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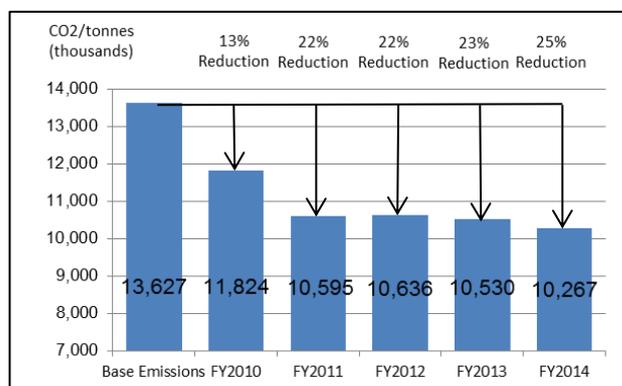
Tokyo Metropolitan Government
Bureau of Environment

Tokyo Cap-and-Trade Program achieves 25% reduction after 5th year

A flash report published by the Tokyo Metropolitan Government (TMG) announced that the Tokyo Cap-and-Trade Program has achieved a 25% reduction in emissions after the 5th year of the program compared to base-year emissions.

The flash report for fiscal year 2014 comprises GHG Emissions Reports from covered facilities.¹

Total emissions of the covered facilities for fiscal year 2014 were reduced by 25% from base-year emissions,² the even greater level of reductions seen since fiscal year 2011, in which significant energy savings were necessary after the power crisis following the Great East Japan Earthquake.



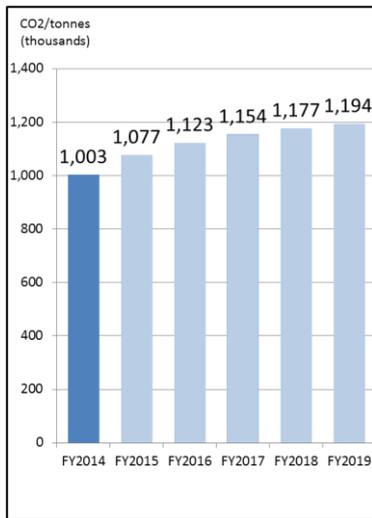
Covered facilities in the Tokyo Cap-and-Trade Program are required to reduce energy-related CO₂ emissions—for example, 8% reductions are required for business facilities such as office buildings, and 6% for industrial facilities such as factories—during a five-year compliance period from fiscal year 2010 through 2014. During the second period from fiscal year 2015 through 2019, the reduction obligations increase to 17% for businesses and 15% for industrial facilities. Owners of covered facilities must report the previous fiscal year's emissions to TMG by the end of November every year.

This achievement is down to companies continuing with measures taken during the power crisis of 2011, even though such severe reductions are no longer as necessary. In some cases, measures that were implemented immediately after the earthquake and subsequent power crisis, such as setting higher than usual temperatures for air conditioning systems during the summer, have been steadily relaxed since 2012 because they were seen as overburdening and an immediate response to the crisis. Additional measures, such as LED installations, the introduction of high-efficiency air conditioning, high-efficiency energy pumps for air conditioning and energy-saving controls, have compensated for this relaxation of measures and continued the reductions, and reports submitted by covered facilities show a continual planned take up of more measures in the coming years. In those reports, one owner of a commercial building mentioned that they could reduce energy use by energy-efficient management in order to continue the effect of energy savings in 2011, based on cooperation with the tenants. A factory owner also mentioned that improvement of both facilities and management, and the

¹ Covered facilities of the program are facilities with 1,500 kL in crude oil equivalent or more annual energy usage. This flash report is based on the collected data as of January 12th 2016.

² Base-year emissions are the average emissions of three consecutive fiscal years selected between FY2002-FY2007.

enhanced awareness of energy-efficiency possessed by all the staff of the company have enabled their reduction. The owner from the industry said not only have they tackled basic measures such as renewal of the air conditioning system and management of the temperature control in an energy-efficient way, but also they have promoted the introduction of LED when tenants renovated since FY2013. The owner from the medical area also mentioned their introduction of LED and partial light-out in addition to the assignment of an “eco-manager” in each area and regular “eco-patrol”.



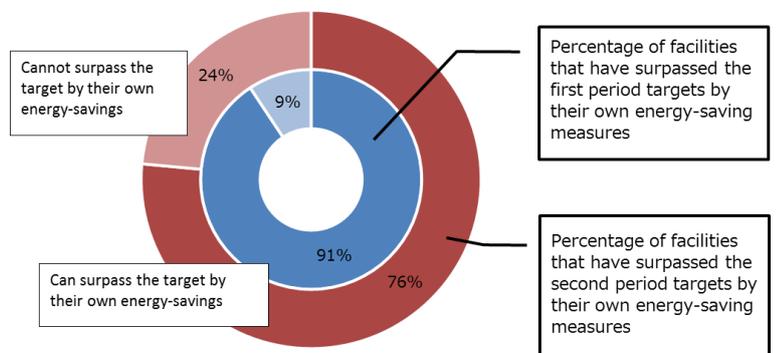
Accumulated Reductions
(Implemented/Planned)

Measures: heat resource, air conditioning	# of Measures	Reduction (t-CO ₂)
Introduction of high efficiency heat source equipment	317	127,583
Introduction of high efficiency pumps for air conditioning and energy-saving control	308	28,182
Introduction of high efficiency air conditioning	293	27,101
Introduction of high efficiency packaged air conditioning	58	2,172
Variable-air-volume air-conditioning system	26	5,024
Cooling with outside air	233	19,943
Carbon dioxide density-based external air quantity control system	99	15,808
Introduction of total enthalpy heat exchanger	41	3,286
Introduction of high efficiency fans	230	12,149
Optimization of air conditioning temperature setting in summer	86	10,032
Introduction of warming up control	28	476
Optimization of air conditioning operation hours at turning on	120	12,245

Measures: lighting, others	# of Measures	Reduction (t-CO ₂)
Building energy management system	39	5,726
—Energy consumption visualization	10	1,153
Demand control system	5	532
Introduction of high efficiency lightning equipment and lightning control by illumination	1,208	84,018
—LED lights	954	66,376
—Hf Lights	90	7,694
—Sensors	80	3,005
Relaxing illumination standards	256	18,953
Partial light-out and shorter lighting hours	24	768
Introduction of elevator energy saving control	93	1,954
Others	5,953	740,204
Total	10,551	1,194,382

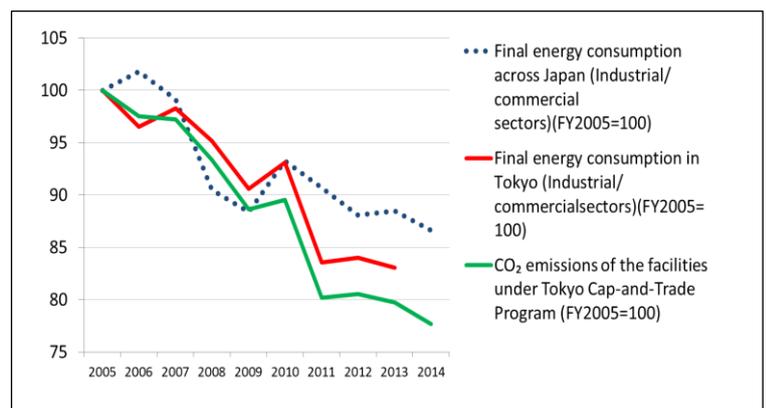
Introduced Measures

To date, over 90% of targeted facilities have surpassed their reduction targets of 6% or 8% for the first compliance period. What’s even better is that already 76% of facilities have surpassed the second period targets of 15% or 17%. It seems clear that facility owners in Tokyo can see the long term benefits of reducing energy usage and have already taken steps to realize those goals.



Percentage of all facilities surpassing their obligations
(Inside: the first period/Outside: the second period)

Mr. Masahiro Kimura, Director of the Emission Cap and Trade section at the TMG Bureau of Environment, said, “In FY2014, the last year of the first compliance period, the Tokyo Cap-and-Trade Program achieved a 25% reduction compared to the base emissions, which is the largest reduction rate in the past 5 years. This means each facility has strived for further reduction measures toward the end of the compliance period. The total reduction amount for 5 years runs to 14 million tonnes. The great result of the introduction of the Tokyo Cap-and-Trade Program is that the managers of



Trends in CO₂ emissions

covered facilities have started to take more interest in CO2 reduction results and energy saving has become the consensus in those facilities. The second compliance period started last April and the facilities have been continuously working on the CO2 reduction plans. TMG settled on the new GHG reduction plan “30% reduction from the 2000 level by 2030”. We will make effective use of this program continuously to achieve that goal.

More Information

http://www.kankyo.metro.tokyo.jp/en/climate/cap_and_trade.html

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