Site Report (FY2020)

Japan:

Toyo Tire Corp.

Sendai Plant

Kuwana Plant

Hyogo Manufacturing Complex

Tire Technical Center

Automotive Parts Technical Center

Corporate Technology Center

Headquarters

Fukushima Rubber Co., Ltd.

Toyo Soflan Co., Ltd.

Ayabe Toyo Rubber Co., Ltd.

Orient Machinery Co., Ltd.

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:

SILVERSTONE BERHAD

TOYO TYRE MALAYSIA SDN BHD

Thailand:

TOYO RUBBER CHEMICAL PRODUCTS (THAILAND) LIMITED

Period:

January - December, 2020 Energy consumption, CO2 emissions, SOx load, NOx load,

Water withdrawal, Water discharge, Water quality load, Water pollution,

Waste, Recycled waste, Reused waste

April - March, 2020

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	lwanuma-shi, Miyagi Japan						
Products	Automobile tires						
-			1 750 4	(100001)			
Energy consumption			1,756.4	(1000GJ)			
CO2 emissions			104.4	(1000t-CO2)			
VOC emissions			248.8	(t)			
SOx load			0.00	(t)			
NOx load			62.7	(t)			
Water withdrawal			1,165.7	(1000t)			
Water discharge			839.9	(1000t)			
Water quality load	·BOD		2.11	(t)			
	·COD		5.14	(t)			
Water pollution	· pH	Max.	7.70		*Regulation of the law	5.8~8.6	
		Min.	7.20				
		Ave.	7.50				
	·BOD	Max.	3.00	(mg/L)	*Regulation of the law	120	
		Min.	0.60	(mg/L)			
		Aye.	1.85	(mg/L)			
	·COD	Max.	5.90	(mg/L)	*Regulation of the law	120	
		Min.	3.20	(mg/L)			
		Ave.	4.57	(mg/L)			
	·SS	Max.	12.0	(mg/L)	*Regulation of the law	150	
		Min.	5.00	(mg/L)			
		Ave.	6.50	(mg/L)			
Waste			3,291.1	(t)			
Recycled waste			3,291.1	(t)			
Reused waste			0.0	(t)			
PRTR substances	· Handled		1,091.4	(kg)			
	· Emitted		9.65	(kg)			
	· Transferred	1	17.2	(kg)			

2. Kuwana Plant

		Tain aha Inah	o gun Mio lor	200		
		Automobile tire	es, automotive	parts		
		1,668.8	(1000GJ)			
		116.5	(1000t-CO2)			
		289.7	(t)			
		0.75	(t)			
		74.7	(t)			
		889.4	(1000t)			
		354.0	(1000t)			
·BOD		0.33	(t)			
·COD		0.81	(t)			
·pH	Max.	7.70		*Regulation of the ordinance 6.0~8.0		
	Min.	7.10				
	Ave.	7.40				
·BOD	Max.	2.00	(mg/L)	*Regulation of the pollution prevention		
	Min.	<1	(mg/L)	agreement with local governments 8		
	Ave.	1.20	(mg/L)			
·COD	Max.	4.00	(mg/L)	*Regulation of the pollution prevention		
	Min.	2.00	(mg/L)	agreement with local governments 8		
	Ave.	2.80	(mg/L)			
·SS	Max.	<2	(mg/L)	*Regulation of the pollution prevention		
	Min.	<2	(mg/L)	agreement with local governments 10		
	Ave.	<2	(mg/L)			
		5,186.7	(t)			
		5,186.7	(t)			
		0.00	(t)			
· Handled		1,423.4	(kg)			
· Emitted		93.5	(kg)			
· Transferred		59.2	(kg)			
	· COD · pH · BOD · COD · SS	· BOD · COD · pH Max. Min. Ave. · BOD Max. Min. Ave. · COD Max. Min. Ave. · SS Max. Min. Ave.	Automobile tire 1,668.8 116.5 289.7 0.75 74.7 889.4 354.0 BOD 0.33 COD 0.81 pH Max. 7.70 Min. 7.10 Ave. 7.40 BOD Min. 4ve. 1.20 COD Min. 2.00 Min. 2.00 Min. 2.00 Ave. 2.80 SS Max. 2 Ave. 2 5,186.7 5,186.7 0.00 Handled 1,423.4 Emitted 93.5	116.5 (1000t-Co2) 289.7 (t) 0.75 (t) 74.7 (t) 889.4 (1000t) 354.0 (1000t) BOD 0.33 (t) COD 0.81 (t) PH Max. 7.70 Min. 7.10 Ave. 7.40 BOD Max. Ave. 1.20 (mg/L) Ave. 1.20 (mg/L) Ave. 1.20 (mg/L) Ave. 2.80 (mg/L) Ave. 5,186.7 (t) 5,186.7 (t) 5,186.7 (t) 0.00 (t) Handled 1,423.4 (kg) 93.5 (kg)		

3. Hyogo Manufacturing Complex

Location	Inami-cho, Kako-gun, Hyogo Japan						
Products		Automotive parts					
Energy consumption			32.8	(1000GJ)			
CO2 emissions			2.54	(1000t-CO2)			
				, ,			
VOC emissions			6.49	(t)			
SOx load			0.00	(t)			
NOx load			0.71	(t)			
Water withdrawal			179.6	(1000t)			
Water discharge			104.4	(1000t)			
Water quality load	·BOD		0.20	(t)			
	·COD		0.30	(t)			
Water pollution	. nU	Max.	0.40	,	*D	E0 0C	
Water pollution	• рН	Min.	8.40 7.10		*Regulation of the law	5.8~8.6	
		Ave.	7.10				
	· BOD	Max.	6.20	(mg/L)	*Regulation of the law	100	
	ВОВ	Min.	0.80	(mg/L)	Regulation of the law	100	
		Ave.	3.40	(mg/L)			
	· COD	Max.	6.30	(mg/L)	*Regulation of the law	100	
	000	Min.	1.00	(mg/L)	regulation of the law	100	
		Ave.	4.10	(mg/L)			
	·SS	Max.	3.90	(mg/L)	*Regulation of the law	90	
		Min.	0.60	(mg/L)	S		
		Ave.	2.70	(mg/L)			
Waste			121.2	(t)			
Recycled waste			121.2	(t)			
Reused waste			0.00	(t)			
PRTR substances	· Handled		9.57	(kg)			
	· Emitted		6.50	(kg)	,		
	· Transferred		0.00	(kg)			

4. Tire Technical Center

Location

	, , ,	•
Energy consumption	18 7	(1000GJ)
		(1000t-CO2)
CO2 emissions	2.20	(10001-002)
Water withdrawal	7.78	(1000t)
Waste	490.1	(t)
Recycled waste	490.1	(t)
Reused waste	0.00	(t)

Itami-shi, Hyogo Japan

Miyoshi-shi, Aichi Japan

5. Automotive Parts Technical Center

Location

		(, , , , , , ,)
Energy consumption	11.0	(1000GJ)
CO2 emissions	1.44	(1000t-CO2)
Water withdrawal	13.7	(1000t)
Waste	39.0	(t)
Recycled waste	39.0	(t)
Reused waste	0.00	(t)

6. Corporate Technology Center

Location

Energy consumption	16.0	(1000GJ)
CO2 emissions	1.57	(1000t-CO2)
Water withdrawal	7.04	(1000t)
Waste .	46.7	(t)
Recycled waste	46.7	(t)
Reused waste	0.00	(t)

Kawanishi-shi, Hyogo Japan

Itami-shi, Hyogo Japan

7. Headquarters

Location

Energy consumption	5.13	(1000GJ)
CO2 emissions	0.41	(1000t-CO2)
Water withdrawal	4.49	(1000t)
Waste	79.8	(t)
Recycled waste	79.8	(t)
Reused waste	0.00	(t)

Fukushima Rubber Co., Ltd.

Location	Fukushima-shi, Fukushima Japan					
Products	Automobile tires, automotive parts					
Energy consumption			53.3	(1000GJ)		
CO2 emissions			5.22	(1000t-CO2)		
VOC emissions			1.27	(t)		
SOx load			1.41	(t)		
NOx load			3.77	(t)		
Water withdrawal			279.8	(1000t)		
Water discharge			284.6	(1000t)		
Water quality load	·BOD		0.91	(t)		
	·COD		0.91	(t)		
Water pollution	· pH	Max.	7.60		*Regulation of the law	5.8~8.6
·	·	Min.	7.20			
		Ave.	7.40			
	·BOD	Max.	11.0	(mg/L)	*Regulation of the law	25
		Min.	1.00	(mg/L)		
		Ave.	3.60	(mg/L)		
	·COD	Max.	4.90	(mg/L)	*Regulation of the law	40
		Min.	2.00	(mg/L)		
		Ave.	3.40	(mg/L)		
	·SS	Max.	5.40	(mg/L)	*Regulation of the law	70
		Min.	1.20	(mg/L)		
		Ave.	3.00	(mg/L)		
Waste			193.2	(t)		
Recycled waste			193.2	(t)		
Reused waste			0.00	(t)		
PRTR substances	· Handled		59.0	(kg)		
	· Emitted		0.00	(kg)		
	 Transferred 	d	0.13	(kg)		

Toyo Soflan Co., Ltd.

Location	Miyos				shi-shi, Aichi Japan			
Products			Automoti	otive parts				
				100	(100001)			
Energy consumption				10.2	(1000GJ)			
CO2 emissions				1.16	(1000t-CO2)			
VOC emissions				9.12	(t)			
SOx load			-		(t)	*not yet measured		
NOx load			-		(t)	*not yet measured		
Water withdrawal				4.39	(1000t)			
Water quality load	·BOD		-		(t)			
	·COD		_		(t)			
Water pollution	· pH	Max.		8.50		*Voluntary measurement		
		Min.		7.20				
		Ave.		7.60				
	·BOD	Max.		18.0	(mg/L)	*Voluntary measurement		
		Min.		0.80	(mg/L)			
		Ave.		5.20	(mg/L)			
	· COD	Max.		21.0	(mg/L)	*Voluntary measurement		
		Min.		1.90	(mg/L)			
		Ave.		8.9	(mg/L)			
	·SS	Max.		14.0	(mg/L)	*Voluntary measurement		
		Min.		<1	(mg/L)			
		Ave.		12.30	(mg/L)			
Waste				23.3	(t)			
Recycled waste				23.3	(t)			
Reused waste				0.00	(t)			
PRTR substances	· Handled			5.32	(kg)			
	• Emitted			5.12	(kg)			
	• Transferr	ed		0.02	(kg)			

Ayabe Toyo Rubber Co., Ltd.

Location		Ay	yabe-shi, Kyot	o Japan	
Products		Αι	utomotive par	ts	
Energy consumption			12.6	(1000GJ)	
CO2 emissions			1.24	(1000t-CO2)	
VOC emissions			4.61	(t)	
SOx load				(t)	*not yet measured
NOx load				(t)	*not yet measured
Water withdrawal			24.1	(1000t)	
Water quality load	· BOD			(t)	*not yet measured
	· COD			(t)	*not yet measured
M. Lanca Haddan	-11	Mari	9.10		*Degulation of the law 50= 06
Water pollution	·pH	Max.	8.10		*Regulation of the law 5.8~8.6
		Min.	6.80		
	DOD	Ave.	7.40	(mg/L)	*Degulation of the low 25
	· BOD	Max. Min.	5.60 ND	(mg/L)	*Regulation of the law 25 /ND: less than the lower quantitative limit
		Ave.	1.50	(mg/L)	/ND . less than the lower quantitative initi
	· COD	Max.	6.40	(mg/L)	*Regulation of the law 120
	• 600	Min.	0.40 ND	(mg/L)	/ND: less than the lower quantitative limit
		Ave.	2.30	(mg/L)	/ND . less than the lower quantitative illint
	·SS	Max.		(mg/L)	*Regulation of the law 90
	. 33	Min.	ND	(mg/L)	/ND: less than the lower quantitative limit
		Ave.	0.20	(mg/L)	The resident the lower quantitative initial
		7,00.	0.20	(1116/ =/	
Waste			100.0	(t)	
Recycled waste			100.0	(t)	
Reused waste			0.00	(t)	
PRTR substances	· Handled		3.67	(kg)	
	 Emitted 		2.35	(kg)	
	· Transferre	d	1.32	(kg)	

Orient Machinery Co., Ltd.

Location			Itami-shi	, Hyog	o Japan* Iwan	uma-shi, Miyagi Japan
Products			Mechanic	cal equ	ıipment, tire m	old
Energy consumption				5.77	(1000GJ)	
CO2 emissions				0.75	(1000t-CO2)	
OOL OIMSSIONS				0.70	(10001 002)	
VOC emissions			-		(t)	
SOx load			-		(t)	*not yet measured
NOx load			-		(t)	*not yet measured
Water withdrawal				2.58	(1000t)	
Water quality load	·BOD		-		(t)	*not yet measured
	·COD		-		(t)	*not yet measured
Water pollution	·pH	Мах.	-			*not yet measured
		Min.	_			
		Ave.	_			
	·BOD	Max.	<u></u>		(mg/L)	*not yet measured
		Min.	_		(mg/L)	
		Ave.	-		(mg/L)	
	·COD	Max.	-		(mg/L)	*not yet measured
		Min.	-		(mg/L)	
		Ave.	-		(mg/L)	
	·SS	Max.	-		(mg/L)	*not yet measured
		Min.	-		(mg/L)	
		Ave.	-		(mg/L)	
Waste				8.63	(t)	
Recycled waste				8.63	(t)	
Reused waste				0.00	(t)	
PRTR substances	· Handled		-		(kg)	
	· Emitted		-		(kg)	
	 Transferred 		_		(kg)	

*HQ

TOYO AUTOMOTIVE PARTS (USA), INC.

Location

Kentucky, U.S.A

Products

Automotive parts

Energy consumption

14.7 (1000GJ)

CO2 emissions

10.4 (1000t-CO2)

Water withdrawal

16.6 (1000t)

Waste

2,213.1 (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

221.4 (1000GJ)

CO2 emissions

128.3 (1000t-CO2)

Water withdrawal

323.6 (1000t)

Water discharge

86.9 (1000t)

Waste

9,313.3 (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		24.4 (1000GJ)
CO2 emissions		6.04 (1000t-CO2)
Water withdrawal		15.5 (1000t)
Water quality load	·BOD	0.35 (t)
	·COD	1.65 (t)
Waste		467.6 (t)

通伊欧輪胎張家港有限公司

(TOYO TIRE ZHANGJIAGANG CO.,LTD.)

Location Products		Jiangsu, China Automobile tires	
Energy consumption		162.7	(1000GJ)
CO2 emissions		22.3	(1000t-CO2)
SOx load		0.00	(t)
NOx load		0.06	(t)
Water withdrawal		32.6	(1000t)
Water discharge		15.9	(1000t)
Water quality load	·BOD	0.26	(t)
	·COD	1.38	(t)
Waste		530.8	(t)

通伊欧輪胎(諸城)有限公司

(TOYO TIRE (ZHUCHENG) CO.,LTD.)

Location Products		Shandong, China Automobile tires	
Troducto			
Energy consumption CO2 emissions		(1000GJ) (1000t-CO2)	
Water withdrawal	76.1	(1000t)	
Waste	572.2	(t)	

SILVERSTONE BERHAD

Location Products	Perak, Malaysia Automobile tires		
Energy consumption	37.2	(1000GJ)	
CO2 emissions	33.3	(1000t-CO2)	
Water withdrawal	152.7	(1000t)	
Water quality load	114.5	(1000t)	
Water pollution	880.1	(t)	

TOYO TYRE MALAYSIA SDN BHD

Location Perak, Malaysia
Products Automobile tires

Energy consumption 92.3 (1000GJ)
CO2 emissions 72.3 (1000t-CO2)

Water withdrawal 202.8 (1000t)
Water quality load 48.6 (1000t)

Water pollution 2,172.9 (t)

TOYO RUBBER CHEMICAL PRODUCTS (THAILAND) LIMITED

Location Products	Ayutthaya, Thailand Automotive parts	
Energy consumption CO2 emissions	0.44 0.21	(1000GJ) (1000t-CO2)
Water withdrawal Water quality load	1.11 0.89	(1000t) (1000t)
Water pollution	1.44	(t)