2024 Cox Automotive Path to EV Adoption Study – SUMMARY

May 2024

"The Skeptics are Coming"

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EV Skeptics – The Next Wave – Are Likely To Begin the Switch in the Next 3-5 Years



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Nearly half of all vehicle shoppers are not considering an EV... that will change

Intenders: Plan to purchase a new or used vehicle within the next 24 months. (100% of market)
Considerers: Considering the purchase of an EV within the next 24 months. (55%)
Skeptics: NOT considering an EV purchase within the next 24 months – ICE-only shoppers. (45%)

2024 Profile	Intenders	Considerers (B)	Skeptics (C)	2024 Profile	Intenders	Considerers (B)	Skeptics (C)
Income Under \$50K	47%	43%1	53% ^B ↑	Male	55%	60% ^C ↑	50%1
Income \$50K - \$99K	34%	36% ^C	32%	Female	45%₽	40%₹	50% ^B ₹
Income \$100K+	19%	21% ^C ₹	15%₽	Average Age	44	421	46 ^B ↓
Average Income	\$66,900₽	\$71,756 ^C ↓	\$60,625₽	Gen Z	13%	15%1	12%
Excellent Credit	23%	22%₹	24%₹	Millennial	34%	36% ^C	31%
Very good/Good Credit	48%	55% ^C	40%	Gen X	34%	36% ^C	32%
Fair Credit	17%	14%1	20% ^B ↑	Baby Boomer	18%	13%₹	24% ^B ↓
Poor Credit	12%	9% ^A 1	16% ^B	White/Caucasian	73%₽	69%₹	77% ^B ↓
Have Children	43%	47% ^C	37%	African American or Black	22%	24% ^C ↑	20%
				Hispanic	17%	19% ^C 1	15%1
				Asian	4%₽	4%₹	3%
				Native American	3%	3%	4%
ottore indicate significant difference between are	ups at the Q5% confider	nco intorval		Other	3%	4%	3%

Letters indicate significant difference between groups at the 95% confidence interval. Arrows indicate significant difference between years at the 95% confidence interval.



A majority of EV Skeptics feel the time to switch is in 3-5 years

80% of Skeptics will shift to Considerers within 10 Years

SKEPTICS



*Question added in 2024 EV Skeptics: Consumers who are considering a vehicle, but not an EV within 2 years

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Top Reason to Wait: EV Technology Needs to Improve

"To work the bugs out, to increase the battery longevity & longer travel miles before having to charge again, to guarantee they'll work in both HOT & COLD climates & NOT lose their battery power (which is what's happening now), just too many IF's & uncertainties now to go full electric." (EV Skeptic, 3-5 years out)

"They need to **work on the technology**, the **recycling issues around the batteries**, and other things such as **driving range** and **size of vehicles**." (EV Skeptic, 3-5 years out)



Cost and charging-related concerns remain common barriers

Skeptics are more likely to see infrastructure issues as a barrier

Rank	Considerers	Skeptics (3-5 years out)		
1	Too expensive	Lack of charging stations		
2	Lack of charging stations	Too expensive		
3 (tie)	Cost of battery replacement	Inability to charge EV at home		
3 (tie)	Length of time to charge	Concern about battery losing charge		
5	Concern about battery losing charge	Cost of battery replacement		
6	Inability to charge EV at home	Length of time to charge		



Considerers and Skeptics alike can be swayed by tech enhancements, more education, and better pricing.

Motivator	Considerers	Skeptics
Technology improvement, including faster charging, longer range, and better battery health	77%	65%
Education, including understanding cost of owning and charging, performance capabilities	56%	48%
Price Reduction	38%	36%

Could be persuaded

Drivers of higher consideration – price parity, education and increased awareness

Would Consider Purchasing an EV if Same Price as ICE Alternative

(Definitely/Probably Consider)



Federal Battery Regulations Among Considerers Guarantees that EV and hybrid batteries will

last for at least 8 years or 100,000 miles

Awareness and Impact of EV

More exposure to EVs opens the door to higher consideration



Arrows indicate significant difference between years at the 95% confidence interval. *KBB average transaction price data comparing January 2022 to January 2024

\$5.000

2024



\$17,500

2022

Nearly all shoppers could be enticed to purchase an EV sooner

Current EV Consideration Timeline



EV consideration expected to surge in second half of decade

Second Wave, as Skeptics become Considerers | Current & Forecast





Arrows indicate significant difference between years at the 95% confidence interval.

2 EV Consideration Dips, Even as EV Demographics Shift to Become More Mainstream

EV consideration growth has slowed in the short term...

Intending to Purchase New or Used EV Within 12 Months

EV Consideration 51% 45% 38% 2021 2022 2024





Arrows indicate significant difference between years at the 95% confidence interval.

The EV market is casting a wider net with more Gen Z, multicultural, and lower income shoppers

EV Considerer & Buyer Profile (New and Used)

	EV Considerers		EV Buyer*	
	2021	2024	2023	
Average Age:	40	42 🕇	41	
Gen Z (Age 18-28):	12%	15% 🕇	13%	
Male:	55%	60% 🕇	64%	
Average HH Income:	\$87K	\$72K ↓	\$139K	
Excellent/Very Good Credit:	66%	53% 🖊	84%	
Multicultural:	36%	47% 🕇	38%	
Single/Never Married:	29%	40% 🕇	12%	
Married/Living with Partner:	63%	47% 🖊	84%	
Luxury Vehicle Owner:	27%	16% 🖊	74%	
Consider Used EV:	62%	77% 🕇	39%	

Arrows indicate significant difference vs. 2021 at the 95% confidence interval.

*Source: Cox Automotive Car Buyer Journey - 2023

Gen Z and Millennials are less likely to cite too expensive as a barrier (compared to older generations)

Multicultural consumers are less likely to cite lack of charging stations and concern about battery holding charge as barriers.

Consideration increased in the Midwest and West but declined slightly in the Northeast and South. (2021 vs 2024)

Consideration remains highest in the West.

New EV consideration grows, particularly among mainstream brands; Tesla still leads by a wide margin





Dealers and Automakers are Fostering a More Balanced, Strategic Relationship to Accelerate EV Adoption

The strategic partnership is more balanced, with more automaker involvement since 2019

OEM Involvement in Strategic Decisions About Dealership





Arrows indicate significant difference between years at the 95% confidence interval.



OEM-mandated EV investment is substantial

Top Barriers to Selling More EVs | Among Franchised Dealers



*Option added in 2024 () = 2019 Arrows indicate significant difference vs. 2019 at the 95% confidence interval. Despite Feeling Pressure, Most Dealers are All-In with Automaker-Mandated Investments

Level of Pressure From Automakers to Hit EV Sales Targets (%High/Some Pressure) Luxury dealers more likely to

feel high pressure.

(2019: 39%)

Likelihood to Continue Automakers' Required Investments* (%Likely/Somewhat Likely)

Higher among dealers who receive EV support from their OEM.

Average Mandated EV Investment \$258K



Most dealers gained marketing and sales support from OEMs

Higher Incentives, Educational Materials, Advertising | Among Franchise Dealers



Helpfulness of Marketing/ Sales Support Extremely/Very Helpful 27% Somewhat Helpful 51% Not Helpful 21%



Beyond EV service training, automakers have the opportunity to provide more support including service cost comparisons, more equipment



*Option added in 2024.

Key takeaways

The Switch is Coming: Many EV Skeptics will Become Considerers in the Next 3-5 Years

- In today's market, roughly half of shoppers don't even consider an EV. That will change in the coming years, as Skeptics become Considerers.
- Skeptics are likely to convert in the 2026 to 2028 timeframe, thanks to technology improvements – better range, longer battery life, improved reliability, and more infrastructure.
- Despite a slowdown in EV consideration growth, many brands have improved substantially in awareness and consideration.
- Higher consideration can be driven by leveraging higher incentives, more education and awareness.

Consideration Dips, even as EV Demographics Shift and Become More Mainstream

- The EV market is casting a wider net, catching younger, less affluent, multicultural shoppers.
- Used EVs are being considered more often compared to 2021, as the used-EV market expands.
- Mainstream brands are enjoying higher consideration. Tesla remains the market leader, but Ford, Toyota, Hyundai and Kia are gaining.

Dealers and Automakers Are Fostering a More Balanced, Strategic Relationship to Accelerate EV Adoption

- Most dealers believe key steps in the EV purchase journey should be shared with automakers, while they take the lead on lower-funnel type of activities.
- Dealers have gained marketing/sales and service support since 2019, as partnerships grow. However, dealers need more support beyond training and different resources for service.
- A vast majority of dealers will continue investing in EV infrastructure – and in automakermandated requirements.

Background and methodology

The 2024 Cox Automotive Path to EV Adoption Study tracks EV consideration/consumer sentiments, dives deep into ways to influence EV purchase decisions, and monitors the synergy of dealers and OEMs in preparing for the EV future. The most recent survey work was undertaken in January 2024



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