

## TMG Certifies Ten “Top-Level Facilities” for Outstanding Global Warming Countermeasure Efforts Under the Tokyo Cap-and-Trade Program

In FY 2010, the Tokyo Metropolitan Government (TMG) started the world’s first urban cap-and-trade program for large facilities.

Under this program, TMG certifies “Top-Level” and “Near-Top-Level” facilities that have demonstrated excellence in efforts to counter global warming.



### ➤ Characteristics of Facilities Certified in FY 2017

- A large-scale factory built in the mid 1930s to the mid 1940s was certified Top-Level for introducing solar energy panels and efficient manufacturing equipment, as well as instituting an energy management program that all employee participate in.
- TMG bestowed a building constructed between mid 1960s and mid 1970s with Near-Top- Level status for implementing leading-edge energy saving equipment.
- A tenant building that utilized a web-based tenant energy management system, “cool biz” air conditioning units, and implemented effective energy reduction measures received Top-Level certification.
- TMG certified a data center that upgraded all of its air conditioning systems with energy-saving inverters with Top-Level.
- A tenant building that received Near-Top-Level certification in FY2016 was bestowed with Top-Level certification this year.

Certification Type	Category 1	Category 2
<b>Top-Level</b>	<b>ARK Hills Sengokuyama Mori Tower</b> (Mori Building Co., Ltd. , and others) <b>AT TOKYO Data Center #3 (DC3)</b> (AT TOKYO Corporation) <b>JR Minami Shinjuku Building</b> (East Japan Railway Company)	<b>Hamura Conveyance Pumping Station</b> (Bureau of Waterworks, TMG) <b>Fuchu Complex</b> (Toshiba Infrastructure Systems & Solutions corporation)
<b>Near-Top-Level</b>	<b>Art Village Osaki Central Tower</b> (Art Village Osaki Central Tower Management Union) <b>Kasumigaseki Building /Tokyo Club Building</b> (MITSUI FUDOSAN CO., LTD. / KASUMI KAIKAN /THE TOKYO CLUB) <b>SHINJUKU MITSUI BUILDING</b> (Mitsui Fudosan Co. Ltd.) <b>Heat Supply Center in Fuchunikkocho District</b> (TOKYO TOSHI SERVICE CO., LTD)	<b>Inagi Pumping Station</b> (Bureau of Waterworks, TMG)
<b>Total</b>	7 facilities	3 facilities

**Category 1:** office buildings, commercial facilities, research facilities, medical facilities, district heating and cooling plants, etc.

**Category 2:** factories, waterworks facilities, etc.

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## Top-Level Facility Certification under the Tokyo Cap-and-Trade Program

In the Tokyo Cap-and-Trade Program, facilities demonstrating outstanding performance in emissions reduction as well as in introduction, use and management of energy efficient equipment are certified as Top-Level Facilities that receive lower compliance factors according to their rate of progress.

The certification standards for Top-Level facilities represent the highest-level energy efficiency measures feasible at present, stipulating 213 different energy saving measures for office buildings, for example.

In the second compliance period, 52 facilities were certified as Top-Level as of the end of FY 2016.

An increase number of facilities use the standard as reference guidelines for energy efficiency in design and renovation processes.

### Compliance Factor applied for Top-Level Facilities

Group		Compliance Factor (Regular)	Top level Facility	Near-Top-Level Facility
I -1	Office Buildings, other facilities and DHC plants (except facilities falling under Group I-2)	17 %	8.5%	12.75%
I -2	Facilities belonging to Group I-1, which use large amounts of DHC	15%	7.5%	11.25%
II	Facilities other than Group I-1 or I-2 (Factories and others)	15%	7.5%	11.25%

Office Buildings; offices, government buildings, department stores, educational facilities, medical facilities, etc.

### Assessment Item for Top-Level facility Certification

- **General management items:** Establishment of cooperative structures for energy conservation, energy management status, etc.
- **Items concerning energy performance** (building shells and equipment): Energy efficiency of air conditioning, lighting and other facilities, equipment efficiency (COP), etc.
- **Items concerning operation of facilities:** Indoor temperature and humidity management, air conditioning and lighting, facility maintenance and management, etc.

Assessment Items	Office Buildings			Factories		
	Required	General	Additional	Required	General	Additional
<b>I General Management Items</b>	<b>17</b>	<b>4</b>	<b>2</b>	<b>17</b>	<b>4</b>	<b>2</b>
<b>II Energy Performance (Building shells and equipment)</b>	<b>25</b>	<b>39</b>	<b>51</b>	<b>14</b>	<b>51</b>	<b>133</b>
<b>III Operation of facilities</b>	<b>14</b>	<b>53</b>	<b>8</b>	<b>32</b>	<b>49</b>	<b>50</b>
<b>Subtotal</b>	<b>56</b>	<b>96</b>	<b>61</b>	<b>63</b>	<b>104</b>	<b>185</b>
<b>Total (Required +General)</b>	<b>213 (152)</b>			<b>352(167)</b>		

In order to acquire the certificate, the facility needs to have over 200 items checked in relation to the energy performance, operation, and the management of the facilities and building, and the score has to be 70 or better for Near-Top-Level, and 80 or better for Top-Level.

## Status of the Top-Level Facility Certification

	FY 2015	FY 2016	FY 2017	Total
Top-Level Facilities	15	9	5	29
Near-Top-Level Facilities	19	11	5	35
Total	34	20	10	64

## Examples of energy saving efforts at Top-Level Facilities

