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2022 Japan Consumer Survey on Next-Generation Automobiles



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Consumers' ideal specifications of PHEV/EV are not an 'empty wish'. It is quite likely that Next-Gen automobile markets will grow in Japan soon.

Summary of the Results

Attitude toward car ownership

- <u>50% of the domestic residents</u> do not own a car <u>while 70% of rural residens</u> assume cars as their <u>daily</u> <u>necessity</u>. Whoever own cars as of now <u>do not terminate car ownership</u>.
- Mobility needs are satisfied with public transportations and privately-owned cars.
- Shared services of cars need to become more accessible, available and easily processed.

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Purchase Behavior

- Cost is the most important factor for purchasing a car (Purchase cost, fuel efficiency, and maintenance costs)
- <u>Japanese minicars</u> are the most popular car segment. Small car segment prevails while <u>SUVs</u> follow.
- ICE and HEV are the most popular choices as of now. PHEV/EV are becoming popular too.
- <u>Pay 2 to 2.5M JPY in cash</u> is the typical purchase behavior. Deffered payment and auto loan are the minor methods.

Consumer profiles &

Powertrain selections

- ICE is more preferred by rural residents while PHEV/EV are slightly more popular among urban dwellers.
- <u>The higher income, the more PHEV/EV</u>. The income level and acceptance level of PHEV/EV are proportional.
- EV is leasted accepted among rental house tenants; Installation of electric chargers are a factor.
- The environmentally friendliness and cheaper TCO of PHEV/EV are viewed favorably.

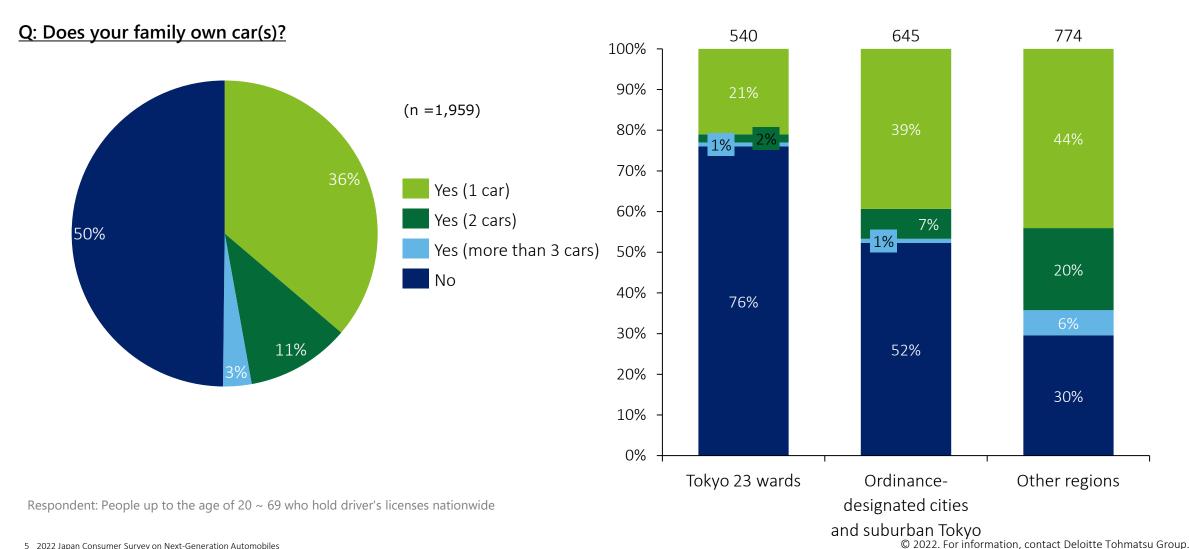
Implications for next-gen automobile market in Japan

- More than 40% of consumers want to buy PHEVs and EVs in the future.
- PHEV/EV purchase are lagged behind due to (1) Expensive purchase price and (2)Unprevailing charging spots
- Ideals conditions to buy PHEV/EV; (1) Up to $\underline{2.5M\ JPY}$ to buy (2) $\underline{>=30\%}$ of resale value 5 years later (3) $\underline{Japanese\ minicar}$, Compact car segments (4) $\underline{>=500km}$ mileage at a charge (5) Home electric charger (6) \underline{Less} $\underline{than\ 10\ mins}$ for quick-charging on the go

Attitude toward 'Car ownership'

50% of the domestic residents do not own a car, while 70% of rural residents own cars; car ownership is more pronounced in rural areas.

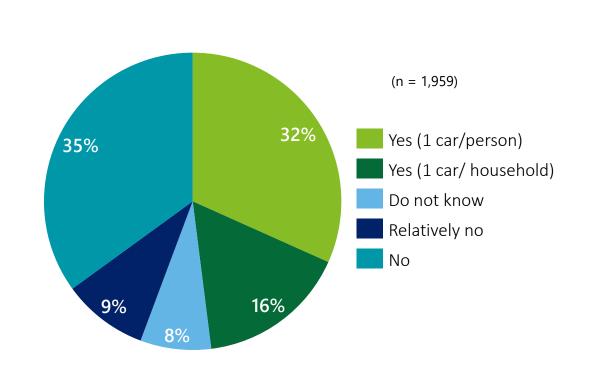
Car Ownership

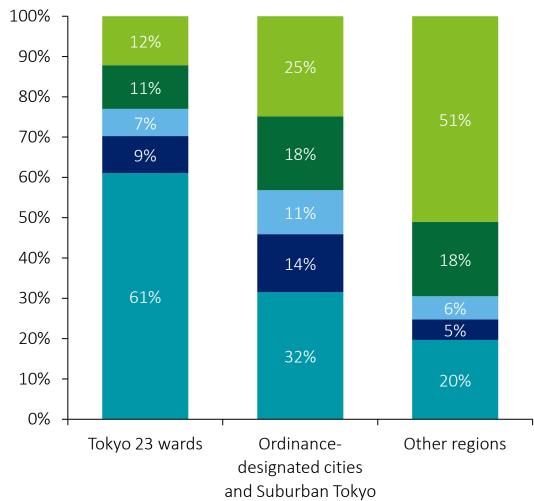


Most rural residents assume a car as a daily necessity while only a half do so nationwide.

Needs for cars

Q: Do you need car(s)?

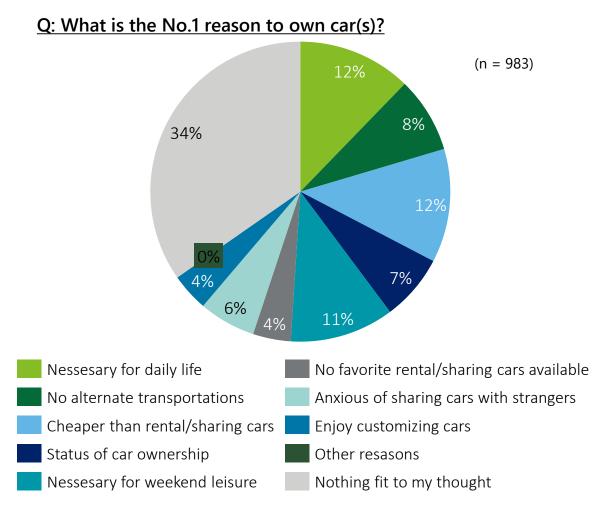


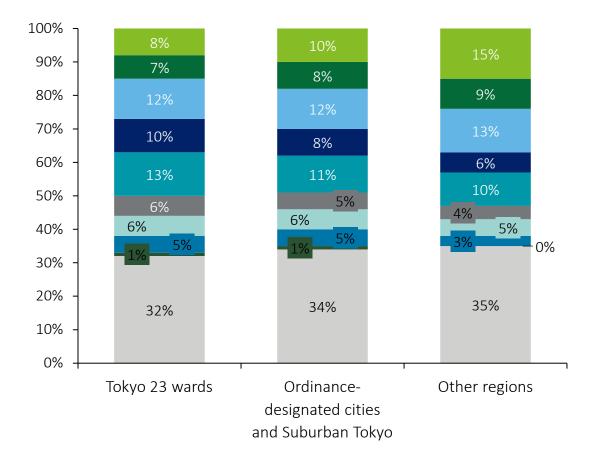


Respondent: People up to the age of 20 \sim 69 who hold driver's licenses nationwide

Rural residents lack means of transportation and own cars out of daily necessity, while urban residents own cars for other reasons.

Reasons to own car(s)

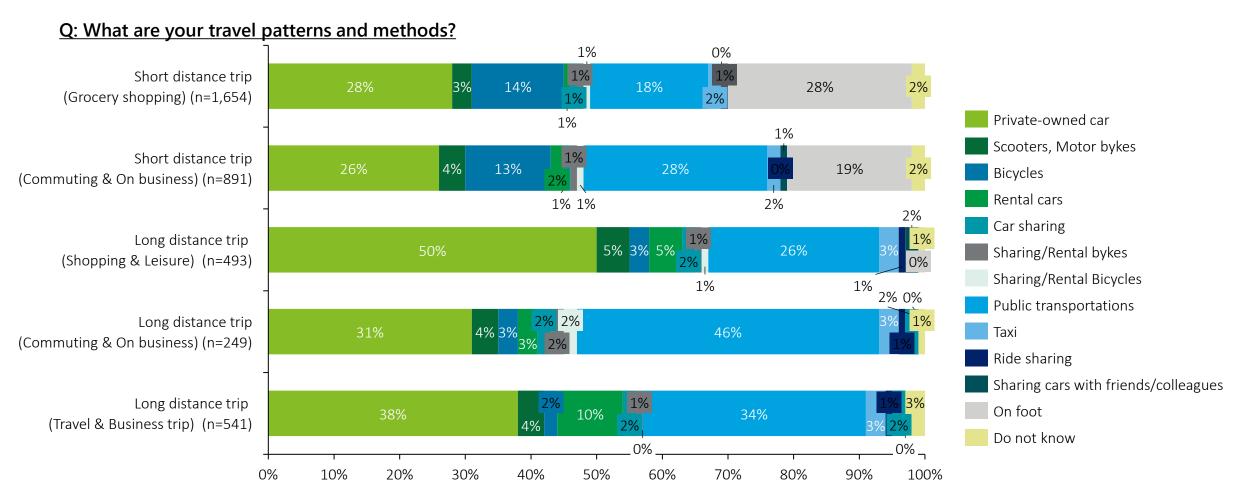




Respondent: People who currently own at least one car in their household

Public transportation and private-owned cars fulfill mobility needs; Car Sharing & Car Rental Services are minor choices for many people in Japan.

Mobility needs & methods



Respondents: Those who answered their travel patterns and means of travel (* the number of respondents differs depending on their travel patterns)

Car owners intend to keep the number of cars owned as is.

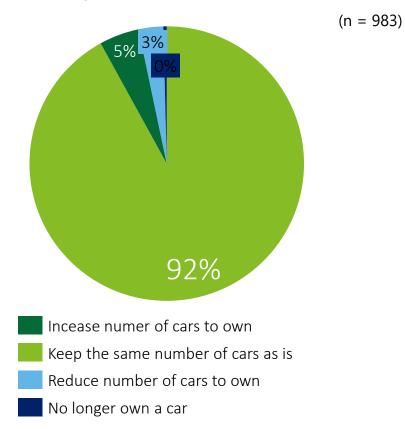
100%

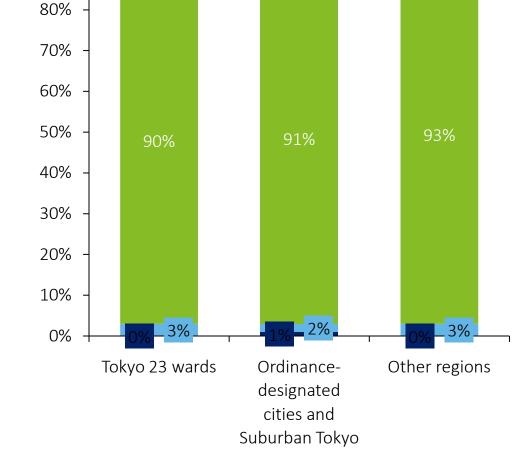
90%

7%

3 Years' plan of Car ownership

Q: What is your next 3 years' plan to own car(s)?





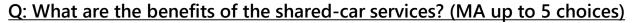
6%

Respondent: People who currently own at least one car in their household

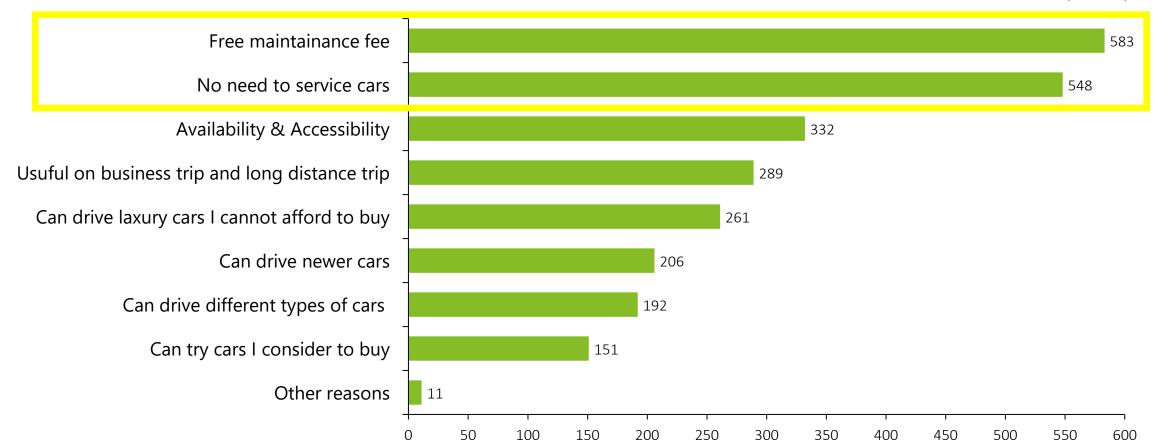
4%

Free cost & maintainance fees are recognized as the benefit of car sharing and car rentals

Benefits of car sharing and car rentals



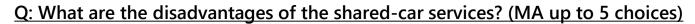
(n = 980)



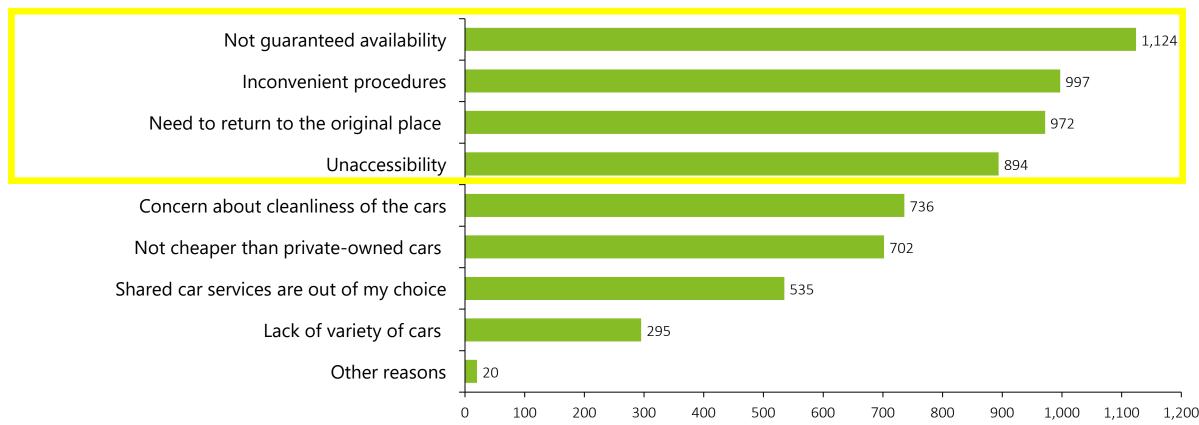
Respondents: Among consumers up to the age of 20 ~ 69 who hold a driver's license nationwide, those who answered that car-sharing services are beneficial

Lack of availability & inconvenient procedures are recognized as disadvantages of the shared car services

Disadvantages of "shared services" for cars





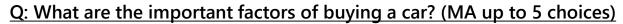


Respondents: Among consumers up to the age of 20 ~ 69 who hold a driver's license nationwide, those who answered that car-sharing services have disadvantages

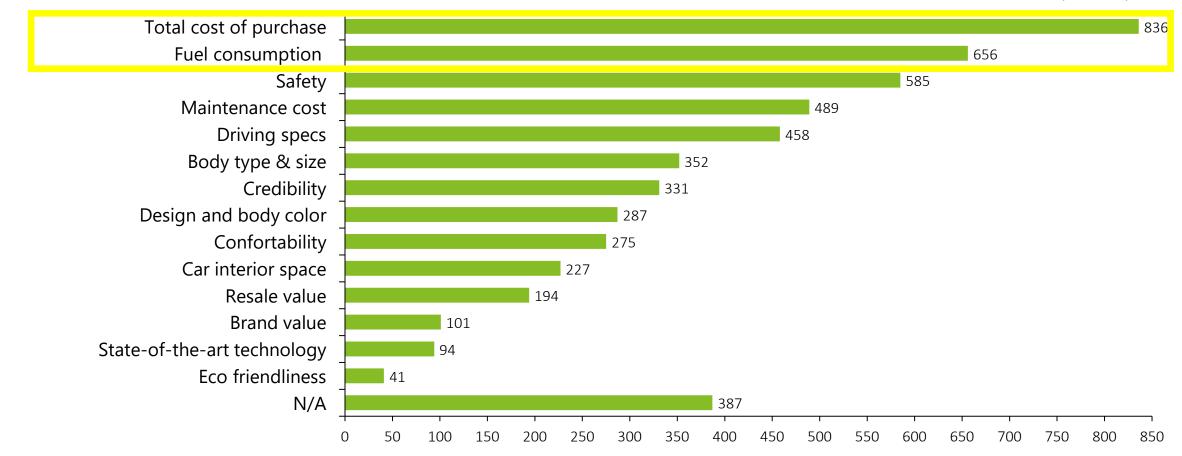
Purchase behavior

Purchase price is the most important factor. In addition, TCO, such as fuel consumption and maintenance fees also weighed heavily.

Important factors of purchasing a car



(n = 1,062)

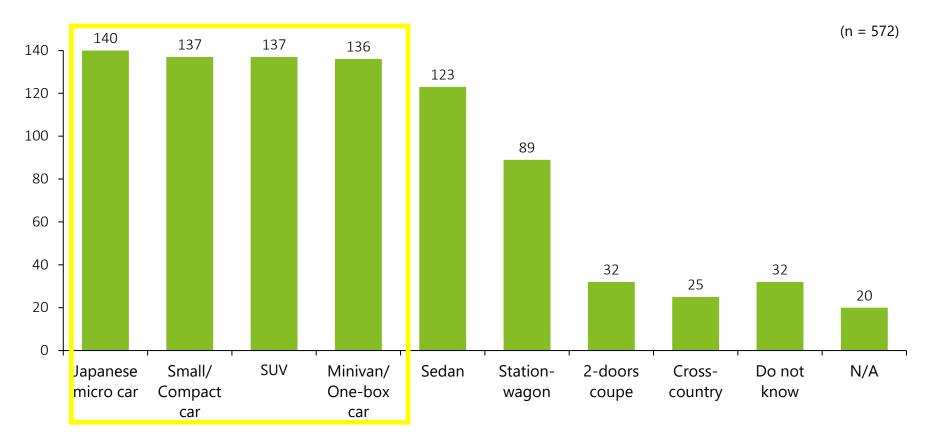


Respondent: Among consumers up to the age of 20 ~ 69 who hold a driver's license nationwide, those who plan to purchase a car in the future

Japanese micro-car is the most popular. Small car(≒A seg) and SUVs/minivans follow. Japanese consumers prefer small cars.

Body type of a car to buy

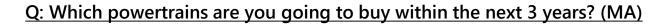
Q: Which body type(s) of cars do you consider to buy within the next 3 years? (MA up to 3 choices)



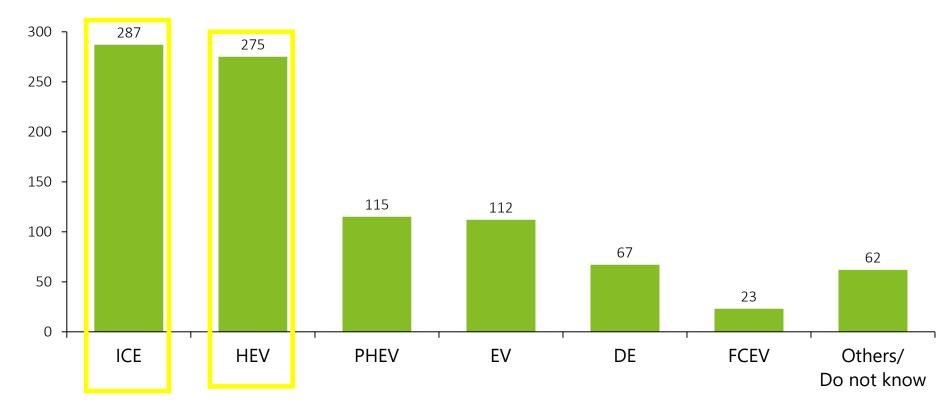
Respondent: Among consumers up to the age of 20 ~ 69 who hold a driver's license nationwide, those who plan to purchase a car within the next 3 years

ICE and HEV are the choices as of now, while PHEV and EV are becoming popular.

Selection of the Powertrains



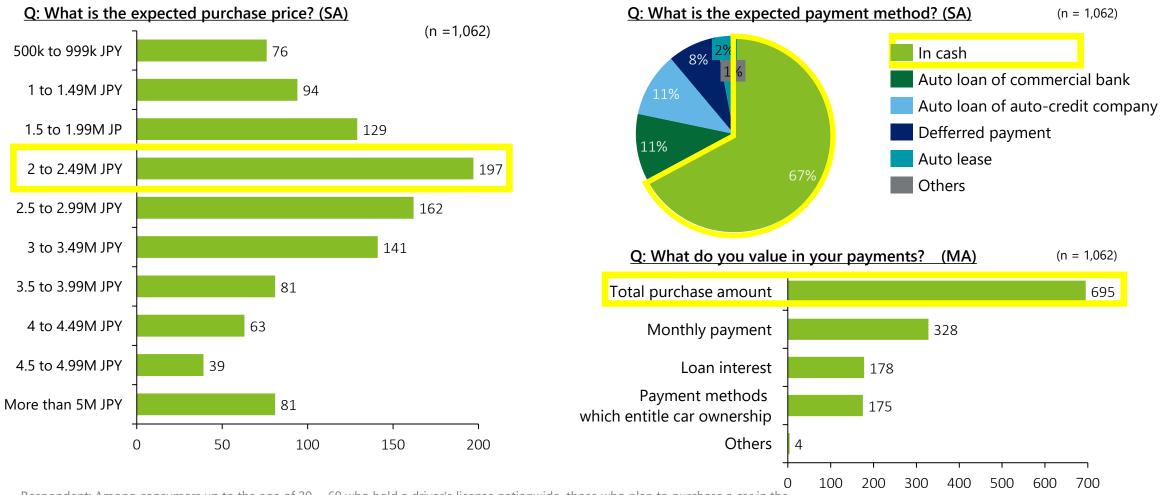
(n = 572)



Respondent: Among consumers up to the age of 20 ~ 69 who hold a driver's license nationwide, those who plan to purchase a car within the next 3 years

'2 to 2.5M JPY in cash' is the typical budget payment method. Monthly payment and interest rates are less concerning than the total purchase amount.

Budget and payment method

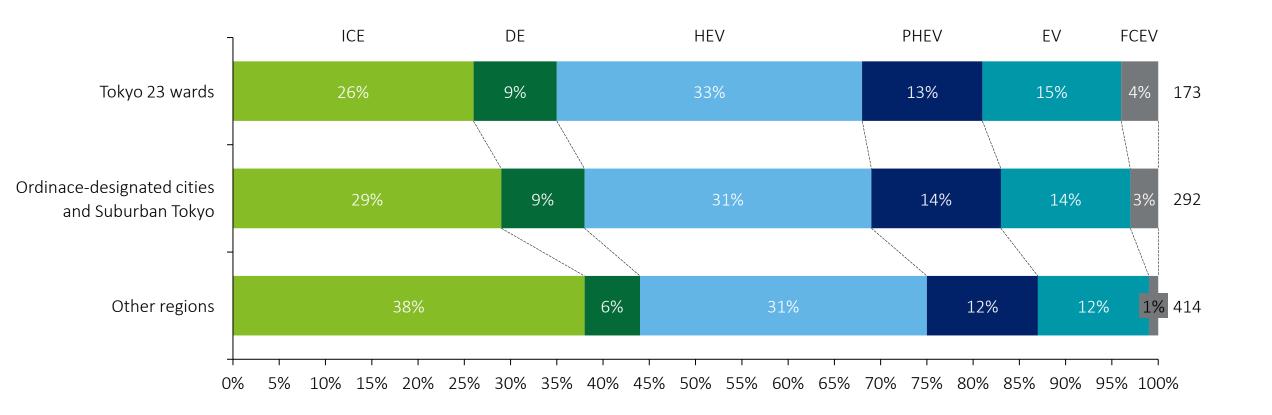


Respondent: Among consumers up to the age of 20 ~ 69 who hold a driver's license nationwide, those who plan to purchase a car in the future

Consumer profiles and powertrain selections

ICE is more popular in rural areas while PHEV/EV are slightly more accepted in urban areas.

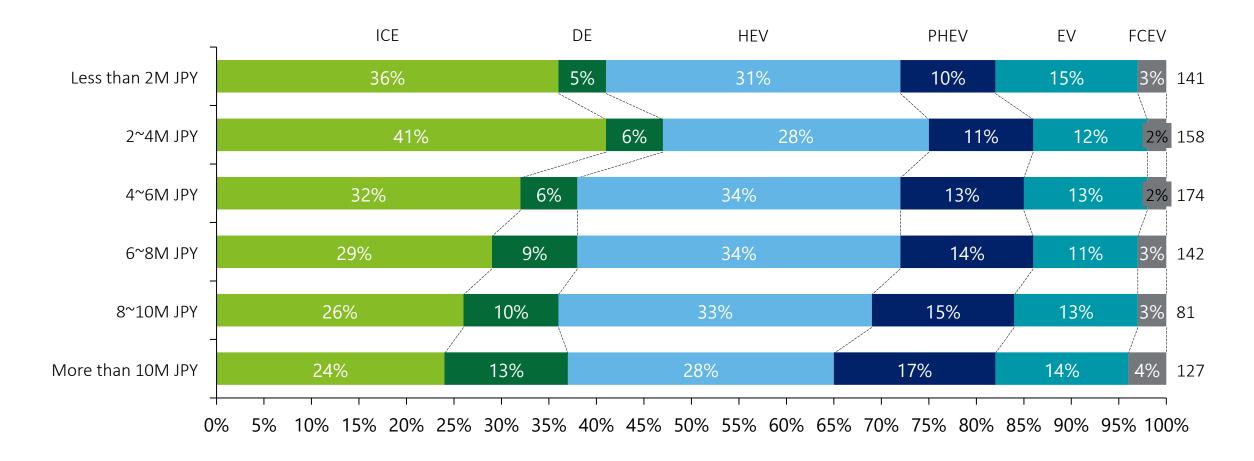
Powertrain choices and resident areas



Respondent: Among those who plan to purchase a private car in the future, those who answered their own attributes (area of residence)

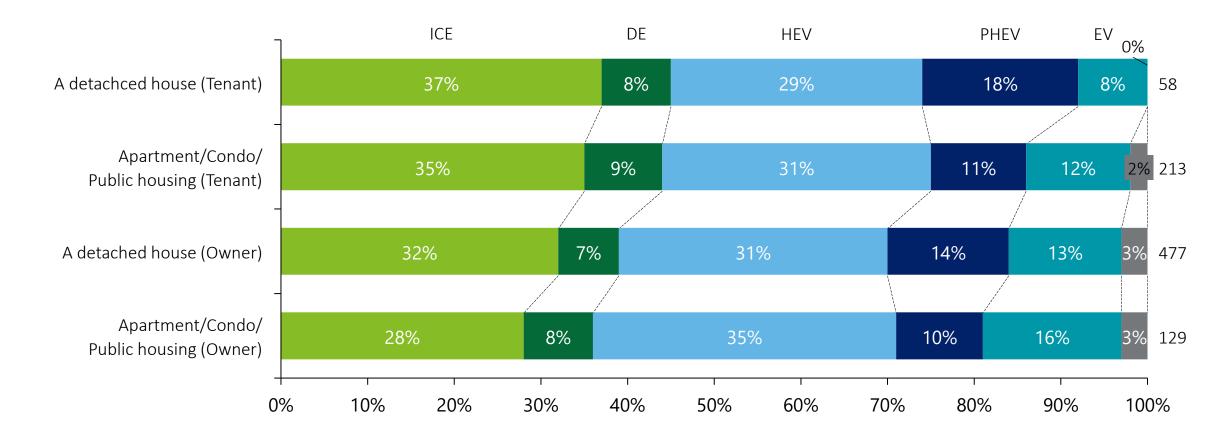
Higher incomes, more PHEV/EVs. Subsidies are widely available for purchase of EVs but the prices would be still not affordable for lower income earners.

Powertrain choices and income levels



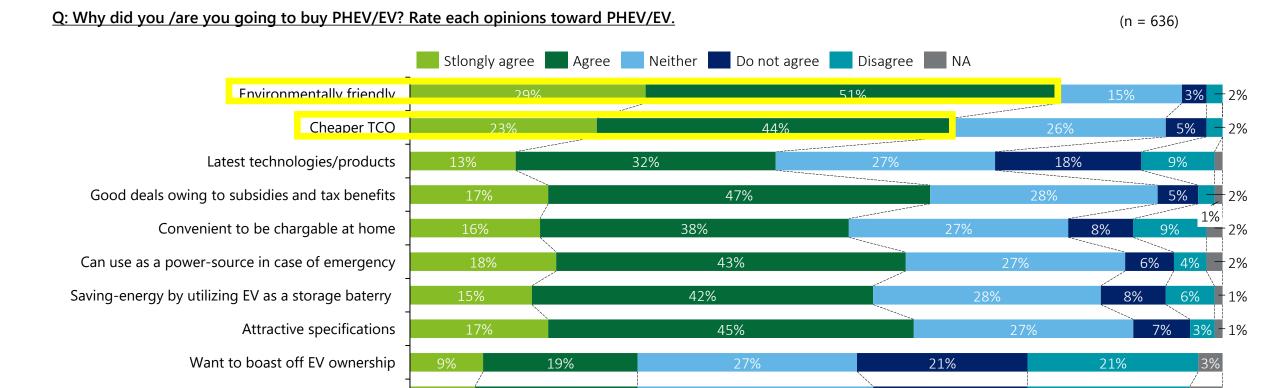
Ratio of EV purchasers is relatively low among rental-house tenants. Difficulty to install the electric charger at home would be an obstacle for them to buy EV.

Powertrain choices and resident status



Environmentally friendliness and cheaper TCO of PHEV/EV are highly appreciated.

Reasons to select PHEV/EV



20%

20%

Respondent: Among 20 ~ 69 year-old consumers nationwide who hold a driver's license, those who answered that they would like to purchase PHEVs/EVs someday (including those whose timing is undecided)

20%

20%

4%

19%

19%

People around me hold Evs

Have favorite models/designs of Evs

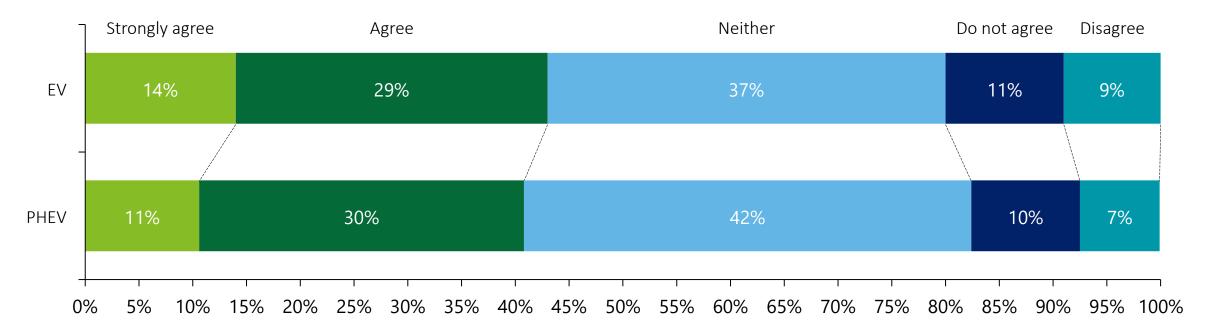
4 Implications for next-gen automobile market in Japan

40% want to buy PHEVs and EVs someday, which shows potential growth of the market.

Intention to buy PHEV/EV in the future

Q: Are you interested in an EV/PHEV and do you want to buy it someday?

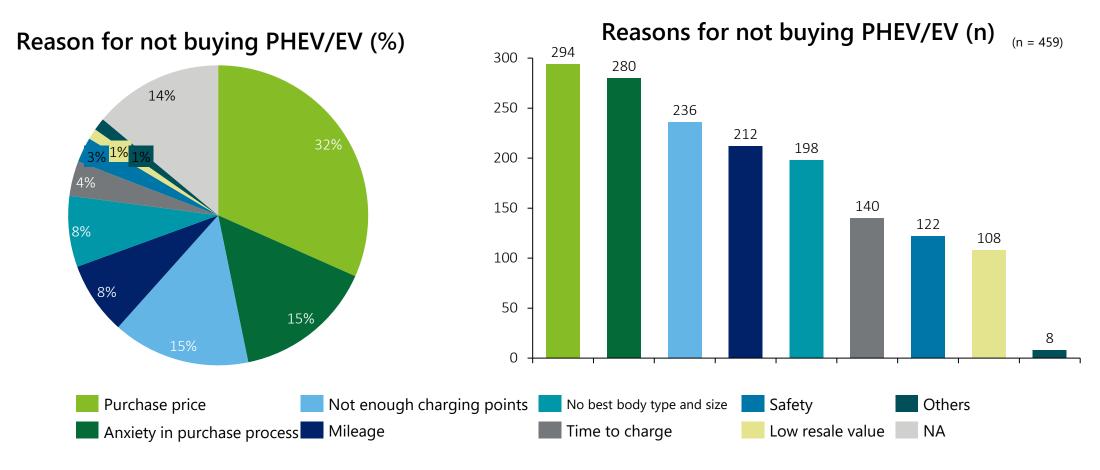
(n = 1,062)



Expensive purchase prices and underdeveloped charging infrastructure are the main concerns to buy PHEV/EV in Japan.

Concerns

Q: Why are PHEV/EV/FCEV not included in your purchase list? (MA)

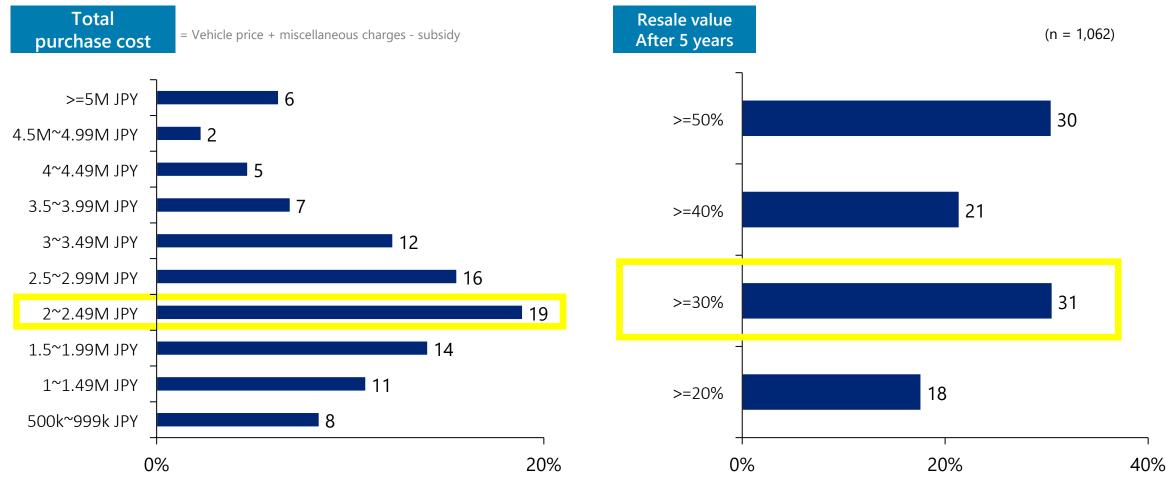


Respondents: Those who are planning to purchase their own cars in the future and exclude PHEVs and EVs from the candidates

The ideal PHEV/EV is less than 2.5M JPY and its resale value is maintained at over 30% after 5 years of purchase.

Ideal PHEV/EV (1/3)

Q: What are the ideal specifications of PHEVs and Evs which makes you consider purchasing it?

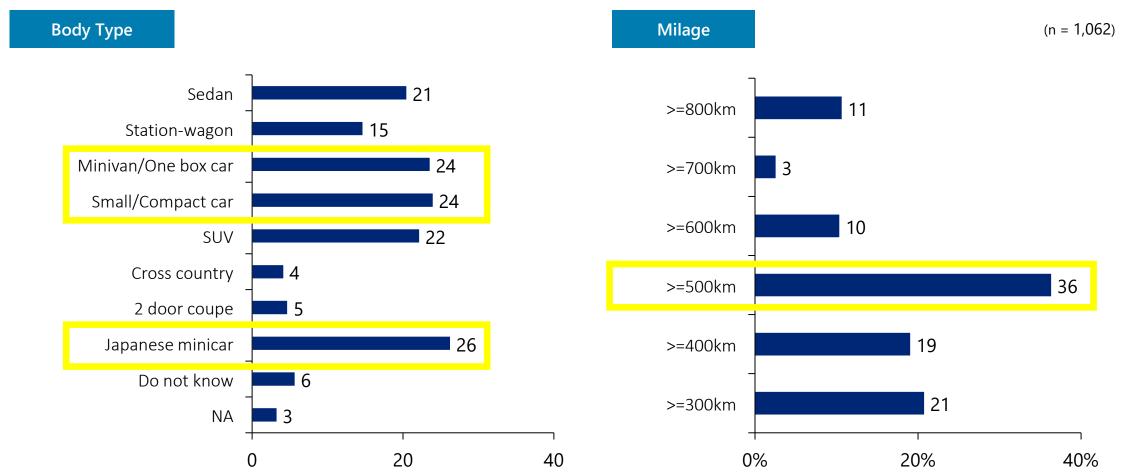


Respondent: Those who plan to buy a private car in the future

Body type of a car to buy is Japanese minicar/compact car, while ideal milage per charge is 500 km or more.

Ideal PHEV/EV (2/3)

Q: What are the ideal specifications of PHEVs and EVs that makes you consider purchasing it?

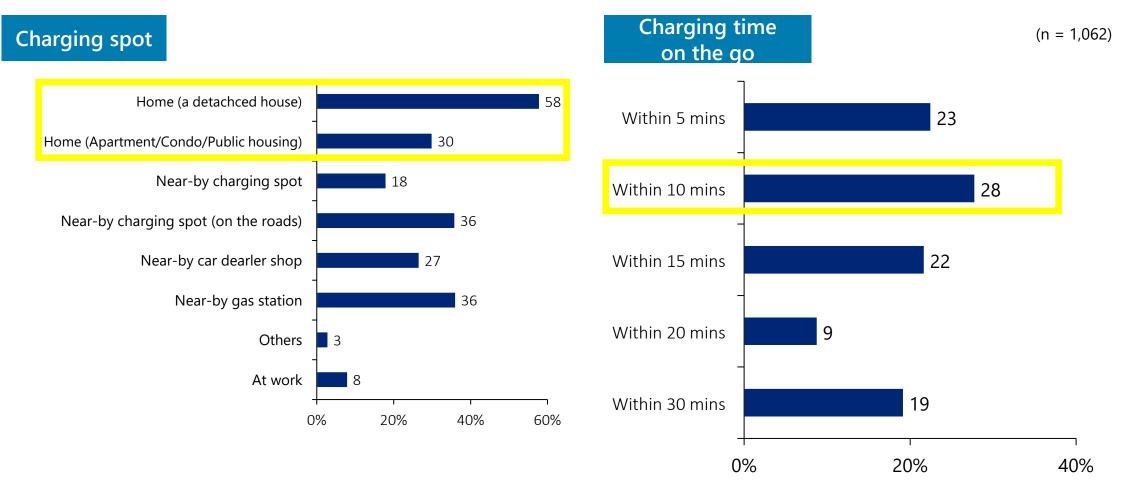


Respondent: Those who plan to buy a private car in the future

The ideal charging spot is at home and 10 minutes or less for quick-charging on the go.

Ideal PHEV/EV (3/3)

Q: In what kind of charging environment do you consider purchasing PHEV or EV?

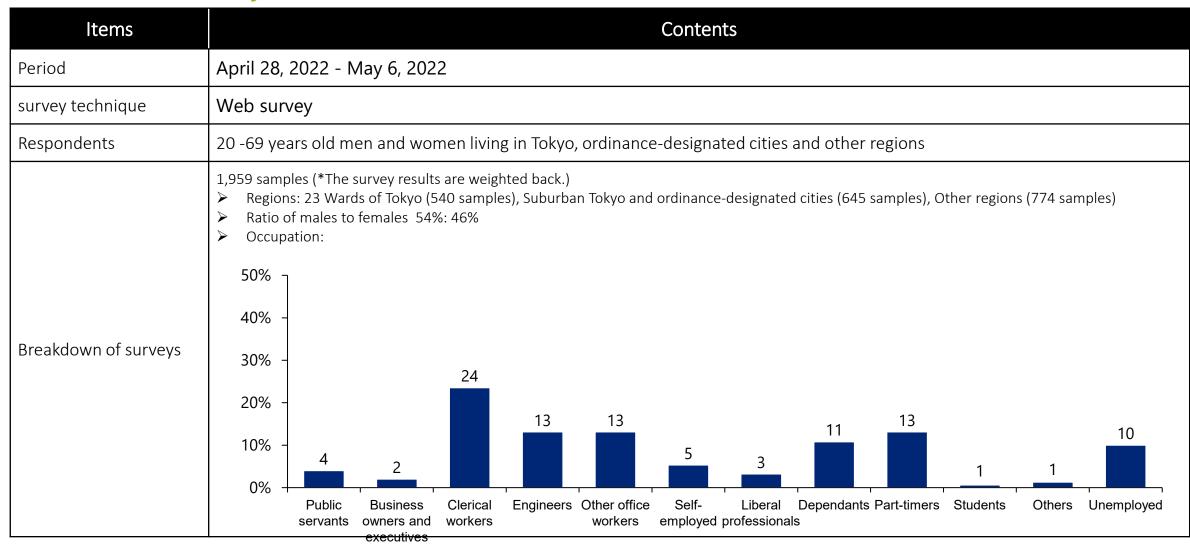


Respondent: Those who plan to buy a private car in the future

Survey Outline

[Survey outline] 1,959 respondents living in Japan

Outline of the survey





Contacts

Hisayoshi Takahashi

Deloitte Touche Tohmatsu LLC Automotive Sector Leader Partner hisayoshi.takahashi@tohmatsu.co.jp

Hirotaka Kanno

Deloitte Tohmatsu Consulting LLC automotive sector partner hikanno@tohmatsu.co.jp

Maiko Hara

Deloitte Tohmatsu Corporate Solutions LLC Research & Knowledge Management / Automotive Sector maiko.hara@tohmatsu.co.jp

Kazuki Fukudome

Deloitte Tohmatsu Consulting LLC Automotive Sector Leader Partner kfukudome@tohmatsu.co.jp

Kevin Ohkohchi

Deloitte Tohmatsu Consulting LLC (On assignment to Deloitte Southeast Asia) APAC Automotive Supplier Leader Partner keohkohchi@deloitte.com



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