## **Environmental Performance Data**

Category		Item	Scope of Data	Unit	2017/3	2018/3	2019/3	2020/3
Environme	ntal Accoun	ting						
	Environmental	Investment	Daicel's business sites		1	15	40	49
	preservation cost	Expense	Daicel's business sites	100 million	7	14	67	61
		benefit associated with environmental on activities	Daicel's business sites	yen	2	3	25	11
Global War	ming Preve	ntion						
			Daicel's business sites		462	436	411	383
	Energy cor	nsumption	Domestic Group companies	thousand kL	95	105	111	95
			Overseas Group companies*		276	293	299	308
	Energy inte	ensity index (base year: FY2010/3)	Daicel's business sites	%	86	79	78	80
	Greenhous	e gas(GHG)emissions					, i	
	Scope	9 1	Daicel's business sites		1,655	1,596	1,597	1,498
	Scope	2	Daicel's business sites		80	61	47	41
	Total e	emissions (Scope 1 and 2)	Daicel's business sites		1,735	1,657	1,644	1,539
	Тс	tal CO2 emissions	Daicel's business sites		1,571	1,489	1,484	1,381
		Energy-related CO2 emissions	Daicel's business sites	thousand t-CO2	1,331	1,216	1,195	1,081
		Non-energy-related CO2 emissions	Daicel's business sites		240	273	289	301
	M	ethane (CH4)	Daicel's business sites		1	1	1	1
	Ni	trous Oxide(N2O)	Daicel's business sites		158	162	156	157
	н	=C	Daicel's business sites		3	3	1	C
	Energ	y intensity index (base year: FY2006/3)	Daicel's business sites	%	100	92	90	92
	Total (	CO2 emissions (Scope 1 and 2)	Domestic Group companies		260	249	213	180
		Energy-related CO2 emissions	Domestic Group companies		260	249	213	180
		Non-energy-related CO2 emissions	Domestic Group companies		0	0	0	C
	Total (	CO2 emissions (Scope 1 and 2)	Overseas Group companies*		602	629	637	650
		Energy-related CO2 emissions	Overseas Group companies*		602	629	637	650
	Scope	3	Daicel's business sites		_	_	_	1,264
	Ca	ategory 1: Irchased goods and services	Daicel's business sites		_	_	_	981
		ategory 2: apital goods	Daicel's business sites Domestic Group companies Overseas Group companies		_	_	_	136
	Er	ategory 3: lergy-related activities outside Scope 1 d 2	Daicel's business sites	thousand t-CO2	_	_	_	110
	Tra	ategory 4: ansportation and distribution ostream)			17	18	17	16
		Marine transport	Daicel's business sites		7.6	7.9	7.4	6.8
		Rail transport	1		0.4	0.4	0.3	0.3
		Road transport			8.9	9.3	9.2	8.9
		ategory 5: aste generated in operations	Daicel's business sites		-	_	_	10
		ategory 6: nployee business travel	Daicel's business sites Domestic Group companies		_	_	_	8
		ategory 7: nployee commuting	Daicel's business sites		-	-	-	2

 $^{\ast}$  Due to the change of boundaries, previous years' values are revised.

Category	Item			Scope of Data	Unit	2017/3	2018/3	2019/3	2020/3
Industrial	Waste Red	uction							
				Daicel's business sites		138.6	137.4	135.6	160.7
		Waste generated		Domestic Group companies		7.8	8.9	9.1	8.6
				Overseas Group companies*		21.9	18.5	22.1	21.7
				Daicel's business sites	thousand t	1.5	1.8	1.5	3.1
	Industrial waste	Landfill		Domestic Group companies		0.0	0.0	0.0	0.0
				Overseas Group companies*		8.2	5.8	6.7	6.4
				Daicel's business sites		1.1	1.3	1.1	1.9
		Final landfill disposa	l rate	Domestic Group companies	%	0.0	0.0	0.4	0.1
				Overseas Group companies*		37	31	30	29
Water Reso	ources and V	Nater Quality							
				Daicel's business sites		92.6	91.4	91.4	88.1
		Water consumption		Domestic Group companies		7.3	7.1	6.7	6.4
				Overseas Group companies*	million t	5.1	8.2	15.6	12.6
				Daicel's business sites	minion t	88.0	88.7	90.8	89.7
		Water discharge		Domestic Group companies		5.3	5.1	4.8	4.8
				Overseas Group companies*		2.5	2.7	2.6	2.7
				Daicel's business sites		802	800	804	823
		COD (BOD) emissions		Domestic Group companies		46	45	49	33
		<b></b>		Daicel's business sites	t	83	81	85	88
		Total phosphorous e	INISSIONS	Domestic Group companies		6	4	2	1
		Total pitrogan aming	long	Daicel's business sites		199	183	170	170
		Total nitrogen emiss	IONS	Domestic Group companies		15	14	17	7
Atmospher	ric Emissions	5							
		SOx emissions		Daicel's business sites		559	187	248	229
		SOX emissions		Domestic Group companies		43	23	2	1
		NOx emissions		Daicel's business sites		701	577	601	592
		NOX emissions		Domestic Group companies	t	182	94	41	44
		Poot and dust arti-		Daicel's business sites		52	32	28	22
		Soot and dust emis	SIGUS	Domestic Group companies		38	14	3	1
		VOC emissions		Daicel's business sites		1,531	1,430	1,065	900
Substance	s Subject to	the PRTR Act							
			Amount	Daicel's business sites		25	26	26	16
			released to air	Domestic Group companies		9	15	11	7
		Released	Amount released to	Daicel's business sites		9	19	40	21
			water	Domestic Group companies	t	0	0	0	0
			Total	Daicel's business sites		34	45	66	37
			Total	Domestic Group companies		9	15	11	7
		Trapoforrad		Daicel's business sites		61	58	59	47
		Transferred		Domestic Group companies		14	16	23	37

 $^{\star}$  Due to the change of boundaries, previous years' values are revised.

## Environmental Load Data

The environmental load data from Daicel's business sites, Domestic Group Companies and Overseas Group companies for FY2020/3 are as follows.

#### 1) Daicel's business sites

	Energy	Greenhouse	SOx	NOx	Soot and dust	COD(BOD)	PRTR substances		Landfill	Water
Item	consumption	gas emissions	emissions	emissions	emissions	emissions	Released	Transferred	Lanuilli	consumption
	Crude oil equivalent kL	thousand t-CO2	t	t	t	t	t	t	t	thousand t
Aboshi Plant	171,095	505	160	199	8	351	4	3	1,783	31,409
Ohtake Plant	158,623	929	60	336	13	416	18	3	350	40,989*
Arai Plant	22,049	49	4	44	1	47	1	2	335	14,744
Harima Plant	10,494	19	5	8	0	0	1	6	7	290
Hirohata Plant	11,740	21	0	1	0	1	7	1	58	370
Kanzaki Plant	7,696	13	0	4	0	8	6	30	546	222
Innovation Park	1,297	2	0	0	0	0	0	2	13	39

\* Includes 34,190 thousand tonnes of seawater.

#### 2) Domestic Group companies

	Energy	Greenhouse	SOx	NOx	Soot and dust	COD(BOD)	PRTR su	bstances	Landfill	Water consumption
Item	consumption	gas emissions	emissions	emissions	emissions	emissions	Released	Transferred		
	Crude oil equivalent kL	thousand t-CO <sub>2</sub>	t	t	t	t	t	t	t	thousand t
Polyplastics Co., Ltd. Fuji Site	90,179	173	0	42	1	32	7	2	2	5,847
Dainichi Chemical Corp.	1,025	3	0	2	0	0	0	34	0	365
DM Novafoam Ltd.	2,221	5	1	1	0	0	0	0	0	54
Daicel Pack Systems Ltd.	682	0	0	0	0	0	0	0	3	150
Daicel Pyrotechnics Ltd.	119	0	0	0	0	0	0	0	0	2
Daicel Logistics Service Co., Ltd.	357	0	0	0	0	0	0	0	0	3

### 3) Overseas Group companies (from January to December 2019)

Item	Water consumption	Greenhouse gas emissions
	thousand t	thousand t-CO <sub>2</sub>
Ningbo Da-An Chemical Industries Co., Ltd.	711	95
Daicel Nanning Food Ingredients Co., Ltd.	126	12
Xi'an Huida Chemical Industries Co., Ltd.	214	65
Shanghai Daicel Polymers, Ltd.	26	3
Daicel Safety Systems (Thailand) Co., Ltd. / Daicel Safety Technologies (Thailand) Co., Ltd.	147	17
Special Devices (Thailand) Co., Ltd.	8	2
Daicel Safety Systems (Jiangsu) Co., Ltd.	91	21
Daicel Safety Systems Americas,Inc.	36	23
Daicel Safety Systems Europe Sp. z o. o.	6	3
Daicel Safety Systems Korea, Inc.	4	2
Chiral Technologies, Inc.	0	1
Chiral Technologies Europe S.A.S.	0	1
Daicel Chiral Technologies (China) Co., Ltd.	5	1
Daicel Chiral Technologies (India) Private Ltd.	2	1
Polyplastics Taiwan Co., Ltd. *	698	69
Polyplastics Asia Pacific Sdn. Bhd. *	1,483	228
PTM Engineering Plastics (Nantong) Co., Ltd. *	736	87
Polyplastics (Nantong) Ltd. *	39	4
LCP Leuna Carboxylation Plant GmbH *	502	10
TOPAS Advanced Polymers GmbH *	7,758	13

\* More companies are added due to the change of boundaries.

# Social Performance Data

	Item		Unit	Scope of Data	2017/3	2018/3	2019/3	2020/3
Employees	Number of employees			Consolidated	11,556	12,309	12,319	11,606
		Male			2,732	2,832	2,886	2,925
	Number of employees*1	Female			279	305	320	333
		Total			3,011	3,137	3,206	3,258
		Male	_		2,504	2,596	2,652	2,665
		Female			228	248	264	281
		Total	_		2,732	2,844	2,916	2,946
		Ages 18 and 19	_		35	31	33	31
	Full-time employees*2	Ages 20 to 29			451	481	476	492
		Ages 30 to 39	<ul> <li>Persons</li> </ul>		548	599	658	684
		Ages 40 to 49			871	808	778	758
		Ages 50 to 59			827	925	971	981
		Male			228	236	234	260
	Contract employees	Female			51	57	56	52
		Total	_		279	293	290	312
		Male			44	38	49	13
	Temporary staff	Female		Non-consolidated	54	53	67	40
		Total			98	91	116	53
		Labor union members			38.5	38.6	38.7	38.8
		Managers			50.3	50.5	50.6	50.9
	Average age	Male	Age		41.8	41.9	42.0	42.1
		Female			41.1	41.4	41.6	41.9
		Total		-	41.8	41.8	41.9	42.1
		Male			20	27	28	31
	Number of managerial staff	Female			3	0	7	2
		Total			23	27	35	33
		Male			81	79	65	51
	New graduates recruitment	Female	Persons		12	10	9	14
		Total			93	89	74	65
		Male			71	79	70	44
	Mid-career recruitment	Female			11	13	11	22
		Total			82	92	81	66
Human Resou	rce Development							
	Participation in position-sp	ecific training			282	364	406	341
	Participation in engineering	g ethics training	Persons	Non-consolidated	_	44	54	54
	Participation in overseas la	anguage training			72	73	56	66
Diversity				1				
	Ratio of female employees	Staff members	- %		9.1	9.6	9.1	11.3
		Managers		4	2.0	2.1	3.1	3.7
	Employment of persons w		Persons	-	62.5	68.0	64.0	70
		o of employees with disabilities		Non-consolidated	2.07	2.16	2.02	2.12
	Ratio of post-retirement re			-	98.0	96.9	97.1	91.2
	Number of foreign	Male			12	12	12	14
	Number of foreign nationals in the workforce	Female	Persons		2	2	2	3
		Total			14	14	14	17

Item			Unit	Scope of Data	2017/3	2018/3	2019/3	2020/3
Work-Life Baland	ce	1						
		Male	_		18.0	18.0	16.9	16.8
	Average length of service	Female	Years	-	15.0	14.5	16.6	15.9
		Total			17.7	17.6	16.9	16.4
	Employee turnover rate				1.0	1.1	1.0	1.0
		Labor union members			70.0	70.5	76.4	79.4
		Managers	%	-	43.8	46.3	54.4	57.2
	Ratio of employees taking annual paid leave	Male	/0		61.7	64.1	70.7	73.8
		Female			68.2	66.7	70.2	71.3
		Total			63.2	64.4	70.6	73.6
		Male			0	25	19	39*4
	Number of employees	Female	Persons	-	1	2	7	11
	taking childcare leave	Total	-	-	1	27	26	50
		Male		-	0.0	29.8	22.6	42.4*4
	Ratio of employees taking	Total	%	-	100	100	100	100
	childcare leave	Total		Non-consolidated	1.1	33.3	28.6	48.5
		Male		-	0	0.00	0	0
	Number of employees using shorter working	Female	-	-	10	1	11	13
	hours for childcare	Total	-	-	10	1	11	13
		Male	-	-	-	6	84	279
	Number of employees	Female	-			18	62	108
	System* <sup>6</sup> Number of employees taking nursing care leave	Total	Persons			24	146	387
					0	24	0	
		Male					-	0
		Female		-	0	0	0	0
		Total			0	0	0	0
	Number of employees	Male	-		0	0	0	0
	using shorter working hours for nursing care	Female	_		0	0	0	0
		Total	_		0	0	0	0
	Number of labor union mer			-	1,970	2,069	2,122	2,166
	Ratio of labor union member	ers	%		65.6	66.0	72.8	72.9
Occupational Sa	afety and Health		1					
				Daicel's business sites and on- premise partner companies	12	12	17	23
	Number of occupational ac	cidents	Cases	Domestic Group companies	4	3	9	13
				Overseas Group companies	28	25	26	39
	Occupational accident frequency rate*6			Daicel's business sites and on- premise partner companies	1.10	1.07	1.56	2.19
			_	Domestic Group companies	1.43	1.03	3.00	4.20
				Overseas Group companies	2.43	1.94	2.10	3.36
Physical and Me	ental Health	1	1	1	r			
	Ratio of employees taking health checkups		4		100	100	100	100
			%	Non-consolidated	100	100	100	100
		Total			100	100	100	100
Research and D	evelopment		1	1			ı	
	Research and developmen	t expenses	100 million yen	Consolidated	168	188	207	213
	Number of research and de		Persons		1,128	1,183	1,318	1,376

\*1 Excludes directors, subordinate directors, and loaned staff. Includes full-time employees and contract employees. Contract employees are full-time employees working under a fixed-term contract, and excludes part-time employees.
\*2 Includes employees on loan to Group companies and companies outside the Group.
\*3 Ratio of employees using the reemployment system after mandatory retirement.
\*4 Figures are as of March 31, 2020.
\*5 The system was introduced in April 2017, and eligibility was expanded to all employees in October 2018.
\*6 Occupational Accident Frequency Rate = (number of people involved in an occupational accident / total actual working hours) × 1 million hours

## Governance Data

	Item		Scope of Data	Unit	2017/3	2018/3	2019/3	2020/3
orate Gov	vernance					·		
		Male			7	7	8	9
	Number of Directors*	Female		Persons	1	1	0	1
		Total			8	8	8	10
	Ratio of female directors*			%	12.5	12.5	0.0	10.0
	Number of External Directory (number of	Male			2(2)	3(3)	4(4)	4(4)
	Number of External Directors (number of independent directors)	Female		Persons	1(1)	1(1)	O(O)	1(1)
		Total			3(3)	4(4)	4(4)	5(5)
	Term of Directors			Years	1	1	1	1
	Frequency of meetings of the Board of Dire	ectors		Times	14	14	15	14
		External Directors			97.6	96.3	96.7	100
	Attendance at Board of Directors meetings	Outside Audit & Supervisory Board Members	Non- consolidated	%	95.2	97.6	95.6	100
		Male			5	5	5	5
	Number of Audit & Supervisory Board Members*	Female	-	Persons	0	0	0	С
		Total			5	5	5	5
	Ratio of female Audit & Supervisory Board	Members*		%	0.0	0.0	0.0	0.0
		Male	-		3(3)	3(3)	3(3)	3(3)
	Number of Audit & Supervisory Board Members (number of independent officers)	Female		Persons	O(O)	O(O)	O(O)	0(0)
		Total			3(3)	3(3)	3(3)	3(3)
	Term of Audit & Supervisory Board Membe	ers		Years	4	4	4	4
	Frequency of meetings of the Audit & Supe	ervisory Board		Times	14	14	14	14
	Attendance of Audit & Supervisory Board Members	Outside Audit & Supervisory Board Members		%	95.2	97.6	100.0	100.0
liance			1		I		I	
	The number of cases reported via the whis systems	stleblowing		Cases	16	31	52	51
	Of the above, the number of reports that had an impact on management		-	Cases	0	0	0	0
	The number of E-learning participants on (	-	Persons	_	4,744	4,868	4,925	
	Ratio of E-learning attendance on Complia	ance	Consolidated	%	_	99	99	98
	Political contribution		1	million yen	_	0.04	0.05	0.13
	Corporate tax. etc		-	million yen	16,272	16,607	14,623	9,820

 $^{\ast}$  Number of persons and ratios are as of the end of each fiscal year.