

# **Kyoto City's Challenge to jointly achieve 1.5 °C**

**Japan Climate Initiative @COP25 Japan pavilion  
Challenges of Japan and large cities in the midst of climate crisis  
– Aiming to be carbon neutral by 2050 –**

**Takeshi SHIMOTSUMA  
Supervising Director  
of Global Environment and Energy Policy  
City of Kyoto**

# Mayor announced "Net-zero CO2 emissions by 2050"



# Challenges from Kyoto to achieve 1.5 °C

**Kyoto Appeal to jointly achieve 1.5 °C**

The first time ever in Japan



**net-zero CO2 emission**



**by 2050**

**IPCC Kyoto Guideline**

to support implementation of Paris Agreement



## Three Determinations

**Responsibility for the future**

**Responsibility as Kyoto**

**Resolution**

## Primary Focuses

- To improve energy efficiency for buildings, transportation
- To expand of renewable energy (generation and election)
- To mobilize innovation
- To foster leading actor in the future



**Bold actions are needed to make social and economical transformation happened**

## To set the carbon neutral target for 2050

- The ordinance of global warming countermeasures
- The climate action plan

be subject to amend by 2020FY

PR: Climate Crisis



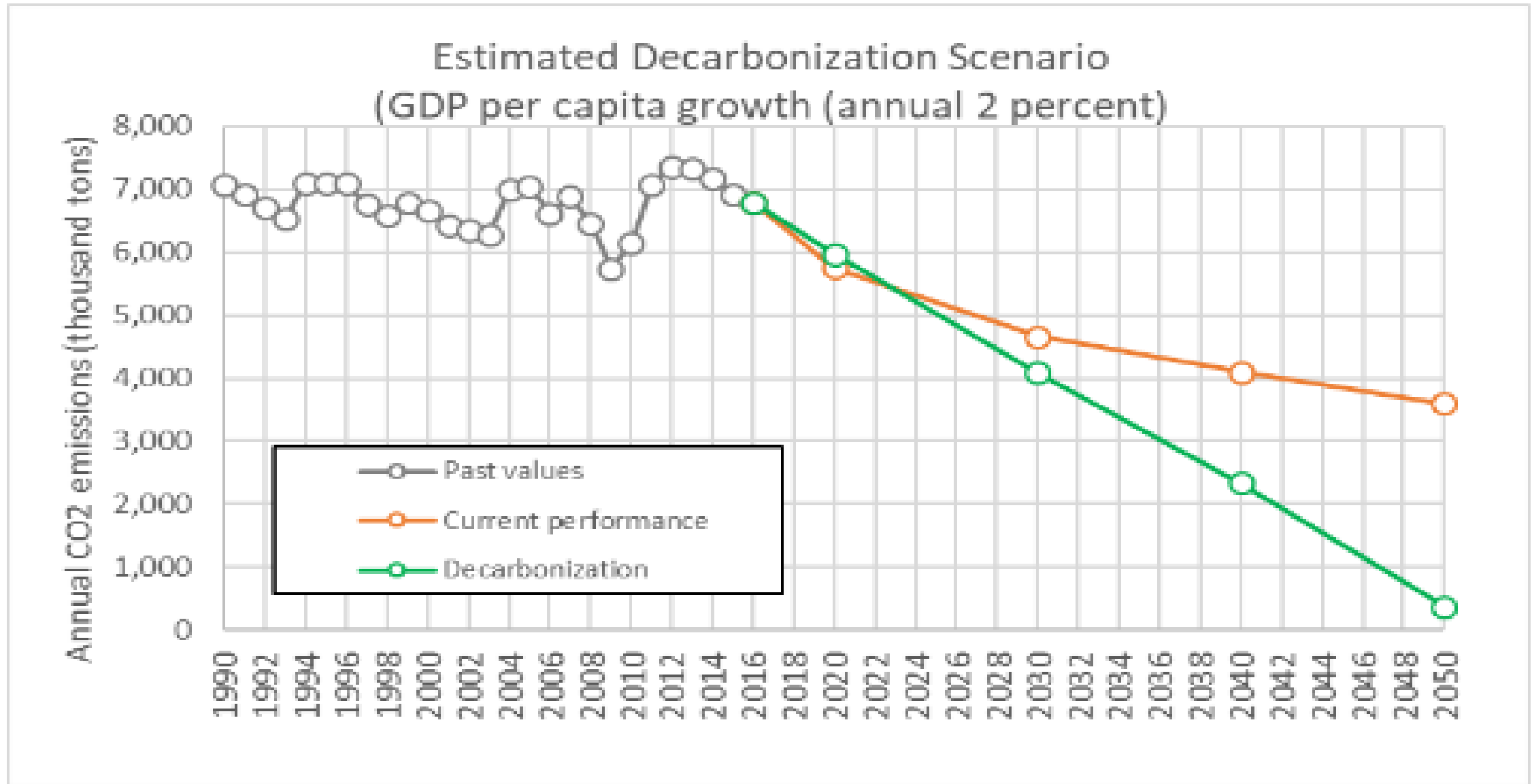
City Council



Environmental Advisory Committee



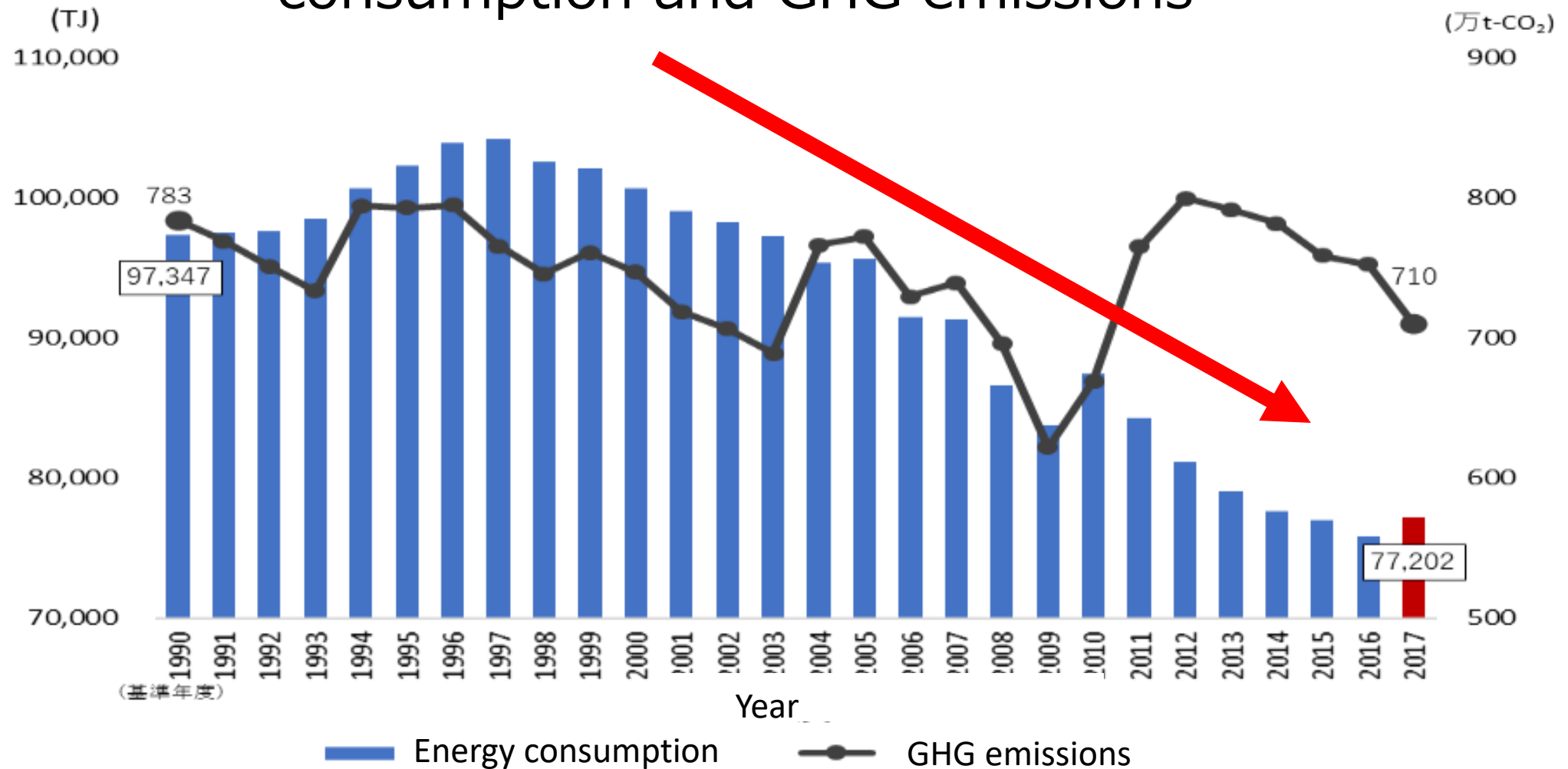
# Kyoto decarbonization scenario by 2050



\* It was calculated by Kiko Network and E-konzai with the support of Kyoto City.

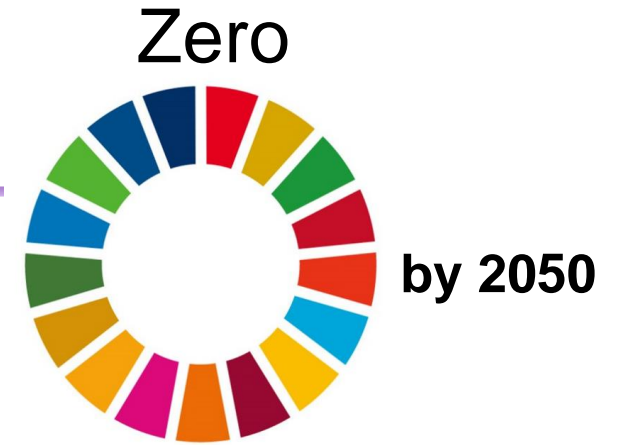
# Transition on Energy consumption and GHG emissions

**Huge gap** between energy consumption and GHG emissions



# The Path to Net-zero CO2 Emissions by 2050

“Road to Zero Project” advanced ver. (draft)



## Project 2 Necessary actions to 2050

To introduce advanced measures after research period

e.g. Decarbonized public transportation, local energy for local consumption, innovation

Open to evolve with additional measures (raise ambition)

## Project 1

To implement concrete measures for 2030

Present

Plus Action

to add further measures

Reduction target

more than

**40%**  
by 2030

Sub targets

- ◆ Energy Consumption: **40% reduction** from its peak
- ◆ Share ratio of RE: **35%**

※ Base year is 1990

Plus Action

**2050**

**Keep global  
temperature rise  
below 1.5°C  
Net-zero CO<sub>2</sub> emissions**



**by 2050**