Site Report (FY2023)

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. Orient Machinery Co., Ltd.

Toyo Tire Japan

US: TOYO AUTOMOTIVE PARTS (USA), INC.

TOYO TIRE NORTH AMERICA MANUFACTURING INC.

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

TOYO TIRE ZHANGJIAGANG CO., LTD.

TOYO TIRE (ZHUCHENG) CO., LTD.

Malaysia: TOYO TYRE MALAYSIA SDN BHD

Thailand: TOYO RUBBER CHEMICAL PRODUCTS (THAILAND) LIMITED

Serbia: TOYO TIRE SERBIA D.O.O.

Period:

January - December, 2023 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 2024 VOC emissions, PRTR substances (Handled, Emitted, Transferred)

*VOC emissions: the total for 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 water discharge from the Toyo Tire Corporation Hyogo Manufacturing Complex and on waste from Ayabe Toyo Rubber Co., Ltd. includes the amounts from their respective neighboring facilities of other companies (the amount of water discharge / waste for joint treatment, respectively).

Toyo Tire Corp.

1. Sendai Plant

Location	Iwanuma-city, Miyagi Japan					
Products	Automobile tires					
Energy consumption			2,048.3	(1000GJ)		
CO2 emissions			101.5	(1000t-CO2)		
VOC emissions			266.4	(t)		
SOx load			0.0	(t)		
NOx load			55.9	(t)		
Water withdrawal			1,197.4	(1000t)		
Water discharge			852.9	(1000t)		
Water quality load	·BOD		1.3	(t)		
	·COD		6.2	(t)		
Water pollution	·pH	Max.	8.0		*Regulation of the law	5.8~8.6
		Min.	7.1			
		Ave.	7.6			
	·BOD	Max.	1.9	(mg/L)	*Regulation of the law	120
		Min.	0.5	(mg/L)		
		Ave.	1.2	(mg/L)		
	·COD	Max.	7.0	(mg/L)	*Regulation of the law	120
		Min.	3.9	(mg/L)		
		Ave.	5.6	(mg/L)		
	·SS	Max.	11.0	(mg/L)	*Regulation of the law	150
		Min.	2.0	(mg/L)		
		Ave.	5.5	(mg/L)		
Waste			3,695.8	(t)		
Recycled waste			3,695.8	(t)		
Reused waste			0.0	(t)		
PRTR substances	· Handled		775.7	(t)		
	• Emitted		23.1	(t)		
	 Transferred 		13.6	(t)		

2. Kuwana Plant

Location

Location			rom cho, mab	c gair, wire Jap	7411
Products		A	Automobile tire	es, Automotive	parts
Energy consumption			1,969.2	(1000GJ)	
CO2 emissions			82.6	(1000t-CO2)	
VOC emissions			261.8	(t)	
SOx load			0.78	(t)	
NOx load			80.1	(t)	
Water withdrawal			867.4	(1000t)	
Water discharge			341.2	(1000t)	
Water quality load	·BOD		0.38	(t)	
	·COD		0.82	(t)	
Water pollution	·pH	Max.	7.7		*Regulation of the ordinance $6.0\sim8.0$
		Min.	7.4		
		Ave.	7.5		
	·BOD	Max.	2.0	(mg/L)	*Regulation of the pollution prevention
		Min.	<1	(mg/L)	agreement with local governments 8
		Ave.	1.4	(mg/L)	
	·COD	Max.	5.0	(mg/L)	*Regulation of the pollution prevention
		Min.	2.0	(mg/L)	agreement with local governments 8
		Ave.	2.8	(mg/L)	
	·SS	Max.	2.0	(mg/L)	*Regulation of the pollution prevention
		Min.	< 2	(mg/L)	agreement with local governments 10
		Ave.	2.0	(mg/L)	
Waste			6,125.9	(t)	
Recycled waste			6,125.9	(t)	
Reused waste			0.0	(t)	
PRTR substances	 Handled 		1,258.6	(t)	
	 Emitted 		201.4	(t)	
	 Transferred 	l	58.2	(t)	

Toin-cho, Inabe-gun, Mie Japan

3. Hyogo Manufacturing Complex

Location Inami-cho, Kako-gun, Hyogo Japan

Energy consumption	1.02	(1000GJ)
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CO2 emissions 0.07 (1000t-CO2)

Water withdrawal 0.14 (1000t)
Water discharge 0.14 (1000t)

Waste 1.4 (t)

Recycled waste 1.4 (t)

Reused waste 0.0 (t)

4. Tire Technical Center

Location Itami-city, Hyogo Japan

Energy consumption 22.2 (1000GJ)

CO2 emissions 0.1 (1000t-CO2)

Water withdrawal 8.3 (1000t)

Waste 501.7 (t)

Recycled waste 501.7 (t)

Reused waste 0.0 (t)

5. Automotive Parts Technical Center

Location Miyoshi-city, Aichi Japan

Energy consumption 10.3 (1000GJ)

CO2 emissions 0.01 (1000t-CO2)

Water withdrawal 4.4 (1000t)

Waste 41.0 (t) Recycled waste 41.0 (t)

Reused waste 0.0 (t)

6. Corporate Technology Center

Location Kawanishi-city, Hyogo Japan

Energy consumption 16.6 (1000GJ)

CO2 emissions 1.3 (1000t-CO2)

Water withdrawal 7.6 (1000t)

Waste 55.3 (t)

Recycled waste 55.3 (t)

Reused waste 0.0 (t)

7. Headquarters

Location Itami-city, Hyogo Japan

Energy consumption 7.38 (1000GJ)
CO2 emissions 0.28 (1000t-CO2)

Water withdrawal 5.8 (1000t)

Waste 30.6 (t)
Recycled waste 30.6 (t)
Reused waste 0.0 (t)

8. Tokyo Office

Location Shinagawa Ward, Tokyo Japan

Energy consumption 0.17 (1000GJ)
CO2 emissions 0.01 (1000t-CO2)

Waste 2.1 (t)
Recycled waste 2.1 (t)
Reused waste 0.00 (t)

9. Hiroshima Office

Location Hiroshima City, Japan

Energy consumption 0.04 (1000GJ)

CO2 emissions 0.01 (1000t-CO2)

Waste 1.3 (t)
Recycled waste 1.3 (t)

Reused waste 0.00 (t)

10. Kanto Distribution Center

Location	Iruma City, Saitama Japan		
Energy consumption CO2 emissions	0.73 (1000GJ) 0.1 (1000t-CO2)		
Water withdrawal	0.5 (1000t)		
Waste Recycled waste	17.0 (t) 17.0 (t)		
Reused waste	0.0 (t)		

11. Kansai Distribution Center

Location	Kobe City, Hyogo Japan		
Energy consumption CO2 emissions	0.50 0.05	(1000GJ) (1000t-CO2)	
Water withdrawal	0.39	(1000t)	
Waste	3.6	(t)	
Recycled waste	3.6	(t)	
Reused waste	0.0	(t)	

Fukushima Rubber Co., Ltd.

Location	Fukushima-city, Japan					
Products	Automobile tires, Automotive parts					
			FO 1	(100001)		
Energy consumption			58.1	(1000GJ)		
CO2 emissions			5.8	(1000t-CO2)		
VOC emissions			1.1	(t)		
SOx load			1.0	(t)		
NOx load			3.2	(t)		
Water withdrawal			236.4	(1000t)		
Water discharge			236.2	(1000t)		
Water quality load	·BOD		0.63	(t)		
	·COD		0.76	(t)		
Water pollution	·pH	Max.	7.7		*Regulation of the law	5.8~8.6
		Min.	7.1			
		Ave.	7.4			
	·BOD	Max.	3.9	(mg/L)	*Regulation of the law	25
		Min.	1.4	(mg/L)		
		Ave.	2.5	(mg/L)		
	·COD	Max.	5.6	(mg/L)	*Regulation of the law	40
		Min.	1.9	(mg/L)		
		Ave.	3.3	(mg/L)		
	·SS	Max.	18.0	(mg/L)	*Regulation of the law	70
		Min.	1.9	(mg/L)		
		Ave.	6.3	(mg/L)		
Waste			176.9	(t)		
Recycled waste			176.9	(t)		
Reused waste			0.0	(t)		
PRTR substances	· Handled		25.9	(t)		
	• Emitted		0.0	(t)		
	 Transferred 		0.1	(t)		

Ayabe Toyo Rubber Co., Ltd.

Location		A	yabe-shi, Kyot	to Japan	
Products		A	utomotive par	ts	
For one constitution			11 5	(100001)	
Energy consumption			11.5	(1000GJ)	
CO2 emissions			0.98	(1000t-CO2)	
VOC emissions			4.7	(t)	
SOx load				(t)	*not yet measured
NOx load				(t)	*not yet measured
Water withdrawal			18.4	(1000t)	
Water quality load	·BOD		0.06	(t)	
	·COD		0.15	(t)	
Water pollution	· pH	Max.	8.1		*Regulation of the law 5.8~8.6
·	·	Min.	6.0		G
		Ave.	6.9		
	·BOD	Max.	4.5	(mg/L)	*Regulation of the law 25
		Min.	2.0	(mg/L)	/ND: less than the lower quantitative limit
		Ave.	3.2	(mg/L)	
	·COD	Max.	15.4	(mg/L)	*Regulation of the law 120
		Min.	0.6	(mg/L)	/ND: less than the lower quantitative limit
		Ave.	8.1	(mg/L)	
	·SS	Max.	ND	(mg/L)	*Regulation of the law 90
		Min.	ND	(mg/L)	/ND: less than the lower quantitative limit
		Ave.	ND	(mg/L)	
Waste			116.3	(t)	
Recycled waste			116.3	(t)	
Reused waste			0.0	(t)	
PRTR substances	· Handled		7.4	(kg)	
	• Emitted		4.8	(kg)	
	 Transferred 		2.7	(kg)	

Orient Machinery Co., Ltd.

Location Itami-city, Hyogo Japan* *HQ

Iwanuma-city, Miyagi Japan Kobe-city, Hyogo Japan

Products Mechanical equipment, tire mold

Energy consumption 5.36 (1000GJ)

CO2 emissions 0.51 (1000t-CO2)

Water withdrawal 2.2 (1000t)

Waste 36.1 (t)

Recycled waste 36.1 (t)

Reused waste 0.0 (t)

Toyo Tire Japan

Location Itami City, Hyogo Prefecture (head office)

sales offices nationwide

Energy consumption 61.4 (1000GJ)

CO2 emissions 4.59 (1000t-CO2)

Water withdrawal 8.1 (1000t)

Waste 5,242.0 (t)

Recycled waste 5,242.0 (t)

Reused waste 0.0 (t)

TOYO AUTOMOTIVE PARTS (USA), INC.

Location Kentucky, U.S.A

Products Automotive parts

Energy consumption 79.6 (1000GJ)

CO2 emissions 5.6 (1000t-CO2)

Water withdrawal 12.0 (1000t)

Waste 1,552.4 (t)

XIncluding data of TMM (USA). INC. in the same site

TOYO TIRE NORTH AMERICA MANUFACTURING INC.

Location Georgia, U.S.A.

Products Automobile tires

Energy consumption 1,737.6 (1000GJ)

CO2 emissions 48.4 (1000t-CO2)

Water withdrawal 355.9 (1000t)

Water discharge 93.9 (1000t)

Waste 11,209.2 (t)

東洋橡塑(広州)有限公司

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

Location	Guangzhou, Chi	Guangzhou, China	
Products		Automotive part	ts
Energy consumption		46.4	(1000GJ)
CO2 emissions		5.9	(1000t-CO2)
Water withdrawal		16.6	(1000t)
Water quality load	·BOD	0.15	(t)
	·COD	0.73	(t)
Waste		769.1	(t)

通伊欧輪胎張家港有限公司

(TOYO TIRE ZHANGJIAGANG CO.,LTD.)

Location Products		Jiangsu, China Automobile tire	S
Energy consumption		211.8	(1000GJ)
CO2 emissions		19.0	(1000t-CO2)
SOx load		0.0	(t)
NOx load		0.64	(t)
Water withdrawal		30.8	(1000t)
Water discharge		43.1	(1000t)
Water quality load	·BOD	0.54	(t)
	·COD	2.28	(t)
Waste		457.4	(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	276.0 (1000GJ)
CO2 emissions	27.1 (1000t-CO2)

Water withdrawal 79.5 (1000t)

Waste 618.2 (t)

TOYO TYRE MALAYSIA SDN BHD

Location	Perak, Malaysia	l
Products	Automobile tire	S
Energy consumption	803.3	(1000GJ)
CO2 emissions	67.5	(1000t-CO2)
Water withdrawal	266.7	(1000t)
Water quality load	141.7	(1000t)
Waste	2,359.0	(t)

TOYO RUBBER CHEMICAL PRODUCTS (THAILAND) LIMITED

Location Ayutthaya, Thailand

Products Automotive parts

Energy consumption 2.13 (1000GJ)

CO2 emissions 0.26 (1000t-CO2)

Water withdrawal 0.71 (1000t)

Water quality load 0.57 (1000t)

Waste 1.61 (t)

TOYO TIRE SERBIA D.O.O.

Location Industrijska, Serbia

Products Automobile tires

Energy consumption 310.48 (1000GJ)

CO2 emissions 8.1 (1000t-CO2)

Water withdrawal 102.9 (千t)

Water quality load 22.6 $(\pm t)$

Waste 4,530.3 (t)