

# ACCELERATION OF GX THROUGH SMART CITIES

Special Advisor to the Prime Minister

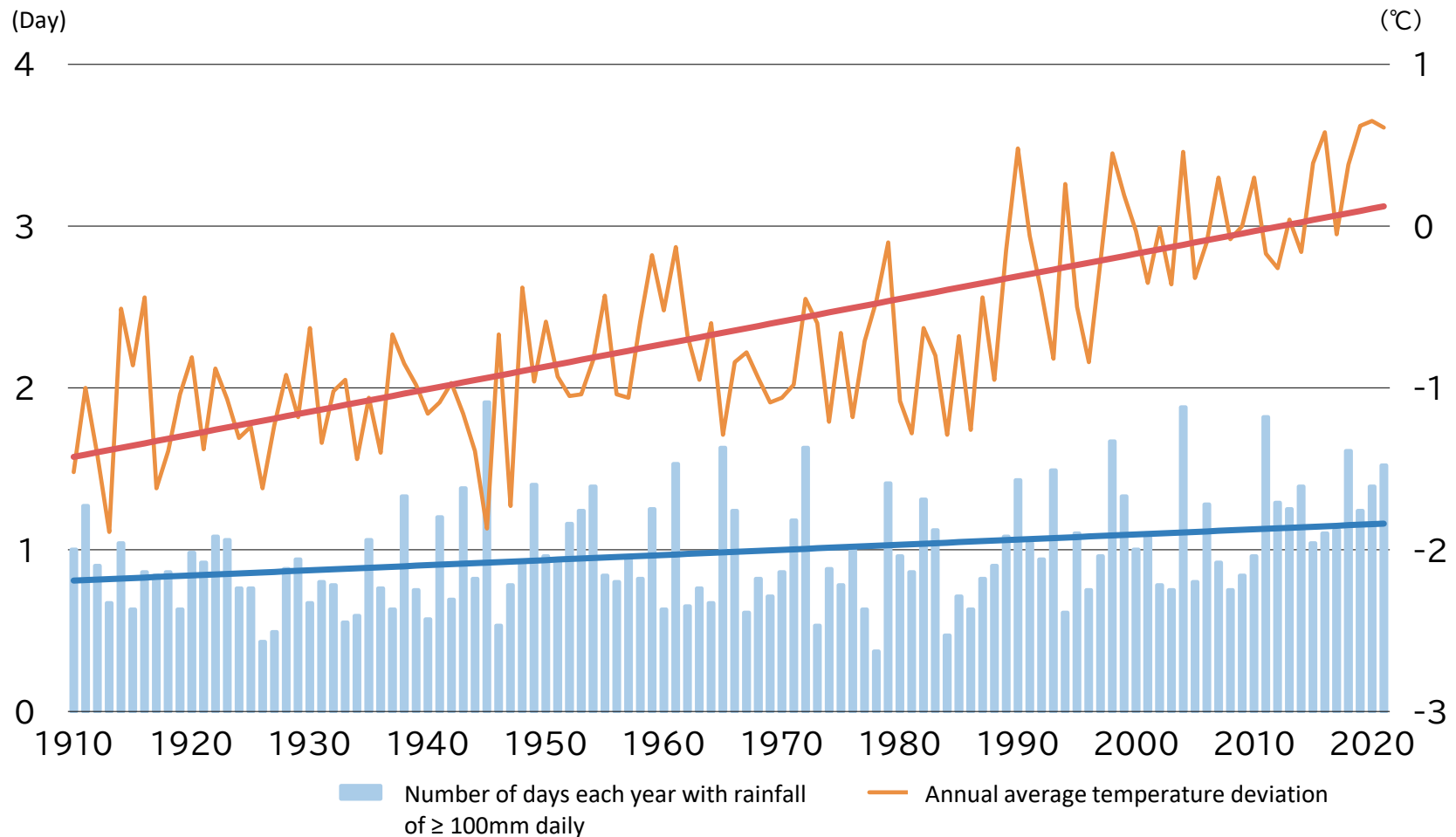
Dr. MORI Masafumi

29<sup>th</sup> October, 2024



# WORLD CLIMATE CHANGE

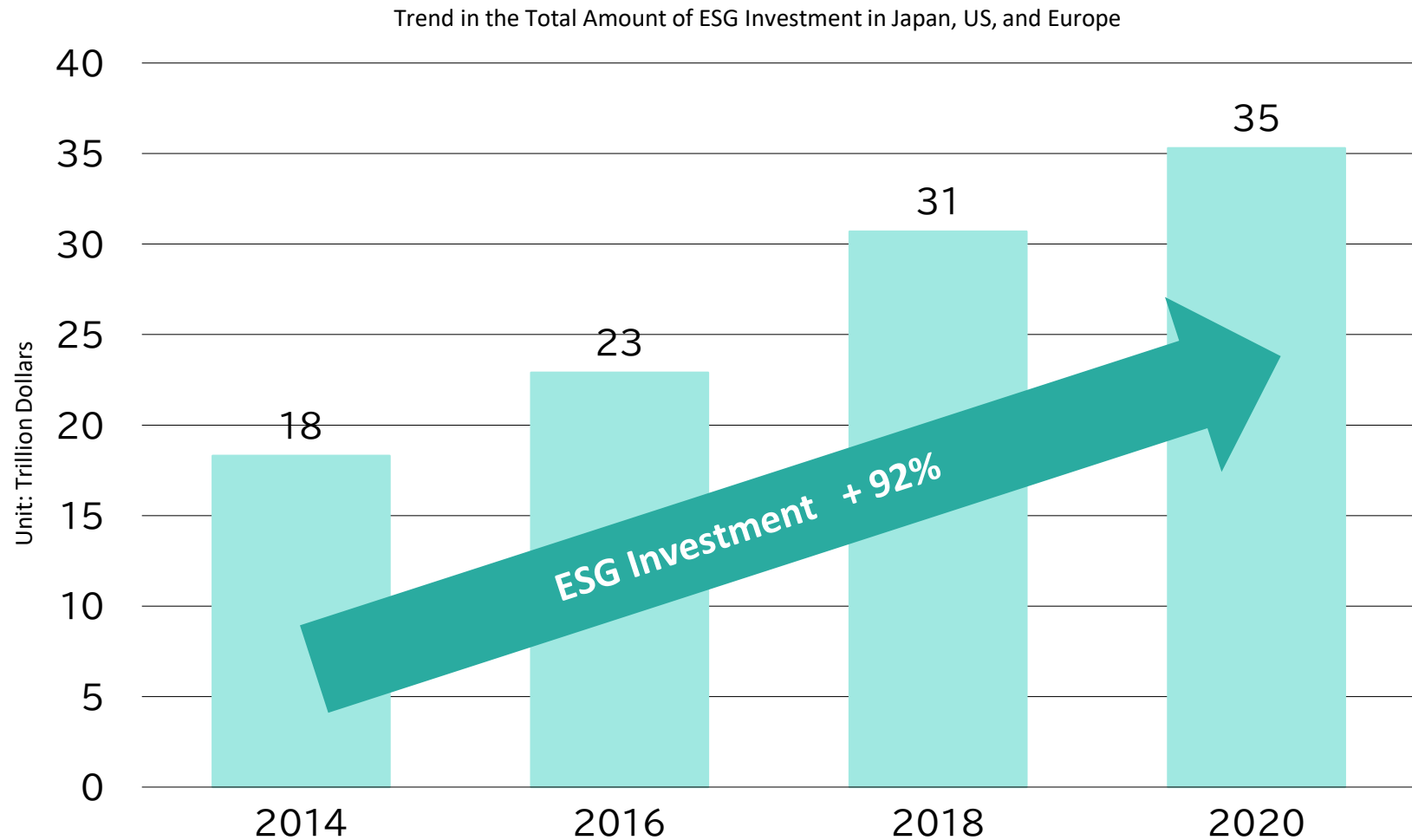
- Average temperature around the world is currently rising every year, with Japan also on the rise similarly. The annual frequency of accompanied heavy rainfall is on the rise, and disasters are becoming more severe.



Created from various data/information of Japan Meteorological Agency

# RISING INTEREST IN GX

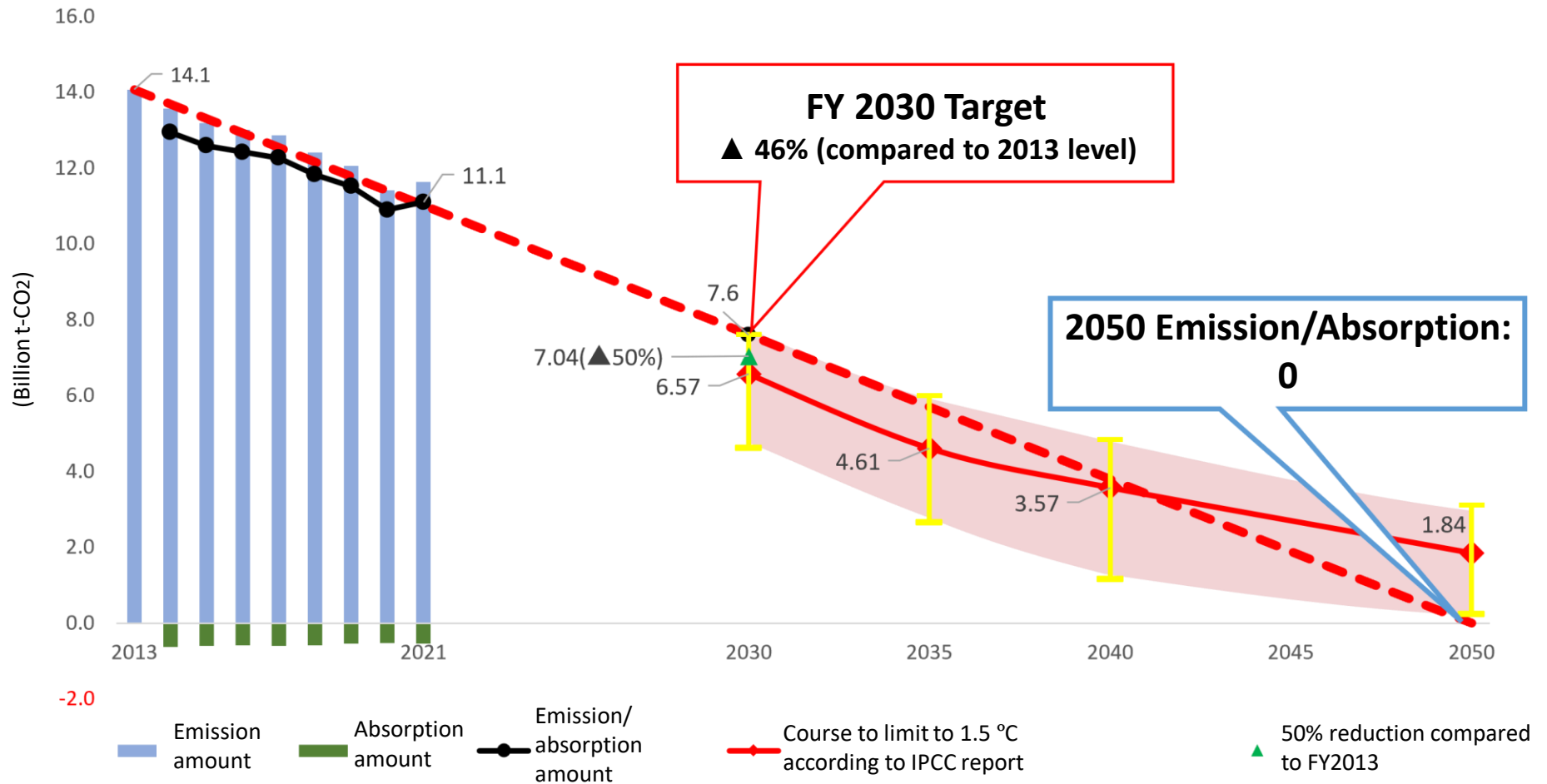
- The total amount of ESG investment is increasing. It is said that decarbonization in Asia will require an investment of approximately 30 trillion dollars, and the move towards decarbonization will give rise to a huge market.



Created from FY2021 Annual Report on Energy (Energy White Paper 2022)

# JAPAN'S CHALLENGE TOWARD NET ZERO BY 2050

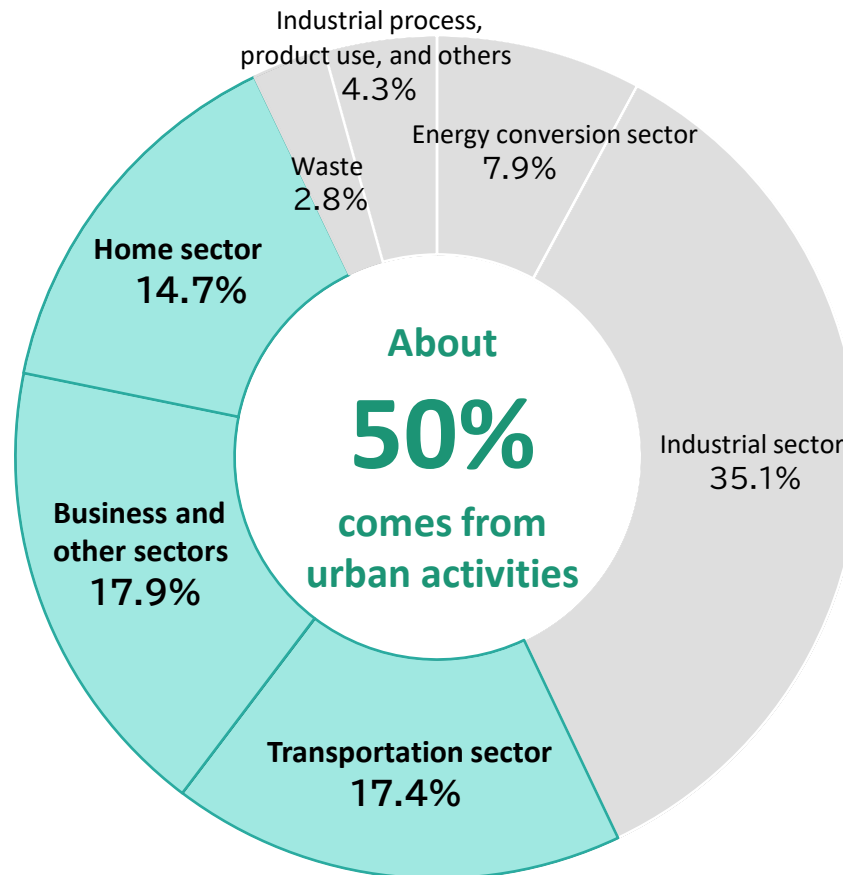
- In Japan, our Prime Minister announced a national target to achieve net zero greenhouse gas emission by 2050 to realize CN.



Created from FY2023 Annual Report on Energy (Energy White Paper 2024)

# SMART CITY IMPLEMENTATION FOR PROMOTING CN INITIATIVES

- According to 2021 data, about 50% of CO2 emission of our country comes from cities, therefore smart city implementation is directly related to CN.



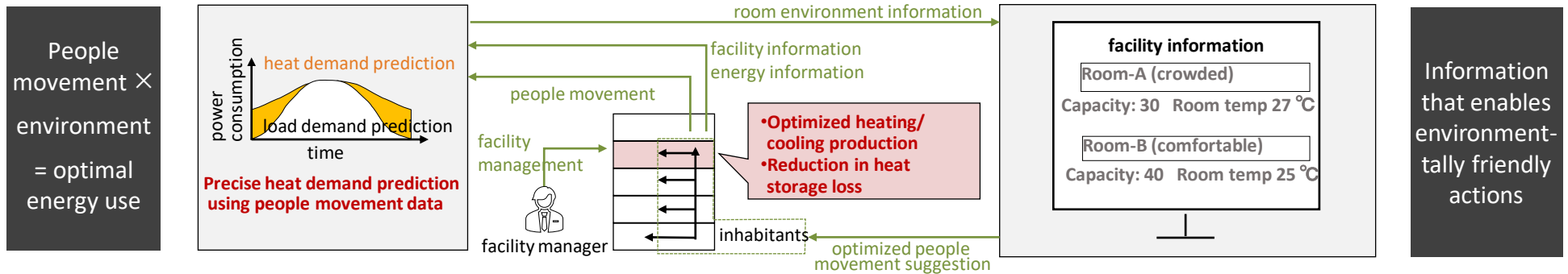
**Total emission amount 1.064 million tons**

Created from 2021 Japan greenhouse effect gas emission amount data, Greenhouse Effect Gas Inventory Office, National Institute for Environmental Studies



# INITIATIVES FOR TAKANAWA GATEWAY

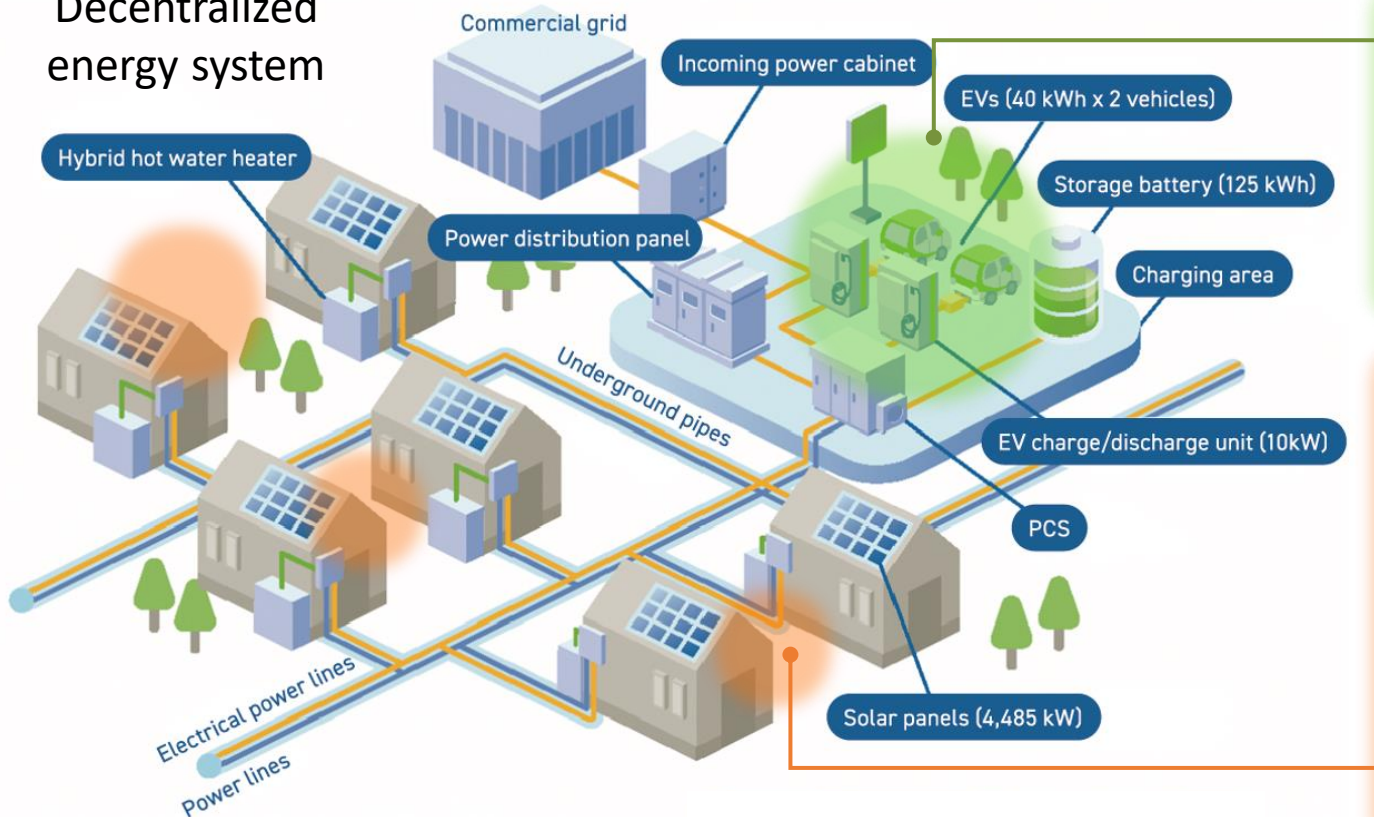
- For the development at Takanawa Gateway currently underway, CO2 emission is reduced by the use of renewable energy. In regards to the CO2 to be emitted, the goal is to achieve actual zero CO2 emission by the purchase of CO2 emission rights (carbon credit).



# INITIATIVES FOR URAWA-MISONO DISTRICT IN SAITAMA CITY

- Practical 100% renewable energy is realized with the introduction of decentralized energy system, ensuring energy security during blackout due to disaster, providing 60% of power for the district with solar power generation, and the use of certified non-fossil fuel power for the deficit.

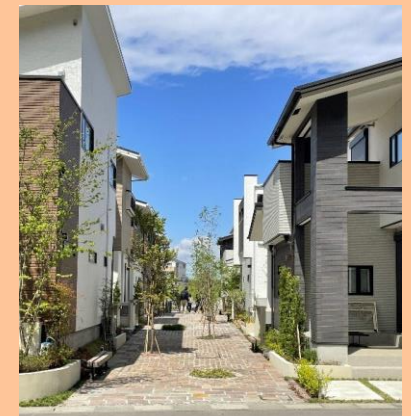
## Decentralized energy system



## Centralized power generation and storage system



## Common space





# SMART CITY COOPERATION TOWARDS CN REALIZATION WITH ASIAN COUNTRIES

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- Based on the framework of Asia Zero Emission Community (AZEC), promotion of GX through cooperation in smart city fields will be pursued.



Source: Web page of the Prime Minister's Office of Japan on AZEC Leaders Meeting



# CONCLUSION

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- In the rising effect and concern of climate change, the implementation of CN inclusive GX initiatives are accelerating around the world. There are common issues in becoming carbon neutral for Asia. It is important for us to cooperate in promoting decarbonization towards carbon neutrality/net-zero emissions, while also achieving economic growth, energy security and resilience, especially through innovation.
- Cities account for 50% of the greenhouse gas (CO<sub>2</sub>) emission amount. The key is to transform urban structure/urban activities that do not emit CO<sub>2</sub>. Smart city technologies contribute to the realization of urban decarbonization.
- In light of Asia Zero Emission Community Leaders' Joint Statement Action Plan for the Next Decade, our country would like to provide support for smart city technology implementation that contributes to decarbonization, such as support on project formulation, business matching, sharing of good practices, support in strengthening of capacity building, and further strengthen our cooperative relationship with ASCN.

Thank you

