

Site Report (FY2024)

Japan:	Toyo Tire Corp.	Sendai Plant
		Kuwana Plant
		Hyogo Manufacturing Complex
		Tire Technical Center
		Automotive Parts Technical Center
		Corporate Technology Center
		Headquarters
		Tokyo Office
		Hiroshima Office
		Kanto Distribution Center
		Kansai Distribution Center
		Fukushima Rubber Co., Ltd.
		Ayabe Toyo Rubber Co., Ltd.
US:		Orient Machinery Co., Ltd.
		Toyo Tire Japan Co., Ltd.
		TOYO AUTOMOTIVE PARTS (USA), INC.
China:		TOYO TIRE NORTH AMERICA MANUFACTURING INC.
		TOYO AUTOMOTIVE PARTS (GUANGZHOU) CO., LTD.
		TOYO TIRE ZHANGJIAGANG CO., LTD
Malaysia:		TOYO TIRE (ZHUCHENG) CO., LTD.
		TOYO TYRE MALAYSIA SDN BHD
		TOYO RUBBER CHEMICAL PRODUCTS (THAILAND) LIMITED
Thailand:		
Serbia:		TOYO TIRE SERBIA D.O.O.

Period:

January -December 2024	Energy consumption, CO2 emissions, SOx load, NOx load, Water withdrawal, Water discharge, Water quality load, Water pollution, Waste, Recycled waste, Reused waste
April 2023- March 2025	VOC emissions, PRTR substances(Handled, Emitted, Transferred)

*VOC emissions: The total of substances for which at least 1 ton is used annually at each business site

*PRTR substances: "Class 1 chemical substances" are those of which at least 1 ton is used annually at each production facility, and "designated class 1 chemical substances" are those of which at least 0.5 ton is used annually at each production facility.

* The data on waste from Ayabe Toyo Rubber Co., Ltd. Includes the amounts from their respective neighboring facilities of other companies (the amount of waste for joint treatment)

Toyo Tire Corp.

1. Sendai Plant

Location	Iwanuma-shi, Miyagi Japan			
Products	Automobile tires			
Energy consumption	1,913.7 (1000GJ)			
CO2 emissions	95.8 (1000t-CO2)			
VOC emissions	250.0 (t)			
SOx load	0.00 (t)			
NOx load	68.3 (t)			
Water withdrawal	1,069.2 (1000t)			
Water discharge	863.7 (1000t)			
Water quality load	• BOD		1.1 (t)	
	• COD		5.3 (t)	
Water pollution	• pH	Max.	7.9	*Regulation of the law: 5.8 - 8.6
		Min.	7.1	
		Ave.	7.5	
	• BOD	Max.	2.0 (mg/L)	*Regulation of the law: 120
		Min.	0.5 (mg/L)	
		Ave.	1.1 (mg/L)	
	• COD	Max.	6.6 (mg/L)	*Regulation of the law: 120
		Min.	2.8 (mg/L)	
		Ave.	5.3 (mg/L)	
	• SS	Max.	11.0 (mg/L)	*Regulation of the law: 150
		Min.	2.0 (mg/L)	
		Ave.	5.8 (mg/L)	
Waste	3,931.4 (t)			
Recycled waste	3,931.4 (t)			
Reused waste	0.00 (t)			
PRTR substances	- Handled	681.3 (t)		
	- Emitted	13.2 (t)		
	- Transferred	12.0 (t)		

2. Kuwana Plant

Location	Toin-cho, Inabe-gun, Mie Japan			
Products	Automobile tires, automotive parts			
Energy consumption	1,942.1 (1000GJ)			
CO2 emissions	81.9 (1000t-CO2)			
VOC emissions	252.9 (t)			
SOx load	0.00 (t)			
NOx load	75.7 (t)			
Water withdrawal	882.4 (1000t)			
Water discharge	390.1 (1000t)			
Water quality load	• BOD	0.46 (t)		
	• COD	1.06 (t)		
Water pollution	• pH	Max.	7.7	*Regulation of the ordinance: 6.0 - 8.0
		Min.	7.4	
		Ave.	7.6	
	• BOD	Max.	2.0 (mg/L)	*Regulation of the pollution prevention agreement with local governments: 8
		Min.	<1 (mg/L)	
		Ave.	1.4 (mg/L)	
	• COD	Max.	4.0 (mg/L)	*Regulation of the pollution prevention agreement with local governments: 8
		Min.	2.0 (mg/L)	
		Ave.	3.1 (mg/L)	
	• SS	Max.	2.0 (mg/L)	*Regulation of the pollution prevention agreement with local governments: 10
		Min.	< 2 (mg/L)	
		Ave.	2.0 (mg/L)	
Waste	5,942.0 (t)			
Recycled waste	5,942.0 (t)			
Reused waste	0.00 (t)			
Water pollution	- Handled	1,292.4 (t)		
	- Emitted	248.2 (t)		
	- Transferred	68.9 (t)		

3. Hyogo Manufacturing Complex

Location	Inami-cho, Kako-gun, Hyogo Japan
Energy consumption	1.05 (1000GJ)
CO2 emissions	0.07 (1000t-CO2)
Water withdrawal	0.11 (1000t)
Water discharge	0.11 (1000t)
Waste	1.1 (t)
Recycled waste	1.1 (t)
Reused waste	0.00 (t)

4. Tire Technical Center

Location	Itami-shi, Hyogo Japan
Energy consumption	22.4 (1000GJ)
CO2 emissions	0.2 (1000t-CO2)
Water withdrawal	7.4 (1000t)
Waste	556.7 (t)
Recycled waste	556.7 (t)
Reused waste	0.00 (t)

5. Automotive Parts Technical Center

Location	Miyoshi-shi, Aichi Japan
Energy consumption	10.4 cc
CO2 emissions	0.01 (1000t-CO2)
Water withdrawal	3.5 (1000t)
Waste	30.3 (t)
Recycled waste	30.3 (t)
Reused waste	0.00 (t)

6. Corporate Technology Center

Location	Kawanishi-shi, Hyogo Japan
Energy consumption	16.8 (1000GJ)
CO2 emissions	0.4 (1000t-CO2)
Water withdrawal	7.4 (1000t)
Waste	47.4 (t)
Recycled waste	47.4 (t)
Reused waste	0.00 (t)

7. Headquarters

Location	Itami-shi, Hyogo Japan
Energy consumption	7.96 (1000GJ)
CO2 emissions	0.31 (1000t-CO2)
Water withdrawal	6.6 (1000t)
Waste	35.7 (t)
Recycled waste	35.7 (t)
Reused waste	0.00 (t)

8. Tokyo Office

Location	Shinagawa-ku, Tokyo Japan
Energy consumption	0.17 (1000GJ)
CO2 emissions	0.01 (1000t-CO2)
Water withdrawal	
Waste	0.0 (t)
Recycled waste	0.0 (t)
Reused waste	0.00 (t)

9. Hiroshima Office

Location	Hiroshima-shi, Hiroshima Japan
Energy consumption	0.04 (1000GJ)
CO2 emissions	0.005 (1000t-CO2)
Water withdrawal	0.00 (1000t)
Waste	0.0 (t)
Recycled waste	0.0 (t)
Reused waste	0.00 (t)

10. Kanto Distribution Center

Location	Iruma-shi, Saitama Japan
Energy consumption	0.69 (1000GJ)
CO2 emissions	0.12 (1000t-CO2)
Water withdrawal	0.45 (1000t)
Waste	21.8 (t)
Recycled waste	21.8 (t)
Reused waste	0.00 (t)

11. Kansai Distribution Center

Location	Kobe-shi, Hyogo Japan
Energy consumption	0.49 (1000GJ)
CO2 emissions	0.05 (1000t-CO2)
Water withdrawal	0.30 (1000t)
Waste	3.0 (t)
Recycled waste	3.0 (t)
Reused waste	0.00 (t)

Fukushima Rubber Co., Ltd.

Location	Fukushima-shi, Fukushima Japan			
Products	Automobile tires, automotive parts			
Energy consumption	52.9 (1000GJ)			
CO2 emissions	2.0 (1000t-CO2)			
VOC emissions	1.1 (t)			
SOx load	1.3 (t)			
NOx load	3.7 (t)			
Water withdrawal	164.4 (1000t)			
Water discharge	174.9 (1000t)			
Water quality load	• BOD	0.55 (t)		
	• COD	0.58 (t)		
Water pollution	• pH	Max.	8.0	*Regulation of the law: 5.8 - 8.6
		Min.	7.1	
		Ave.	7.5	
	• BOD	Max.	12.0 (mg/L)	*Regulation of the law: 25
		Min.	1.2 (mg/L)	
		Ave.	3.2 (mg/L)	
	• COD	Max.	8.9 (mg/L)	*Regulation of the law: 40
		Min.	2.3 (mg/L)	
		Ave.	3.7 (mg/L)	
• SS	Max.	9.3 (mg/L)	*Regulation of the law: 70	
	Min.	1.7 (mg/L)		
	Ave.	4.0 (mg/L)		
Waste	169.1 (t)			
Recycled waste	169.1 (t)			
Reused waste	0.00 (t)			
PRTR substances	- Handled	21.4 (t)		
	- Emitted	0.0 (t)		
	- Transferred	0.1 (t)		

Ayabe Toyo Rubber Co., Ltd.

Location	Ayabe-shi, Kyoto Japan			
Products	Automotive parts			
Energy consumption	12.1 (1000GJ)			
CO2 emissions	0.30 (1000t-CO2)			
VOC emissions	3.1 (t)			
SOx load	-	(t)	*Not yet measured	
NOx load	-	(t)	*Not yet measured	
Water withdrawal	22.8 (1000t)			
Water quality load	• BOD		0.05 (t)	
	• COD		0.18 (t)	
Water pollution	• pH	Max.	7.7	*Regulation of the law: 25
		Min.	6.4	
		Ave.	7.0	
	• BOD	Max.	6.0 (mg/L)	*Regulation of the law: 25
		Min.	0.5 (mg/L)	
		Ave.	2.4 (mg/L)	
	• COD	Max.	16.0 (mg/L)	*Regulation of the law: 120
		Min.	1.4 (mg/L)	
		Ave.	7.9 (mg/L)	
	• SS	Max.	ND (mg/L)	*Regulation of the law: 90
		Min.	ND (mg/L)	/ND : less than the lower
		Ave.	ND (mg/L)	quantitative limit
Waste	112.6 (t)			
Recycled waste	112.6 (t)			
Reused waste	0.00 (t)			
PRTR substances	- Handled	4.8 (t)		
	- Emitted	3.1 (t)		
	- Transferred	1.7 (t)		

Orient Machinery Co., Ltd.

Location	Itami-shi, Hyogo Japan (HQ), Iwanuma-shi, Miyagi Japan (office), Kobe-shi, Hyogo Japan (office)	
Products	Mechanical equipment, tire mold	
Energy consumption	5.40	(1000GJ)
CO2 emissions	0.72	(1000t-CO2)
Water withdrawal	2.1	(1000t)
Waste	33.1	(t)
Recycled waste	33.1	(t)
Reused waste	0.00	(t)

Toyo Tire Japan Co., Ltd.

Location	Itami-shi, Hyogo Japan (HQ) with sales bases across Japan	
Energy consumption	58.5	(1000GJ)
CO2 emissions	4.34	(1000t-CO2)
Water withdrawal	7.8	(1000t)
Waste	4,802.6	(t)
Recycled waste	4,802.6	(t)
Reused waste	0.00	(t)

TOYO TIRE NORTH AMERICA MANUFACTURING INC.

Location	Kentucky, U.S.A
Products	Automotive parts
Energy consumption	1,737.5 (1000GJ)
CO2 emissions	48.6 (1000t-CO2)
Water withdrawal	365.0 (1000t)
Water discharge	151.8 (1000t)
Waste	11,053.4 (t)

東洋橡塑（広州）有限公司

(TOYO AUTOMOTIVE PARTS (GUANGZHOU) CO., LTD.)

Location	Guangzhou, China
Products	Automotive parts
Energy consumption	41.6 (1000GJ)
CO2 emissions	5.4 (1000t-CO2)
Water withdrawal	18.0 (1000t)
Water quality load	・ BOD 0.12 (t)
	・ COD 0.63 (t)
Waste	733.2 (t)

通伊欧輪胎張家港有限公司**(TOYO TIRE ZHANGJIAGANG CO.,LTD.)**

Location	Jiangsu, China
Products	Automobile tires
Energy consumption	154.4 (1000GJ)
CO2 emissions	14.4 (1000t-CO2)
SOx load	0.00 (t)
NOx load	0.42 (t)
Water withdrawal	29.7 (1000t)
Water discharge	33.1 (1000t)
Water quality load	• BOD 1.19 (t)
	• COD 4.90 (t)
Waste	291.1 (t)

通伊欧輪胎（諸城）有限公司**(TOYO TIRE (ZHUCHENG) CO.,LTD.)**

Location	Shandong, China
Products	Automobile tires
Energy consumption	218.4 (1000GJ)
CO2 emissions	21.8 (1000t-CO2)
Water withdrawal	62.8 (1000t)
Waste	664.7 (t)

TOYO TYRE MALAYSIA SDN BHD

Location	Perak, Malaysia
Products	Automobile tires
Energy consumption	754.8 (1000GJ)
CO2 emissions	33.3 (1000t-CO2)
Water withdrawal	257.6 (1000t)
Water discharge	216.6 (1000t)
Waste	1,869.5 (t)

TOYO RUBBER CHEMICAL PRODUCTS (THAILAND) LIMITED

Location	Ayutthaya, Thailand
Products	Automotive parts
Energy consumption	1.74 (1000GJ)
CO2 emissions	0.19 (1000t-CO2)
Water withdrawal	0.68 (1000t)
Water discharge	0.55 (1000t)
Waste	0.72 (t)

• TOYO TIRE SERBIA D.O.O.

Location	Industrijska, Serbia
Products	Automobile tires
Energy consumption	365.08 (1000GJ)
CO2 emissions	9.6 (1000t-CO2)
Water withdrawal	151.5 (1000t)
Water discharge	16.1 (1000t)
Waste	5,197.6 (t)