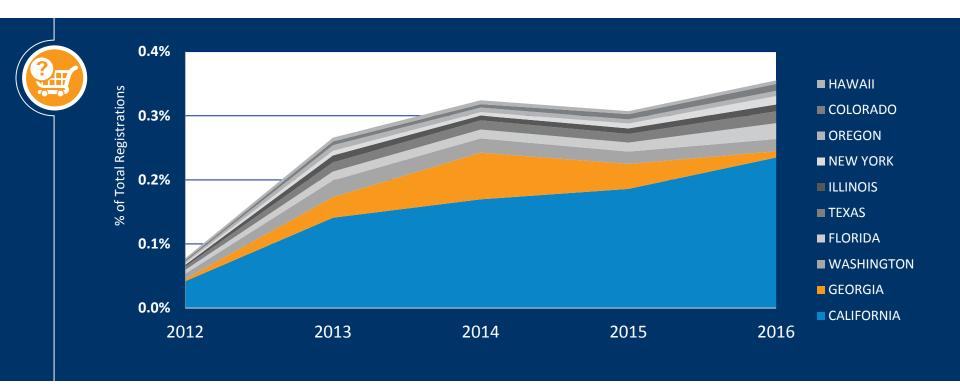
Mass market pricing could put EVs on more shoppers' radars

What it would take for non-EV considerers to think about purchasing EVs?





EV purchases dropped after Georgia's \$5K Zero Emission Vehicle Tax Credit ended in 2015

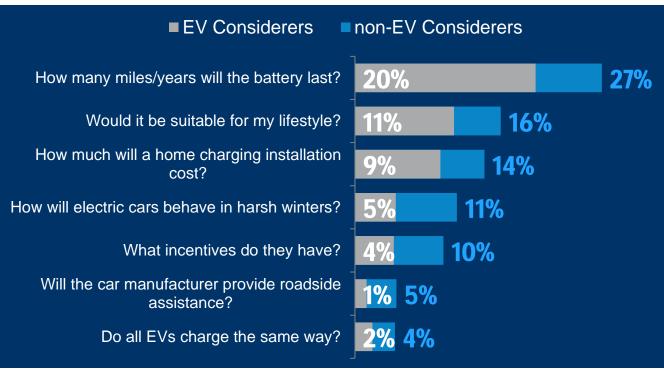




There are many concerns that keep people from considering EVs



Non-Considerers care more about these issues than Considerers





Q: Which of these questions do you think would be top of mind for someone shopping for an electric vehicle? (Select 2) N = 2165 Q: Which of the following types of vehicles would you consider? (Select all that apply) N = 2165

EV considerers are concerned about obsolescence, so are more likely to lease



EV Considerers' Biggest Drivers To Lease



Outdated Technology



Long-Term Battery Reliability



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- Q: Are you more likely to buy or lease an Electric Vehicle? N = 293
- Q: Why are you more likely to lease (vs buy)? N = 53
- Q: Which of the following types of vehicles would you consider? (Select all that apply) N = 2165



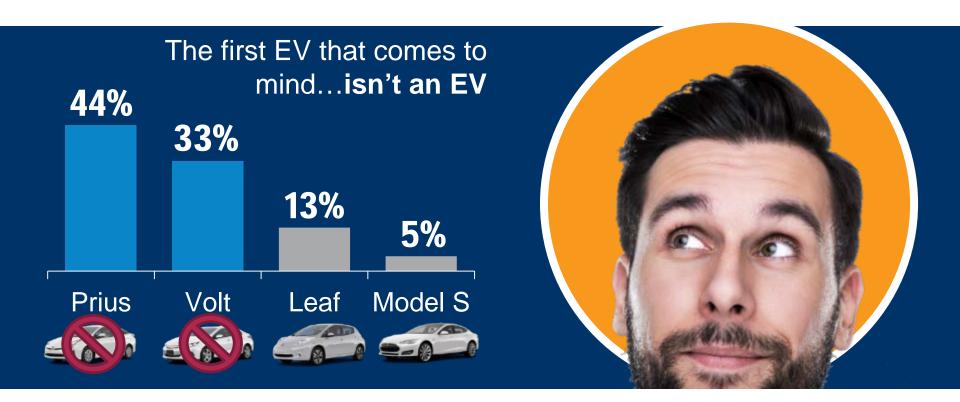








Consumers have trouble distinguishing hybrids from EVs 22





So it comes to no surprise that they aren't familiar with which brands have EVs in their product line-up





Current range doesn't meet the average consumer's expectations, even for EV shoppers

Consumers are willing to spend an additional \$5K for an increased range from 150 to 200 miles





107 mi



215 mi



238 mi

ACCEPTABLE

minimum driving range



245-250 mi



300 mi

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Q: Virtied to the following types of Verifices would you consider: (Gelect all that apply) N = 2103, Q: Do you contently own any of the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and the following types of Verifices: (Gelect all N = 2103 questions) and (Gelect all N = 2103 questions) and (Gelect all N = 2103 questions) and (Gelect all N = 2103 q



Q: For an EV, what is the minimum driving range that is acceptable between battery charges? (Please indicate the number of miles per full charge) (Free response) N = 2165 (Median reported) Q: Which of the following types of vehicles would you consider? (Select all that apply) N = 2165, Q: Do you currently own any of the following types of vehicles? (Select all) N = 2165

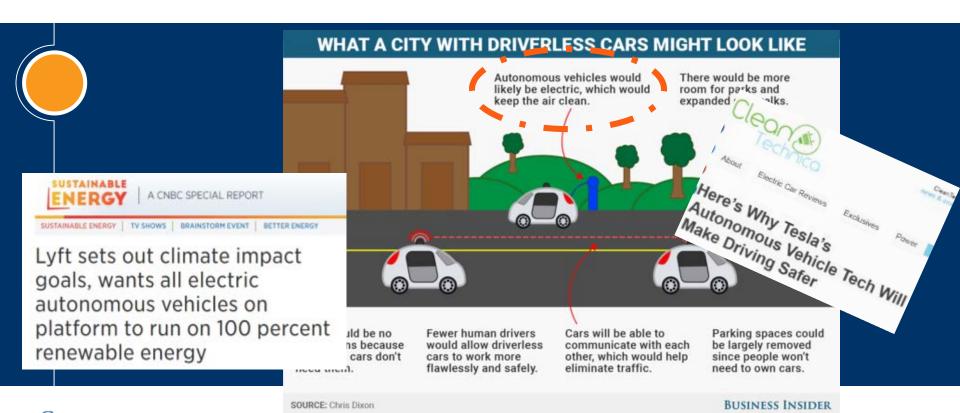






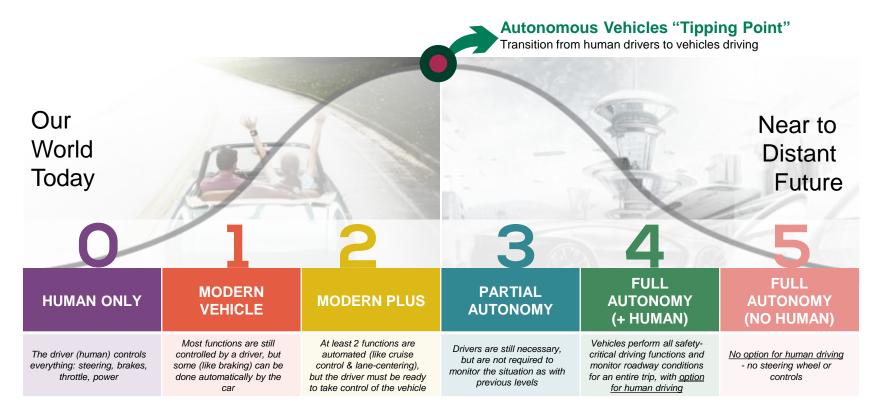


Changing trends in mobility may change consumer perceptions of EVs



Levels of Autonomy

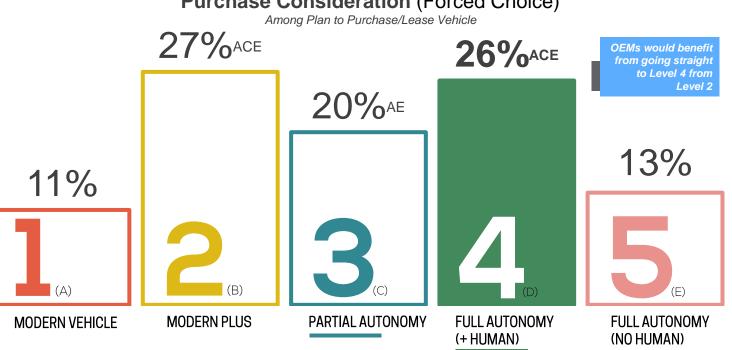




Americans want to buy Level 4 Full Autonomy (+ Human) as much as vehicles available today

BLUE BOCK

Purchase Consideration (Forced Choice)



J FVFI 4

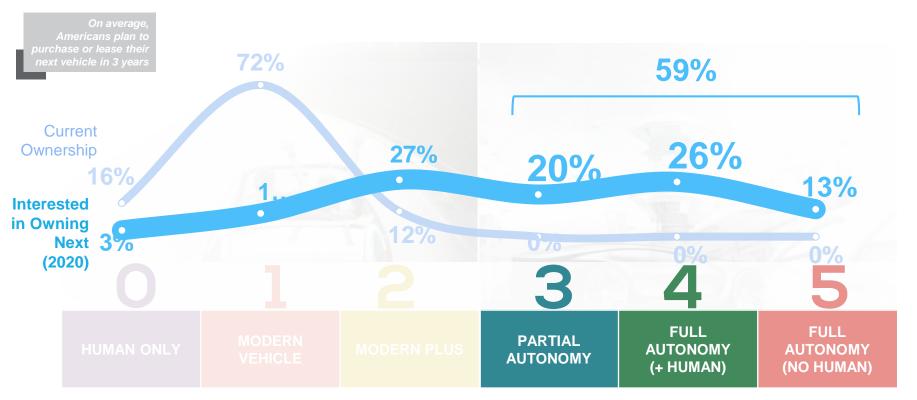
is the most appealing to me because it allows the vehicle to take over all driving tasks for the human, while still allowing the human to have 'executive control' in case of emergencies, system errors, or other unforeseen circumstances.



Please Note: Capital letters indicate statistical differences at the 95% confidence level: A-E Base: Plan to Purchase/Lease Vehicle at Some Point (n=1695)

By 2020, assuming all levels of autonomy are available, 59% of consumers would be interested in purchasing/leasing higher levels of autonomy





Base: Currently Own/Lease (n=1550); Planning to Purchase in the Future (n=1234) S16. When are you planning to purchase or lease your next vehicle? (n=1770)

Key Takeaways



Disconnect between regulator/government pressure to advance EVs and consumer demand will continue

Slow change in perceptions and low fuel prices remain the challenge

More concerted education effort is needed

 Consumers are hoping for better pricing, but missing many advantages of EVs

Autonomous/self-driving vehicles could change all this

• If most AVs are EVs, consumers could become amenable to EVs





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