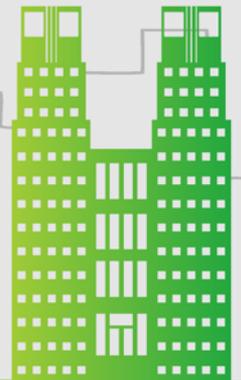




Tokyo's Approach to Realization of Smart Energy City

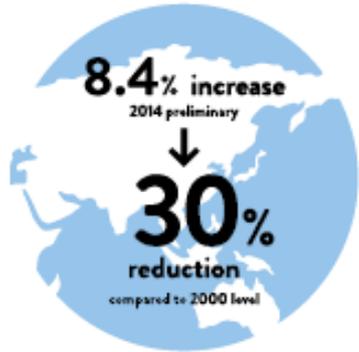
Senior Director for
Policy Coordination,
Bureau of Environment, TMG

Kenji SUZUKI

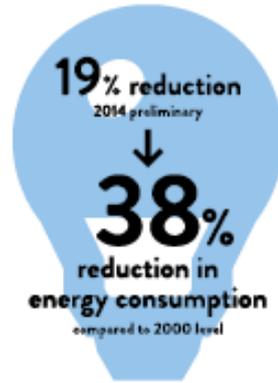


2030 GOALS

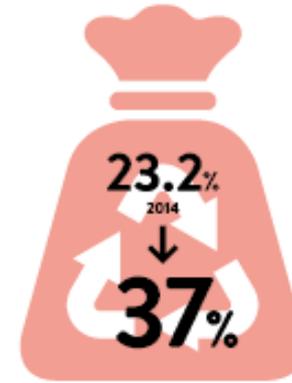
Tokyo will leap to be a sustainable city taking advantage of the Tokyo 2020 Games.



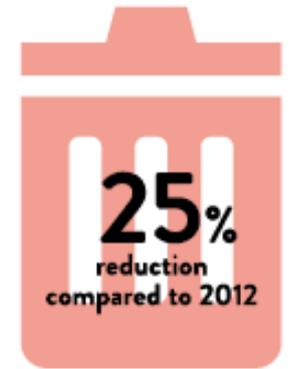
▶ Greenhouse Gas Emissions ◀



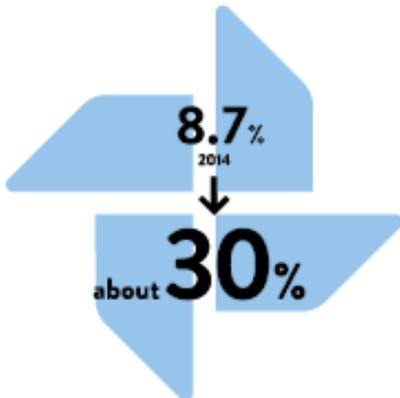
▶ Energy Efficiency ◀



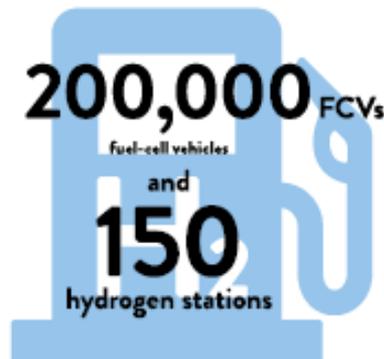
▶ Recycling Rate of Municipal Solid Waste ◀



▶ Final Disposal Amount of Waste ◀



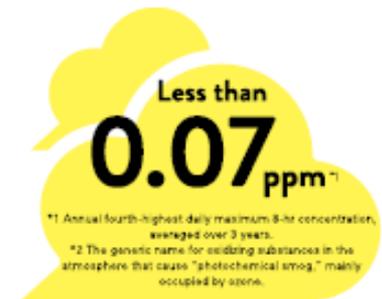
▶ Renewable Energy Target for Electricity Use ◀



▶ Hydrogen Energy ◀

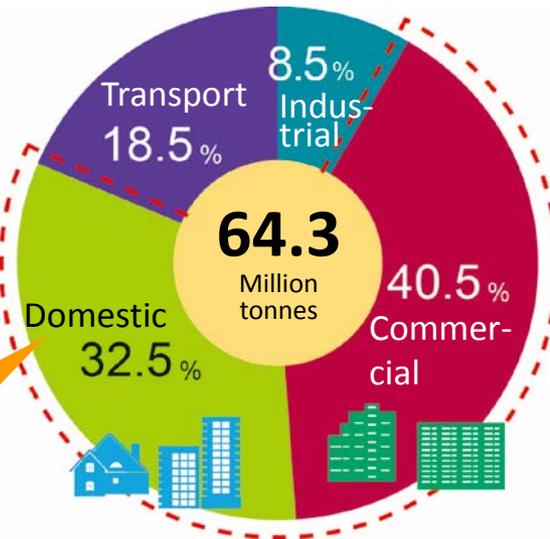


▶ Number of Participants in Field Work Programs ◀



▶ Photochemical Oxidant² Concentration in All Monitoring Stations ◀

Tokyo Cap-and-Trade Program



➤ Buildings account for more than 70% emissions from the energy-induced CO₂ emissions in Tokyo



Critical challenges for Tokyo include energy efficiency in buildings, including offices and condominiums

➤ Only 1,300 large facilities are responsible for approximately 40% of CO₂ emissions from the industrial and commercial sectors

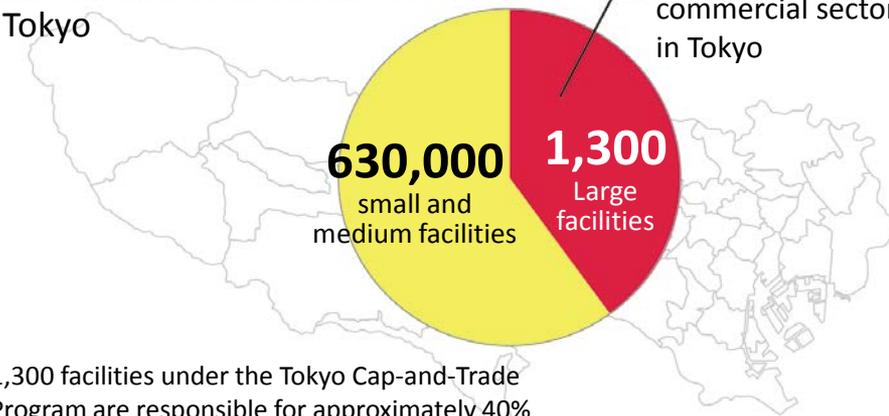


Introducing the cap-and-trade program for large facilities

Large facilities : Facilities whose annual energy consumption is greater than or equal to 1,500 kL of crude oil equivalent

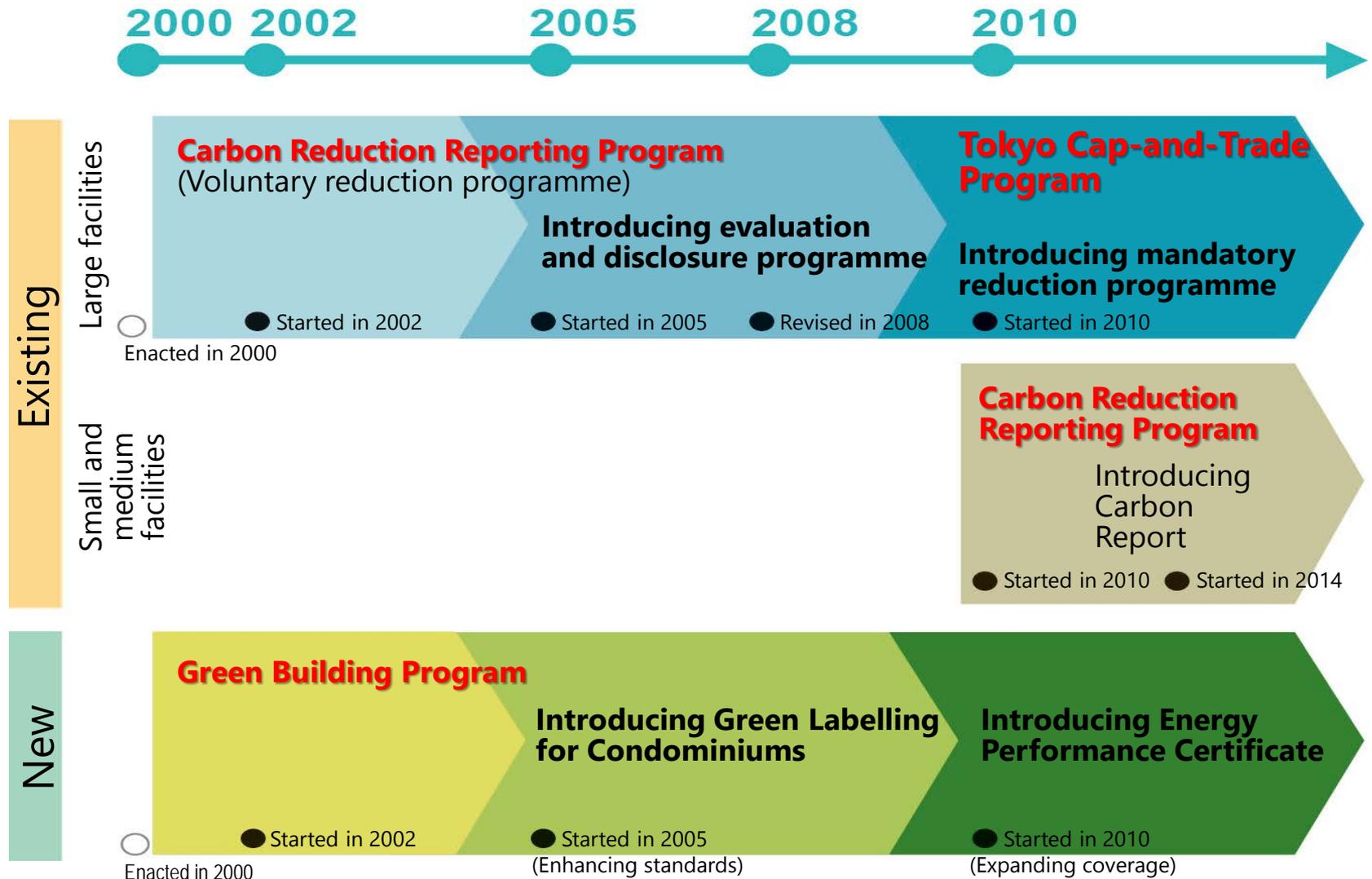
Share of CO₂ emissions from industrial and commercial sectors in Tokyo

Around 40% of industrial and commercial sectors in Tokyo

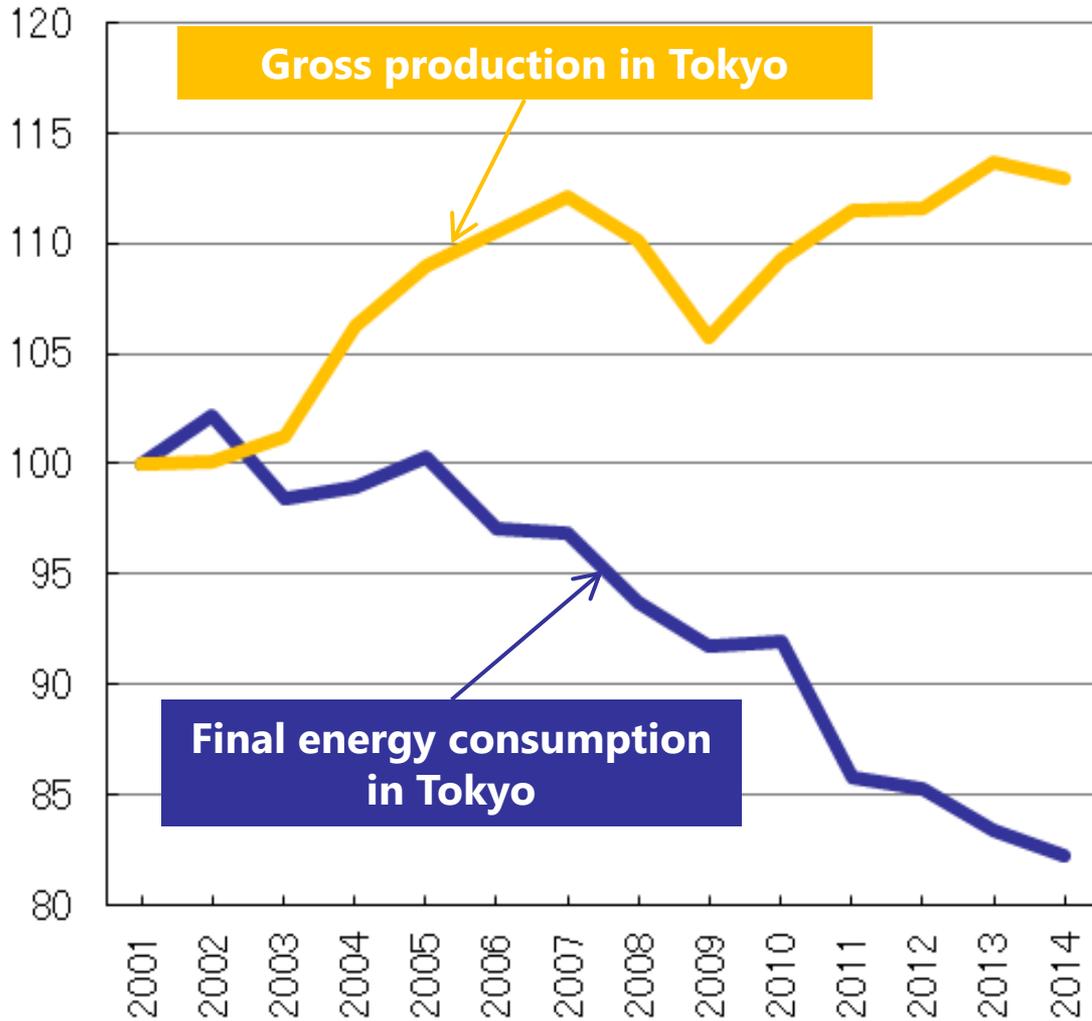


1,300 facilities under the Tokyo Cap-and-Trade Program are responsible for approximately 40% of CO₂ emissions from the industrial and commercial sectors.

Tokyo's Three Programmes Promoting Green Buildings



Effectiveness of the Cap-and-Trade



Transition of energy consumption and economic index

- Achieved certain and significant emissions reductions by imposing obligations equitably.
- CO₂ emissions intensity of covered facilities was also reduced significantly.
- Realized Reduction of energy consumption and city growth at the same time. (Decoupling)

Proved that the Cap-and-Trade program doesn't prevent the economic growth.

International Environmental Cooperation

➤ **Linking with the Large Cities Climate Leadership Group**

- Joined C40 in 2006 and actively led practices as a member of steering committee.
- Led 'Private Buildings Energy Efficiency Network,' produced reports and hosted workshop.

➤ **Support of policy formation and techniques for Asian cities**

- Support of low-carbonization of Asian cities, Iskandar and Putrajaya
- Cooperation on air pollution countermeasures and waste management in urbanizing cities

➤ **International cooperation and support on Cap-and-Trade program.**

- Joined ICAP in 2009 as the first member from the Asian region.
- TMG has taken part in management as a member of ICAP steering committee since 2011.
- Cooperated for technical support of C&T program design as a lecturer of training course hosted by ICAP.

