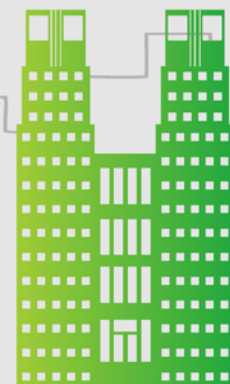




# The Results of Tokyo Cap-and-Trade Program

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# Step-by-Step Evolution for Reductions

2002 to 2004

## HOP

Starting annual reporting programme

Reporting programme

Voluntary targets

Many facilities unable to draw up effective energy efficiency measures

Many facilities lacking effective promotional system

Disclosure by facilities

2005 to 2009

## STEP

Adding evaluation/disclosure mechanism

Reporting programme + evaluation/disclosure mechanism

Voluntary targets

TMG proposed basic measures and stepped them up through guidance and advice

Promotional system led by facility managers

Disclosure by facilities and TMG

2010 and beyond

## JUMP

Introducing C&T programme

Tokyo Cap-and-Trade Program

Mandatory targets

Implementing medium- to long-term energy efficiency measures

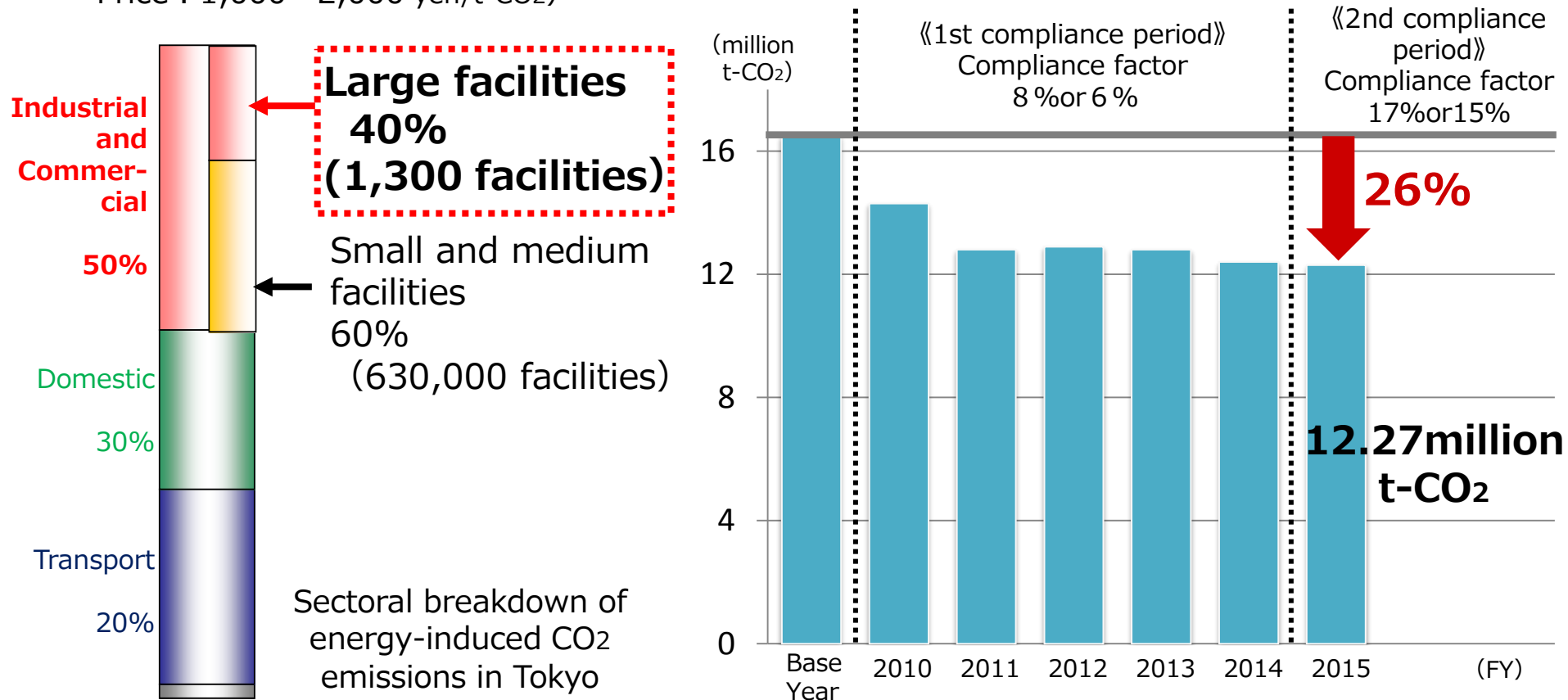
Promotional system involving owners, facility managers and tenants

Disclosure by facilities and TMG

# Emission reductions of covered facilities

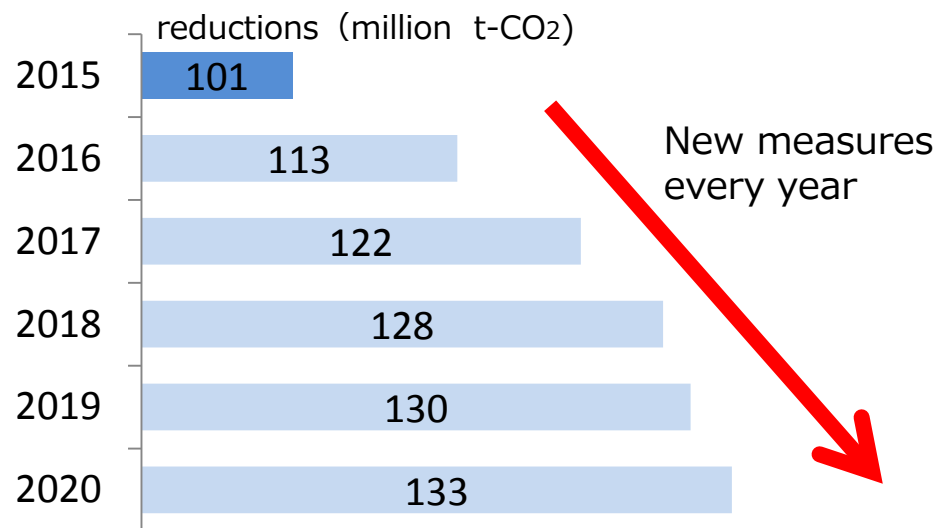
## ➤ Achievement of significant reduction by thorough energy efficiency measures taken by covered facilities

- Achieved 26% reduction (FY2015 figures compared to base year)
- All covered facilities achieve their CO<sub>2</sub> emission reductions for the first compliance period. 90% of the facilities were able to meet their reduction targets through such initiatives. The remaining 10% of the facilities were able to meet their reduction targets through emissions trading. (Credit Price : 1,000~2,000 yen/t-CO<sub>2</sub>)



# Energy efficiency measures at covered facilities

## ➤ Covered facilities are taking operation of equipment and have come to select energy efficient equipment



- Further reductions are expected as new measures are planned for the next fiscal year and beyond.
- Covered facilities are taking additional emissions reduction measures, such as a shift to LED illumination, introduction of energy efficient air conditioning equipment.

Planning and implementation of energy efficiency measures at covered facilities

Energy saving measures	Qty	Reductions (t-CO <sub>2</sub> )
Installation of energy efficient heat source equipment	382	148,683
Installation of energy efficient pumps for air conditioners and energy saving control	381	34,116
Installation of energy efficient air conditioning equipment	443	39,098
Installation of energy efficient outside air cooling systems	279	24,955

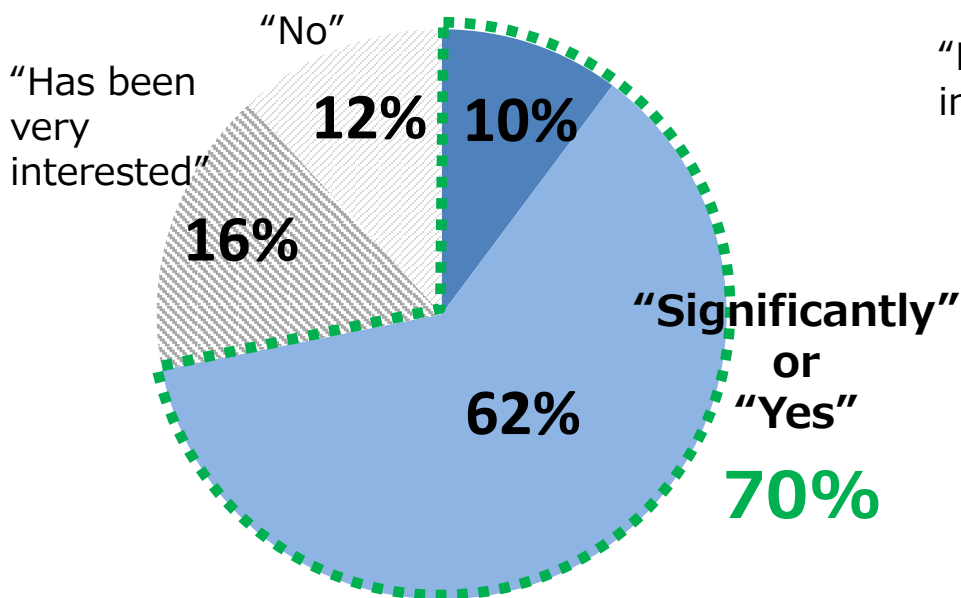
Energy saving measures	Qty	Reductions (t-CO <sub>2</sub> )
Installation of energy efficient fans	270	16,944
“Cool Biz” and proper room temperatures during summer	101	13,195
Proper timing of starting up air-conditioning before using rooms	145	14,788
Installation of energy efficient lighting and energy saving control	1,581	119,458

# Factors for achievement of significant emission reduction

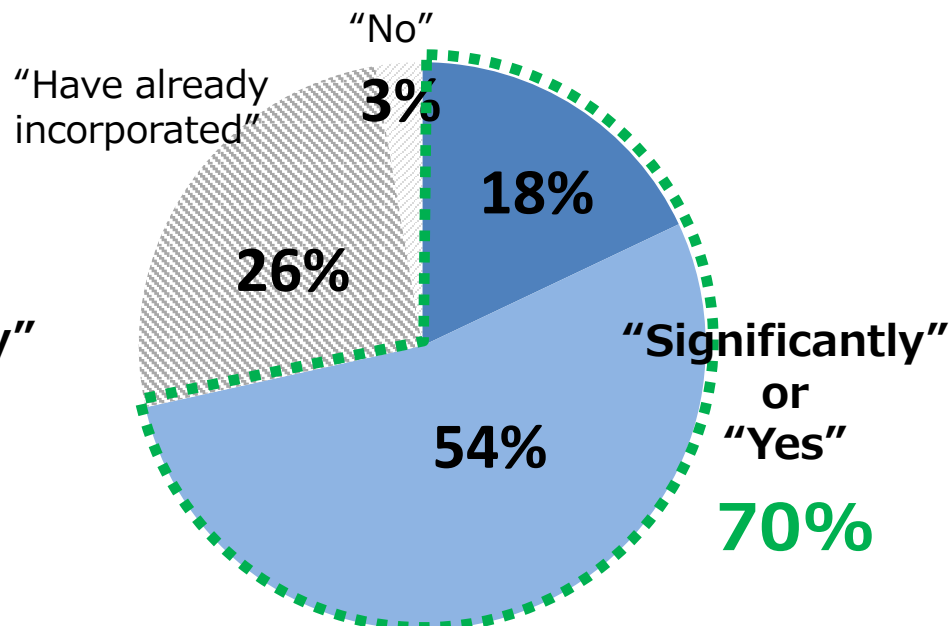
## ➤ Facility owners becoming more interested in CO<sub>2</sub> reductions

- Turning energy efficiency measures in the field into a challenge for corporate management.
- The programme has changed the mindset of facility owners and caused them to select more energy efficient equipment upon facility renovation.

Q Has your owner become more interested in the transition of CO<sub>2</sub> reductions?



Q Have you become more aggressive in incorporating energy efficient equipment upon facility renovation?



# Designing a system for effective emissions reductions

Introduction of the feature of Tokyo with a number of office buildings and the system based on the voice of covered facilities

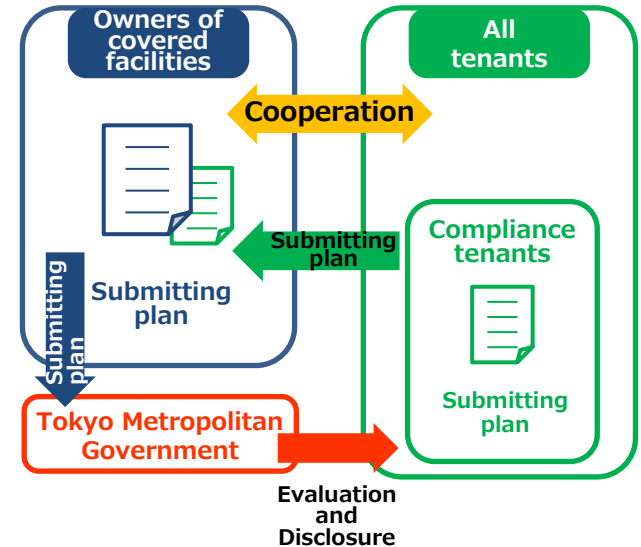
➤ **The Tokyo Cap-and-Trade Program certifies facilities with excellence in promotional systems as well as in equipment introduction, use and management as top-level or near-top-level facilities.**

- These facilities receive a compliance factor mitigated to 1/2 or 3/4.
- There is a movement in the building Industry-new buildings are designed to satisfy the requirements for top-level facility certification.

➤ **Encouraging Tenants' Efforts to Promote Energy Efficiency across Whole Building**

- The Tokyo Cap-and-Trade Program mandates that all tenants in covered facilities cooperate with building owners in pursuing energy efficiency measures.
- The Tokyo Metropolitan Government launched a mechanism to evaluate and disclose tenants' commitment in energy saving measures to raise tenants' awareness of energy efficiency.

«The number of certified»  
**100 facilities**



Based on the voice of covered facilities, designing a system with regional conditions is required.