

4th edition

eReadiness 2023

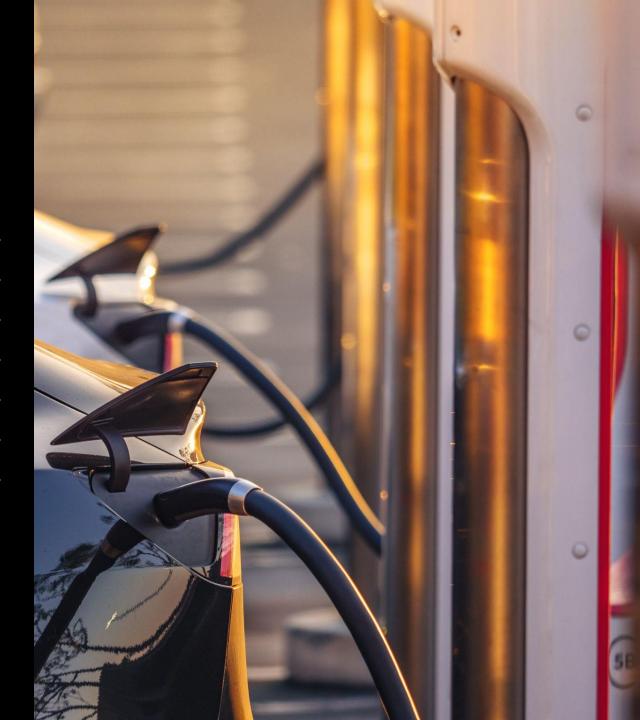
Survey Report

Customer needs and recommended actions for e-mobility players



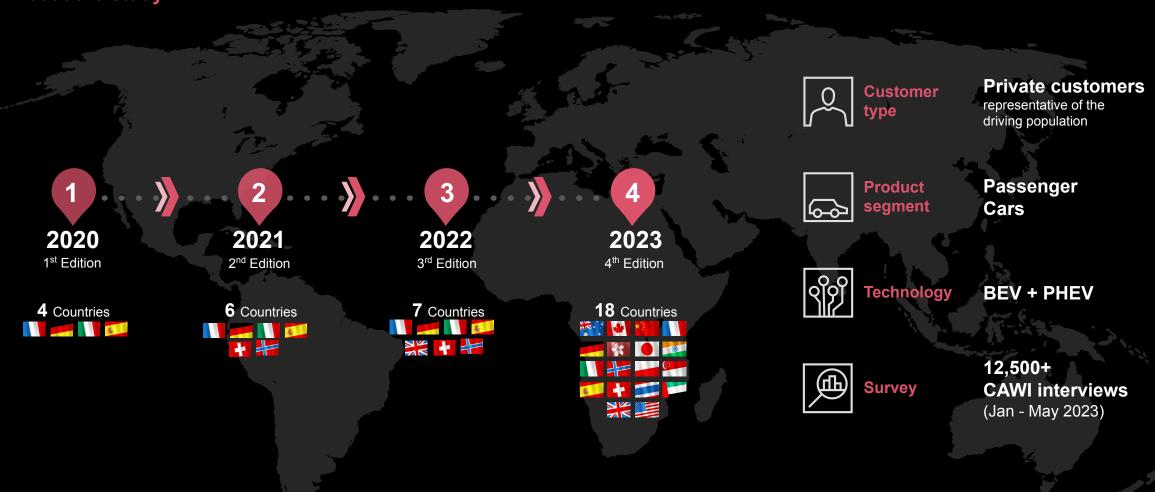
Agenda

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The 4th edition of the study provides updated perspectives on the short-term development of the e-mobility business in 18 markets

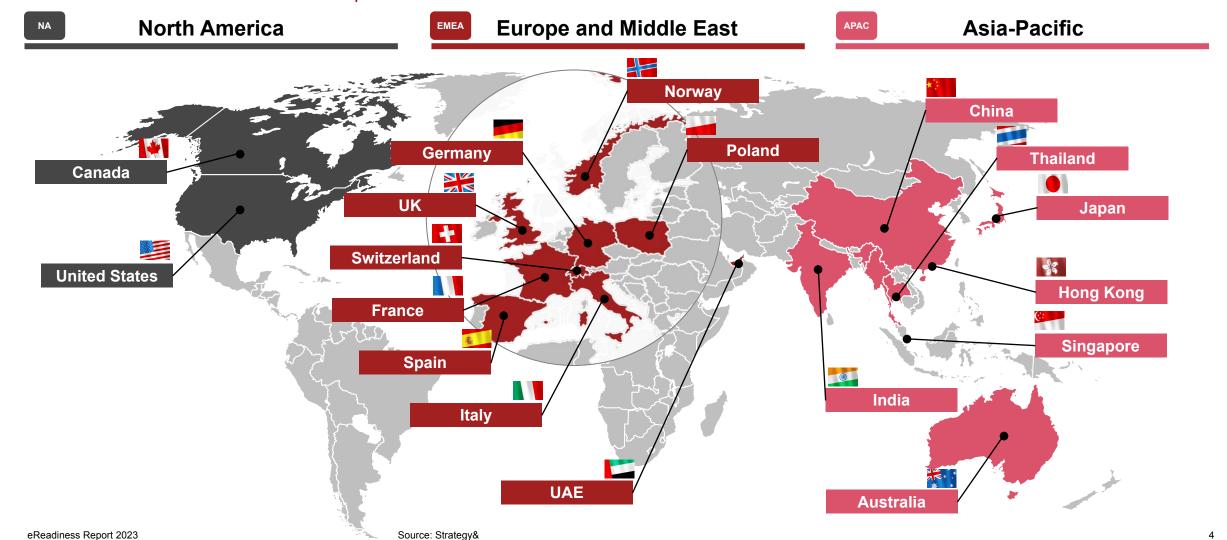
About the study



eReadiness Report 2023

This year edition covers 18 countries across the globe, grouped into three regions

eReadiness 2023 - Countries in scope





Key insights from the consumer research sample

Consumers demand

- Consumers show a strong interest in e-mobility, with c. 30% of those surveyed disclosing an intention to buy an EV in the next 2 years
- EV Owners (6% of the respondents) are mainly high-income, middle-aged males living in city centres with access to private parking spaces
- •EV Prospects (61% of the respondents) have ~20% less income than EV Owners. Of the 6 personas identified, Tech Enthusiasts, Dreamers and Pragmatic are the 3 determined to have the greatest intention of buying an EV and represent c. 70% of the demand in the next 2 years, suggesting that the EV market is shifting towards a mass market
- Sceptics (31% of the respondents) are predominantly women with a lower available income and c. 6 years older than EV Prospects
- Online vehicle sales represent 20% of EV sales, mainly for premium vehicles, with 65% of consumers considering purchasing their next vehicle online, this is driven primarily by convenience and price transparency
- Used EV interest is significant, with 60% of EV owners declaring an interest in purchasing a used car due to the lower costs and immediate availability. However, uncertainty surrounding battery state of health (SoH) remains a key barrier

eReadiness Index

- In Europe, Norway, Switzerland and Germany are the most e-ready countries, driven by a mature charging infrastructure and a high consumer demand. Italy and Spain lag behind despite generous government incentives
- In APAC, Hong Kong, China and Singapore are the most e-ready countries with high customer demand and, especially in Hong Kong and China, a well established charging infrastructure
- Australia appears to be the least eReady country across the entire panel

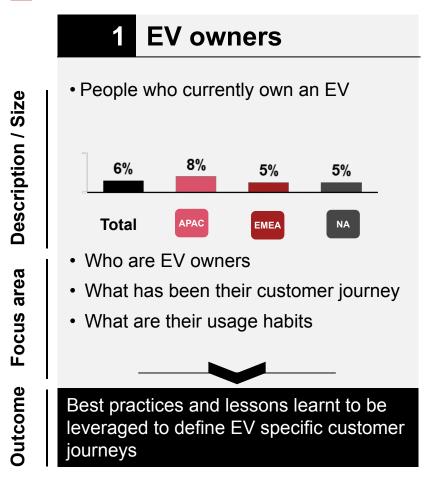
eReadiness Report 2023 Source: Strategy&

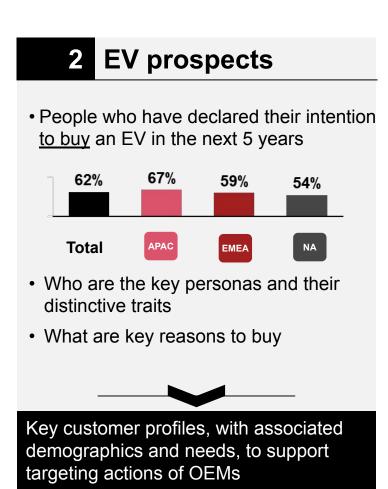


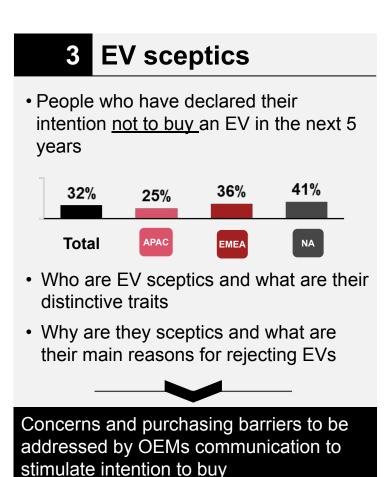
Consumers have been grouped into 3 main clusters within 3 regions: EV owners, EV prospects and EV sceptics

Consumer survey – Clusters and investigation areas

12,816 respondents





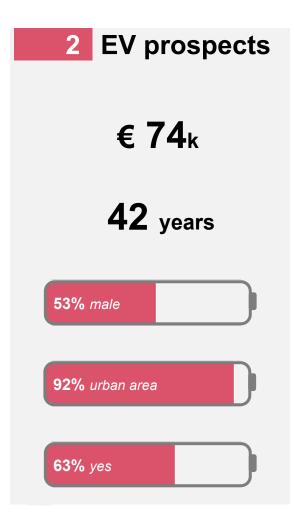


Overall, EV owners are younger, wealthier and with greater access to private parking spaces compared to prospects and sceptics

Consumer survey – Cluster profiles



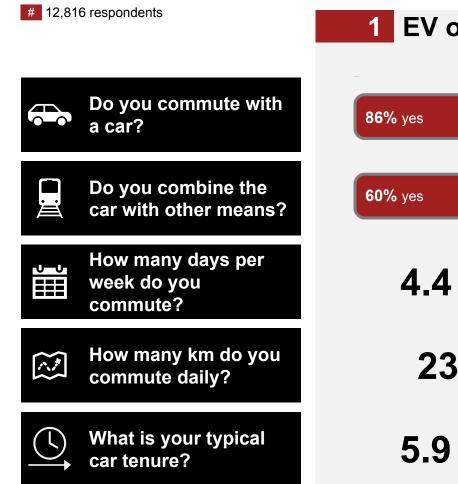






Current EV owners tend to use their car more often for commuting, and are more likely to combine it with other means of transportation

Consumer survey – Cluster profiles





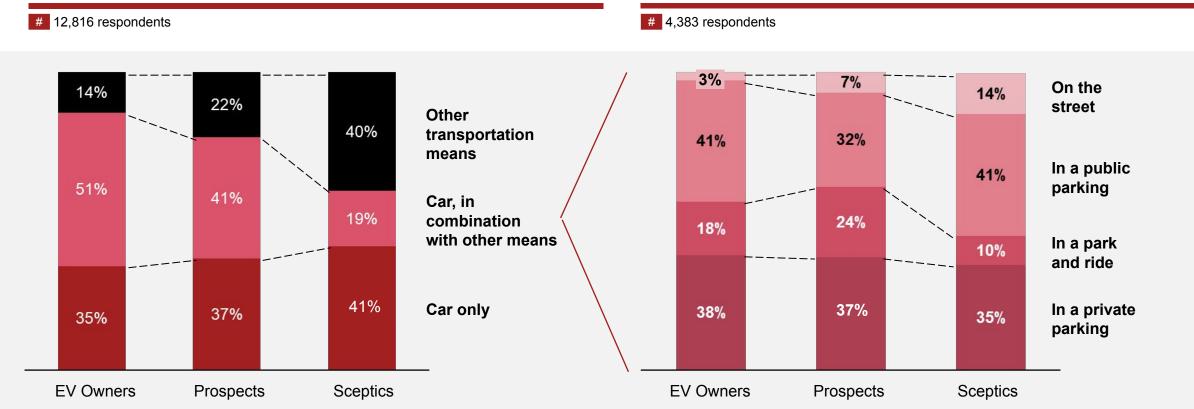


EV owners commute primarily with their car and adopt more multi-modal solutions compared to sceptics

Mobility needs – Commuting

Which of the following means do you use to commute?

Where do you typically park your car when you switch means?

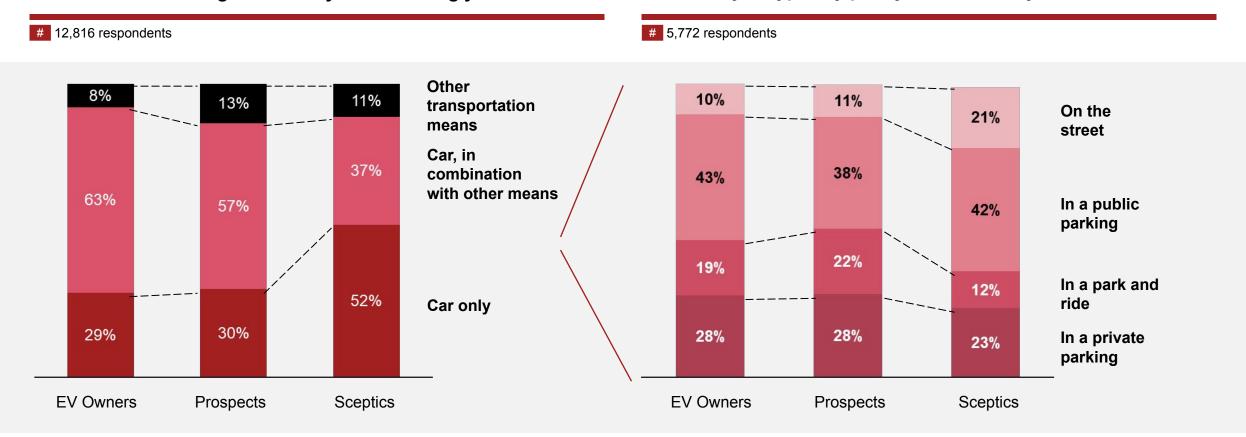


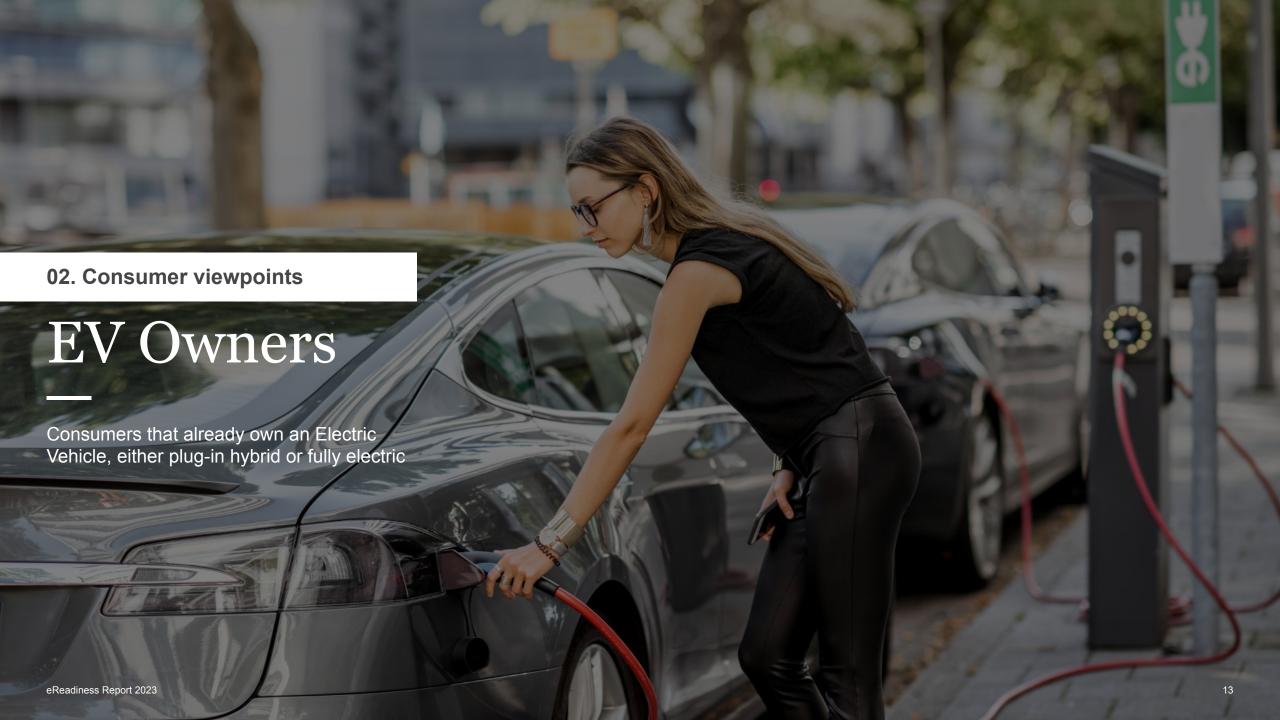
Multimodality gains an even more important role across all clusters during the free time

Mobility needs – Free time

Which of the following means do you use during your free time?

Where do you typically park your car when you switch means?





EV owners show substantial differences across the globe, highlighting a different maturity in the EV adoption

EV owners – Regional differences

778 respondents

			APAC	EMEA	North America	Global
•••	What is your annual gross income?	Thousand €	100	72	120	91
≣ 1	What is your age?	Years	43	44	37	43
	What is your gender?	% male	48%	52%	60%	51%
	Where do you live?	% in city center	99%	86%	97%	94%
P	Do you have a private parking spot at home?	% yes	64%	76%	81%	68%

EV owners show substantial differences across the globe, highlighting a different maturity in the EV adoption

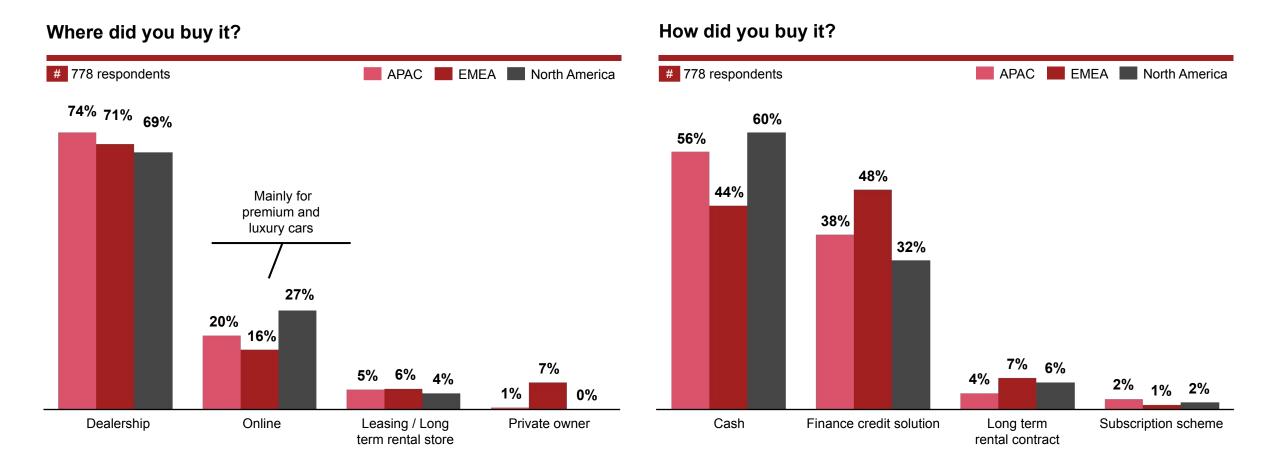
EV owners – Regional differences

778 respondents

			APAC	EMEA	North America	Global
	Do you commute with a car?	% yes	91%	79%	88%	86%
	Do you combine the car with other means?	% yes	67%	49%	62%	60%
<u></u>	How many days per week do you commute?	Average days per week	4.8	3.9	4.2	4.4
\approx	How many km do you commute daily?	Km	21	26	21	23
	What is your typical car tenure?	Years	6.0	6.0	5.2	5.9

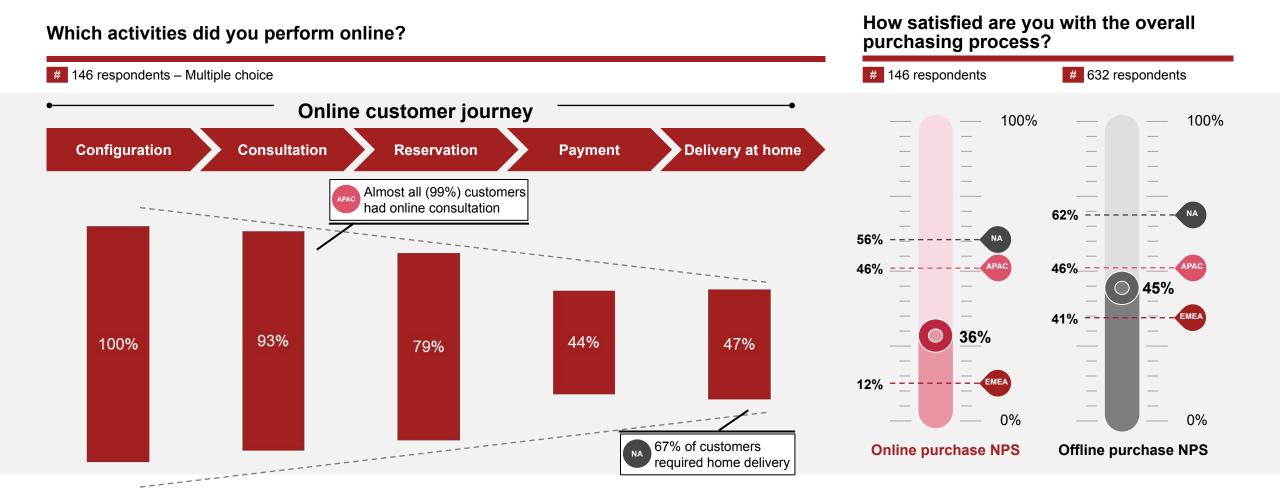
A dealership is the main purchase channel for EVs, with online gaining traction for premium players, particularly in North America

Purchase method



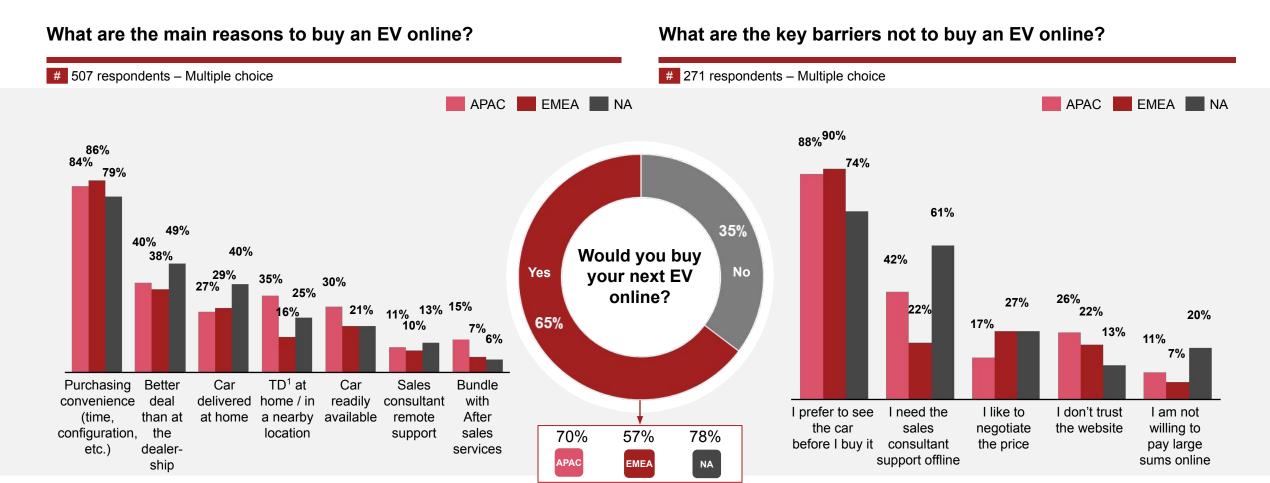
Online buyers show lower satisfaction than offline ones - except in the APAC region - with online payment representing a key barrier to an end-to-end journey

Online customer journey



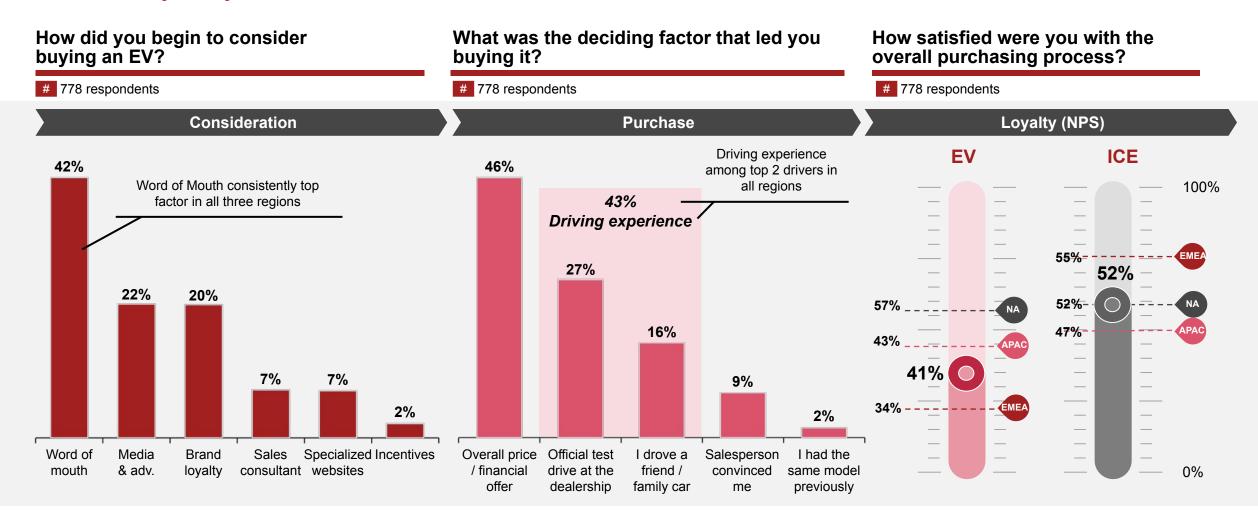
65% of current EV owners, would buy their next car online, driven by convenience, price and a readily available vehicle

Online purchase intention



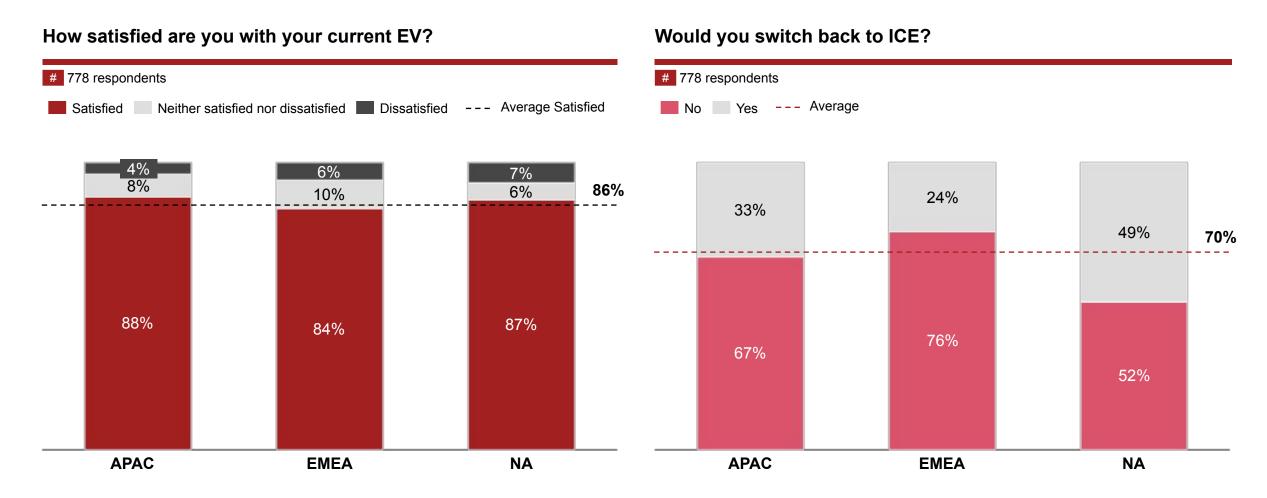
Word of mouth is the key trigger for EV consideration – the financial offer and driving experience are the fundamental factors for purchase

EV customer journey



EV owners are mostly satisfied, even if almost half of North American customers would be willing to consider switching back to ICE

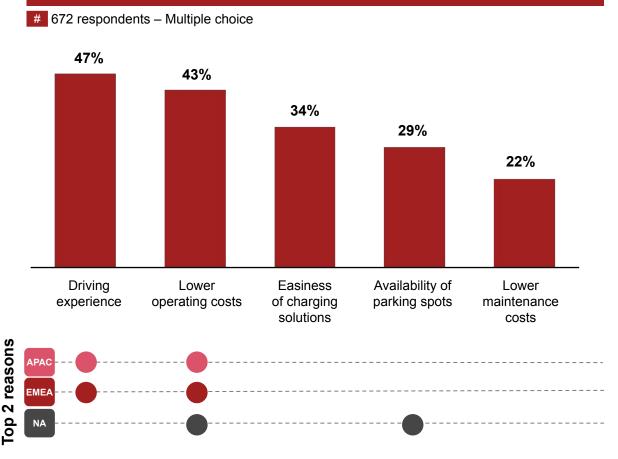
Customer satisfaction – Focus on product



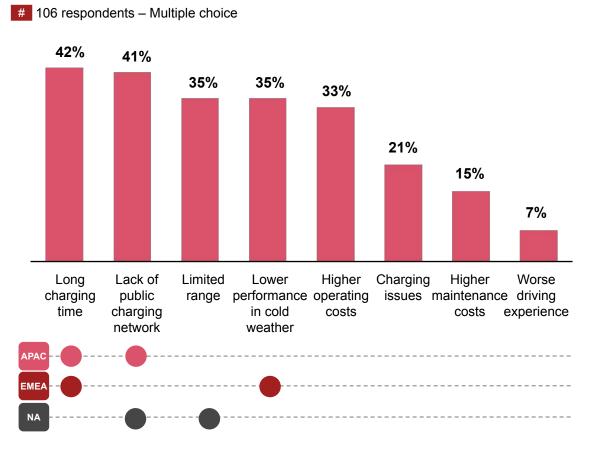
Driving experience and lower operating costs are the main drivers of EV owners satisfaction, with charging still being an issue

Customer satisfaction – Focus on product

What are the main drivers of your satisfaction?

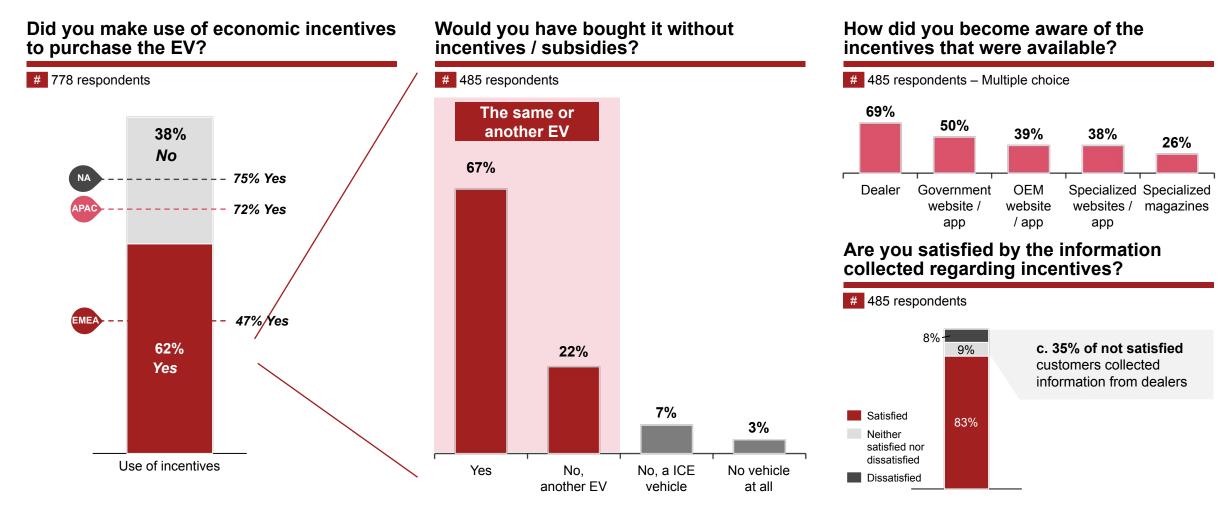


What are the main issues you are facing with your EV?



Majority of EV owners purchased their car by leveraging public incentives, yet 89% would have bought an EV regardless

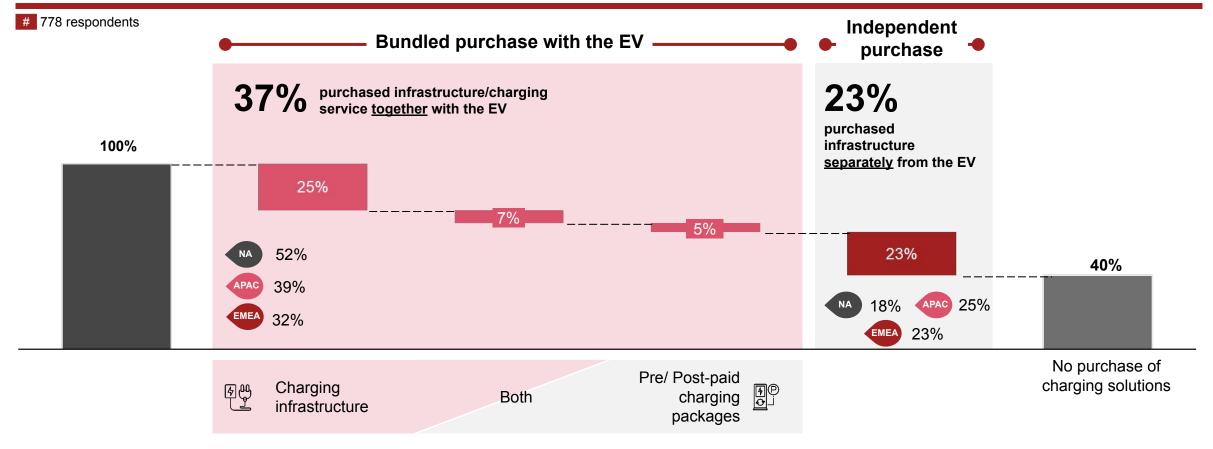
Purchase incentives



37% of EV owners purchased a charging solutions bundled with their car, with an additional 23% purchasing it separately

Charging solutions

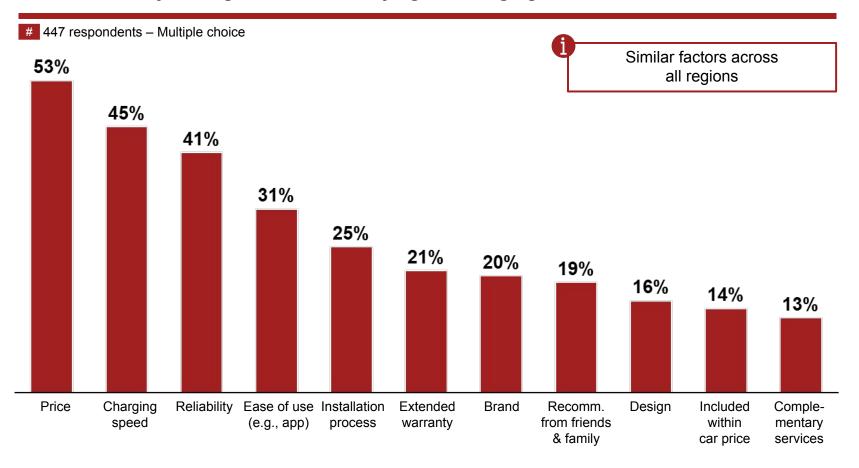
What additional charging infrastructure / services did you buy together with your EV?



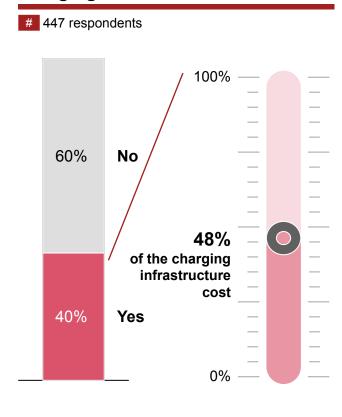
Price, charging speed and reliability are the key purchasing criteria when buying private charging infrastructure

Private charging – Driving factors

What are the key driving factors when buying the charging infrastructure?



Did you use any incentive for the charging infrastructure?



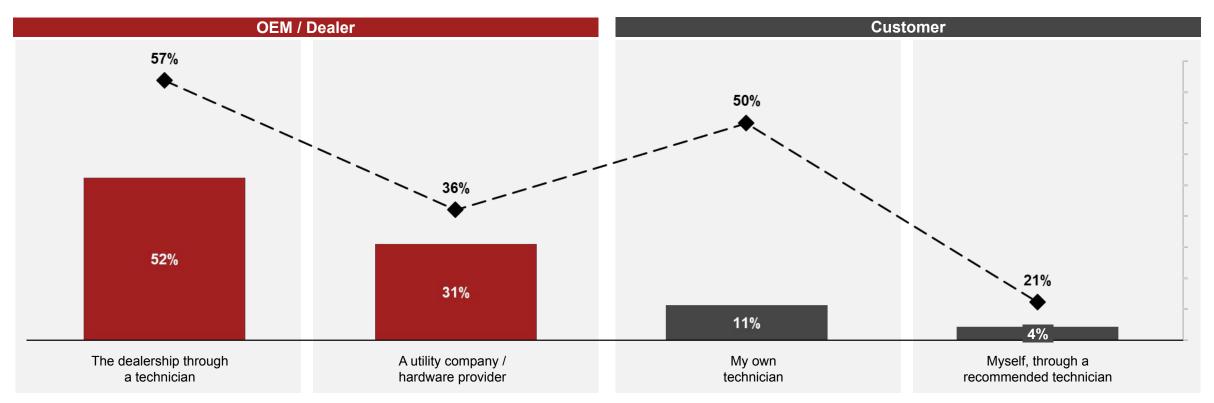
The private charging installation process is a key driver of customer satisfaction, with customers less satisfied when it is left to $3^{\rm rd}$ parties

Private charging – Customer satisfaction with installation

Who was in charge of installing the charging infrastructure?

Similar factors across all regions



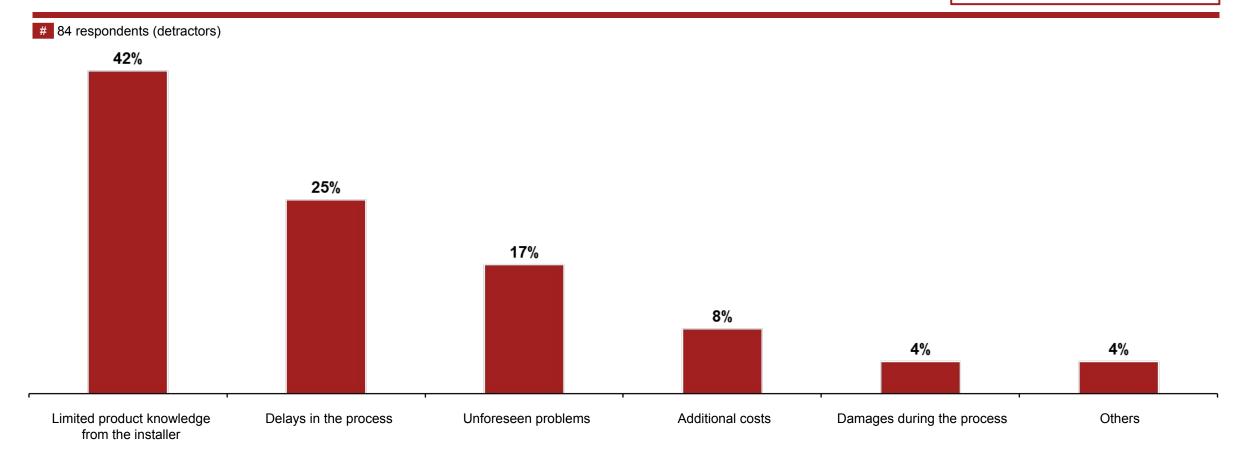


Unprepared installers and lack of installation process management are the key reasons for customers dissatisfaction

Private charging – Installation issues

Which are the key issues you faced during the installation process?

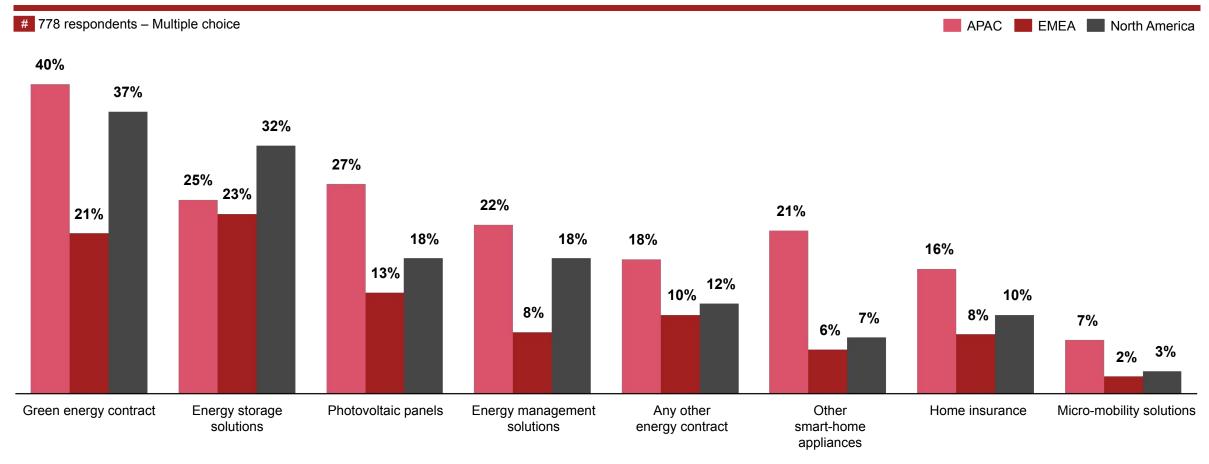
Similar factors across all regions



EV owners showed high level of interest in purchasing additional products and services, in particular green energy contracts

Additional products & services

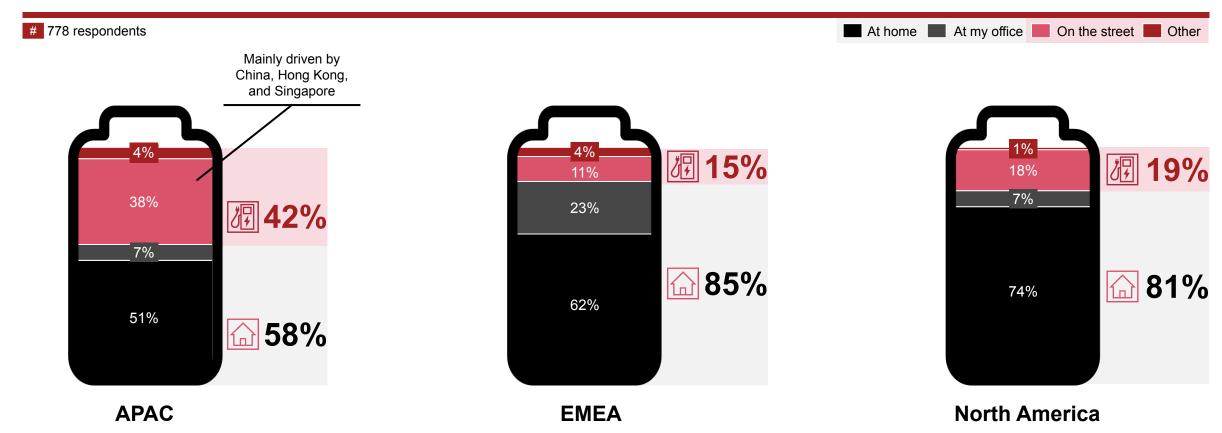
What other EV-related products did you purchase recently?



EV owners charge their vehicle mostly at home, with APAC being the region in which on-the-street-charging has been heavily adopted

Charging preferences

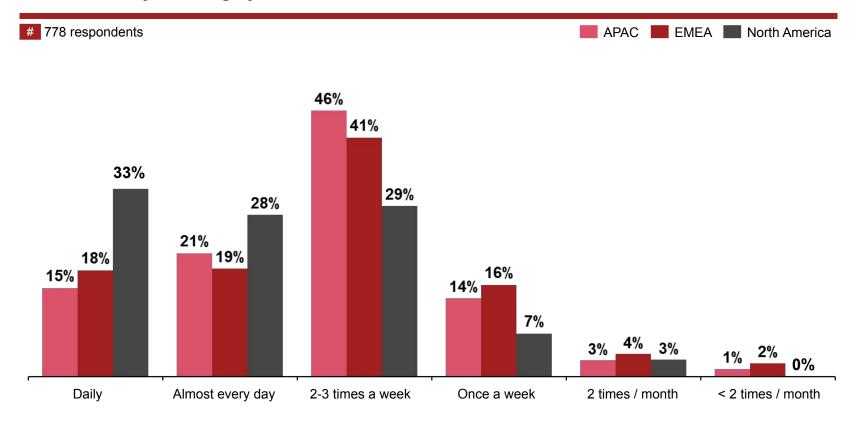
Which is the primary location where you charge your EV?



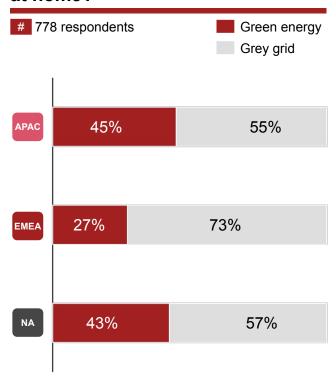
EV owners charge their vehicle mostly two-to-three times per week, predominantly using grey energy

Charging preferences

How often do you charge your EV?

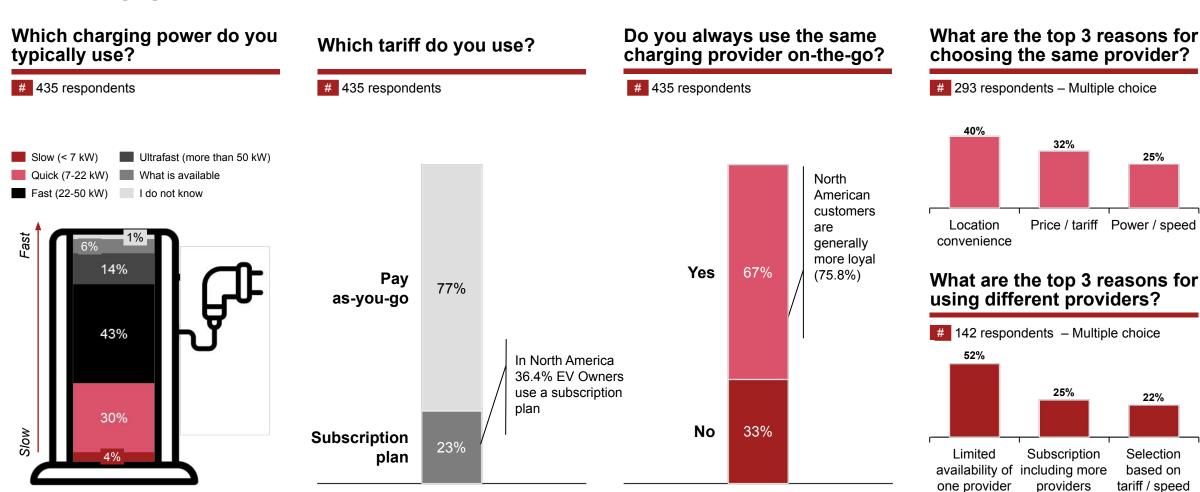


Which energy source do you use at home?



EV owners are loyal to their charging provider, driven by the location closeness and tariff - subscription plans still show limited uptake

Public charging



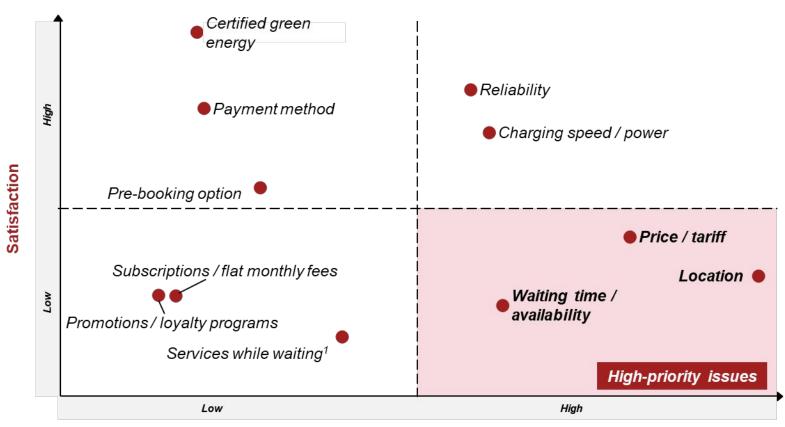
tariff / speed

providers

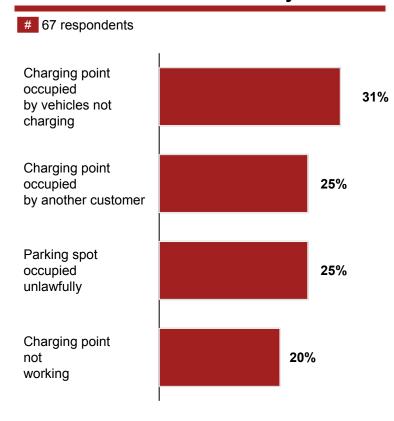
Charging location and availability are a key areas of dissatisfaction for EV owners

Public charging – Satisfaction

435 respondents – Multiple choice



What are the main reasons for dissatisfaction with availability?

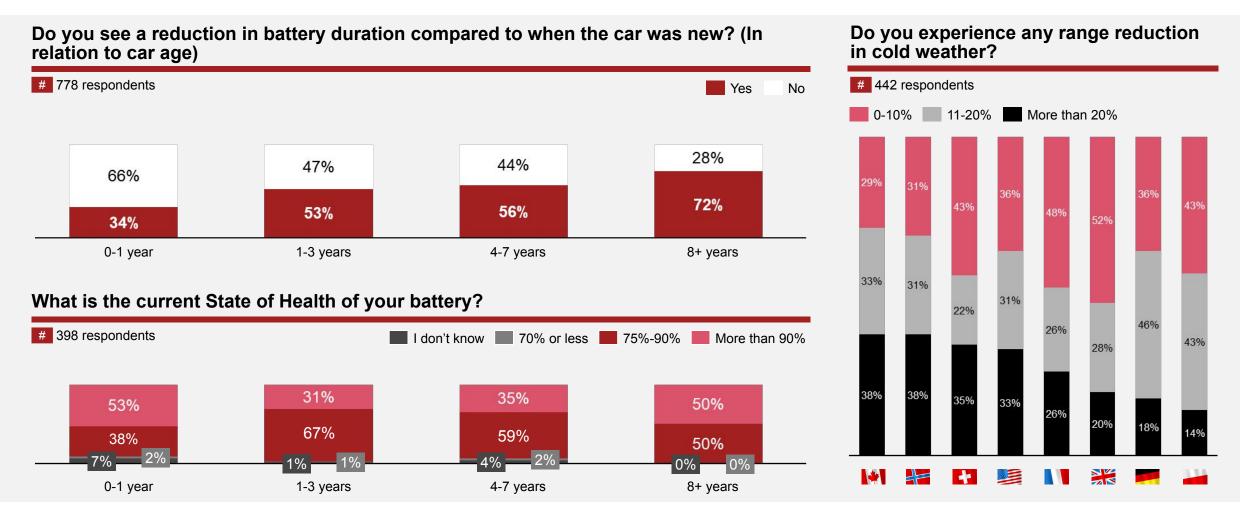


Importance

¹⁾ Services such as restaurants, shops, vending machines and other services located nearby the charging station Source: Strategy& analysis on feedback from consumer survey

EV owners perceive a reduction in their EV range due to car age or during cold weather driving

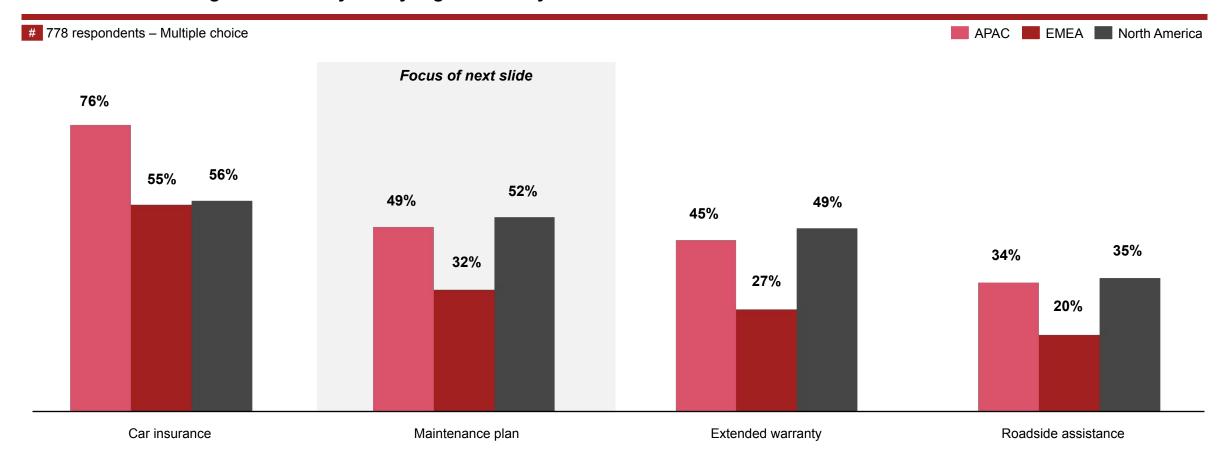
EV range



EV owners declare interest for *peace-of-mind solutions*, especially car insurance and maintenance plans

Additional products & services – Focus on car-related services

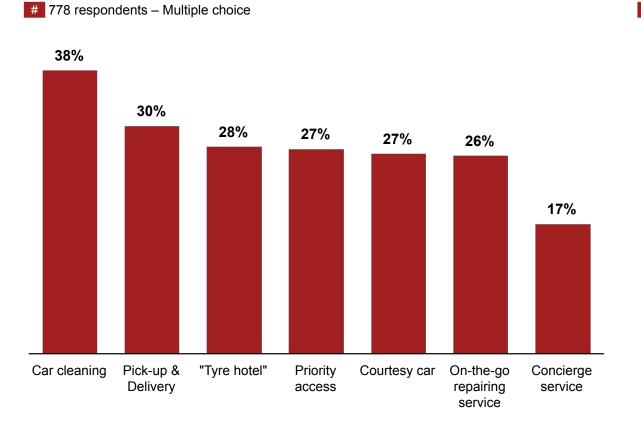
Which of the following services did you buy together with your car?



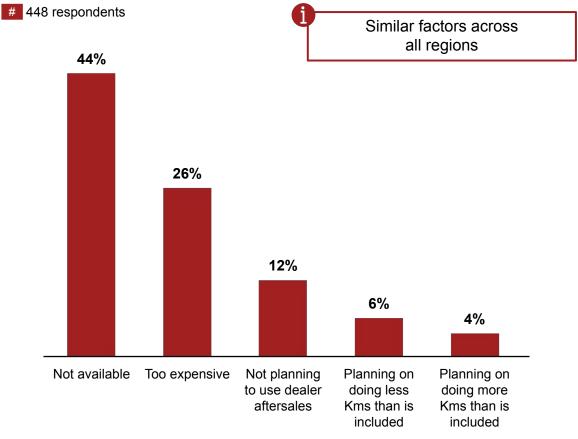
EV owners show a high interest in bundling a maintenance plan with their EV, complementing it with premium services

Additional products & services – Focus on maintenance plan

Which of the following services would you like to have as part of your ordinary maintenance plan?



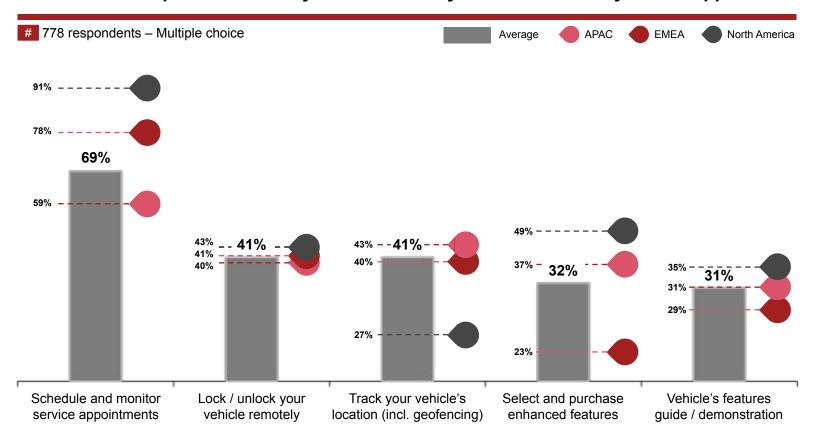
Which is the main reason why you did not include any ordinary maintenance service?



OEM car apps are seen as useful tools to manage the car lifecycle, schedule service appointments and manage EVs remotely

Digital app

Which are the top 5 services do you use / would you like to have in your car app?



Other services of interest



Remote start (e.g. warm-up / Pre-conditioning)



Remote support (e.g., live chat with agent)



Locate a dealer / authorized service



View battery state of health and current level of charging

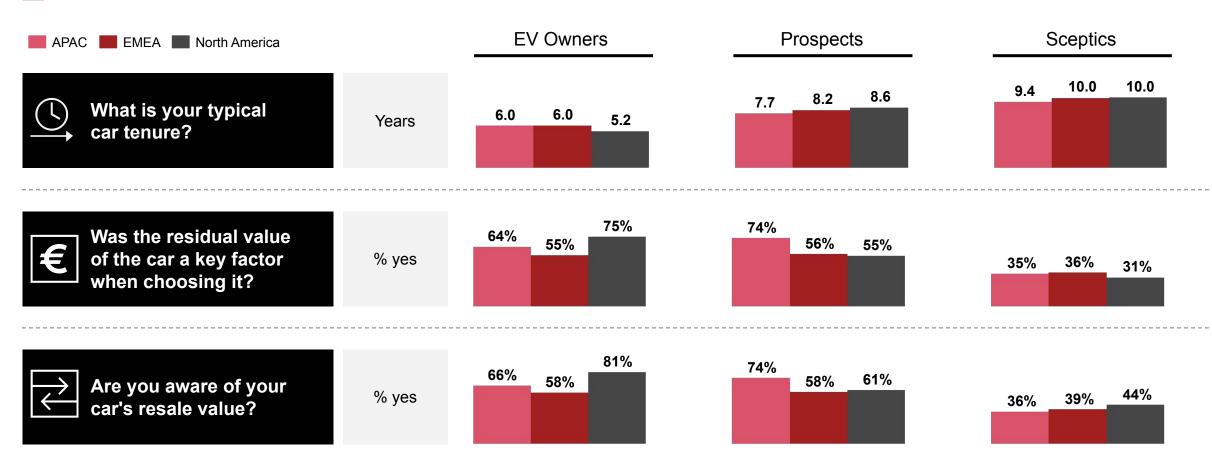


Remote park assist

Given a shorter typical car tenure, EV owners give more importance than sceptics to car residual value

Residual value

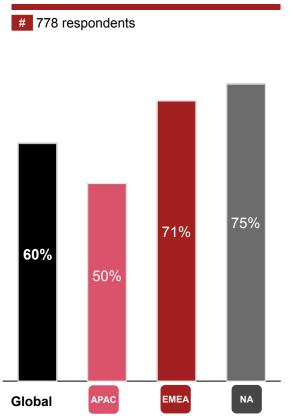
12,816 respondents



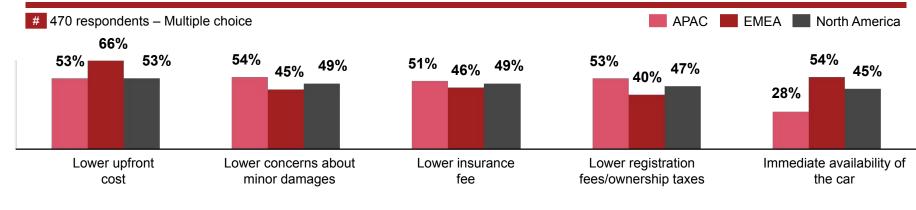
60% of EV owners would consider to purchase a used EV, yet uncertainty of battery SoH is a key barrier

Used EV – Drivers and barriers

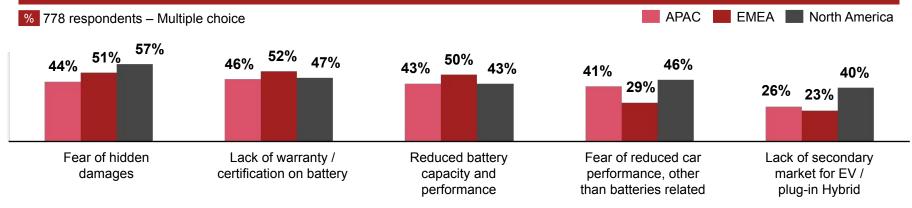
Would you buy a used EV as your next car? (% of yes)



What are the top 5 reasons for buying a used EV?



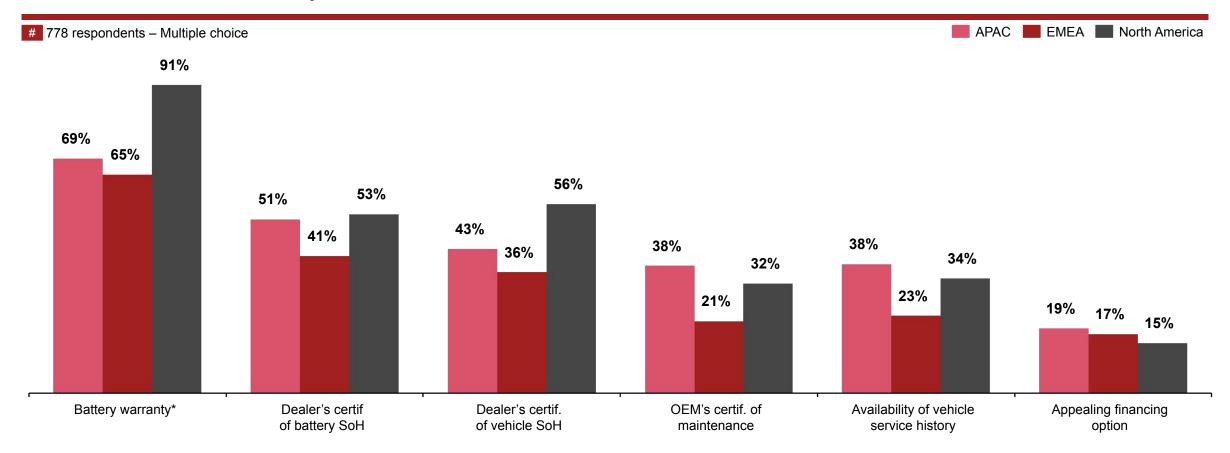
What are the top 5 reasons for not buying a used EV?



Used EV customers seek higher certainty in their purchase, with battery warranty and SoH certifications offerings helping boost this

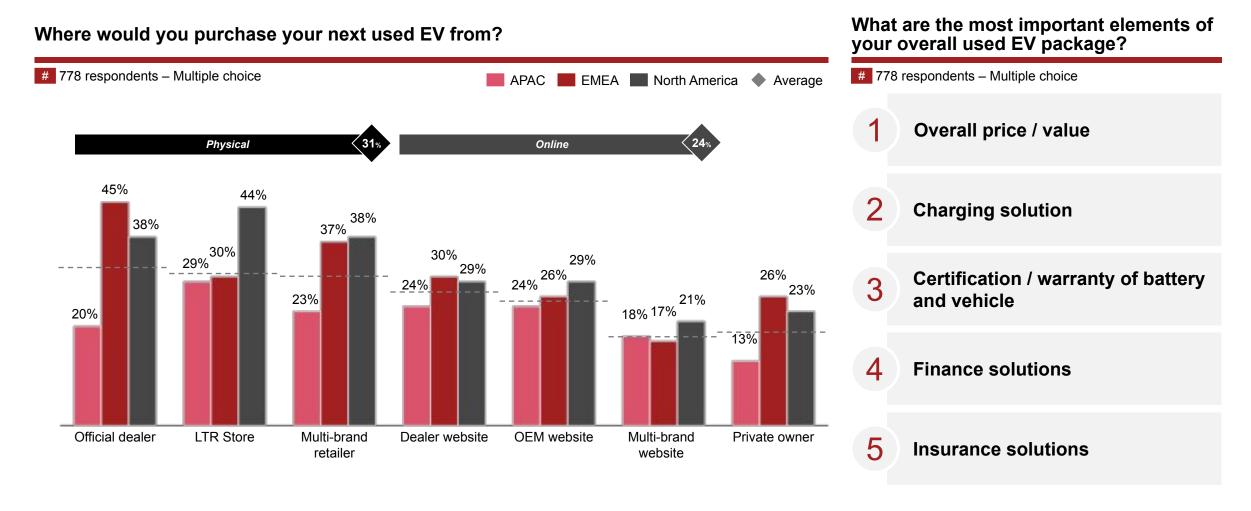
Used EV – Drivers and barriers

Which factors would incentivize you to consider a used EV?



Physical stores are the preferred purchasing channel for used EVs, either from official dealers, long term rental (LTR) providers or multi-brand retailers

Used EV – Purchase preferences



Customers who own a used EV are less wealthy and slightly older than those thap purchased a new vehicle, but there are differences across regions

Used EV – Focus on owners profiles

		Used EV Owner		
4 779 respendents	Used EV Owner (Δ with new EV owner)	APAC (∆ with new EV owner)	EMEA (∆ with new EV owner)	NA (∆ with new EV owner)
# 778 respondents	10% of EV Owners bought a used car	3%	20%	7 %
Income	€61 k (-33k)	€74 _{k (-27k)}	€55 k (-20k)	€85 k (-38k)
Age	44 Yrs. (+2Yrs.)	38 Yrs. (-5Yrs.)	45 Yrs. (+1Yrs.)	52 Yrs. (+16Yrs.)
Residential area	77 % (-19%)	100% (+4%)	70 % (-2%)	100% (+11%)
Family size	3.0 (-0.4)	3.8 (+0.3)	2.9 (-0.3)	2.2 (-1.1)
Daily commute	21 _{km (-2km)}	27 _{km} (+7km)	21 km (-6km)	13 _{km (-8km)}

PARKING

02. Consumer viewpoints

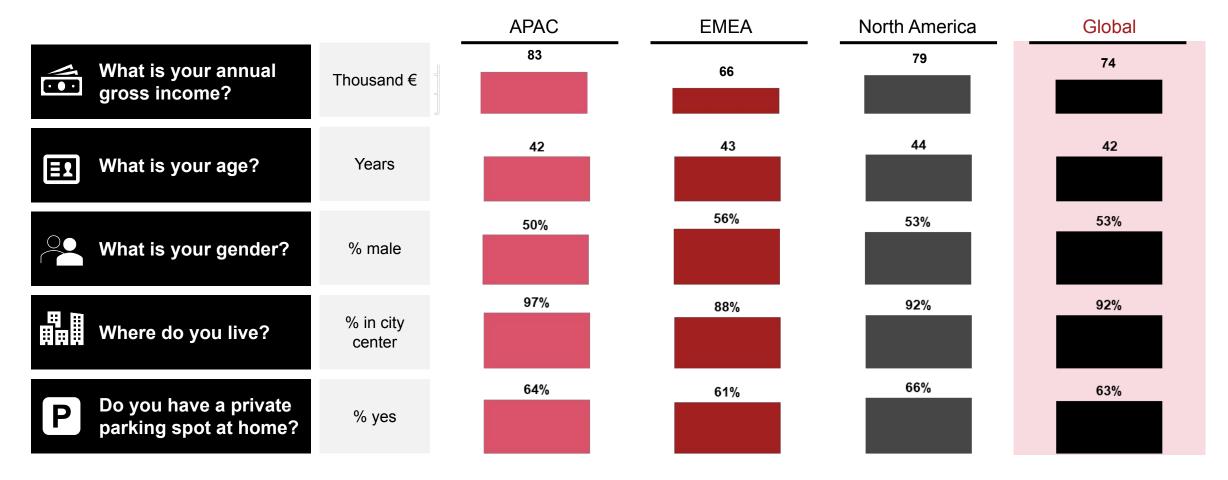
EV Prospects

Consumers who have declared their intention to buy an Electric Vehicle (BEV or PHEV) in the next 5 years

EV Prospects display regional variance in terms of demographics and mobility, indicating different needs sought in a future EV

EV prospects – Regional differences

7,930 respondents



EV Prospects display regional variance in terms of demographics and mobility, indicating different needs sought in a future EV

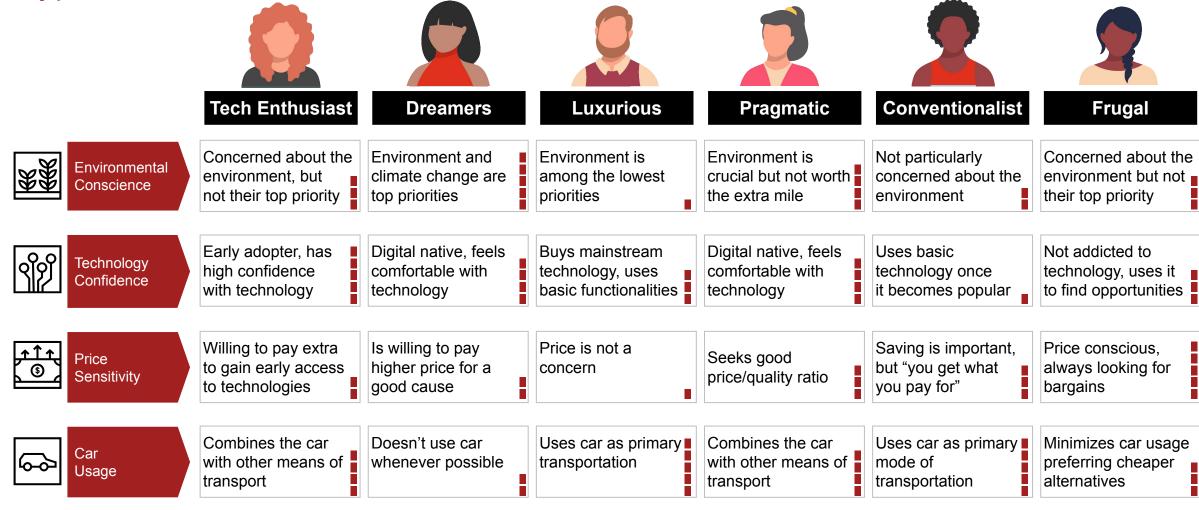
EV prospects – Regional differences

7,930 respondents

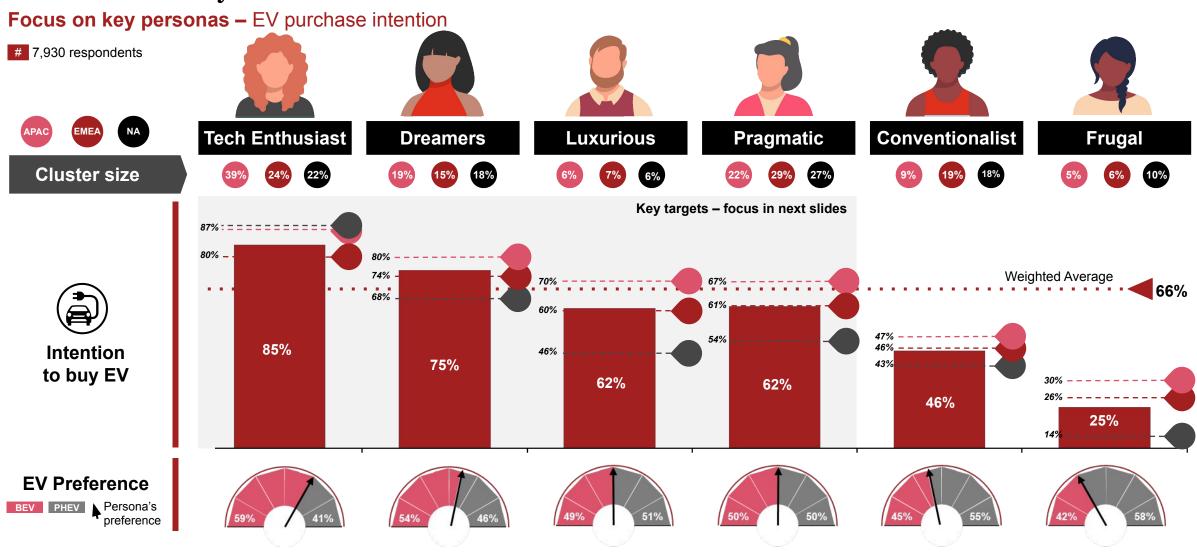
			APAC	<u>EMEA</u>	North America	Global
	Do you commute with a car?	% yes	78%	79%	72%	78%
	Do you combine the car with other means?	% yes	60%	48%	36%	52%
<u>0 0</u>	How many days per week do you commute?	Days per week	4.5	4.0	3.4	4.2
	How many km do you commute daily?	Km	25	31	21	28
	What is your typical car tenure?	Years	7.7	8.2	8.6	8.1

We have identified six personas amongst future EV customers based on four behavioural dimensions

Key personas

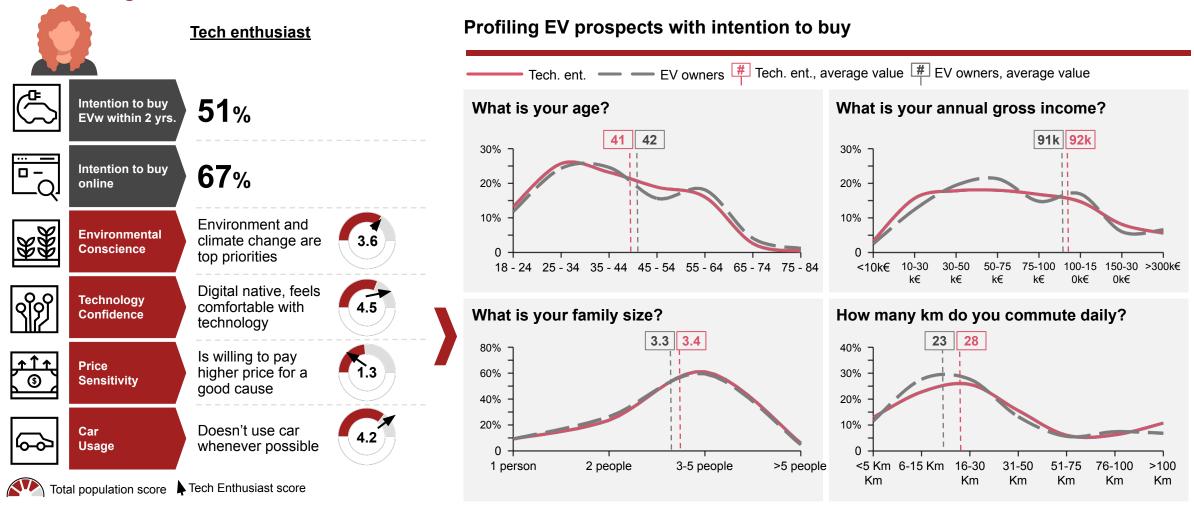


Tech Enthusiasts, Dreamers, Luxurious and Pragmatic consistently show the highest intention to buy in the near future



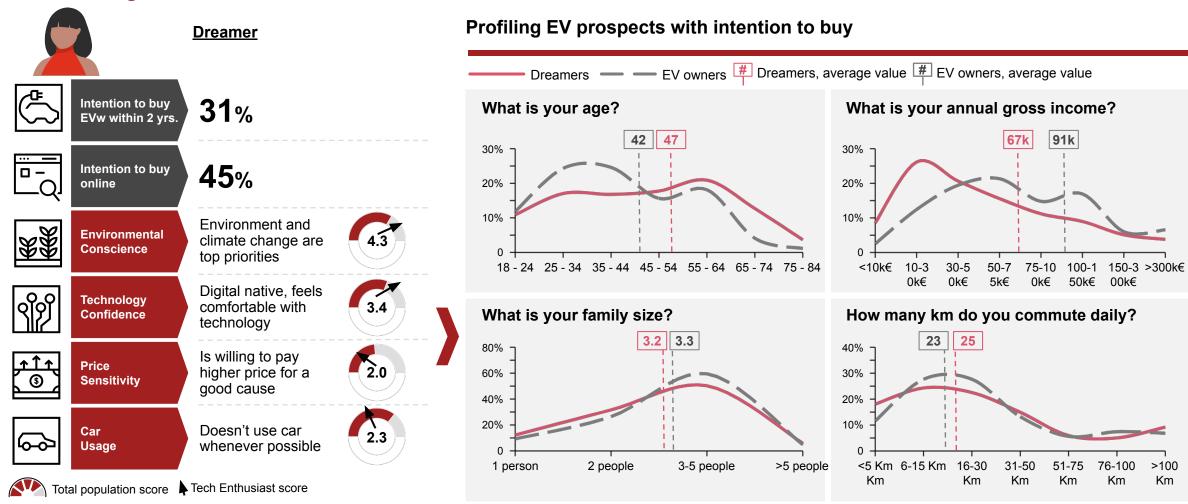
Tech Enthusiasts are high-income middle-aged people interested in the latest tech feature, representing a good target for OEMs

Focus on target customers – Tech Enthusiasts



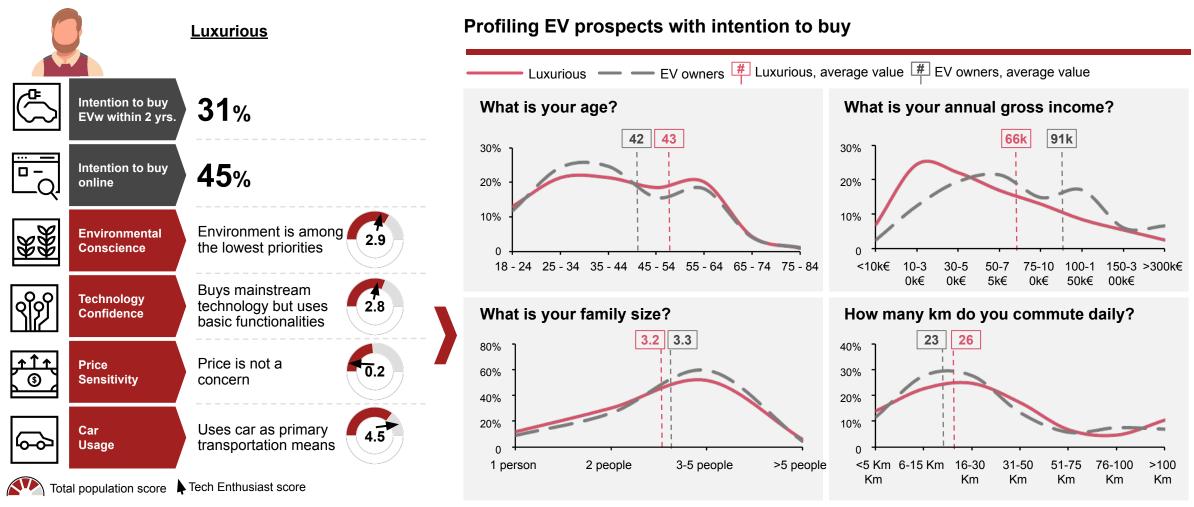
Dreamers' intention to buy remains high but lower than Tech Enthusiasts, mainly given their preference towards a low car usage

Focus on target customers – Dreamers



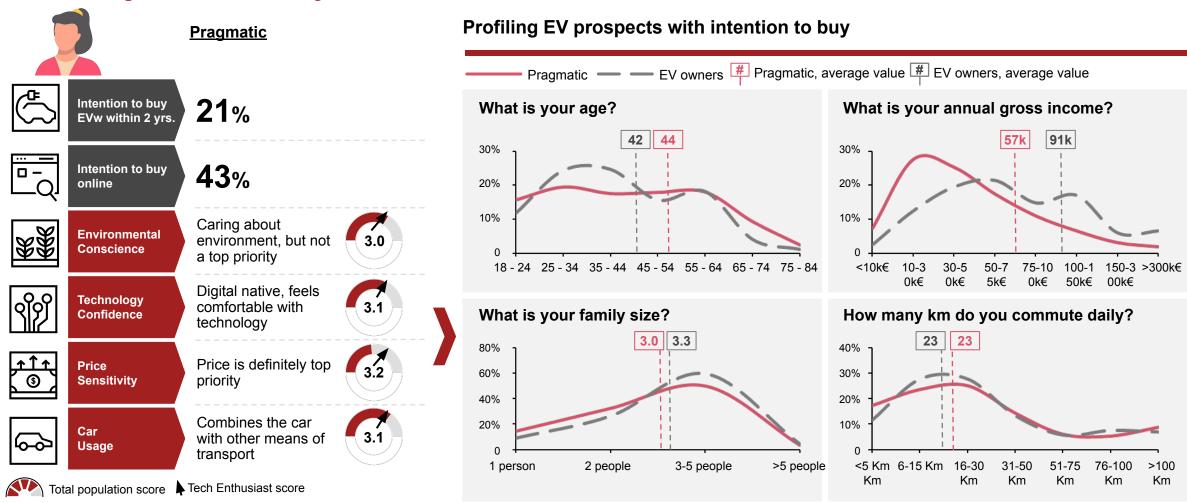
Luxurious are non price-sensitive people, often using a car and therefore represent a key target for premium OEMs

Focus on target customers – Luxurious



Pragmatic tend to be more rational than emotional with their purchases, making them a relevant target for mass-market OEMs

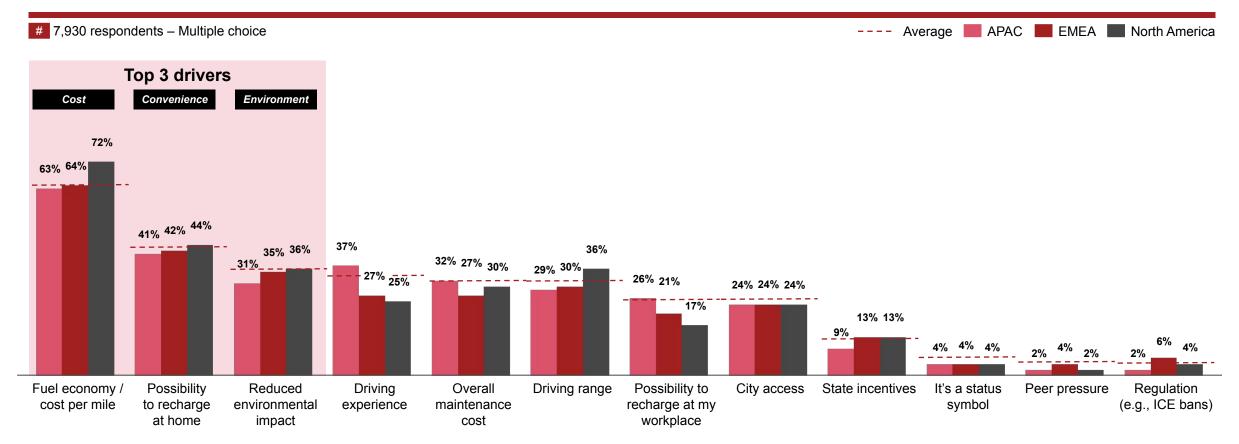
Focus on target customers - Pragmatic



Low operating costs, convenience and reduced environmental impact are key drivers when considering the purchase of an EV

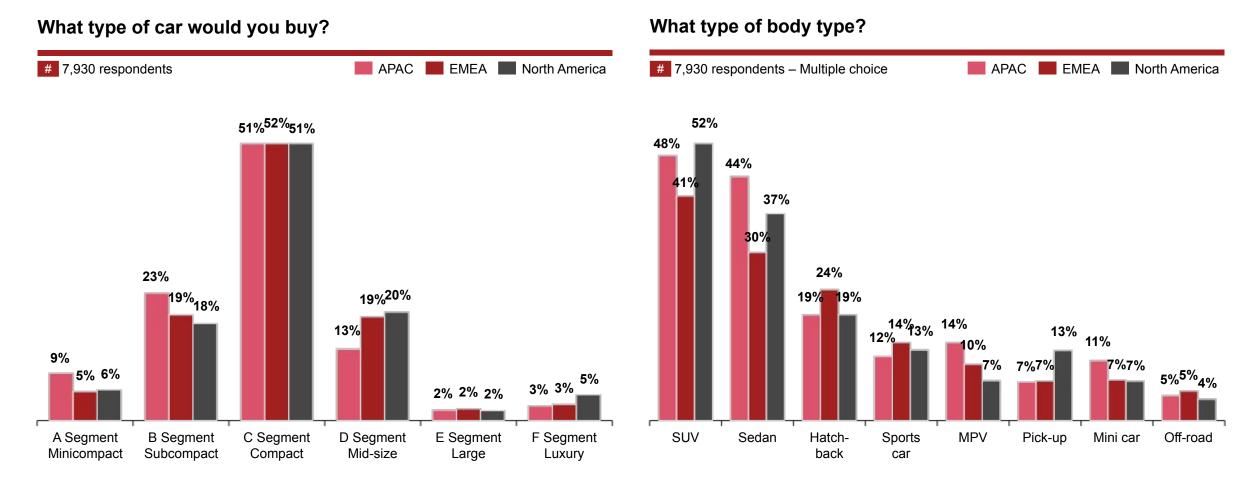
Key purchasing drivers

What are main reasons that drive you to buy an EV?



EV prospects declared a significant interest in C-segment/Compact vehicles and SUVs, with a consistent distribution across all regions

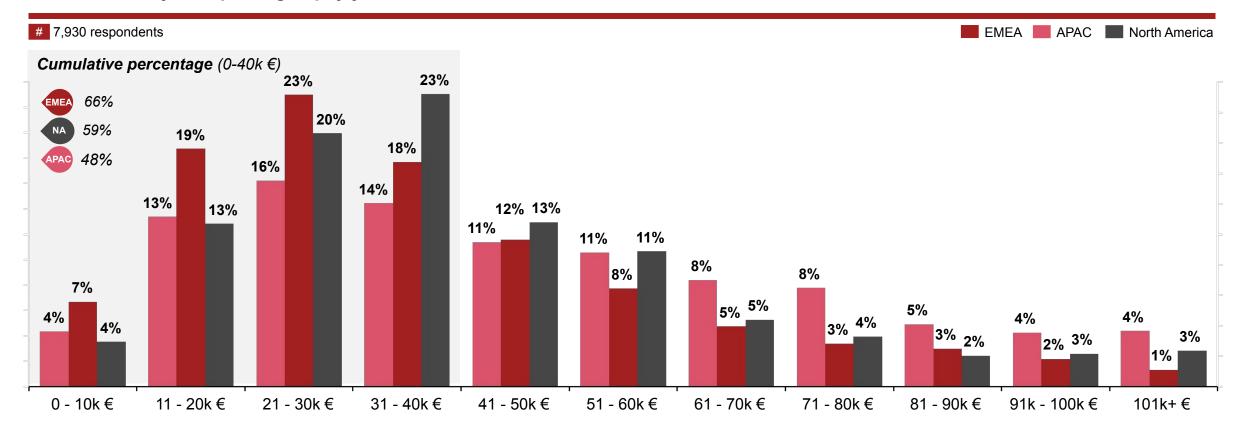
Purchasing preferences



50-60% of EV prospects tend to expect their new EV to have a price point between 20-40k€

Purchasing preferences

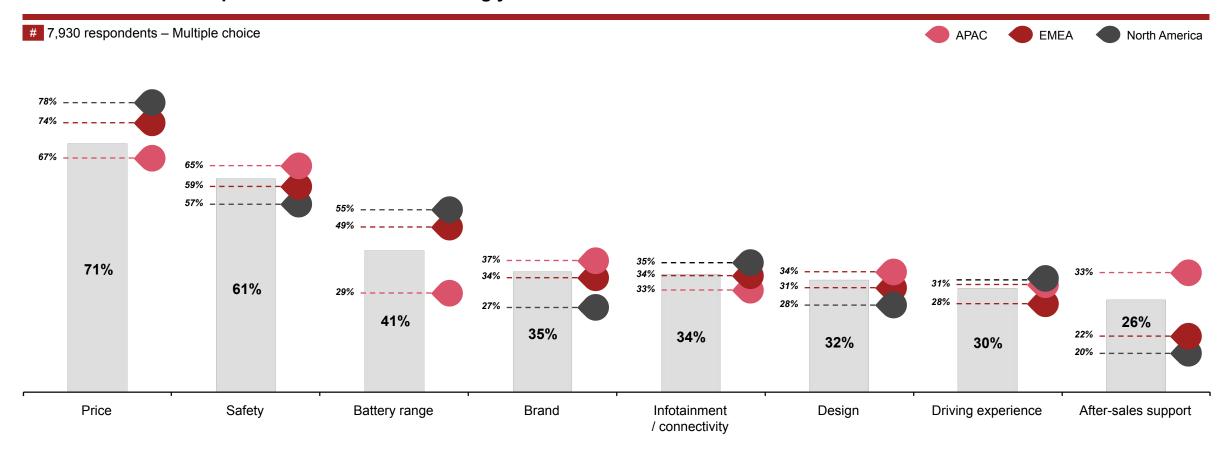
How much are you expecting to pay your next EV?



When choosing among different EV models, overall price, safety and battery range are the key criteria

Purchasing criteria

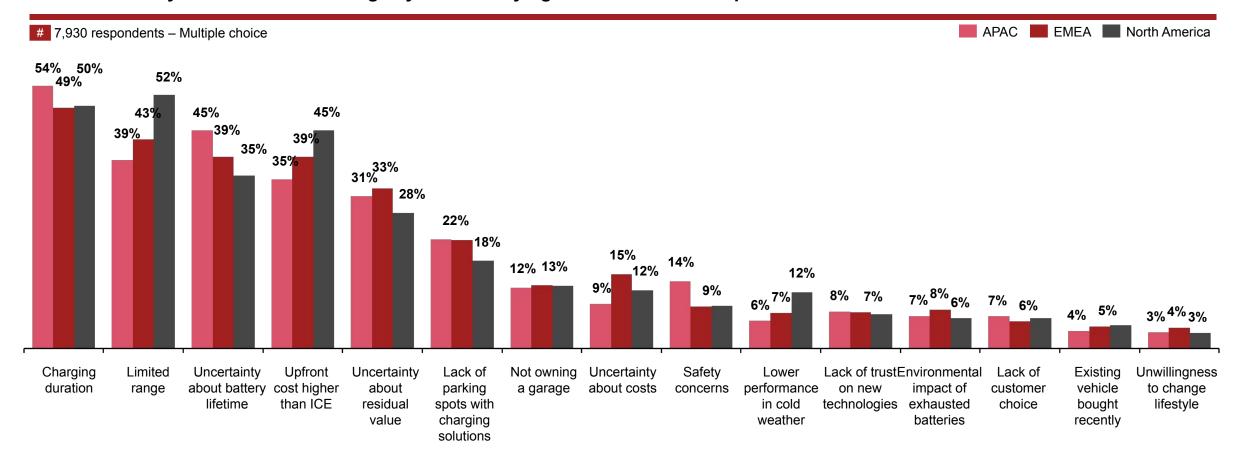
Which are the most important criteria when selecting your new electric car?



Charging duration, range and battery lifetime are the key barriers stopping EV prospects from purchasing an EV

Key purchasing barriers

What are the key factors that discouraged you from buying an electric vehicle up until now?

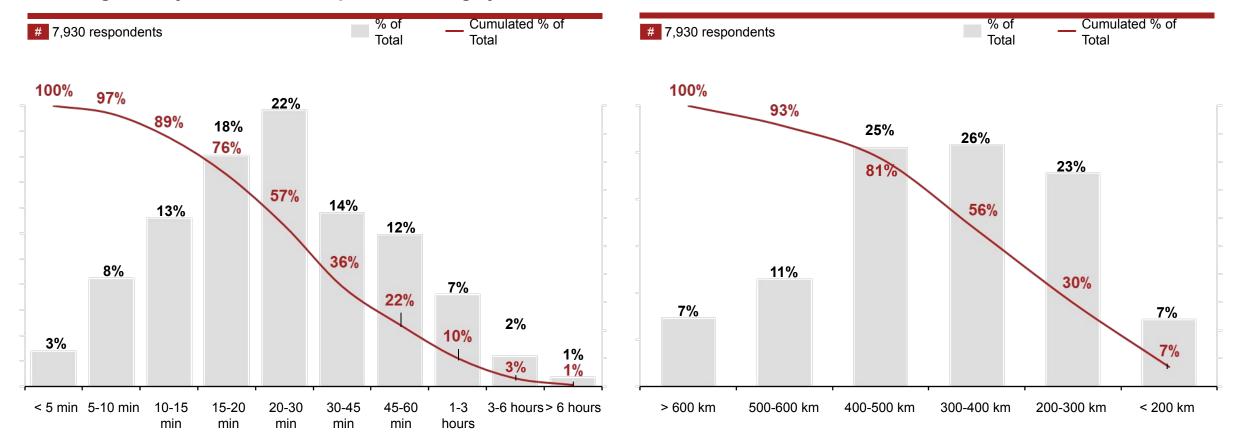


60% of EV prospects would consider it acceptable to have a 300-400km driving range and full charge their car in less than 30 mins

Charging time and driving range expectations



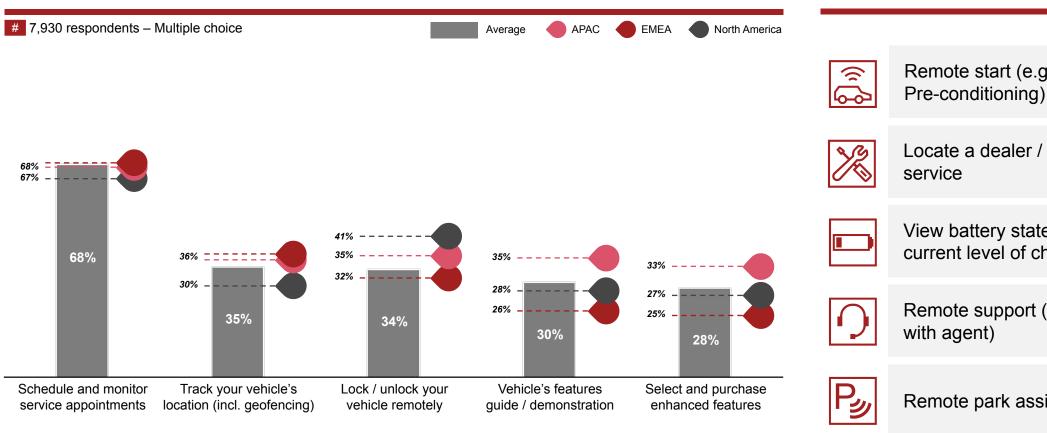
What would you consider an acceptable driving range?



OEM car apps are seen as a useful tool to manage the car lifecycle, schedule a service appointment and manage an EV remotely

Digital app

Which are the top 5 services do you use / would you like to have in your car app?



Other services of interest

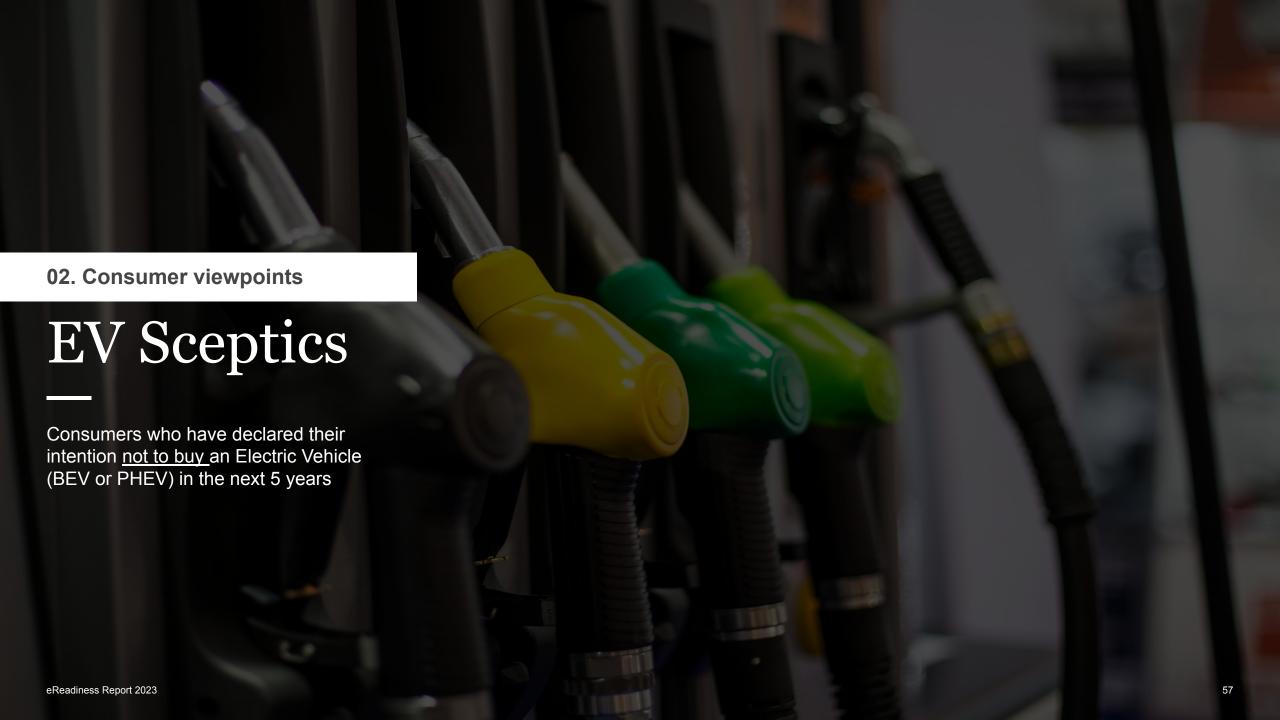
Remote start (e.g. warm-up /

Locate a dealer / authorized

View battery state of health and current level of charging

Remote support (e.g., live chat

Remote park assist



Sceptics display regional variance in terms of demographics and mobility, indicating different mobility needs

EV sceptics – Regional differences

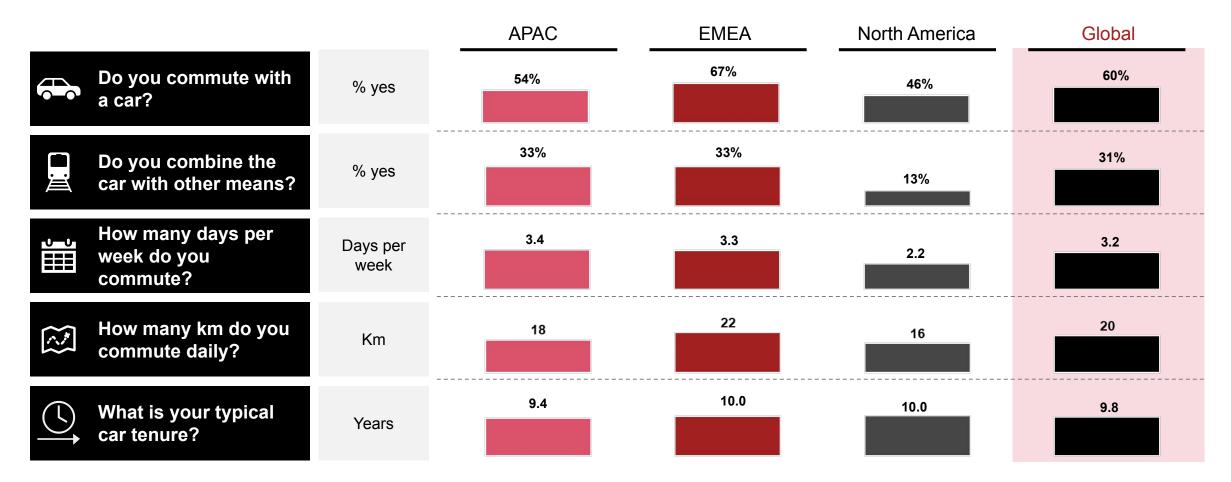
4,108 respondents



Sceptics show substantial differences across the globe requiring a localized approach to convert them into prospects

EV sceptics – Regional differences

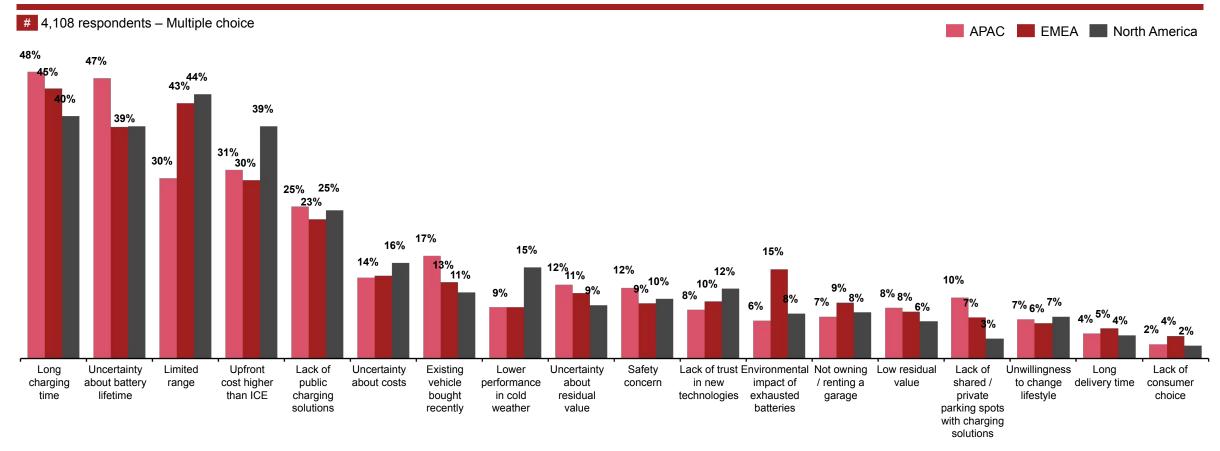
4,108 respondents



Key inhibitors vary across geographies, with EMEA and North America being put off by the limited driving range while APAC from the charging time

Main reasons for rejection

What are the main reasons that discourage you from buying an EV?





The eReadiness Index is comprised of 14 KPIs grouped into 4 main dimensions for each country in scope

eReadiness Index Dimensions and KPIs







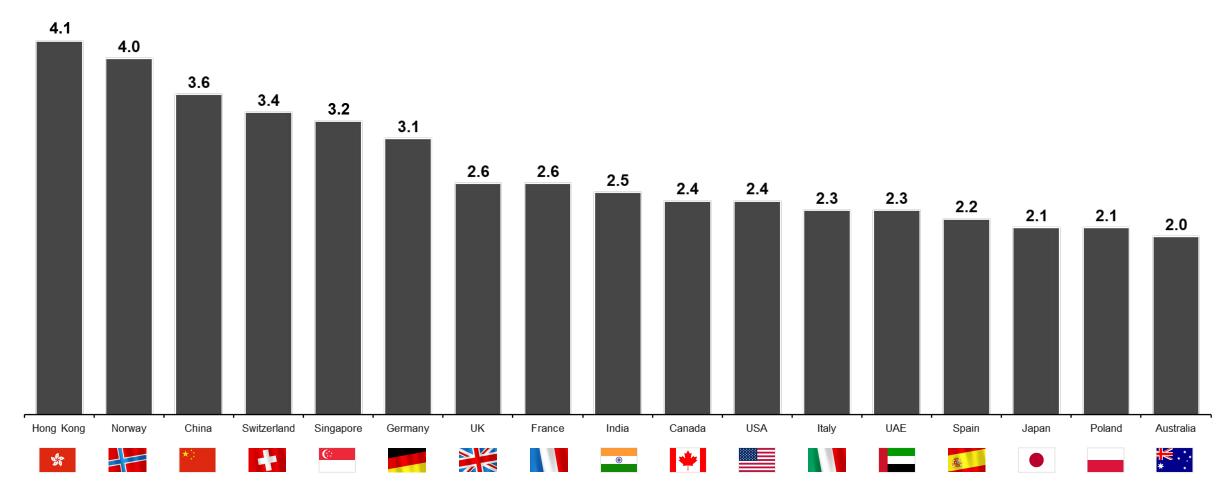


Government incentives	Infrastructure	Supply	Demand
 Analysis of specific government incentives with focus on: Grants (Purchase subsidies, national and local grants, scrapping bonus) VAT exemption Registration tax reduction Annual ownership tax exemption 	 Installed public charging points per thousand cars (total circulating EV and non-EV fleets) Installed public fast charging points (>150kW) per highway km Share of renewable energy generation Ratio of gasoline to electricity driving cost 	 EV share of total registrations Depreciation rate of a country's top selling EVs Number of pure EV players present in the market 	 Consumers' willingness to buy an EV within the next two years Share of short distance (<30km per day) drivers Average household income

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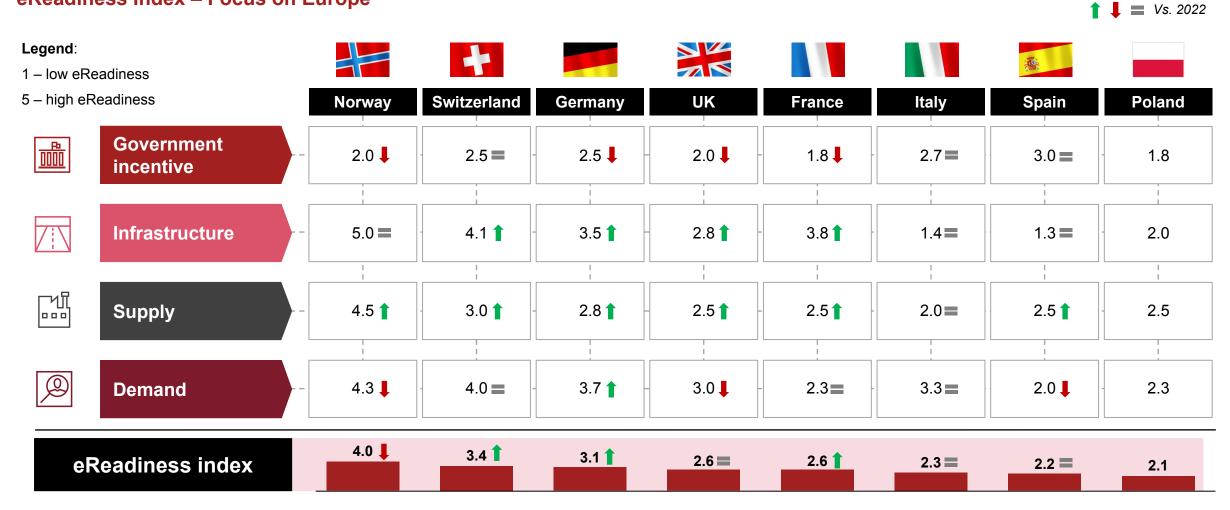
Hong Kong and Norway are the most eReady countries across all dimensions while Australia seem the least mature one for e-mobility

eReadiness Index



In Europe, Norway is the most eReady country across all dimensions while Italy, Spain and Poland seem the least mature for e-mobility

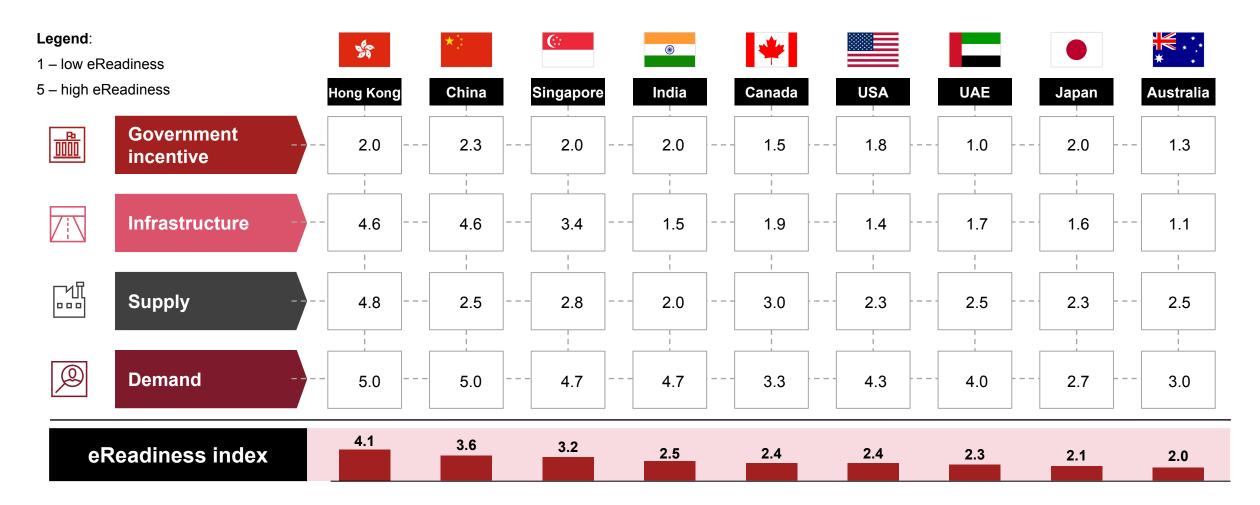
eReadiness Index - Focus on Europe



eReadiness Report 2023 Source: Strategy& Analysis 64

Hong Kong, China and Singapore immediately rank among the most eReady countries across all countries considered

eReadiness Index - Rest of the World



eReadiness Report 2023 Source: Strategy& Analysis 6

Government incentives are measured based on consumer fiscal savings

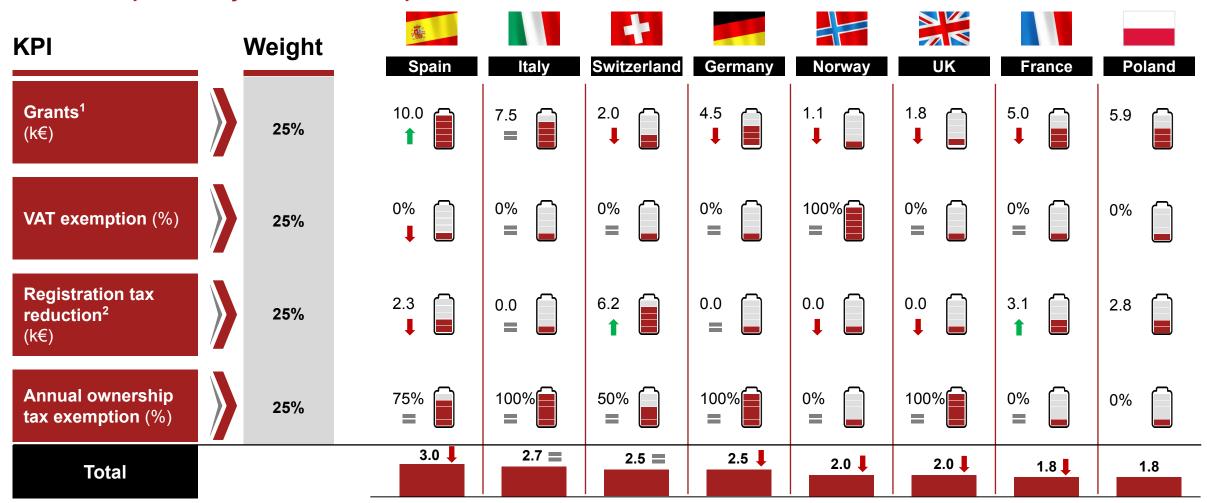
Dimension overview

KPI Definition Scoring Total amount of maximum purchase subsidies, national and local grants, scrapping bonus **Low** (1): 0–2,000€/BEV **Grants** per EV granted to a consumer by the government **High** (5): > 8,000€/BEV **VAT Low** (1): 0–20% reduction Exemption or maximum reduction on **VAT granted** to a consumer when buying an EV **High** (5): > 80% reduction exemption Registration Exemption or maximum reduction on one-off registration taxes, import taxes or CO2/NOx **Low** (1): 0–2,000€/BEV **High** (5): > 8,000€/BEV tax reduction taxes **Annual ownership** Total maximum amount of annual ownership tax reductions granted to a consumer by the **Low** (1): 0–20% reduction government **High** (5): > 80% reduction tax exemption

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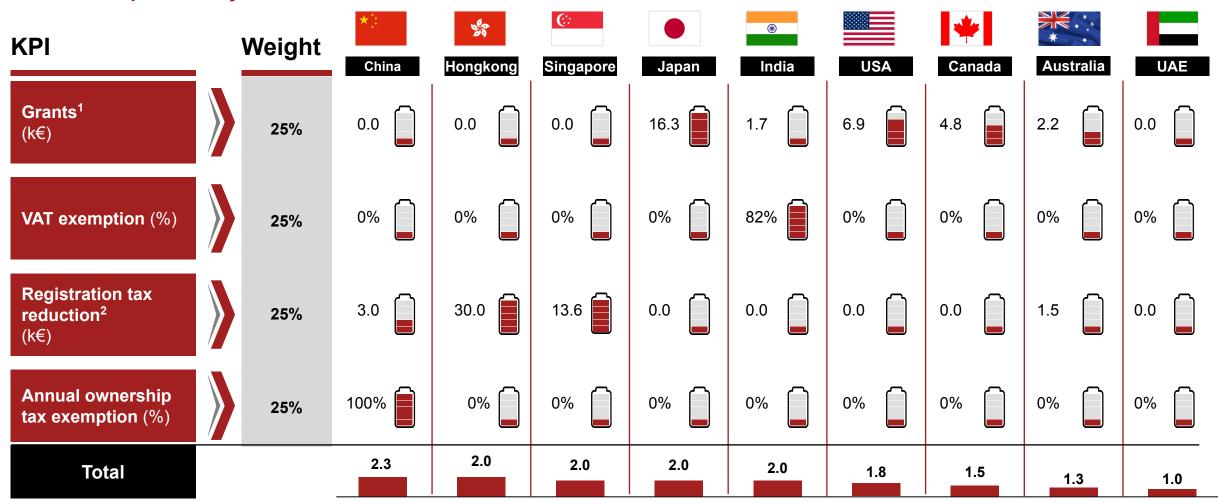
Spain and Italy provide the highest government incentives to consumers, while France and poland the lowest

Score & KPI per country – Focus on Europe



China and Hong Kong offer the highest government incentives to consumers, while India and UAE offer the lowest High (5)

Score & KPI per country – Rest of the World



Low (1)

The Infrastructure dimension measures the availability of public charging infrastructure as well as the sources and cost of electricity

Dimension overview

KPI	
------------	--

Definition

Scoring

Charging points per thousand cars



Number of **public charging points** per thousand cars (total circulating EV and non-EV fleet)

Low (1): < = 1 **High** (5): > = 3

Penetration of public fast charging points



Ratio of public fast charging points (over 150 kW) per km of motorway

Low (1): < = 0,1 **High** (5): > = 1

Renewable energy share



Share of renewable energy produced¹

Low (1): < = 40% **High** (5): > = 80%

Gasoline vs. electricity cost



Ratio of **driving costs**² per 100 km of ICE vs. BEV (considering gasoline for ICE and slow charging for EVs)

Low (1): < = 2,5 **High** (5): > = 3,5



Norway is by far the most developed EV charging infrastructure, but Switzerland, France and Germany are catching up

Score & KPI per country – Focus on Europe

KPI	Weight	Norway	Switzerland	France	Germany	UK	Poland	Italy	Spain
Charging points per thousand cars (#/k cars)	50%	7.6	2.4	2.4	1.7	1.4	0.1	0.9	0.7
Penetration of public fast charging points (#/km)	30%	10.2	1.0	1.0	1.0	1.8	0.5	0.1	0.0
Renewable energy share ¹ (%)	10%	98%	28%	25%	48%	44%	17%	37%	42%
Gasoline vs. electricity cost² (ratio)	10%	5.4	4.1	4.8	2.9	1.8	5.2	2.7	2.9
Total		5.0	4.1	3.8	3.5	2.8	2.0	1.4 =	1.3



China and Hong Kong and Singapore have the highest penetration of charging points for electric vehicles while India, USA and Australia fall behind

Score & KPI per country - Rest of the World

KPI	Weight	Hong Kong	★ ;: China	Singapore	t	UAE	Japan	• India	USA	* * * * * * * * * * * * * * * * * * *
Charging points per thousand cars (#/k cars)	50%	8.9	5.6	5.4	0.9	0.2	0.5	0.0	0.4	0.2
Penetration of public fast charging points (#/km)	30%	1.7	4.3	0.0	0.1	0.2	0.5	0.0	0.1	0.0
Renewable energy share ¹ (%)	10%	1%	32%	4%	66%	1%	20%	41%	24%	29%
Gasoline vs. electricity cost ² (ratio)	10%	8.9	7.6	4.4	5.4	4.9	2.5	8.5	2.8	2.6
Total		4.6	4.6	3.4	1.9	1.7	1.6	1.5	1.4	1.1

The Supply dimension measures the supply of EVs and their market penetration

Dimension overview

KPI

Definition

Scoring

BEV penetration



Share of BEVs based on total cars sold (2022)

Low (1): < = 10% **High** (5): > = 50%

Top models annual depreciation



Depreciation rate¹ of top 4 selling models by country from 2018 to 2022²

Low (1): < = -15% High (5): > = -5%

Pure EV players

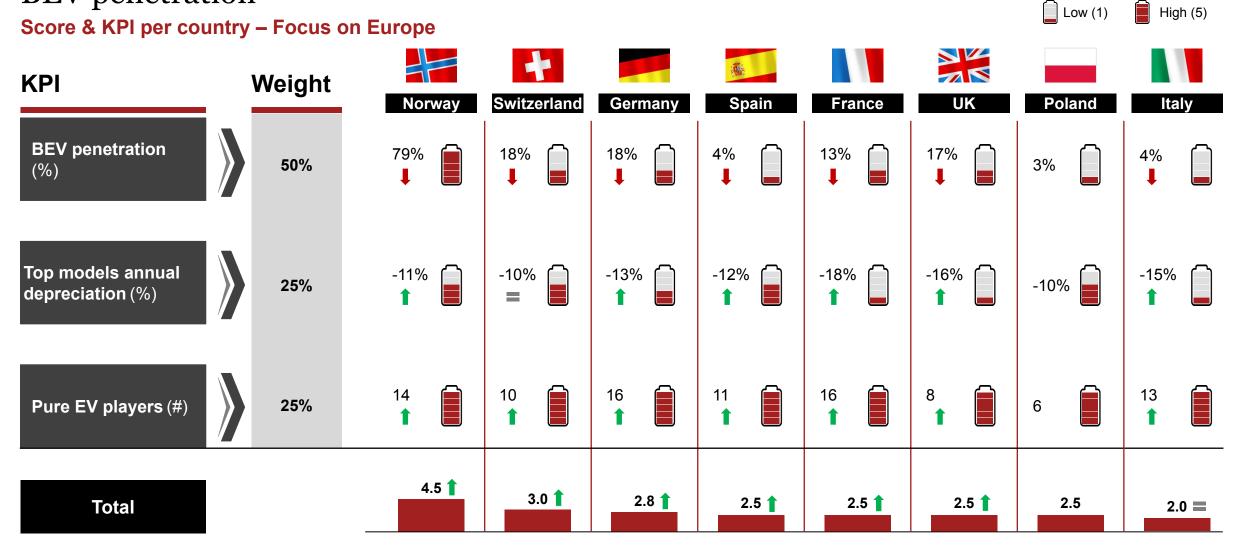


Pure EV players³ with active sales in country

Low (1): < = 1,00 **High** (5): > = 5,00



Norway is the best supplied market while Poland and Italy seems to have the lowest BEV penetration



eReadiness Report 2023 Source: IHS Markit; Strategy& Analysis 73



Hong Kong lead the EV demand dimension by far thanks to a strong BEV penetration and residual value stability

High (5) Low (1) Score & KPI per country – Rest of the World Weight **KPI Hong Kong** Canada **Singapore** Australia China Japan India **BEV** penetration 53% 21% 50% (%) Top models annual 25% -16% depreciation (%) **Pure EV players (#)** 25% 9 15 9 5 4.8 3.0 2.8 2.5 2.5 2.3 **Total** 2.5 2.3 2.0

eReadiness Report 2023 Source: IHS Markit; Strategy& Analysis 74

The Demand dimension leverages the Strategy& eReadiness survey, drawing on first hand data

Dimension overview

KPI

Definition

Scoring

Willingness to buy



Consumer willingness to buy a BEV in the next two years year (% of respondents)

Low (1): < = 20% **High** (5): > = 35%

Share of short distance drivers



Share of respondents driving 30 km or less per day

Low (1): < = 50% **High** (5): > = 75%

Household income



Average income of consumers respondent to the Strategy& survey

Low (1): < = 40 €k **High** (5): > = 60 €k

eReadiness Report 2023 Sources: Strategy& Analysis 75

Norway lead the EV demand dimension thanks to a strong willingness to buy and high household income

High (5) Score & KPI per country - Focus on Europe **KPI** Weight Germany **Switzerland** Poland Spain Willingness to buy 32% 21% 23% 29% 19% 18% 14% 33% (%) Share of short 75% 75% 88% 75% 78% 89% 50% 33% distance drivers (%) **Household income** 90 57 42 38 33% (k€) 4.3 👢 4.0 3.7 3.3 3.0 2.3 2.3 **Total** 2.0

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Emerging markets are characterized by a high willingness to purchase electric cars, as well as short travel distances.

High (5) Low (1) Score & KPI per country – Rest of the World **KPI** Weight **Hong Kong** China **Singapore** Canada Australia Japan Willingness to buy 48% 26% 33% (%) Share of short 33% 84% 73% 87% 56% 74% distance drivers (%) **Household income** 33% 113 101 100 90 (k€) 4.7 4.7 4.3 3.3 2.7 **Total**



We have shortlisted 5 short-term actionable improvements for e-mobility players to untap the full potential of the EV market

Recommendations for e-mobility players (1/2)

Recommended actions

Design **financially flexible offerings** that reduce upfront costs, provide additional services, and protect residual value to increase EV conversion from more hesitant prospects

Build partnerships with third-party providers (including clear SLAs and incentives) to provide end-to-end support and orchestration of home chargepoint installation and offer related products & services (e.g. green energy contracts, energy storage, photovoltaic panels, integrated on-the-go charging etc.) to EV customers at point of sale

Review and refresh the **used-vehicle business proposition** with pre-owned programs that leverage telematic data and include battery health certification to protect residual values and more effectively and profitably manage EV second-hand trade.

	Rationale	OEMs	Retailers	Utility companies & CPO	Public Authorities
•	 Upfront costs and low residual value are key purchasing barriers for 40% and 33% of EV prospects respectively 				
•	Majority of EV owners, in particular in APAC and NA, purchased insurance services, an after sales maintenance plan and extender warranty together with the car to ensure their peace-of-mind	*	*		
	 Limited charging infrastructure knowledge (42%) and delays in process (25%) are the key issues experienced during the home charging installation 10-40% of consumers purchased additional EV-related products and services within a short time frame after 	*	*	*	
	 purchasing their EV. 60% of EV Owners would be willing to consider a pre-owned EV, this is driven mainly by the lower upfront costs. The lack of a battery state-of-health certification / warranty and the fear of reduced battery capacity are among the top 	*	*		

eReadiness Report 2023 Source: Strategy& 79

We have shortlisted 5 short-term actionable improvements for e-mobility players to untap the full potential of the EV market

Rationale

Recommendations for e-mobility players (2/2)

Recommended actions

Redesign **end-to-end customer experience** to address prospective customers' EV qualms (e.g. long or multi-day test drives including public charging experience) and effectively onboard them to EV features, educate them about options & settings, and provide EV driving guidance

Review processes to **grant access to relevant public spaces** suitable for public EV charging locations and **speed-up permitting approval** to accelerate for new high-power connections to prioritize charging infrastructure build up

EV owners' satisfaction continues to be lower than for ICE owners (11 p.p.) – as the EV market is shifting into a mass market, new EV owners are less tech-savvy and expect support throughout the entire customer journey

 Limited charging infrastructure knowledge (42%) and delays in process (25%) are the key issues experienced during the home charging installation

- Only 6 out of the 18 countries analyzed is above average in terms of public charging network development with more than 2.3 points for 1,000 circulating cars
 - Local and national governments or their agencies have access to real estate with potential to be utilized for public EV charging

Utility companies **Public OEMs** & CPO **Authorities** Retailers

eReadiness Report 2023 Source: Strategy& 80

Contacts

Australia

Jon Chadwick
Partner - PwC
+61 424 299 056
jon.d.chadwick@pwc.com

Canada

Chris Casey
Partner – Strategy&
+1 (416) 320-8175
chris.casey@pwc.com

Jordan Downing
Senior Manager - Strategy&
+1 (647) 500-2172
jordan.d.downing@pwc.com

China

Jun Jin Partner – PwC +86 10 6533 2977 Jun.jin@cn.pwc.com

Ashley L Zhang
Senior Manager – PwC
+86 10 6533 7670
Ashley.l.zhang@cn.pwc.com

France

José Baghdad Partner - PwC France +33 1 56 57 84 03 jose.baghdad@pwc.com

Germany

Andreas Gissler
Partner - Strategy&
+49 151 2377 3506
andreas.gissler@strategyand.de.pwc.com

Patrick Lill

Director – Strategy& +49 170 7377 962 patrick.lill@pwc.com

Hong Kong, Singapore and Thailand

Oliver Wilkinson
Partner – Strategy&
+65 9732 9610
oliver.wilkinson@pwc.com

Julian Cheong
Director – Strategy&
+65 8368 3198
julian.w.cheong@pwc.com

India

Kavan Mukhtyar
Partner – PwC
+91 99875 38628
kavan.mukhtyar@pwc.com

Akhilesh Oberoi Manager – PwC +91 97404 46188 akhilesh.oberoi@pwc.com

Italy

Francesco Papi
Partner - Strategy&
+39 334 620 9639
francesco.papi@strategyand.it.pwc.com

lacopo Neri

Director - Strategy& +39 333 453 8784 iacopo.neri@strategyand.it.pwc.com

Japan

Kentaro Abe
Director - Strategy&
+81 70-1399-5253
kentaro.abe@pwc.com

Norway/Nordics

Milos Bartosek
Director - Strategy&
+47 95 26 07 58
bartosek.milos@pwc.com

Poland

Piotr Michalczyk
Partner – PwC
+48 502 184 294
piotr.michalczyk@pwc.com

Mateusz Budner

Manager – PwC +48 519 507 229 mateusz.budner@pwc.com

Spain

Manuel Diaz Delgado
Partner - PwC
+34 649 614 535
manuel.diaz.delgado@pwc.com

Switzerland

Thilo Buehnen
Director – Strategy&
+41 79 77 59 222
thilo.buehnen@strategyand.ch.pwc.com

United Arab Emirates

Hazem Galal Partner – PwC +971 50 3878518 hazem.galal@pwc.com

Heiko Seitz Director – PwC +971 50 961 2247 heiko.seitz@pwc.com

United Kingdom

Akshara Chandhok Director - Strategy& +44 79 0016 3433 akshara@pwc.com

United States

Akshay Singh Partner – PwC +1 440-382-8477 akshay.singh@pwc.com

Brian Decker Partner – PwC

+1 313-510-7534 brian.d.decker@pwc.com

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