

# ORGANIZATION

## 1. Resources

The TFD Personnel: **18,655**  
Fire Apparatus: **2,009**

Fire Stations: **81**

### (1) Personnel • Ranks

Chart 1-1. Personnel by Rank

(As of April 1, 2022)

Rank	Fire Chief	Deputy Fire Chief • First Assistant Chief	Assistant Chief • Battalion Chief	Fire Captain
Fixed Number of Personnel	1	21	413	1,538
Rank	Fire Lieutenant	Fire Sergeant	Firefighter	Others
Fixed Number of Personnel	4,599	5,421	6,240	422
Total	18,655			

### (2) Budget / the TFD Main Policies

Chart 1-2-1. Planned Revenue

(Unit: 1,000 yen)

Category	2022	2021	Increase/Decrease	
Subsection			Amount	Rate of Change(%)
Commission and Royalties	345,741	370,036	▲ 24,295	▲ 6.6
National Treasury Disbursements	1,084,111	1,013,833	70,278	6.9
Property Income	764,036	763,556	480	0.1
Balance Carried Forward	1,723,599	6,255,908	▲ 4,532,309	▲ 72.4
Other Income	46,597,561	45,275,186	1,322,375	2.9
Tokyo Metropolitan Government Credit	5,801,000	10,542,000	▲ 4,741,000	▲ 45.0
Total	56,316,048	64,220,519	▲ 7,904,471	▲ 12.3

Chart 1-2-2. Planned Expenditure

The supplementary budget is not included in the Tokyo Metropolitan Government's General Account for fiscal 2021.  
The simultaneous supplementary budget is not included in the Tokyo Metropolitan Government's General Account for fiscal 2022. (Unit: 1,000 yen)

Category	2022	2021	Increase/Decrease	
Subsection Item			Amount	Rate of Change(%)
Fire Service Cost	253,422,000	251,067,000	2,355,000	0.9
Fire Management Cost	199,773,000	199,615,000	158,000	0.1
Fire Activity Cost	23,473,000	23,368,000	105,000	0.4
Volunteer Fire Corps Cost	3,826,000	3,900,000	▲ 74,000	▲ 1.9
Retirement Bonus and Pension	9,508,000	7,845,000	1,663,000	21.2
Construction Cost	16,842,000	16,339,000	503,000	3.1
Metropolitan Government's General Account	7,801,000,000	7,425,000,000	376,000,000	5.1

$$\frac{\text{Fire Cost}}{\text{Metropolitan Government's General Account}} = \frac{¥253,422,000,000}{¥7,801,000,000,000} \times 100 (\%) = 3.2\%$$

Chart 1-2-3. Planned Expenditure by Category

(Unit: 1,000 yen)

Classification	2022		2021		Increase/Decrease	
	Budget Amount	Component Ratio	Budget Amount	Component Ratio	Amount	Rate of Change(%)
Payroll	198,063,312	78.2	196,808,995	78.4	1,254,317	0.6
Salary Payment	124,135,834	49.0	123,405,819	49.1	730,015	0.6
Retirement Bonus	9,400,250	3.7	7,722,220	3.1	1,678,030	21.7
Other Personnel Payments	64,527,228	25.5	65,680,956	26.2	▲ 1,153,728	▲ 1.8
Project Cost	55,358,688	21.8	54,258,005	21.6	1,100,683	2.0
Total	253,422,000	100.0	251,067,000	100.0	2,355,000	0.9

# TOKYO FIRE DEPARTMENT'S MAIN POLICIES (Fiscal 2022)

## **POLICY 1** Comprehensive Enhancement of the Safety Culture and Workforce

- Building a new system of safety promotion.
- Educating the personnel for an enhanced workforce.

## **POLICY 2** Enhancement of On-scene Fire Department Abilities for Safe, Quick Responses

- Developing earthquake preparedness and the steps for large disasters (e.g., storms and floods)
- Developing on-scene safety management

## **POLICY 3** Enhancement of the On-scene EMS System

- Developing the effectiveness of on-scene activities
- Encouraging people to learn, conduct and observe first-aid treatment and the rule of the proper use of ambulance service

## **POLICY 4** Enhancement of Community Disaster Preparedness with Local Residents

- Developing individuals' disaster preparedness through fire and emergency drills
- Enlarging the membership of volunteer fire corps and developing local emergency management

## **POLICY 5** Enhancement of the Tactics for Each Fire Prevention Measure

- Developing on-the-spot inspection systems and fire protection management for each workplace
- Developing fire safety steps for entertainment / shopping areas

## **POLICY 6** Enhancement of the DX System and Fire Administration

- Achieving efficient administration through an enhanced DX.
- Promoting the PR strategy to develop and urge the public's awareness and action

# TFD Deployed Apparatus (As of April 2022)

The TFD has 2,009 fire apparatus including fire engines, foam trucks, ladder trucks and others (excl. the vehicles owned by other organizations). Deployment of major fire vehicles for each fire district is as below.

## TFD Jurisdiction

Fire Engines	489
Ladder Trucks	86
Foam Trucks	48
Fireboats	9
Ambulances	271
Daytime Ambulances	4
Rescue Trucks	29
Rescue Trucks (for earthquake countermeasures)	4
Rescue Trucks (for loading air tools)	2
Water Rescue Trucks	4
Mountain Rescue Trucks	5
Special Rescue Trucks	18
First Arrival Vehicles	6
First Arrival Vehicles	3
Motorcycles	20
Helicopters	7
Heavy Vehicles (for rescue)	8
Heavy Vehicles (for road clearance)	6

## 8th Fire District HQ 15 Fire Stations

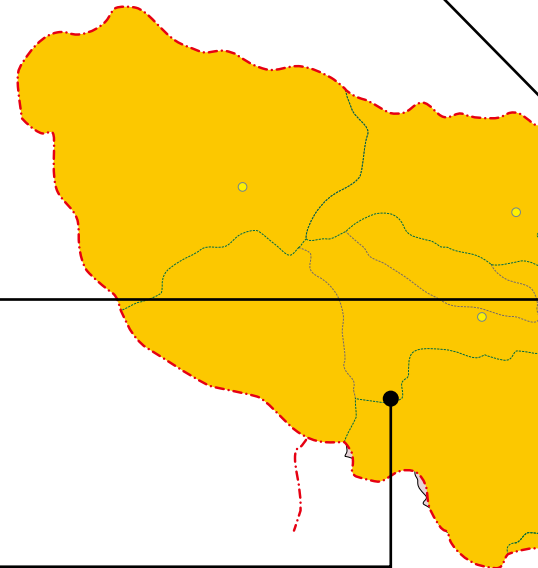
Fire Engines	83
Ladder Trucks	15
Foam Trucks	5
Ambulances	47
Rescue Trucks	3
Water Rescue Truck	1
Special Incident Trucks	2

### Fire Rescue Task Forces

Foam Truck	1
Rescue Truck	1
Rescue Trucks (for earthquake countermeasures)	1
Rescue Trucks (for loading air tools)	2
Special Incident Truck	1
Heavy Rescue Trucks	2
Heavy Vehicles (for road clearance)	2

## TFD HQ Rescue Operation Forces

Rescue Truck	1
Crawler Rescue Trucks	4
First Arrival Vehicle (a small electrical vehicle)	1



## 9th Fire District HQ 8 Fire Stations

Fire Engines	48
Ladder Trucks	8
Foam Trucks	6
Ambulances	33
Rescue Trucks	4
Mountain Trucks	5
Special Incident Truck	1
Motorcycles	4

### Fire Rescue Task Forces

Fire Engine	1
Rescue Truck (for earthquake countermeasures)	1
Special Incident Trucks	3
Heavy Vehicles	2

## 4th Fire District HQ 7 Fire Stations

Fire Engines	51
Ladder Trucks	8
Foam Trucks	2
Ambulances	27
Rescue Trucks	2

## 3rd Fire District HQ 5 Fire Stations

Fire Engines	42
Ladder Trucks	5
Foam Truck	1
Ambulances	25
Rescue Trucks	2
Motorcycles	4

### Fire Rescue Task Forces

Fire Engine	1
Rescue Truck	1
Special Incident Vehicles	3
Crawler Rescue Truck	1

### ■ Air Fire Rescue Task Forces

Fire Engine	1
Rescue Truck	1
Helicopters	(*)

\* The TFD owns 7 helicopters and flexibly operate them depending on disasters.

### ■ Mobility Ambulance Units

Ambulances	4
------------	---

\* The ambulances change its station to the area where the EMS demand is high depending on time and are flexibly operated.

### ■ 6th Fire District HQ 8 Fire Stations

Fire Engines	48
Ladder Trucks	8
Foam Trucks	4
Ambulances	24
Rescue Trucks	2
Water Rescue Truck	1
Special Incident Truck	1
First Arrival Vehicles (Electrical Trike)	2
Motorcycles	2

#### Fire Rescue Task Forces

Fire Engine	1
Foam Truck	1
Rescue Truck	1
Rescue Truck (for earthquake countermeasures)	1
Special Incident Truck	1
Crawler Rescue Truck	1
Heavy Vehicles (for rescue)	2
Heavy Vehicles (for road clearance)	2

### ■ 10th Fire District HQ 5 Fire Stations

Fire Engines	32
Ladder Trucks	5
Foam Trucks	4
Ambulances	19
Daytime Ambulance	1
Rescue Trucks	3
Special Incident Truck	1

### ■ 5th Fire District HQ 7 Fire Stations

Fire Engines	40
Ladder Trucks	7
Foam Trucks	2
Ambulances	18
Daytime Ambulance	1
Rescue Truck	1
Special Incident Truck	1
Motorcycles	2

### ■ 7th Fire District HQ 9 Fire Stations

Fire Engines	57
Ladder Trucks	10
Foam Trucks	11
Ambulances	37
Daytime Ambulance	1
Rescue Trucks	3
Water Rescue Truck	1
Special Incident Truck	1
Motorcycles	4

### ■ 2nd District HQ 7 Fire Stations

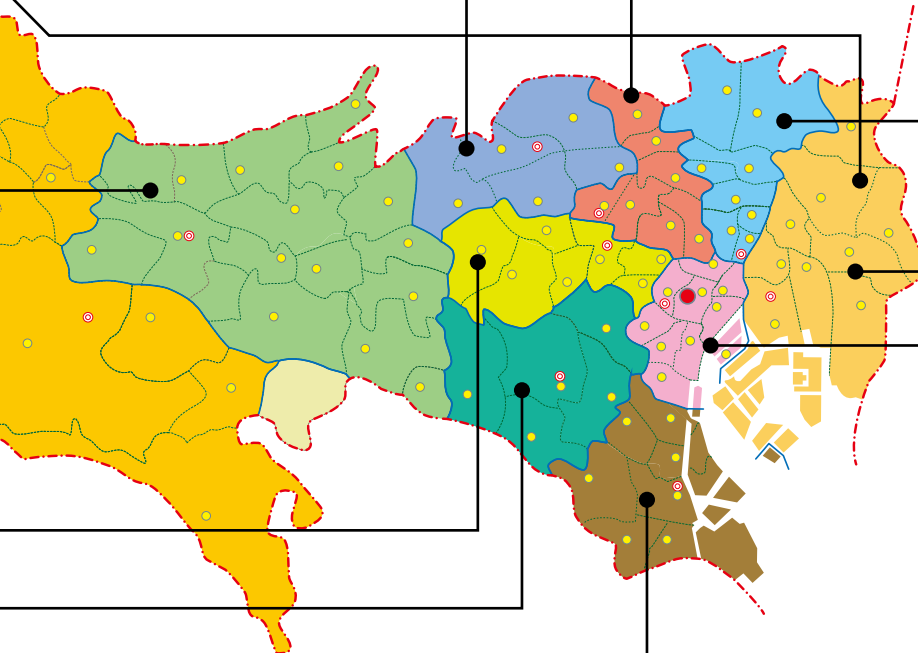
Fire Engines	45
Ladder Trucks	7
Foam Trucks	6
Ambulances	22
Daytime Ambulance	1
Rescue Truck	1
Water Rescue Truck	1
Special Incident Truck	1
Motorcycles	2

#### Fire Rescue Task Forces

Fire Engine	1
Foam Truck	1
Rescue Truck	1
Rescue Truck (for earthquake countermeasures)	1
Special Incident Truck	1
Heavy Vehicles (for rescue)	2
Heavy Vehicles (for road clearance)	2

### ■ 1st Fire District HQ 10 Fire Stations

Fire Engines	38
Ladder Trucks	13
Foam Trucks	4
Fireboats	9
Ambulances	15
Rescue Trucks	2
Special Incident Truck	1
Motorcycles	2



## 2. Safety Promotion Comes Again

### (1) New Team for Greater Safety

The TFD, importantly with a focus on safety improvement, further viewed its safety promotion strategy after the serious incidents that newly occurred. With the review, we totally analyzed the causes of incidents, looked into the factors that could have been attributed to the TFD, and established additional safety steps overall. Then we came forth with the **Safety Promotion Division**. This is the "one and only" specialist team in Japan promoting the Safety Culture\*.

\* Safety Culture: With the motto "Safety comes first," the members prepare for the worst, hoping for the best.

#### Safety Culture (Four Points)

▶ <b>Flexible</b>	Deciding by fact-finding (while following manuals or standards)
▶ <b>Diligent</b>	Learning lessons from on-scene emergencies and other industries' incidents / Taking new steps forward
▶ <b>Honest</b>	Sharing mistakes and carelessness facts / Letting no more failure happen
▶ <b>Just</b>	Accepting others' efforts even after accidents / Taking decisive action against indecent, improper behavior

### (2) Safety Promotion Division (Concept)

#### Three Visions and Functions

<b>1</b> WHOLE	— <b>Overall Promotion</b> — Realizing improvement with an across-the-board view / Promoting measures collectively in a body / Taking outsiders' expertise
<b>2</b> ESSENCE	— <b>Analysis &amp; Judgement</b> — Checking incident causes and deciding on measures scientifically also in terms of human factors / Achieving essential improvement / Making advantage of the knowhow to support on-scene activities or conduct fire investigations
<b>3</b> FUTURE	— <b>Technology &amp; Development</b> — Proceeding as the "one and only" specialized team in Japan for greater safety / Looking into existing and future safety technology

## 3. Safety Technology Section

### (1) Background

In April 1961, the TFD established the Fire Science Laboratory as the first research body in the history of Japan's municipal fire service in order to cope with unprecedented types of fires and others amid the rapid development in society.

In April 2006, the Laboratory came to bear a new name of Fire Technology and Safety Laboratory, and as a new organization to support on-scene activities scientifically as well.

In April 2022, the Safety Promotion Section was established in the Safety Promotion Division as a successor to the previous body.



▲ Start 1961



▲ Change 2006



▲ Change(Safety Promotion Div.) 2022

### (2) Policy

- 1 Serving as a bridge between technology and disaster scene activities / Working on creating safe communities "SAFETY" for the present and future
- 2 Providing specialized knowledge / Working on enhancing TFD policies in terms of technology
- 3 Promoting the latest technology with the view and vision of the Tokyo Metropolitan Government and the public in mind / Working on creating new administrative measures



## 4. International Cooperation

### (1) IRT (International Rescue Team)

The IRT was formed on April 1, 1986 by the Fire Defense Agency, the Home Affairs Ministry (presently, the Fire and Disaster Management Agency, the Ministry of Internal Affairs and Communications) with the cooperation of other related authorities. This team system came forth with lessons learned from the Mexico City Earthquake on September 19, 1985 and the Eruption of Nevado del Ruiz in Colombia on November 14, 1985. The team members have achieved their missions 21 times out of Japan so far.

Chart 4-1. IRT's Achievement

	DATE	PLACE	DAMAGE	TFD MEMBER
1	Aug. 27, 1986 (11 days)	Republic of Cameroon	Death: Over 1,700	1
2	Oct. 11, 1986 (10 days)	Republic of El Salvador	Death: 1,226	5
3	June 22, 1990 (11 days)	Islamic Republic of Iran	Death: Over 80,000	5
4	July 18, 1990 (9 days)	Republic of the Philippines	Death: Over 1,600	2
5	May 15, 1991 (23 days)	People's Republic of Bangladesh	Death: 130,000	17
6	Dec. 13, 1993 (8 days)	Malaysia	Death: 48	6
7	Oct. 30, 1996 (8 days)	Arab Republic of Egypt	Death: 64	3
8	Oct. 22, 1997 (21 days)	Republic of Indonesia	Burnt Area: 18,000 ha	19
9	Jan. 26, 1999 (10 days)	Republic of Colombia	Death: 1,171	8
10	Aug. 17, 1999 (8 days)	Republic of Turkey	Death: 15,370	12
11	Sept. 21, 1999 (8 days)	Taiwan	Death: 2,333	18
12	May 22, 2003 (8 days)	People's Democratic Republic of Algeria	Death: 2,266	8
13	Feb. 25, 2004 (6 days)	Kingdom of Morocco	Death: 628	4
14	Dec. 29, 2004 (23 days)	Kingdom of Thailand	Death: 229,866	23
15	Oct. 9, 2005 (10 days)	Islamic Republic of Pakistan	Death: 73,338	6
16	May 15, 2008 (7 days)	People's Republic of China	Death: 69,227	6
17	Oct. 1, 2009 (8 days)	Republic of Indonesia	Death: 1,117	6
18	Feb. 22, 2011 (19 days)	New Zealand	Death: 181	16
19	Apr. 26, 2015 (14 days)	Federal Democratic Republic of Nepal	Death: 8,896	6
20	Sept. 21, 2017 (8 days)	United Mexican States	Death: 369	6
21	Feb. 8, 2018 (3 days)	Taiwan	Death: 17	2



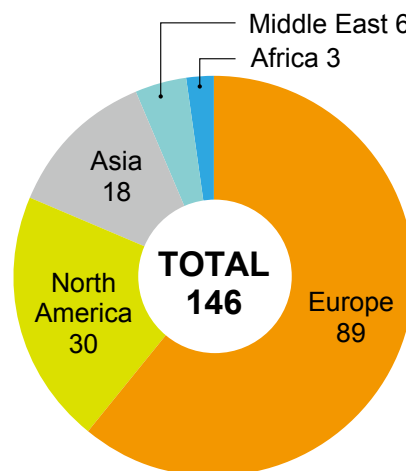
## (2) Relations with Foreign Fire Departments

The TFD, as the "lifesaver of Japan's capital Tokyo," attracts foreign countries' attraction, accepting a lot of overseas emergency responders every year. They share information, promote friendship, learn rescue skills, and so on.

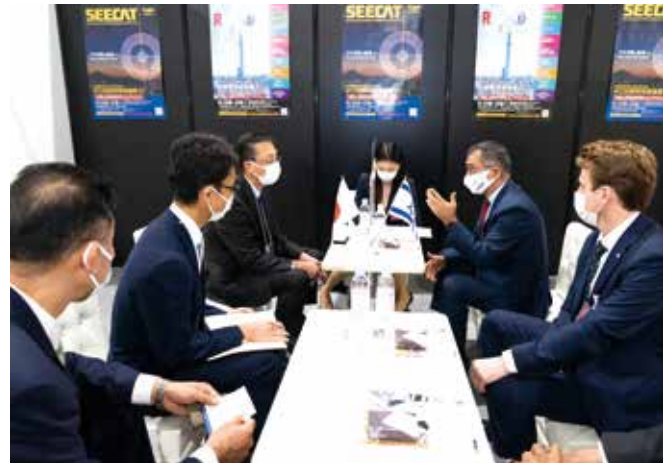
Notably, the daily contact and network with foreign fire departments can lead to the immediate teamwork in emergencies, and help the TFD raise its international communication capabilities.

In 2021, the TFD welcomed in 146 foreign fire service members. The TFD thus continues interchanges and exchanges with various countries in Europe and other parts of the world.

Chart 4-2. Visitors 2021



▲ French President's Doctors visited the TFD for understanding its EMS services due to the president's attendance of the Tokyo 2020 Games.



▲ The TFD's Fire Chief and Israeli Ambassador held a meeting at the RISCOT TOKYO 2022 for information exchange on fire service and future cooperation in development between the two nations.

## (3) Participation of International Meetings

Our members take part in international meetings with the aim of collecting information of state-of-the-art technologies and fire apparatus, delivering lectures on our technology and knowledge and exchanging information with overseas fire executives.



▲ With Fire Chiefs of the Paris Fire Brigade and the TFD at the top of the list, 18 members in total from Paris and Tokyo took part in a web meeting and discussed latest technologies and fire measures against large-scale events at the annual assembly.





## 5. Relations with Foreign Residents and Visitors in Tokyo

### (1) Safety Information

#### 1 Pamphlets and Leaflets

The TFD Website presents 5-language pamphlet/leaflet tips to foreign residents and visitors in Tokyo. It tells, in English, Chinese, Korean, Thai and Filipino, how to make an emergency call (1-1-9), how to protect yourself from an earthquake, and so on.



#### 2 Tips for Embassies

In Tokyo, 159 embassies and other related establishments are found. They protect their own nations. After the start of the mail magazine system for them, the TFD has 106 subscribers now (as of April, 2022). This periodical tells about Japan's fire service, the TFD's measures, the events by the local fire station, local area disaster facts, and more.

In receipt of favorable feedback from embassies in the past, the TFD will continue to contribute to the safety of foreign people.

### (2) Communication Support Tools

#### 1 EMS VoiceTra

To secure the safety stay of the foreign nationals in Tokyo, All the TFD EMS units have *EMS VoiceTra*, the multilingual translation app., since July, 2022.

*EMS VoiceTra* is an app. which was developed based on *VoiceTra*, the multilingual voice translation app, by the joint work of the National Institute of Information and Communications Technology (NICT) and the National Research Institute of Fire and Disaster with the Fire and Disaster Management Agency of the Ministry of Internal Affairs and Communications. 30 languages are available and for 15 out of 30 languages, commonly used conversational phrases on the EMS scenes are installed. It enables EMS crews and patients to communicate by voice and words displayed on the screen.

#### Chart 5-1. Transported Foreign Patients

	2017	2018	2019	2020	2021
Victims	11,636	12,936	14,096	10,752	11,625

#### 2 Communication Support Board

It is expected that the number of foreign residents and travelers will increase this year. Accordingly, every reception desk of the fire stations within the TFD jurisdiction has the communication support board in five languages with illustrations and pictograms in order to facilitate communication with foreign nationals who directly inform the fire station of their emergencies.

