

# Environmental Data by Operations Base ①

This page includes the environmental data for 2 locations, Kokubu and Kariya, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period]** April 2015 to March 2016

## Kokubu Plant

No. of Employees 2,077



### Production items

- All types of ball bearings
- Roller bearings
- Ultra-large bearings
- Hub units
- High-accuracy bearings

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	1,075,979
		Water consumed (km <sup>3</sup> )	433
		Chemical substances handled (t)	17.4
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	42,733
		NOx (kg)	9,412
		SOx (kg)	0
		Chemical substances released (t)	4.2
	Sewage	Wastewater (km <sup>3</sup> )	152
		COD (kg)	8,171
		Nitrogen (kg)	0
		Phosphorus (kg)	0
		Chemical substances transferred (t)	0.05
	Materials discarded	Recycled for profit (t)	4,981
		Recycled at a charge (t)	1,726
		Waste (incineration+landfill) (t)	0
	Chemical substances transferred (t)	2.2	

\* Due to sewage disposal, there are no regulation values for COD, nitrogen, or phosphorus

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.2~8.8	7.9	7.1
BOD	480	200	109
SS	480	33	7.3
Oil content	4	3.5	1.4

Unit : mg/l (Excluding pH)

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler (Annealing furnace)	Dust	0.08	0.002
	NOx	144	40
	SOx	—	—
Boiler (Hot and cold water generator)	Dust	0.08	0
	NOx	120	59
	SOx	—	—

Unit: Dust= g/Nm<sup>3</sup> NOx= ppm SOx= Value K

### Noise / Vibration data

Unit : dB

Index	Regulation value	Maximum	Average
Noise	Morning	64	57
	Afternoon	69	62
	Evening	64	60
	Night	59	56
Vibration	Daytime	68	52
	Nighttime	63	49

### Foul odor

Unit : ppm

Measurement item	Regulation value	Measurement
Ammonia	0.8	0.77
Methanethiol	0.0016	0.0005
Trimethylamine	0.0040	0.0004

\* Malodorous substances (22 substances) were measured.

\* All items not listed were below minimum determination limit.

### Substances subject to PRTR

Unit : kg/year

Substance number	Chemical name	Amount handled	Amount released				Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil	Waste			
1	Water-soluble zinc compounds	10,833	0	0	0	1,083	0	0	9,749
80	Xylene	3,500	3,500	0	0	0	0	0	0
412	Manganese and its compounds	1,282	0	26	0	462	0	0	795

## Kariya Plant

No. of Employees 1,283



### Production items

- Machine tools
- Damper pulleys
- Machined parts

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	232,640
		Water consumed (km <sup>3</sup> )	132
		Chemical substances handled (t)	2.5
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	8,932
		NOx (kg)	650
		SOx (kg)	0
		Chemical substances released (t)	2.1
	Waterways	Wastewater (km <sup>3</sup> )	193
		COD (kg)	719
		Nitrogen (kg)	1,071
		Phosphorus (kg)	8
		Chemical substances transferred (t)	0
	Materials discarded	Recycled for profit (t)	507
		Recycled at a charge (t)	217
		Waste (incineration+landfill) (t)	0
	Chemical substances transferred (t)	0	

### Water quality measurement data

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.5	7.2	6.9
COD	19	4.0	3.4
BOD	20	9.3	4.2
SS	20	3.3	2.1
Oil content	4	0.3	0.2
Zinc	1.6	0.1	0.0

Index	Regulation value	Maximum	Average
Soluble iron	4	0.5	0.5
Soluble manganese	1.6	0.3	0.2
Fluorine	4	0.1	0.1
Nitrogen	16.1	7.1	6.1
Phosphorus	1.5	0.1	0.1
Boron	8	0.04	0.03

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler (for cafeteria use)	Dust	0.00	0
	NOx	0	57
	SOx	0.0	—
Boiler (Hot and cold water generator)	Dust	0.08	0.002
	NOx	104	53
	SOx	1.2	—

Unit: Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Unit : dB

Index	Regulation value	Maximum	Average
Noise	Morning	64	57
	Afternoon	69	64
	Evening	64	61
	Night	59	57
Vibration	Daytime	68	49
	Nighttime	63	36

### Foul odor

Measurement item	Regulation value	Measurement
Odor index	12	10

### Substances subject to PRTR

Unit : kg/year

Substance number	Chemical name	Amount handled	Amount released				Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil	Waste			
300	Toluene	1,675	1,345	0	0	0	0	0	330

# Environmental Data by Operations Base ②

This page includes the environmental data for 2 locations, Tokushima and Okazaki, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period]** April 2015 to March 2016

## Tokushima Plant

No. of Employees 1,186



### Production items

- Ball bearings
- Water pump bearings
- Cylindrical roller bearings
- Special environment bearings
- Double row angular contact ball bearings
- Hub units
- Tensioner pulleys

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	891,350
		Water consumed (km <sup>3</sup> )	950
		Chemical substances handled (t)	8.2
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	34,353
		NOx (kg)	30,815
		SOx (kg)	707
		Chemical substances released (t)	4.3
	Waterways	Wastewater (km <sup>3</sup> )	219
		COD (kg)	2,888
		Nitrogen (kg)	2,309
		Phosphorus (kg)	6
		Chemical substances transferred (t)	0
	Materials discarded	Recycled for profit (t)	6,606
		Recycled at a charge (t)	1,143
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	0

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.5	7.5	6.7
COD	16	12.0	10.0
BOD	24	15.0	4.4
SS	2.4	1.8	1.2
Oil content	25	6.9	4.4
Zinc	2.5	0.05	0.05

Unit : mg/l (Excluding pH)

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler (Absorption type cold and hot water generator)	Dust	0.24	0.01
	NOx	144	51
	SOx	16.8	0.03
Diesel engine	Dust	0.08	0.048
	NOx	902.5	762
	SOx	16.8	0.04

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx= Value K

### Noise / Vibration data

Index	Regulation value	Results		Unit : dB
		Maximum	Average	
Noise	Morning	59	51	49
	Afternoon	64	58	56
	Evening	59	52	50
	Night	55	50	48
Vibration	Daytime	63	53	47
	Nighttime	58	48	45

### Foul odor

- \* Malodorous substances (22 substances) were measured.
- \* All items were below minimum determination limit.

### Substances subject to PRTR

Substance number	Chemical name	Amount handled	Amount released				Amount transferred	Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil	Sewage				
80	Xylene	4,219	4,219	0	0	0	0	0	0	0
438	Methylnaphthalene	3,934	0	0	0	0	0	0	0	3,934

## Okazaki Plant

No. of Employees 848



### Production items

- 4WD coupling
- Linear solenoid valves for AT and CVT
- Oil pumps for AT and CVT
- Propeller shafts
- Cast parts

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	699,340
		Water consumed (km <sup>3</sup> )	128
		Chemical substances handled (t)	5.9
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	28,471
		NOx (kg)	27,096
		SOx (kg)	0
		Chemical substances released (t)	3.8
	Waterways	Wastewater (km <sup>3</sup> )	59
		COD (kg)	31
		Nitrogen (kg)	56
		Phosphorus (kg)	0
		Chemical substances transferred (t)	0
	Materials discarded	Recycled for profit (t)	10,226
		Recycled at a charge (t)	3,158
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	0

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	6.6~8.4	7.6	7.2
COD	16	3.9	2.7
BOD	16	3.9	2.0
SS	16	1.3	1.0
Oil content	1.6	0.5	0.2
Zinc	2.4	0.05	0.05

Unit : mg/l (Excluding pH)

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Electric furnace	Dust	0.12	0.011
	NOx	80	10
	SOx	6.072	—
Boiler (for air conditioning)	Dust	0.08	0.002
	NOx	104	43
	SOx	—	—
Heating furnace	Dust	0.12	0.002
	NOx	80	5
	SOx	6.072	—
Gas engine (cogeneration)	Dust	0.04	0.002
	NOx	160	64
	SOx	6.072	—

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Index	Regulation value	Results		Unit : dB
		Maximum	Average	
Noise	Morning	64	55	49
	Afternoon	69	56	50
	Evening	64	53	49
	Night	59	53	50
Vibration	Daytime	69	35	31
	Nighttime	64	33	31

### Foul odor

Measurement item	Regulation value	Measurement
Odor index	12	10

### Substances subject to PRTR

Substance number	Chemical name	Amount handled	Amount released				Amount transferred	Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil	Sewage				
80	Xylene	1,013	970	0	0	0	0	0	0	43
300	Toluene	3,522	2,828	0	0	0	0	0	0	694

# Environmental Data by Operations Base ③

This page includes the environmental data for 2 locations, Tokyo and Kagawa, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period]** April 2015 to March 2016

## Tokyo Plant

No. of Employees 548



### Production items

- Needle roller bearings
- Constant velocity joints
- Drive shafts
- Propeller shafts

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.6	8.0	7.5
BOD	240	8	4
SS	200	22	12
Oil content	24	1.0	1.0
Nitrogen	96	23	9.4
Phosphorus	13	1.4	0.5

Unit : mg/l (Excluding pH)

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Gas suction type boiler	Dust	0.08	0.005
	NOx	44	43
	SOx	0.33	0.01

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Value K

### Noise / Vibration data

Unit : dB

Index	Regulation value	Maximum	Average
Noise	Morning	59	57
	Afternoon	69	65
	Evening	59	57
	Night	54	52
Vibration	Daytime	58	48
	Nighttime	48	35

### Foul odor

- \* Malodorous substances (22 substances) were measured.
- \* All items were below minimum determination limit.

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	340,900
		Water consumed (km <sup>3</sup> )	99
		Chemical substances handled (t)	8.7
	OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )
NOx (kg)			33
SOx (kg)			6
Chemical substances released (t)			5.5
Sewage		Wastewater (km <sup>3</sup> )	65
		BOD (kg)	296
		Nitrogen (kg)	611
		Phosphorus (kg)	31
		Chemical substances transferred (t)	0.001
Materials discarded		Recycled for profit (t)	1,729
		Recycled at a charge (t)	987
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	1.2

\* Due to sewage disposal, there are no regulation values for COD

### Substances subject to PRTR

Unit : kg/year

Substance number	Chemical name	Amount handled	Amount released			Amount transferred	Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil				
1	Water-soluble zinc compounds	1,557	0	0	0	156	0	0	1,401
80	Xylene	1,543	1,543	0	0	0	0	0	0
300	Toluene	3,827	3,827	0	0	0	0	0	0

## Kagawa Plant

No. of Employees 935



### Production items

- Tapered roller bearings

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.5	7.2	6.5
COD	40	29	18
BOD	40	38	30
SS	40	1.5	1.0

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
Oil content	2.4	2.1	1.6
Nitrogen	48	13	9
Phosphorus	6.4	0.4	0.1

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	1,020,293
		Water consumed (km <sup>3</sup> )	378
		Chemical substances handled (t)	6.0
	OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )
NOx (kg)			2,259
SOx (kg)			80
Chemical substances released (t)			2.9
Waterways		Wastewater (km <sup>3</sup> )	274
		COD (kg)	3,597
		Nitrogen (kg)	2,030
		Phosphorus (kg)	5
		Chemical substances transferred (t)	0
Materials discarded		Recycled for profit (t)	9,497
		Recycled at a charge (t)	1,384
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	0

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler	Dust	0.24	0.011
	NOx	208	66
	SOx	4	0.1
Private power generator	Dust	0.08	0.03
	NOx	902.5	820
	SOx	4	0.56

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Value K

### Noise / Vibration data

Unit : dB

Index	Regulation value	Maximum	Average
Noise	Morning	64	60
	Afternoon	64	58
	Evening	64	60
	Night	59	56
Vibration	Daytime	49	32
	Nighttime	46	27

### Foul odor

Unit : ppm

Measurement item	Regulation value	Measurement
Ammonia	1.2	0.75

### Substances subject to PRTR

Unit : kg/year

Substance number	Chemical name	Amount handled	Amount released			Amount transferred	Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil				
80	Xylene	2,875	2,875	0	0	0	0	0	0
438	Methylnaphthalene	2,910	15	0	0	0	0	0	2,896

# Environmental Data by Operations Base ④

This page includes the environmental data for 2 locations, Nara and Higashi-kariya, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period]** April 2015 to March 2016

## Nara Plant

No. of Employees 1,819



### Production items

- Electric power steering
- Electric pumps for hydraulic-electric type power steering
- Hydraulic power steering
- Manual steering

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	202,181
		Water consumed (km <sup>3</sup> )	39
		Chemical substances handled (t)	11
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	7,517
		NOx (kg)	0
		SOx (kg)	0
		Chemical substances released (t)	10.4
	Waterways	Wastewater (km <sup>3</sup> )	20
		COD (kg)	99
		Nitrogen (kg)	291
		Phosphorus (kg)	55
		Chemical substances transferred (t)	0.001
	Materials discarded	Recycled for profit (t)	1,269
		Recycled at a charge (t)	961
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	0.3

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.5	7.4	7.2
COD	12	7.3	5.3
BOD	12	1.2	0.7
SS	20	0.8	0.1
Oil content	2	0.7	0.1

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
Soluble iron	1	0.03	0.02
Soluble manganese	1	0.02	0.00
Nitrogen	40	26	17
Phosphorus	15	4.0	2.9

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
No. 1 Plant, No. 1 (Boiler)	Dust		
	NOx		
	SOx		
No. 1 Plant, No. 2 (Boiler)	Dust		
	NOx	Abolished	
	SOx		
South No. 2 Plant (Boiler)	Dust		
	NOx		
	SOx		

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx= Value K

### Noise / Vibration data

Unit : dB

Index	Regulation value	Maximum	Average
Noise	Morning	64	57
	Afternoon	67	59
	Evening	64	62
	Night	54	52
Vibration	Daytime	59	43
	Nighttime	54	41

### Foul odor

- \* Malodorous substances (22 substances) were measured.
- \* All items were below minimum determination limit.

### Substances subject to PRTR

Unit : kg/year

Substance number	Chemical name	Amount handled	Amount released			Amount transferred	Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil				
80	Xylene	7,762	7,762	0	0	0	0	0	0
300	Toluene	2,649	2,649	0	0	0	0	0	0

## Higashi-kariya operations center

No. of Employees 108



### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	36,312
		Water consumed (km <sup>3</sup> )	3
		Chemical substances handled (t)	0
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	1,392
		NOx (kg)	0
		SOx (kg)	0
		Chemical substances released (t)	0
	Waterways	Wastewater (km <sup>3</sup> )	3
		COD (kg)	0.34
		Nitrogen (kg)	0.09
		Phosphorus (kg)	0.003
		Chemical substances transferred (t)	0
	Materials discarded	Recycled for profit (t)	144
		Recycled at a charge (t)	30
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	0

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	6.0~8.3	7.8	7.4
COD	16	5.7	4.3
BOD	16	3.1	1.3
SS	16	1.5	1.1
Oil content	4	0.2	0.1
Zinc	2	0.1	0.1

Unit : mg/l (Excluding pH)

Index	Regulation value	Maximum	Average
Soluble iron	4	0.5	0.5
Soluble manganese	4	0.3	0.2
Fluorine	5	0.13	0.10
Nitrogen	48	3.6	3.2
Phosphorus	6	0.18	0.09
Boron	8	0.04	0.03

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler (Hot and cold water generator)	Dust		
	NOx	Abolished	
	SOx		

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Unit : dB

Index	Regulation value	Maximum	Average
Noise	Morning	64	59
	Afternoon	69	56
	Evening	64	54
	Night	59	50
Vibration	Daytime	68	30
	Nighttime	63	29

### Foul odor

Measurement item	Regulation value	Measurement
Odor index	12	10

### Substances subject to PRTR

- \* No substances had handling amounts of over 1,000 kg /year

# Environmental Data by Operations Base ⑤

This page includes the environmental data for 2 locations, Toyohashi and Tadamisaki, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period]** April 2015 to March 2016

## Toyohashi Plant

No. of Employees 712



### Production items

- Hydraulic power steering
- Manual steering
- Safety handle column

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	6.1~8.4	7.4	7.0
COD	16	5.0	4.1
BOD	16	1.6	0.7
SS	24	1.0	1.0

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
Oil content	4	1.0	1.0
Nitrogen	48	6	4.1
Phosphorus	6	0.7	0.5

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	257,297
		Water consumed (km <sup>3</sup> )	42
		Chemical substances handled (t)	2.9
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	9,779
		NOx (kg)	1,046
		SOx (kg)	35
		Chemical substances released (t)	0.5
	Waterways	Wastewater (km <sup>3</sup> )	13
		COD (kg)	50
		Nitrogen (kg)	68
		Phosphorus (kg)	5
		Chemical substances transferred (t)	0
	Materials discarded	Recycled for profit (t)	2,152
		Recycled at a charge (t)	380
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	0.1

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
No. 1 Plant (Boiler)	Dust	0.03	0.001
	NOx	120	50
	SOx	1	0.001
No. 2 Plant (Hot and cold water generator)	Dust	0.03	0.001
	NOx	120	35
	SOx	1	0.002
No. 3 Plant (Hot and cold water generator)	Dust	0.03	0.001
	NOx	120	20
	SOx	1	0.002

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx= Value K

### Noise / Vibration data

Unit : dB

Index	Regulation value	Maximum	Average
Noise	Morning	60	56
	Afternoon	65	57
	Evening	64	59
	Night	59	56
Vibration	Daytime	55	38
	Nighttime	50	34

### Foul odor

Measurement item	Regulation value	Measurement
Odor index	14	10

### Substances subject to PRTR

Unit : kg/year

Substance number	Chemical name	Amount handled	Amount released			Amount transferred	Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil				
453	Molybdenum and its compounds	2,335	0	0	0	0	0	0	2,335

## Tadamisaki Plant

No. of Employees 994



### Production items

- Drive shafts
- 4WD coupling

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	6.0~8.8	7.6	7.4
COD	18	23.0*	10.0
BOD	18	9.1	3.0
SS	24	8.0	3.9
Oil content	1.6	0.5	0.5
Zinc	0.8	0.04	0.04

\* Exceeds internal standards but within legal standards

Unit : mg/l (Excluding pH)

Index	Regulation value	Maximum	Average
Soluble iron	2.4	0.1	0.1
Soluble manganese	4	0.1	0.1
Fluorine	12	0.2	0.2
Nitrogen	24	7.9	4.8
Phosphorus	3.2	0.6	0.4
Boron	184	0.1	0.1

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	661,949
		Water consumed (km <sup>3</sup> )	138
		Chemical substances handled (t)	1.1
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	24,750
		NOx (kg)	745
		SOx (kg)	64
		Chemical substances released (t)	0.001
	Waterways	Wastewater (km <sup>3</sup> )	96
		COD (kg)	308
		Nitrogen (kg)	681
		Phosphorus (kg)	16
		Chemical substances transferred (t)	0
	Materials discarded	Recycled for profit (t)	9,177
		Recycled at a charge (t)	853
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	0.06

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler (Hot and cold water generator)	Dust	0.05	0.001
	NOx	104	34
	SOx	0.6	0
Continuous carburizing furnace	Dust	0.05	0.002
	NOx	104	1.4
	SOx	0.6	0

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Unit : dB

Index	Regulation value	Maximum	Average
Noise	Morning	69	61
	Afternoon	69	61
	Evening	69	59
	Night	64	59
Vibration	Daytime	55	43
	Nighttime	50	43

### Foul odor

Measurement item	Regulation value	Measurement
Odor index	16	10

### Substances subject to PRTR

\* No substances had handling amounts of over 1,000 kg/year

# Environmental Data by Operations Base ⑥

This page includes the environmental data for 2 locations, Hanazono and Kameyama, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period]** April 2015 to March 2016

## Hanazono Plant

No. of Employees 1,216



### Production items

- Electric power steering
- Hydraulic power steering pump
- Control computer

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.5	7.4	6.9
COD	8	4.2	2.9
BOD	8	2.7	1.3
SS	8	2.5	1.5
Oil content	1.6	1.0	1.0
Zinc	0.8	0.42	0.08

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
Soluble iron	2.4	0.5	0.5
Soluble manganese	2.4	0.3	0.2
Fluorine	0.8	0.10	0.10
Nitrogen	24	20.0	10.9
Phosphorus	2.4	0.1	0.0
Boron	8.0	1.0	1.0

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	313,734
		Water consumed (km <sup>3</sup> )	78
		Chemical substances handled (t)	0.3
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	12,224
		NOx (kg)	704
		SOx (kg)	13
		Chemical substances released (t)	0.2
	Waterways	Wastewater (km <sup>3</sup> )	76
		COD (kg)	48
		Nitrogen (kg)	135
		Phosphorus (kg)	1
		Chemical substances transferred (t)	0
	Materials discarded	Recycled for profit (t)	823
		Recycled at a charge (t)	453
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	0.02

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Compact once-through boiler	Dust	0.08	0.001
	NOx	100	41
	SOx	6.07	0.003
Boiler (Hot and cold water generator)	Dust	0.08	0.001
	NOx	100	50
	SOx	6.07	0.001

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Index	Regulation value	Results	
		Maximum	Average
Noise	Morning	74	55
	Afternoon	74	59
	Evening	74	61
	Night	69	54
Vibration	Daytime	60	35
	Nighttime	56	31

Unit : dB

### Foul odor

Measurement item	Regulation value	Measurement
Odor index	14	10

### Substances subject to PRTR

\* No substances had handling amounts of over 1,000 kg /year

## Kameyama Plant

No. of Employees 305



### Production items

- Ball bearings
- Clutch bearings
- Clutch pulleys for alternator

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.5	8.0	7.5
COD	8	7.0	3.3
BOD	8	4.0	1.3
SS	20	7.0	1.9
Oil content	1.0	0.5	0.5
Zinc	4	0.05	0.02

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
Soluble iron	8	0.07	0.03
Soluble manganese	2	0.02	0.02
Fluorine	5	0.10	0.10
Nitrogen	50	20	15
Phosphorus	1.0	0.54	0.25
Boron	8	0.06	0.06

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	171,798
		Water consumed (km <sup>3</sup> )	34
		Chemical substances handled (t)	1.7
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	6,490
		NOx (kg)	13
		SOx (kg)	13
		Chemical substances released (t)	0.9
	Waterways	Wastewater (km <sup>3</sup> )	14
		COD (kg)	42
		Nitrogen (kg)	251
		Phosphorus (kg)	3
		Chemical substances transferred (t)	0
	Materials discarded	Recycled for profit (t)	634
		Recycled at a charge (t)	179
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	0.8

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
No. 1 Plant (Boiler)	Dust	0.1	0.005
	NOx	150	23
	SOx	1.65	0.01

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Index	Regulation value	Results	
		Maximum	Average
Noise	Morning	60	56
	Afternoon	60	58
	Evening	60	58
	Night	55	52
Vibration	Daytime	58	36
	Nighttime	48	24

Unit : dB

### Foul odor

- \* Malodorous substances (22 substances) were measured.
- \* All items were below minimum determination limit.

### Substances subject to PRTR

\* No substances had handling amounts of over 1,000 kg /year

# Environmental Data by Operations Base ⑦

This page includes the environmental data for Sayama Plant out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period] April 2015 to March 2016**

## Sayama Plant

No. of Employees 161



Production items

- TORSEN

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.2~8.8	7.7	7.7
Oil content	4	ND	ND
Nitrogen	192	36	36
Phosphorus	25.6	ND	ND

Unit : mg/l (Excluding pH)

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
No. 1 Plant (Boiler)	Dust	0.08	0.001
	NOx	120	69
	SOx	0.52	0

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Index	Regulation value	Maximum	Average	Unit : dB
Noise	Morning	64	62	56
	Afternoon	69	63	57
	Evening	64	60	54
	Night	59	57	53
Vibration	Daytime	Unmeasured		
	Nighttime	Unmeasured		

### Foul odor

\* Unmeasured

Vibration and foul odor are not measured as these items are not applicable within the scope of regulations.

### Overall environmental data

INPUT		Classification	Volume
		Energy consumption (GJ)	31,746
		Water consumed (km <sup>3</sup> )	4
		Chemical substances handled (t)	0.017
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	1,189
		NOx (kg)	31
		SOx (kg)	0
		Chemical substances released (t)	0
	Waterways	Wastewater (km <sup>3</sup> )	3
		COD (kg)	0.83
		Nitrogen (kg)	5.8
		Phosphorus (kg)	0
		Chemical substances transferred (t)	0
	Materials discarded	Recycled for profit (t)	657
		Recycled at a charge (t)	92
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (t)	0

### Substances subject to PRTR

\* No substances had handling amounts of over 1,000 kg /year