

# Korea's plan to accelerate the transition to zero-emission vehicles

to achieve carbon neutrality in the transportation sector

Nov. 2, 2021



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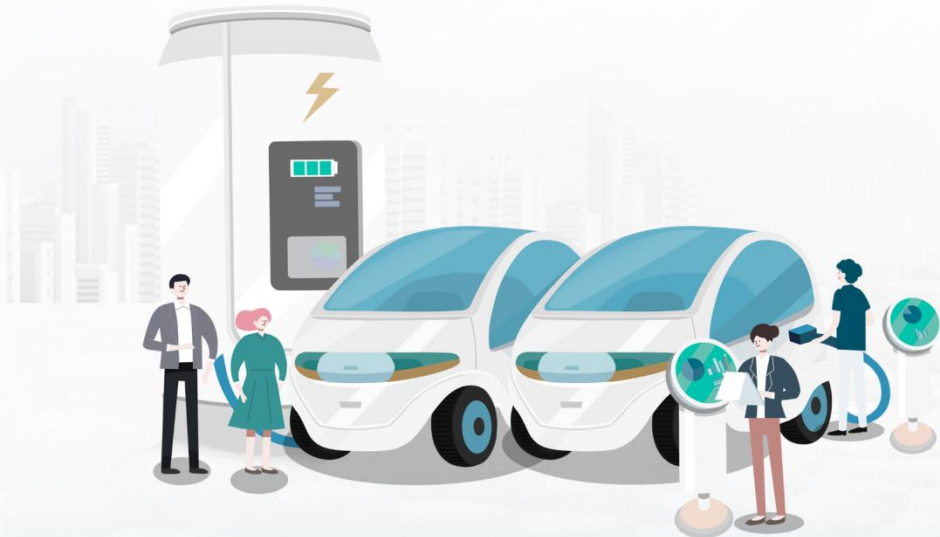
Background

II

Promotional Strategies

III

Detailed Tasks





## Environment

Responding to climate change and PM



13.5 % of GHG

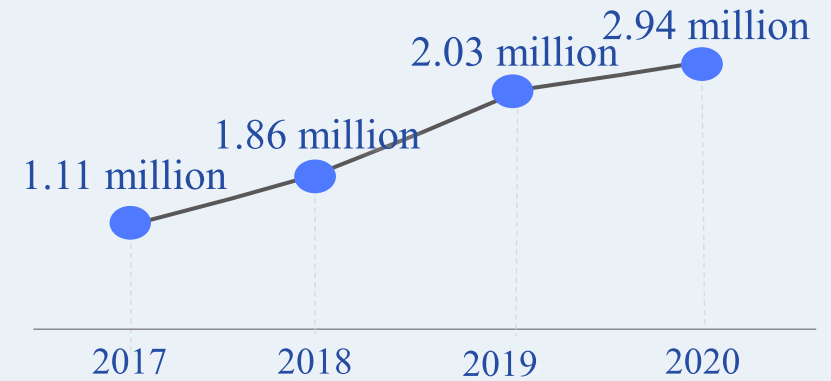


13.8 % of PM



## Economy

Leading the global automobile market

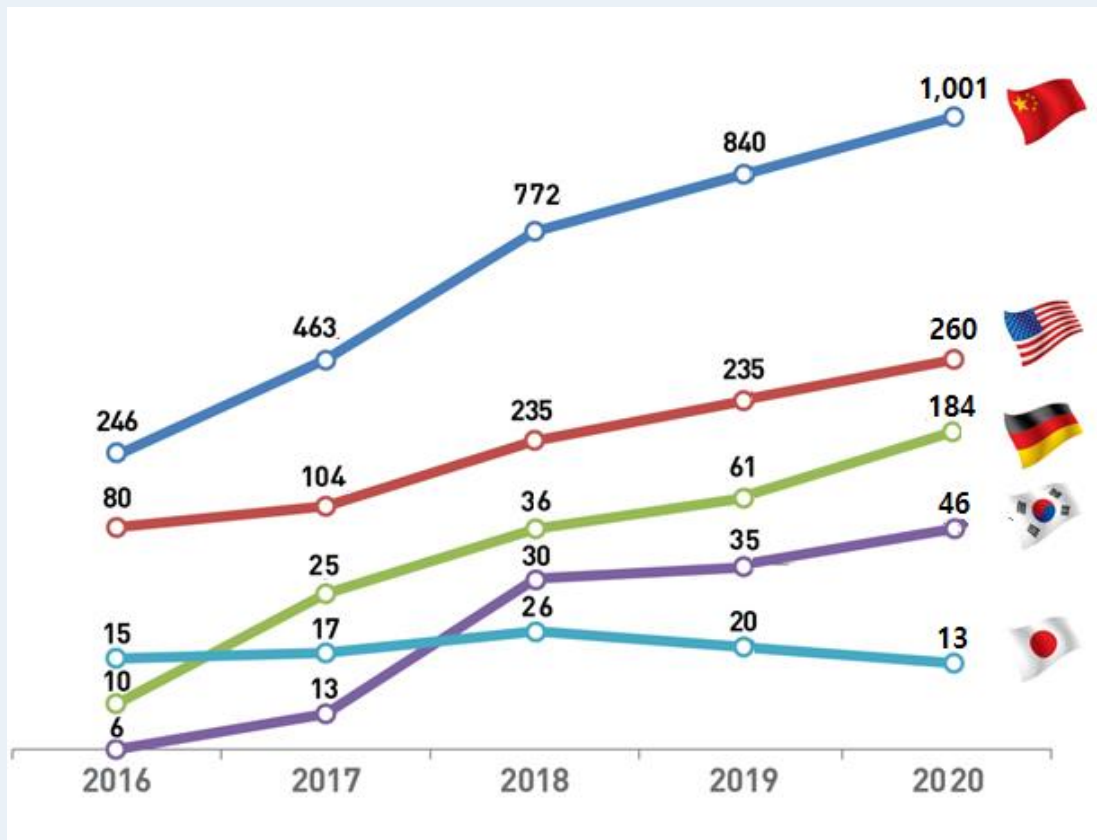


[No. of electric vehicles sold worldwide]

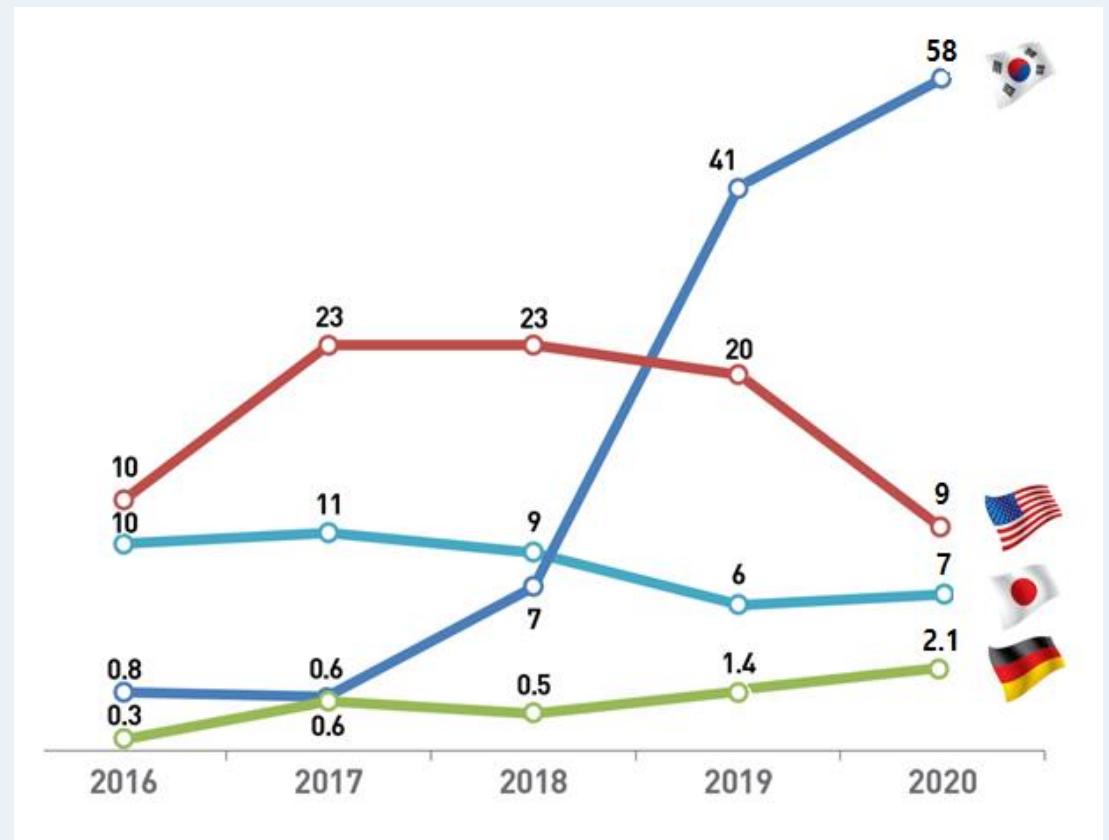
“Announcement of the updated NDC plan”

“Carbon neutrality by 2050”

## Electric vehicles: 8th in the world (2020)



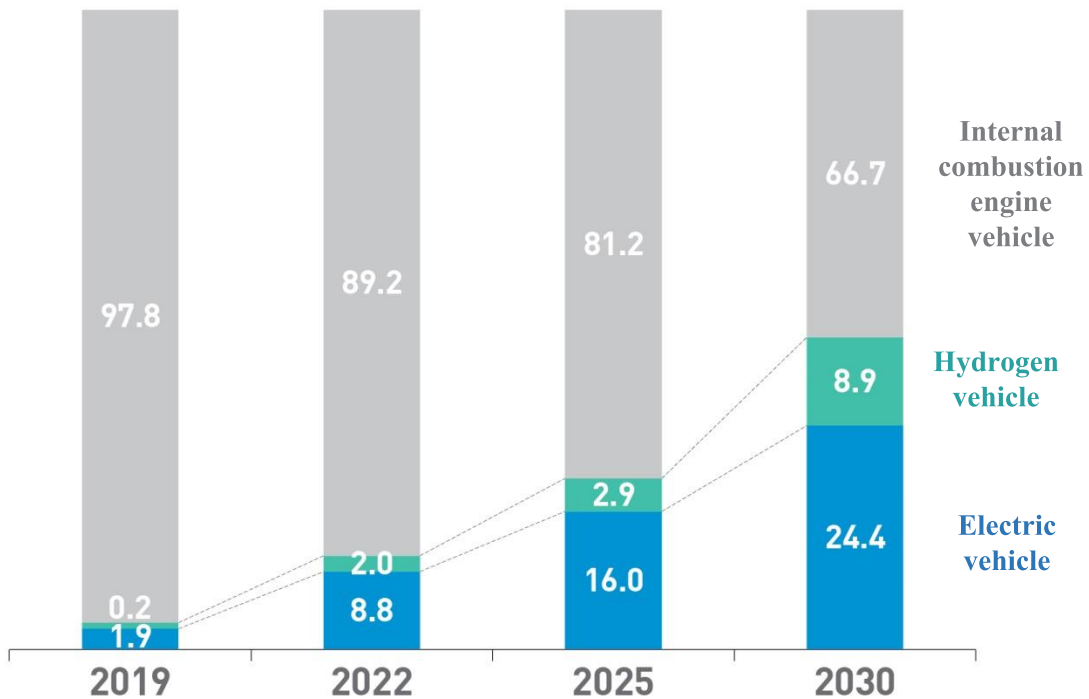
## Hydrogen vehicles: 1st in the world (2020)



## Vision

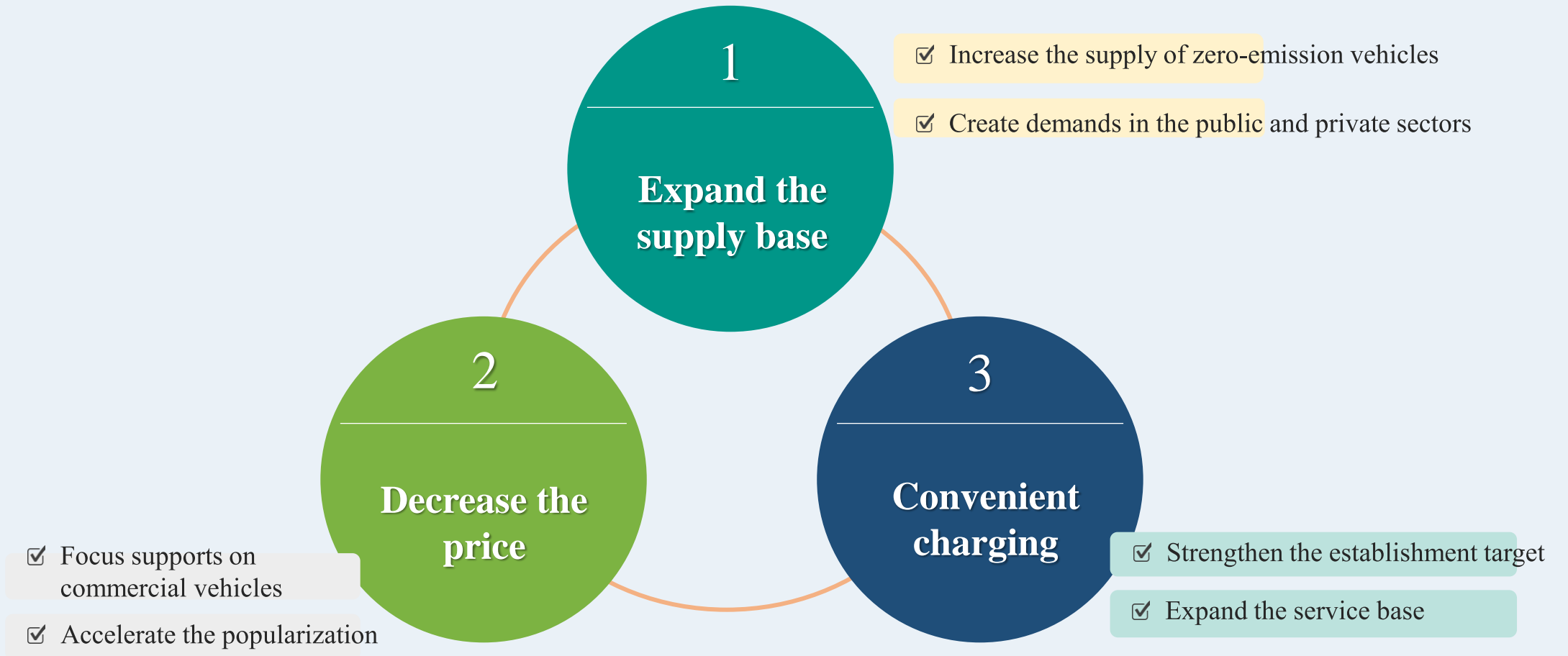
Acceleration of carbon neutrality by 2050 by strengthening the base for popularizing zero-emission vehicles

(Unit: %)



## Cumulative sales targets for electric/hydrogen vehicles

	Sep. 2021	2022	2025	2030
 Electric vehicle	207,000	433,000	1.13 million	3.62 million
 Hydrogen vehicle	17,000	67,000	200,000	880,000
		Green New Deal goal		Updated NDC





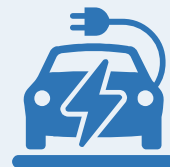
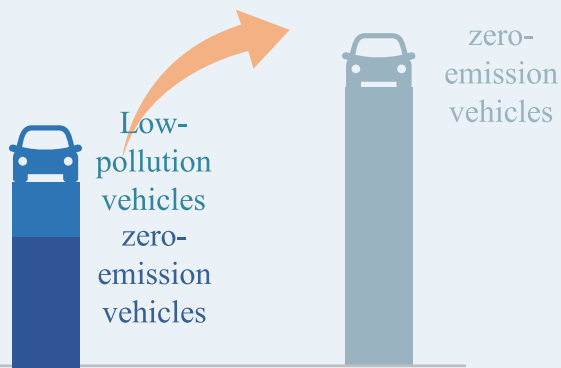
### Supply goal

Present



From  
2023

Increase the target gradually and reorganize centering on the zero-emission vehicles



### Target vehicle models

Present



From  
2023

Electric vehicle,  
hydrogen  
vehicle,  
plug-in vehicle,  
hybrid vehicle,  
gas vehicle,  
gasoline vehicle

Electric vehicle,  
hydrogen  
vehicle,  
plug-in vehicle,  
hybrid vehicle,  
gas vehicle,  
gasoline vehicle



### Ensure effectiveness

Present



From  
2022



Announce the  
performance



Pay contributions  
in the event of under-performance

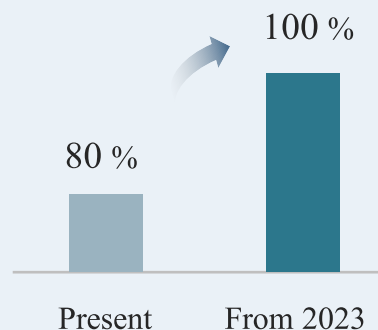
Over-performance can be brought over  
to next month or traded

\*Revision of the Clean Air Conservation Act



### Mandatory zero-emission vehicle purchase and rental requirements for the public sector

- Increase the mandatory purchase ratio



- Change vehicles for the heads of organizations

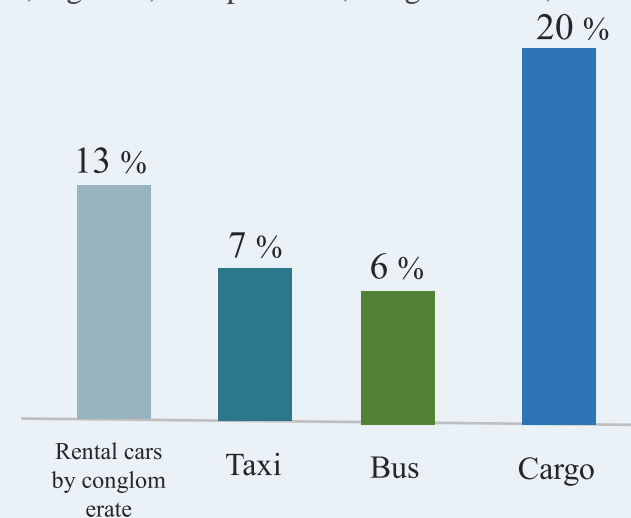


### Purchase target system for the private sector

- Apply a mandatory requirement on businesses that possess large numbers of vehicles

\* Vehicle rental businesses, logistics, transportation, conglomerates, etc.

- Purchase target in 2021



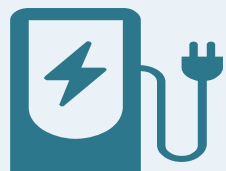




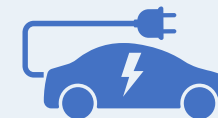
### Campaign overview



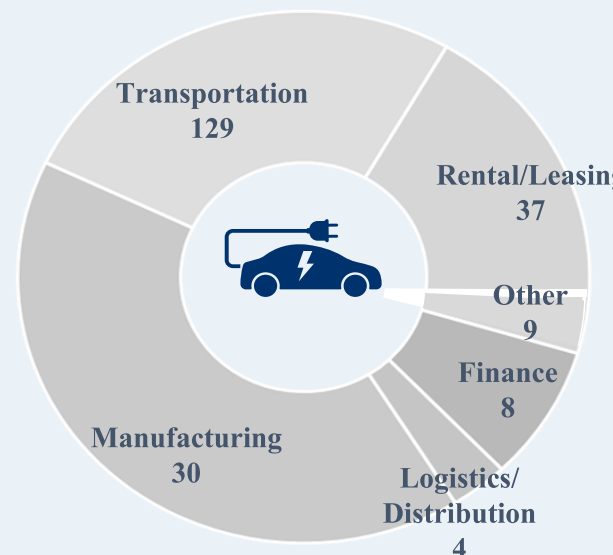
- (Companies) Declare 100% transition to electric/hydrogen vehicles by 2030



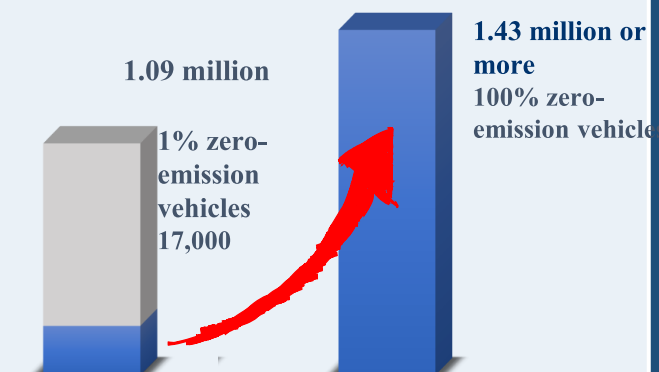
- (Ministry of Environment) Support purchase subsidies, installation of charging stations



### Progress



**217 companies have applied to join**



**100% transition to zero-emission vehicles**

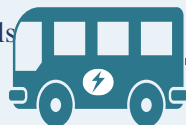


## Focus supports on zero-emission commercial vehicles

- Introduce new subsidy schemes in line with newly released car models

\*Electric & hydrogen high-floor buses, medium and large electric cargo trucks, etc.

are scheduled to be released in 2022



- Encourage performance improvement through graded support by performance requirements

\* Policy support → Graded support based on mileage and electricity usage



## Accelerate the popularization of electric vehicles

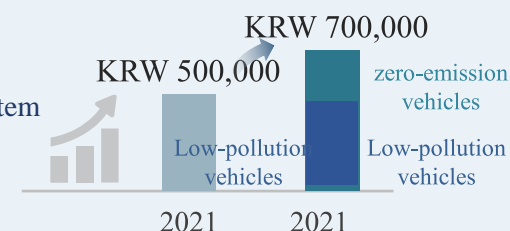
- Limit subsidies for high-cost vehicles

\*Adjust the maximum amount for support exclusion



- Strengthen incentives for the supply target system

\*Add incentives for the zero-emission vehicle target achievements

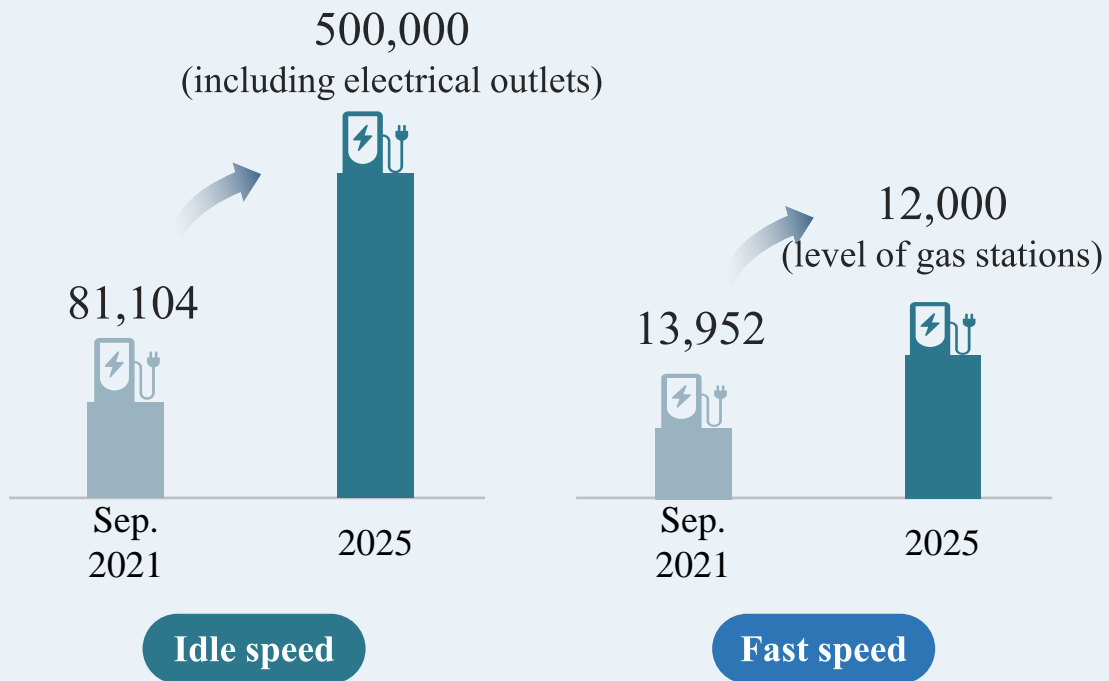


- Provide additional price discount subsidies





## Establish electricity charging stations

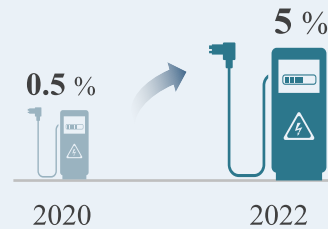


## Relieve charging-related inconveniences

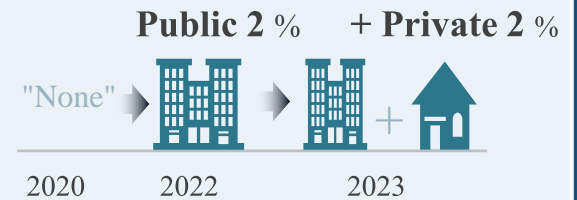
### Living bases

Idle speed/electrical outlets

#### ■ New buildings



#### ■ Existing buildings

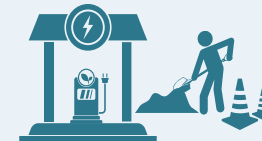


### Travel bases

Fast/super-fast charging

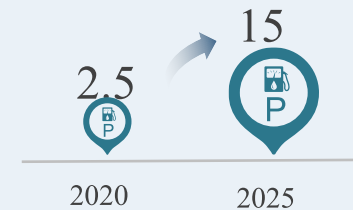
#### ■ Travel routes

\*Focus on installing in low service areas



#### ■ Expressway rest areas

\*Increase the number of chargers per rest area





### Strategic location



- Big data analysis and allocation in optimal locations

\*Utilize the number of electric cars, charging amount, and geographical information



- A mid- to long-term roadmap for the establishment of charging stations

\* Devise a five-year plan based on analysis of characteristics, demand, and pattern for each area



### Service expansion



- Provision of real-time information and easy payment methods

\*Navigation information linked with Kakao and T-Map



- A speedy repair system

\* Disclose information on malfunctioning charging stations and reflect it in the evaluation of charging station service businesses



### Support for new technology



- Wireless charging demonstration project

\*Logistics sector such as delivery services



- Demonstration of exchangeable battery for two-wheeled vehicles

“Thank you for your attention.”

