

19 October 2023, 15:30-17:30 (JST) ,14:30-16:30(MYT)

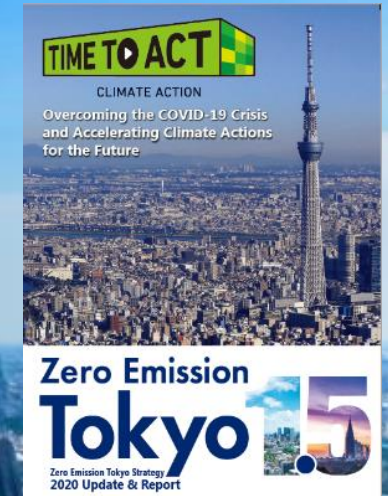
High Level Talks: Towards Smart, Zero Carbon and Climate-Resilient Cities in Malaysia and Japan  
at the IGES Tokyo Sustainability Forum



# Tokyo Initiatives for Building Decarbonization



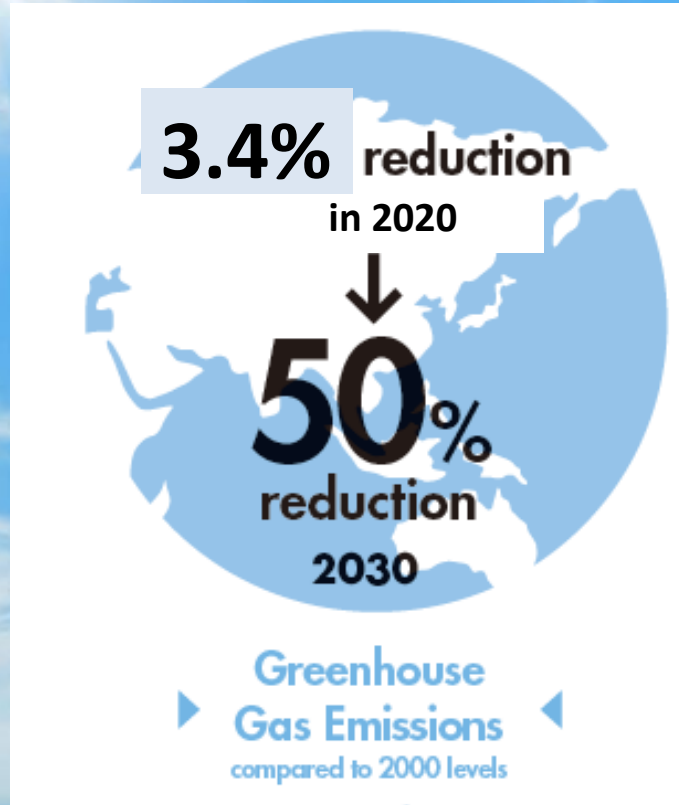
Toshiko CHIBA  
Bureau of Environment  
Tokyo Metropolitan Government



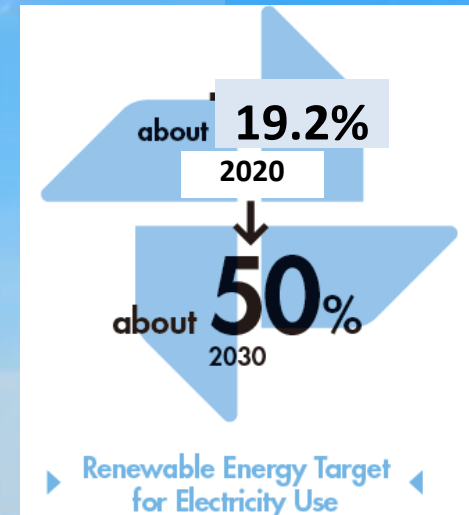
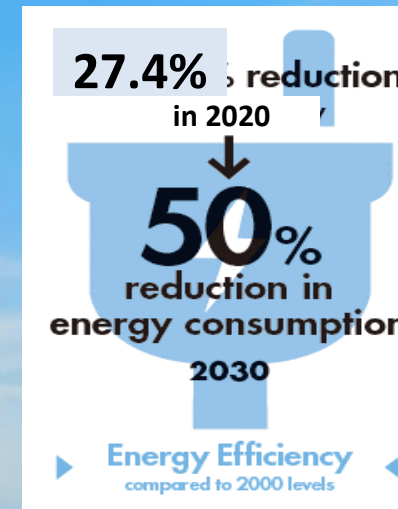
# Tokyo



Yuriko Koike,  
Governor of Tokyo



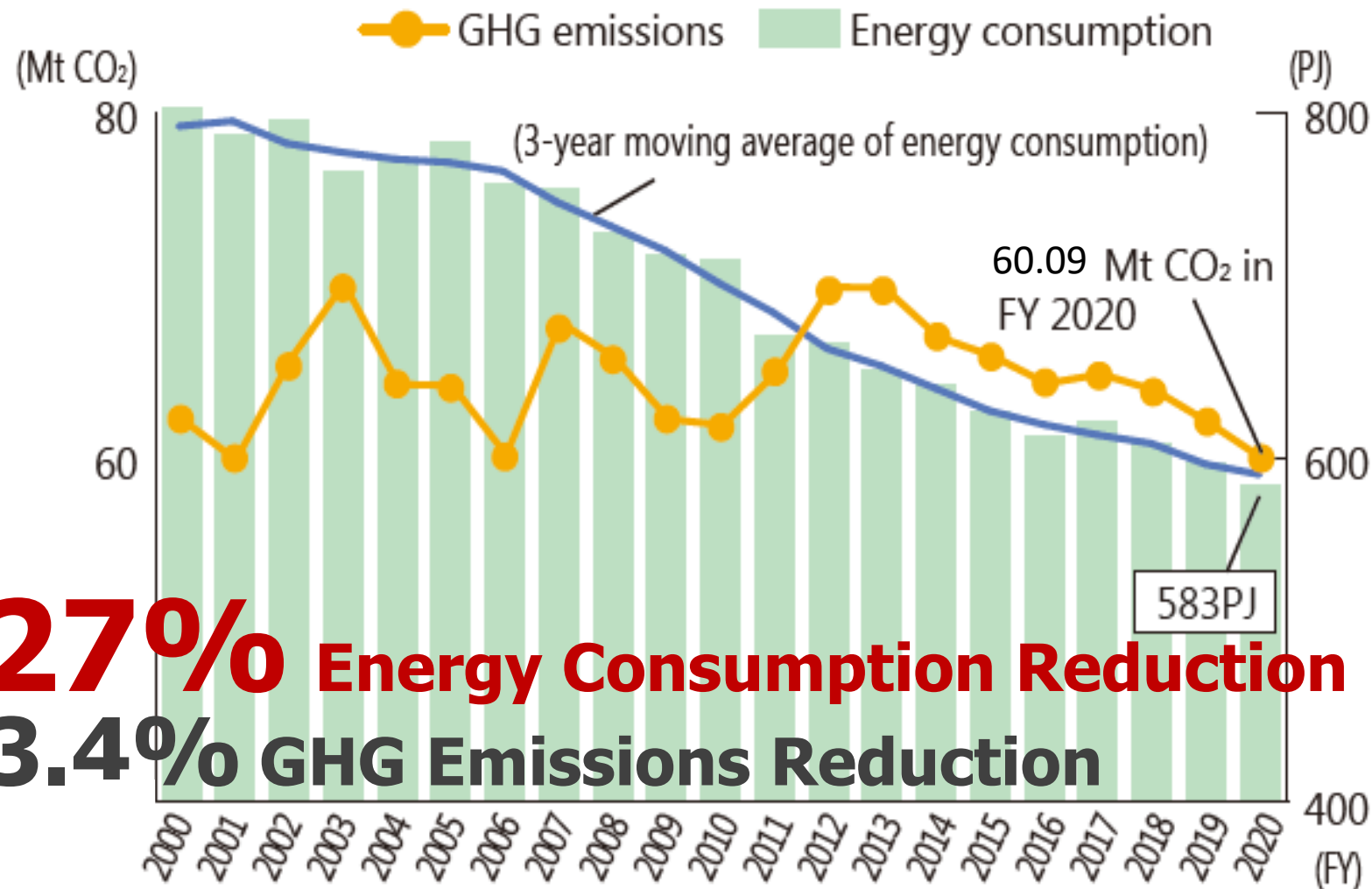
## 2030 GOALS





# Characteristics of Tokyo ; Energy Consumption and GHG Emissions in 2020

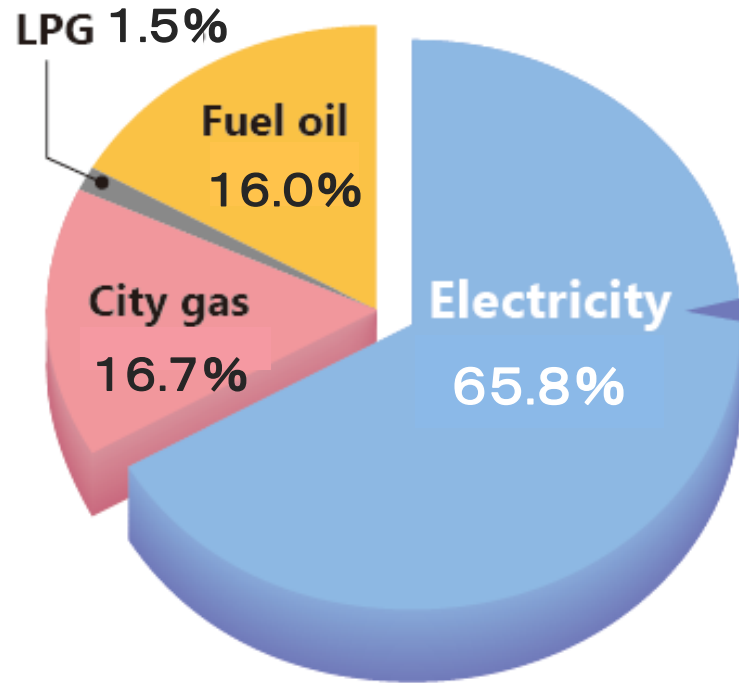
Changes in GHG emissions and energy consumption



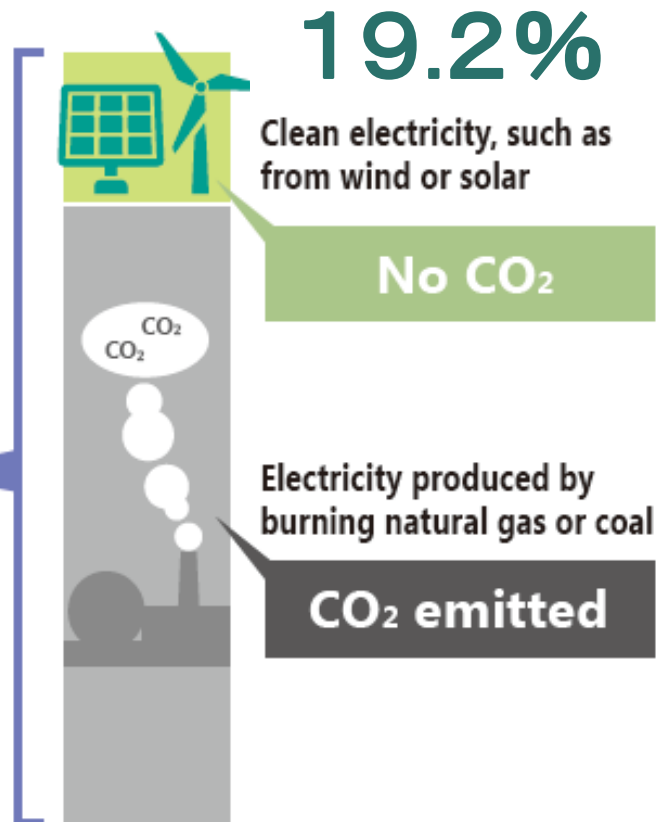
**27%** Energy Consumption Reduction  
**3.4%** GHG Emissions Reduction

# Characteristics of Tokyo ; Energy-Related CO2 Emissions in 2020

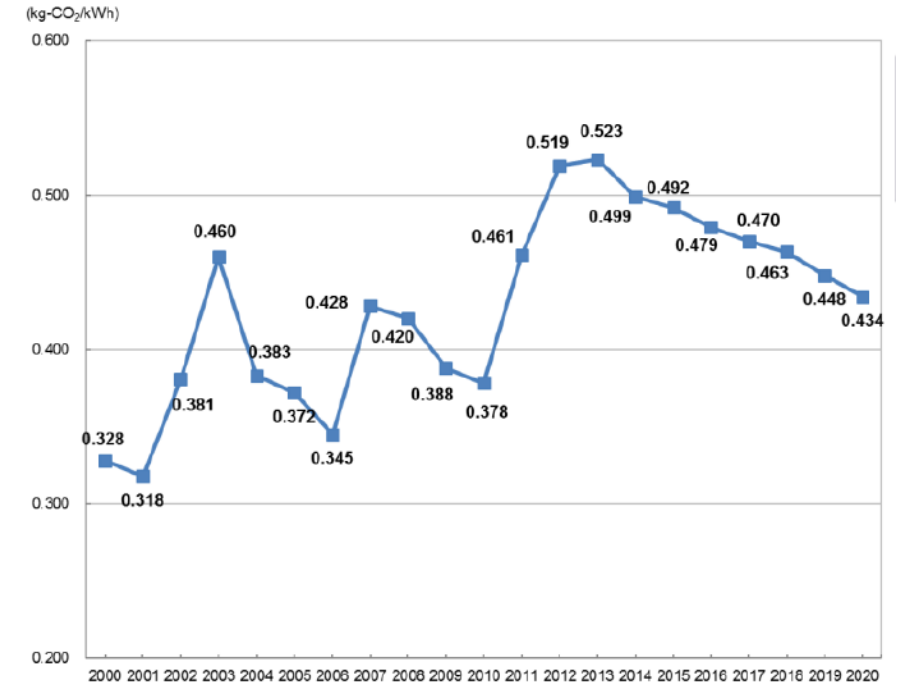
Breakdown of energy-related CO<sub>2</sub> emissions in Tokyo  
(preliminary results for FY 2020)



51.05 MT-CO<sub>2</sub> in FY 2020



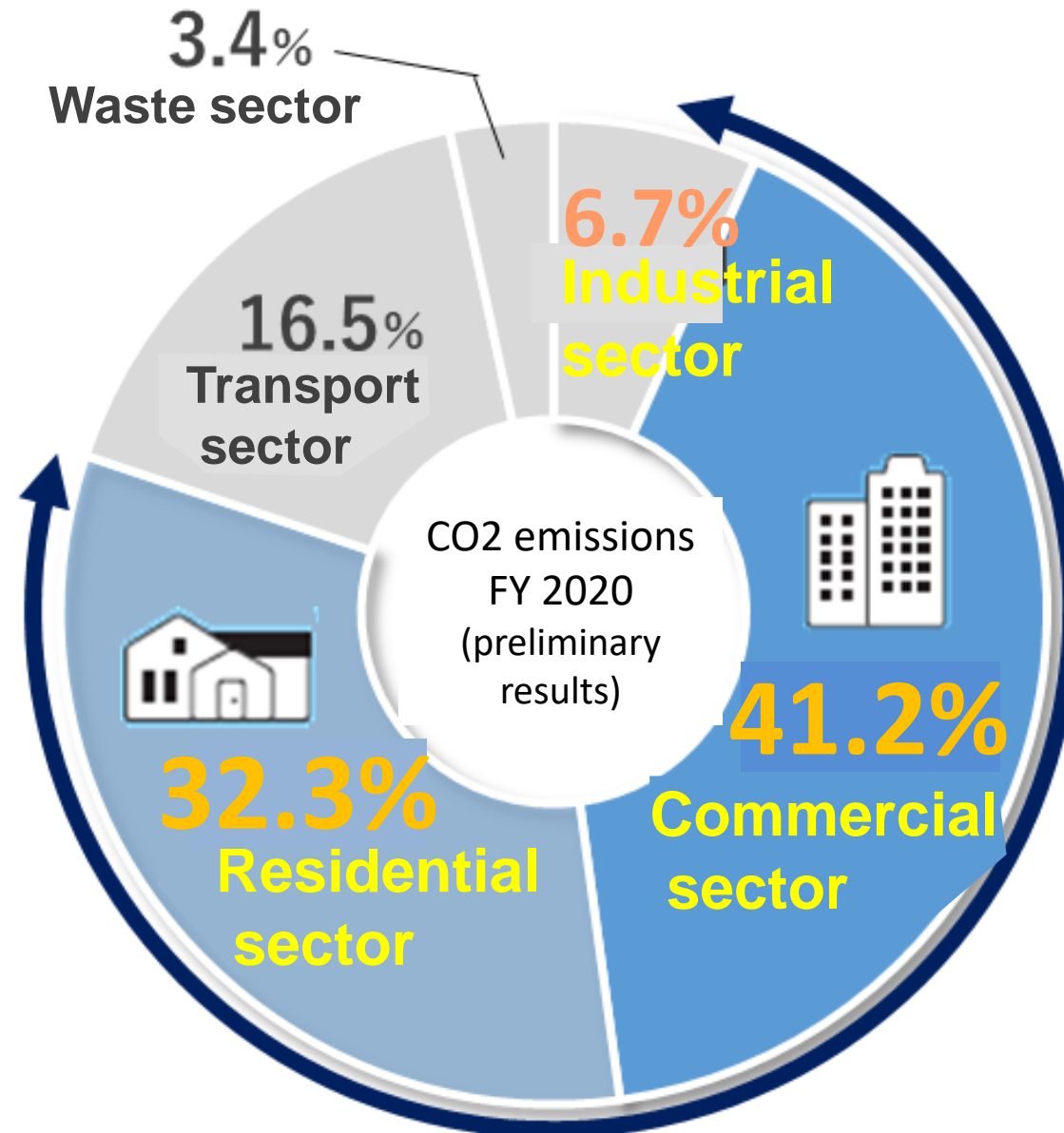
## CO<sub>2</sub> emission factor of power



(※) 都内に電力を供給している各電気事業者の二酸化炭素排出係数(実排出係数)及び都内供給電力量に基づき、都で計算した加重平均

# Characteristics of Tokyo

## ; Energy-Related CO2 Emissions by Sector in Tokyo

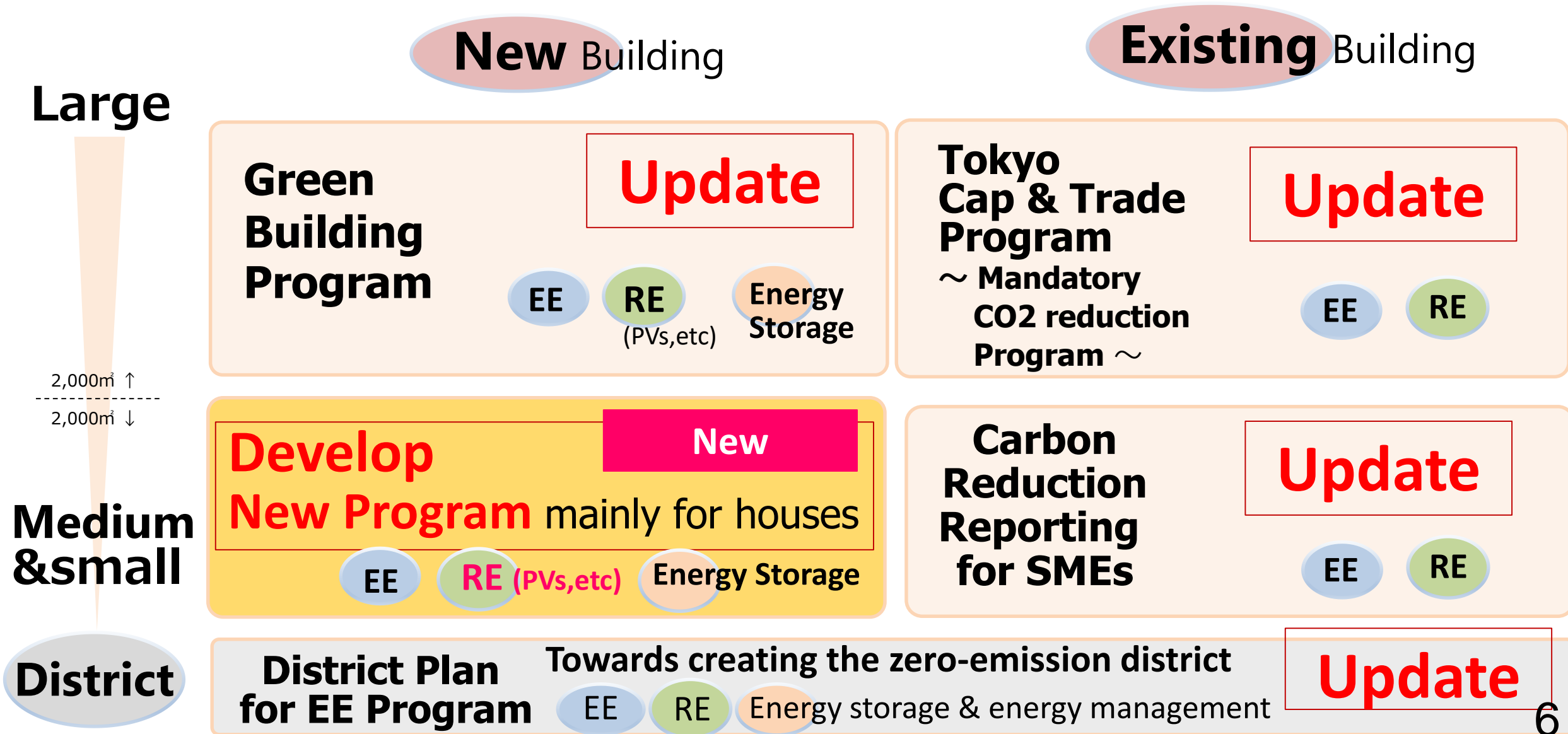


Buildings account for  
over **70%**

✓ **Expanding zero emission buildings** is essential to attract investment and business

# Climate Change Policy Framework for Buildings

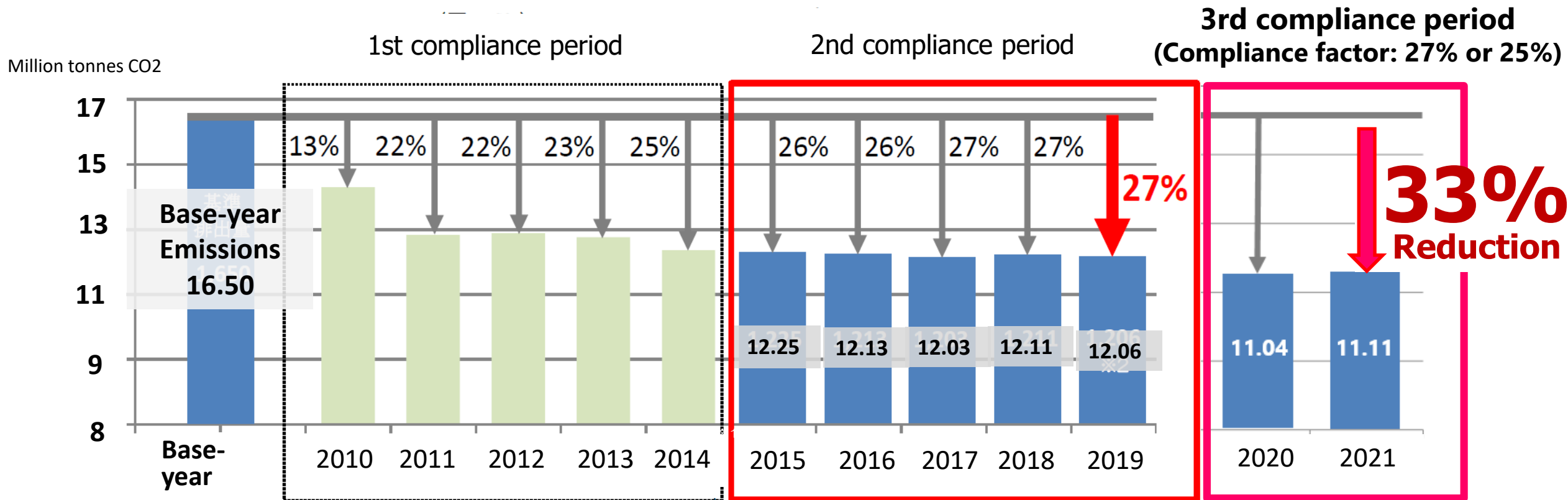
## by Tokyo Ordinance



# Tokyo Cap-and-Trade Program

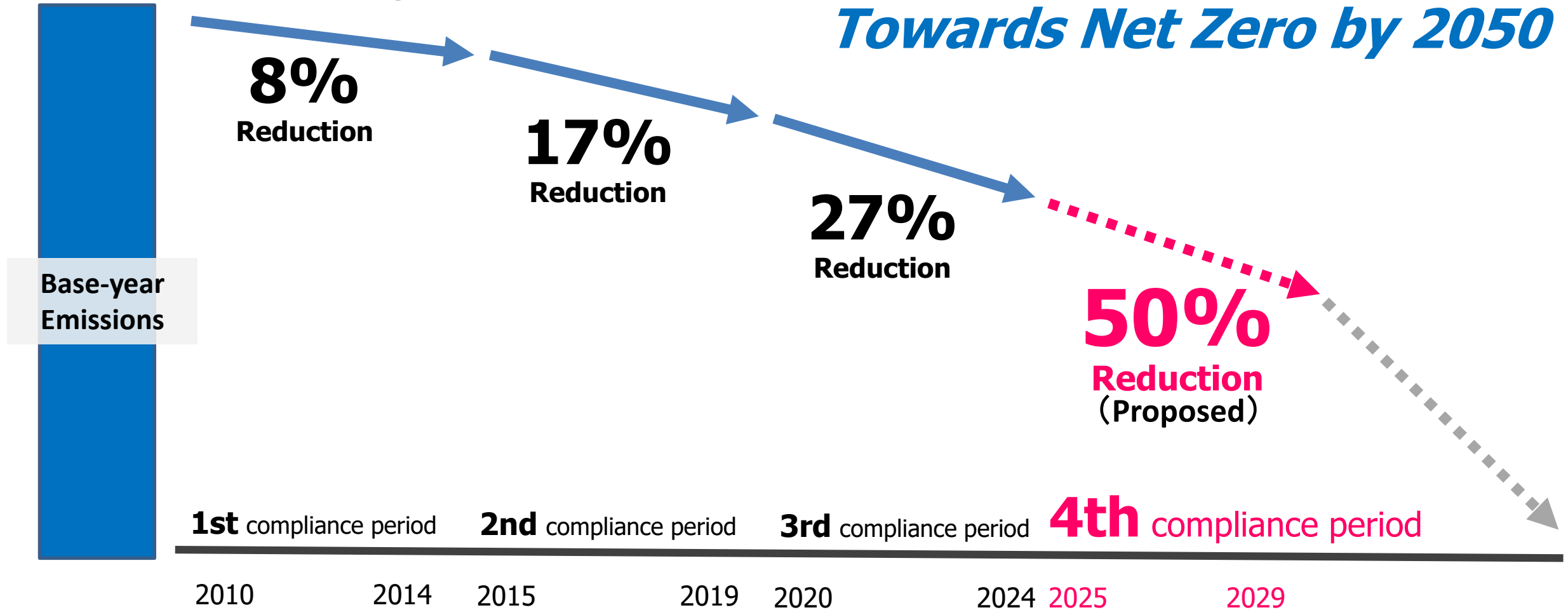
- Mandatory CO2 reduction program for Large-sized Existing Buildings**

\*Launched in 2010 by Tokyo ordinance



# Tokyo Cap-and-Trade Program

- **Reduction Obligation Level** for Office and Commercial Building  
(Compliance factor)



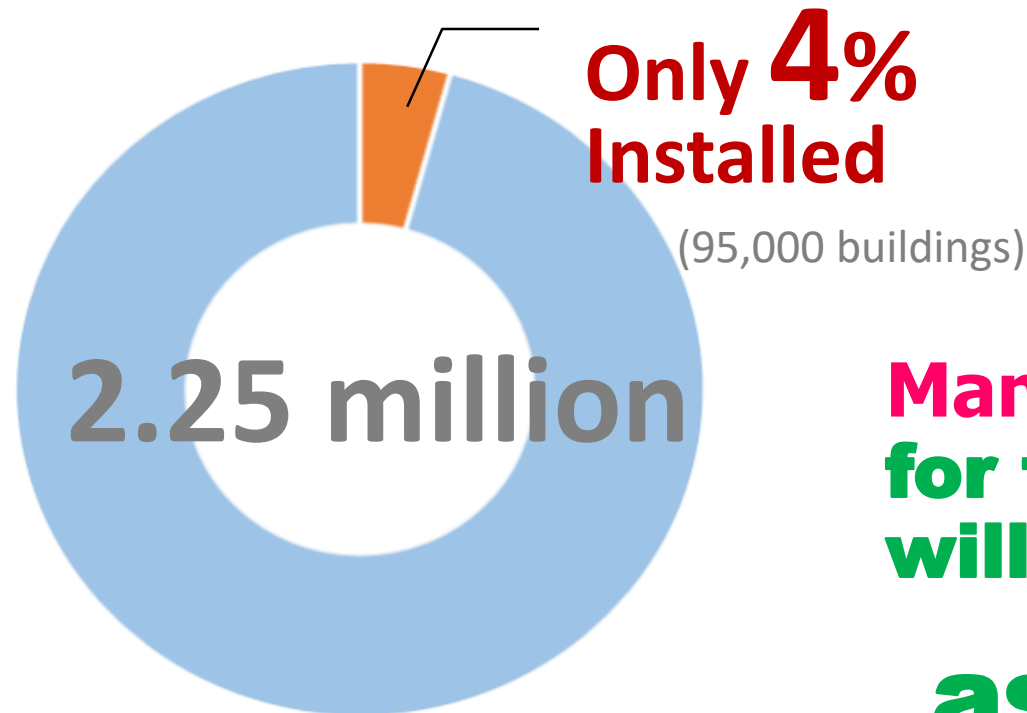


# Develop New Program for houses

- **Installation Mandate for Solar Panels**

~Utilizing the Full Potential of Tokyo's Rooftops

**Buildings with solar panel  
installation potential**



**Mandate  
for the solar panel installation  
will come into effect**

**as of April 2025**



# Integrated Promotion of Decarbonization and Energy Security

**Reduce** energy  
consumption  
(Improvement  
Energy Efficiency)

**Generate** renewable power,  
**Store** and **use** power

**Building**  
(incl. house)

**District**  
(ex, creating  
the zero-emission district)

*Benefits of the Tokyo itself*

# Children's International Exchange in 2023

*Online dialogue between primary school students  
in Kuala Lumpur and Tokyo  
toward EE & RE  
in house and school*







# Toward a Zero Emission Cities in Malaysia and Japan

