

Environmental Performance Trends by Site

Production site																						
Years ended March 31	Category		Ushio Inc. (Harima)	Ushio Inc. (Gotemba)	Ushio Inc. (Yokohama)	Ushio Inc. (Kyoto)	Ushio Inc. (Saku)	Ushio Lighting	Ushio Opto Semiconductors Inc. (Including	ADTEC Engineering	Wacom Electric Co., Ltd.	MAXRAY	Ushio America	Christie Digital Systems USA	Christie Digital Systems Canada	USHIO DEUTSCHLAND	Ushio Philippines	Ushio (Suzhou)	Ushio (Shaoguan)	Christie Digital Systems Shenzhen	EGG	Ushio Poland
2016	INPUT	Total energy input (GJ)	216,772	67,626	14,139			39,015	63,646	69,691	2,819	3,251	20,168	14,831	69,573	29,495	92,902	10,162	19,802	11,152		
		Water used (m3)	38,930	59,885	4,734			4,237	66,212	12,264	1,664	537	15,164	7,231	4,012	1,522	116,357	4,950	9,023	3,440		
	OUTPUT	Greenhouse gas emissions (t-CO2)	11,291	3,483	711			1,995	3,267	4,007	141	171	1,021	756	1,315	1,469	4,618	787	1,550	855		
		Total waste water emissions (m3)	36,115	59,885	4,734			2,985	65,778	12,264	1,664	537	15,164	7,231	4,012	1,468	114,771	4,584	—	3,440		
		Total waste output (kg)	257,172	74,659	38,251			117,021	22,690	97,910	—	10,315	48,009	99,361	296,492	44,127	114,355	143	—	27,983		
		Final disposal waste volume (kg)	1,863	0	0			15,521	616	39,427	—	4,640	22,379	27,272	42,870	5,120	52,032	143	—	170		
		Effective resource utilization rate	99.3%	100.0%	100.0%			86.7%	97.3%	59.7%	—	55.0%	53.4%	72.6%	85.5%	88.4%	54.5%	0%	—	99.4%	—	
2017	INPUT	Total energy input (GJ)	227,978	64,926	13,762			35,261	69,184	62,914	3,142	2,451	17,683	13,804	69,538	33,812	95,463	14,303	21,501	11,263	1,043	4,427
		Water used (m3)	38,693	69,798	4,009			4,069	90,553	13,322	3,076	605	13,289	7,110	4,267	1,662	107,394	5,460	9,023	432	1,385	
	OUTPUT	Greenhouse gas emissions (t-CO2)	11,879	3,249	674			1,799	3,497	3,604	153	125	895	704	1,411	1,411	4,745	1,105	1,648	863	51	346
		Total waste water emissions (m3)	34,507	69,825	4,009			2,548	69,859	13,322	3,076	605	13,289	7,110	4,267	1,662	107,394	4,914	—	—	432	1,385
		Total waste output (kg)	282,923	66,751	27,162			98,770	63,504	133,885	—	—	81,057	73,495	241,834	66,728	105,875	394	—	—	—	—
		Final disposal waste volume (kg)	3,072	0	0			16,343	1,694	48,316	—	—	33,484	24,960	41,190	10,200	43,617	394	—	—	—	—
		Effective resource utilization rate	98.9%	100.0%	100.0%			83.5%	97.3%	63.9%	—	—	58.7%	66.0%	83.0%	84.7%	58.8%	0%	—	—	—	—
2018	INPUT	Total energy input (GJ)	218,103	66,398	15,037			37,559	69,929	61,175	2,557		18,907	13,146	69,831	29,557	109,236	13,770	18,251	11,149		
		Water used (m3)	40,146	63,797	4,216			4,594	89,006	20,275	3,982		15,340	6,984	4,674	1,815	83,267	3,410	10,985	3,651		
	OUTPUT	Greenhouse gas emissions (t-CO2)	9,865	3,249	720			1,665	3,376	3,486	122		957	671	1,438	1,431	5,425	1,067	1,427	854		
		Total waste water emissions (m3)	36,134	63,797	4,216			2,636	64,402	20,275	3,982		15,343	6,984	4,674	1,815	82,397	2,817	—	3,651		
		Total waste output (kg)	260,308	100,564	28,591			99,517	76,297	159,312	—	—	81,010	77,872	173,928	85,244	135,964	515	405	38,963		
		Final disposal waste volume (kg)	1,181	0	0			29,397	2,760	48,115	—	—	35,320	21,865	32,320	10,000	72,032	515	405	0		
		Effective resource utilization rate	99.5%	100.0%	100.0%			70.5%	96.4%	68.8%	—	—	56.4%	71.9%	81.4%	88.3%	47.0%	0%	100.0%			
2019	INPUT	Total energy input (GJ)	213,436	84,418	17,192			32,331	71,665	80,348	1,905		19,065	12,926	70,048	31,670	102,639	9,527	18,269	11,916		
		Water used (m3)	37,155	67,973	4,417			3,957	93,632	20,709	1,042		9,812	5,839	4,344	1,730	65,167	2,756	10,214	3,788		
	OUTPUT	Greenhouse gas emissions (t-CO2)	7,974	4,073	810			1,192	3,318	4,542	89		965	661	1,405	1,536	5,118	739	1,427	913		
		Total waste water emissions (m3)	31,981	67,973	4,417			2,093	91,736	20,709	1,042		9,812	5,839	4,344	1,405	66,167	2,480	10,214	3,788		
		Total waste output (kg)	248,533	104,271	24,564			151,045	63,801	103,736	—	—	53,554	72,654	177,788	28,485	140,618	3,800	340	—		
		Final disposal waste volume (kg)	134	0	0			44,005	2,877	44,412	—	—	22,152	21,052	39,220	9,800	73,656	3,800	0	—		
		Effective resource utilization rate	99.9%	100.0%	100.0%			70.9%	95.5%	57.2%	—	—	58.6%	71.0%	77.9%	65.6%	47.6%	0%	100.0%			
2020	INPUT	Total energy input (GJ)	209,783	137,848	17,184	15,786	3,851	30,992			94,691	1,627		16,169	8,485	60,437	33,766	46,316	9,050	17,156	11,871	7,329
		Water used (m3)	35,123	156,029	4,051	2,090	1,692	3,789			19,052	934		7,774	5,441	4,321	34,729	2,162	10,494	2,580	662	
	OUTPUT	Greenhouse gas emissions (t-CO2)	7,609	6,546	791	552	171	1,114			5,300	75		817	428	1,252	1,635	2,572	701	1,352	910	573
		Total waste water emissions (m3)	29,195	158,139	4,051	2,090	1,692	1,820			22,742	934		7,774	5,441	4,009		35,029	1,946	240	2,580	662
		Total waste output (kg)	245,473	169,215	17,324	23,545	1,953	100,139			111,961			39,824	28,179	15,803	38,863	30,258	1,636	240	—	—
		Final disposal waste volume (kg)	374	0	0	4,310	0	21,278			55,532			17,283	0	3,140	10,600	30,258	1,636	0	—	—
		Effective resource utilization rate	99.8%	100.0%	100.0%	81.7%	100.0%	76.8%			59.4%			56.6%	100.0%	80.1%	72.7%	0.0%	0.0%	100.0%		

Non-production site																				
Years ended March 31	Category		Ushio Inc. (Headquarter)	Ushio Inc. (Osaka Branch)	Ushio Inc. (Kawasaki Bio Lab)	XEBEX	Protosera	Ushio Europe	Ushio Franc	Ushio UK	Ushio Hong Kong	Ushio Shanghai	Ushio Asia Pacific	Ushio Asia Pacific (Thailand)	Ushio Korea	EAVG	CDS UK	Ushio Taiwan	Ushio Asia Pacific Vietnam	
2016	INPUT	Total energy input (GJ)	1,512	415	1,452	2,234	637	1,264	620	248	5,992	255	572	163	2,835	3,869	3,676	1,174		
		Greenhouse gas emissions (t-CO2)	81	21	73	115	33	59	20	12	461	20	0	11	183	195	163	75		
	OUTPUT	Total waste output (kg)	9,207	332	2,424	23,669	-	1,200	636	240	17,276	2,293	240	180	319	371	-	-	-	
		Final disposal waste volume (kg)	0	0	1,235	505	-	180	636	240	10,278	570	240	180	26	371	-	-	-	
		Effective resource utilization rate	100.0%	100.0%	49.0%	97.9%	-	85.0%	0%	0%	40.5%	75.1%	0%	0%	91.8%	0%	-	-	-	
2017	INPUT	Total energy input (GJ)	1,500	324	1,924	2,206	660	1,264	620	248	5,749	258	592	229	2,592	3,908	3,713	1,088		
		Greenhouse gas emissions (t-CO2)	78	17	94	111	34	59	20	12	443	20	0	16	170	197	164	69		
	OUTPUT	Total waste output (kg)	10,589	355	-	11,391	-	1,200	636	240	15,385	2,504	240	360	303	-	-	-	-	
		Final disposal waste volume (kg)	0	0	-	501	-	180	636	240	8,356	622	240	360	34	-	-	-	-	
		Effective resource utilization rate	100.0%	100.0%	-	95.6%	-	85.0%	0%	0%	45.7%	75.2%	0%	0%	88.9%	-	-	-	-	
2018	INPUT	Total energy input (GJ)	1,457	300	1,538	2,137	694	1,264	620	248	5,584	259	648	329	4,252	-	-	1,150	20	
		Greenhouse gas emissions (t-CO2)	74	13	73	105	30	59	20	12	430	20	0	23	284	-	-	73	1	
	OUTPUT	Total waste output (kg)	9,709	223	2,361	39,420	-	1,200	636	240	15,301	2,704	240	360	698	-	-	-	27	
		Final disposal waste volume (kg)	0	0	1,388	541	-	180	636	240	9,441	673	240	360	42	-	-	-	27	
		Effective resource utilization rate	100.0%	100.0%	41.2%	98.6%	-	85.0%	0%	0%	38.3%	75.1%	0%	0%	84.0%	-	-	-	0.0%	
2019	INPUT	Total energy input (GJ)	1,531	299	1,119	2,071	827	1,264	620	248	5,753	258	654	127	2,215	-	-	1,193	46	
		Greenhouse gas emissions (t-CO2)	78	11	53	100	29	59	20	12	443	20	0	9	145	-	-	76	2	
	OUTPUT	Total waste output (kg)	9,072	417	2,636	46,279	-	1,200	636	240	14,965	2,921	240	360	315	-	-	-	71	
		Final disposal waste volume (kg)	0	0	1,163	532	-	1,000	636	240	8,965	729	240	360	36	-	-	-	71	
		Effective resource utilization rate	100.0%	100.0%	55.9%	99%	-	16.7%	0%	0%	40.1%	75.1%	0%	0%	88.5%	-	-	-	0.0%	
2020	INPUT	Total energy input (GJ)	888	285	1,046	2,228	786	1,264	620	248	5,154	284	591	27	2,254	-	-	1,457	46	
		Greenhouse gas emissions (t-CO2)	43	10	48	105	27	59	20	12	397	22	0	2	139	-	-	94	2	
	OUTPUT	Total waste output (kg)	16,314	136	3,524	22,195	-	1,200	636	240	7,906	2,884	240	360	379	-	-	-	71	
		Final disposal waste volume (kg)	0	0	3,524	626	-	1,000	636	240	6,796	719	240	360	57	-	-	-	71	
		Effective resource utilization rate	100.0%	100.0%	0.0%	97.2%	-	16.7%	0.0%	0.0%	14.0%	75.1%	0.0%	0.0%	84.9%	-	-	-	0.0%	

* CO2 emissions coefficients: Japan—Ministry of the Environment's emissions coefficients for each fiscal year. Overseas—IEA CO2 Emissions from Fuel Combustion 2013

* Ushio Opto Semiconductors (including the former USHIO Epitex) was merged with USHIO Electric, so from FY2020 it is divided into USHIO (Gotemba Plant) part, USHIO (Kyoto) and USHIO (Saku).

PRTR Substance Emission Trends

Years ended March 31	Category	
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