

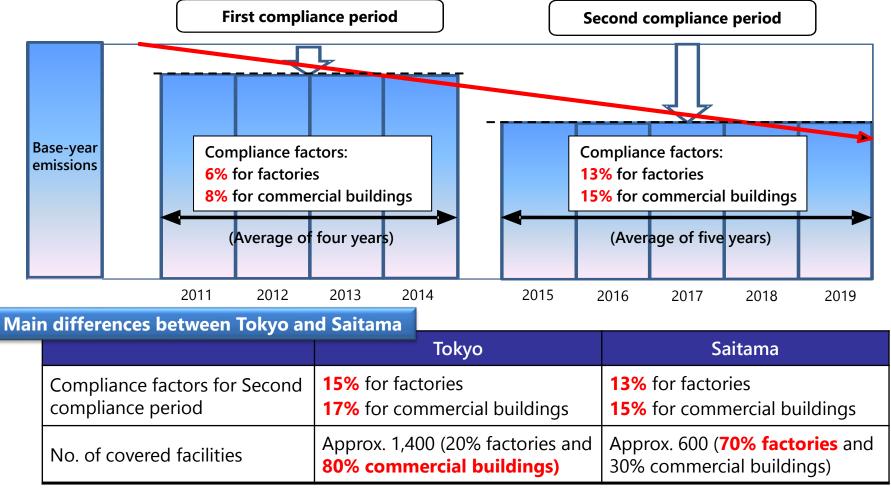
Emissions Trading System in Saitama



Target Setting Emissions Trading System

Overview of Target Setting Emissions Trading System

- \bigcirc Introduced in **FY2011** to efficiently reduce CO₂ emissions in the **industrial and commercial sectors**
- O Covering **approximately 600 facilities** that consume energy equivalent to 1,500 kL or more of crude oil annually for three consecutive years
- O Linkage with the Tokyo Cap-and-Trade Program that started in FY2010



Outcomes of First Compliance Period (1)

Reduction outcomes

CO₂ emissions **reduced by 22%** at both factories and commercial buildings A **29% reduction** achieved on average at small- and medium-sized businesses that account for approximately 30% of covered facilities

Use	Compliance factor (target)	Average reduction rate (results)	Size categories	Average reduction rate (results)
			Small and midsize	
Factories	6%	22%	businesses	29%
Commercial buildings (stores, hospitals, public offices, etc.)	8%	22%	Major businesses	21%
			Others (hospitals, public offices, etc.)	15%
Overall	_	22%	public offices, etc.)	

Achievement of reduction targets

		Achievement of targets		
		Number of facilities	Percentage	
Targets achieved through:	Reducing own emissions	533	88%	
	Emissions trading	66	11%	
Carry-over of shortfalls to Second compliance period		9	1%	
Total		608	100%	

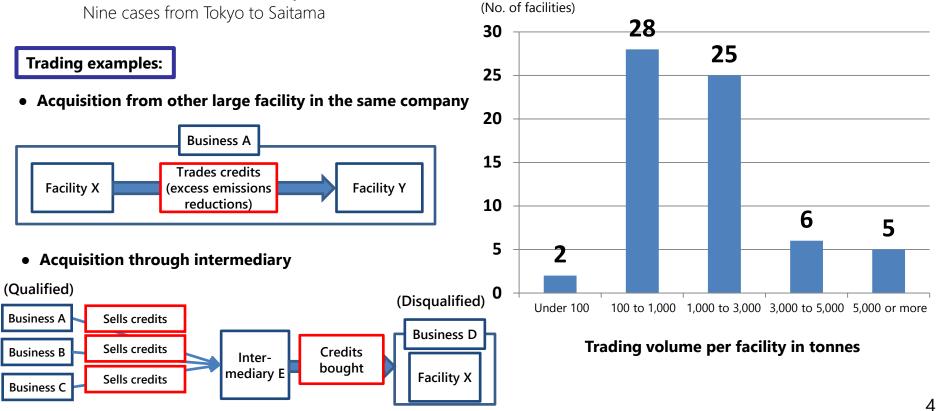
Outcomes of First Compliance Period (2): Status of Emissions Trading

66 facilities achieved targets by acquiring credits from other facilities through emissions trading to make up for their shortfall

- Many of the facilities acquired credits from other large facilities in the same company
- There were also many facilities that made acquisitions through intermediaries
- Tokyo-Saitama Credits were also used: Six cases from Saitama to Tokyo Nine cases from Tokyo to Saitama

- Total trading volume was approximately 200,000 tonnes
- Trading volume per facility was approximately 60 to 65,000 tonnes

No. of facilities by trading volume



Operation of Target Setting Emissions Trading System

Benefit of linkage with Tokyo

- O In most cases, the headquarters or other offices of the covered facilities are located in Tokyo. Therefore, there are significant benefits in being able to trade credits with businesses in Tokyo.
- O The aggregated population and gross domestic product (GDP) of Tokyo and Saitama account for approximately 20% of the whole of Japan. The outcomes achieved through the systems of the two prefectures will help spread ETS across the country.

Reference:

(1) Population

Approximately 13 million in Tokyo, 7 million in Saitama (130 million in Japan)

(2) GDP

Approximately JPY 100 trillion in Tokyo, JPY 20 trillion in Saitama (JPY 550 trillion in Japan)

Future challenges

- O Support of small- and medium-sized businesses that account for approximately 30% of covered facilities
 - Financing that facilitates funding from financial institutions at a low, long-term fixed-rate
 - Dispatch of energy efficiency experts to facilities to give advice about saving energy
- \bigcirc Planning for the third and subsequent compliance periods

