## **Kyoto City's Challenge to Net-Zero by 2050**

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## **Features of Kyoto City**



# Birthplace of Kyoto Protocol & IPCC Kyoto Guideline

**Capital of Japan during 8th - 19th century** 

75% of the city area are green forests

#### Inland metropolis

with 1.45 million people

Rooted in a tradition of self-governance, local and civic strength

### Academic city

where 36 universities and junior colleges are concentrated and 150,000 students study

### Manufacturing city

where cutting-edge technology flourishes on a foundation of excellent traditional industries

**17\* World Cultural Heritage Sites** \*Kyoto City and neighboring areas

### Key Milestones of Climate Change Countermeasures (Kyoto City)





- 1997 COP3 / establishment of Kyoto Protocol
- 2004 Enactment of the Kyoto City Ordinance on Global Warming Countermeasures (the first such ordinance in Japan)
- 2015 SDGs, Paris Agreement

"From low carbon to decarbonization"

2019 Declaration of 'Net-Zero by 2050' ahead of other

municipalities in Japan

2020 Amendments of ordinance

(mentioned the goal of Net-Zero by 2050)

- 2021 Formulated the new Kyoto City Plan for 2021-2030
- 2022 Selected as one of the "Decarbonization Leading Areas"

### Established Japan's first ordinance to tackle global warming (2004)

By promoting approaches involving Kyoto City citizens...



## Kyoto's achievements (2)

# Urban development prioritizing pedestrians and public transportations

• Widening sidewalks on the main street (Shijo-dori)



- Number of lanes: 4 lanes  $\Rightarrow$  2 lanes
- Sidewalk width: Approx. doubled
- Amount of traffic: Approx. 40% reduction
- Park-and-Ride Parking Lots

KYOTO PARK & RIDE

## Allocation of means of transportation



#### Ratio of visitors to Kyoto by car



## **Greenhouse Gas Emissions**



Amendments of Kyoto City Ordinance on Global Warming Countermeasures (2020) Formulated the new Kyoto City Plan for 2021-2030 (2021)



# Regulations were enacted requiring the installation of renewable energy equipment in buildings



scale (less than 300m)

Residential sector to use locally produced renewable energy. Projects promoting regional circulation, 0 yen solar, etc. Explanations regarding the introduction of renewable energy became mandatory (from 2021)

#### Architect ↓ Client



<Explanation> - CO2 reduction effect of renewable energy - Maximum amount of renewable energy that can be introduced etc.

※PV power generation facilities, solar heat utilization facilities, biomass utilization facilities, wind power generation facilities, etc.

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## Energy Consumption Reporting System (Mid-size businesses)

#### Outline

- Targets mid-size businesses (approx. 1,800 offices)
- Requests submission of annual energy consumption and other data every fiscal year
- Feedback of information that leads to energy savings, etc.





renewable energy

## **Cooperation with Iskandar Malaysia** (JICA Grassroots Technical Cooperation Project)

- 2012- Expanding Kyoto City's environmental learning program "Children's Eco-life Challenge" to elementary school in the Iskandar Development Region (Implementing "Malaysian version of Children's Eco-life Challenge")
- 2022 Opening of the Malaysian version of the Ecology Center, modeled after the environmental learning facility in Kyoto City



Children's Eco-Life Challenge



Malaysian version of the Ecology Center

## **International Cooperation**

• Sharing Kyoto's best practices and calling for the need for further countermeasures & the importance of inter-city cooperation



Selected A-list for two consecutive years by CDP Cities



Kyoto City



Are you doing something good for the environment?