

## Environmental Performance Trends by Site

Production site			Ushio Inc. (Harima)	Ushio Inc. (Gotemba)	Ushio Inc. (Yokohama)	Ushio Lighting	Nihon Denshi Gijutsu	Ushio Opto Semiconductors Inc. (Including Ushio Epitax Inc.)	ADTEC Engineering	Wacom Electric Co., Ltd.	MAXRAY	Ushio America	Christie Digital Systems USA	Christie Digital Systems Canada	BLV	Ushio Philippines	Ushio (Suzhou)	Ushio (Shaoguan)	Christie Digital Systems Shenzhen	EGG	Ushio Poland
2015	INPUT	Total energy input (GJ)	200,058	61,801	14,458	42,959	662	63,819	61,733	2,098	2,739	19,459	15,623	74,662	27,631	84,608	8,736	18,507	10,452		
		Water used (m <sup>3</sup> )	39,492	43,274	4,099	6,530	202	57,255	15,219	1,775	446	14,997	7,245	4,347	1,730	80,048	9,640	9,751	3,403		
	OUTPUT	Greenhouse gas emissions (t-CO <sub>2</sub> )	10,824	3,208	734	2,286	34	3,376	3,833	106	150	984	796	1,416	1,374	4,221	677	1,448	801		
		Total waste water emissions (m <sup>3</sup> )	36,951	43,274	4,099	4,085	202	56,299	15,219	1,775	446	14,997	7,245	4,347	1,730	80,048	9,640	9,751	3,403		
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	10,162	11,152	19,802	11,152			
		Water used (m <sup>3</sup> )	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-CO <sub>2</sub> )	11,291	3,483	711	1,995	3,267	4,007	1,411	1,021	1,021	756	1,315	1,469	4,618	787	1,550	855			
		Total waste water emissions (m <sup>3</sup> )	36,115	59,885	4,734	2,985	65,778	12,264	1,664	537	15,164	7,231	4,012	1,522	116,357	4,950	9,023	3,440			
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 (m <sup>3</sup> )	38,693	69,798	4,009	4,089	60,553	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-CO <sub>2</sub> )	11,879	3,249	674	1,799	3,497	3,604	1,531	125	895	704	1,411	1,673	4,745	1,105	1,648	863	51	346	
		Total waste water emissions (m <sup>3</sup> )	34,507	69,825	4,009	2,548	89,859	13,322	3,076	605	13,289	7,110	4,267	1,662	107,394	5,460	9,023	432	1,385		
2018	INPUT	Total energy input (GJ)	218,103	66,398	15,037	37,559	69,299	61,175	2,557	18,907	13,146	69,831	29,557	109,236	13,770	18,251	11,149				
		Water used (m <sup>3</sup> )	40,146	63,797	4,216	4,594	89,006	20,275	3,982	122	15,340	6,984	4,674	1,815	83,267	3,410	10,985	3,651			
	OUTPUT	Greenhouse gas emissions (t-CO <sub>2</sub> )	9,885	3,249	720	1,885	3,378	3,486	1,438	122	957	671	1,438	1,431	5,425	1,067	1,427	854			
		Total waste water emissions (m <sup>3</sup> )	38,134	63,797	4,216	2,836	94,402	20,275	3,982	122	15,340	6,984	4,674	1,815	83,267	3,410	10,985	3,651			
2019	INPUT	Total energy input (GJ)	213,436	84,418	17,192	32,331	71,665	80,348	1,905	19,085	12,926	70,049	31,670	102,839	9,527	18,289	11,916	5,194			
		Water used (m <sup>3</sup> )	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	462			
	OUTPUT	Greenhouse gas emissions (t-CO <sub>2</sub> )	7,974	4,073	810	1,192	3,318	4,542	89	965	661	1,405	1,536	5,118	739	1,427	913	406			
		Total waste water emissions (m <sup>3</sup> )	31,981	67,973	4,417	2,093	91,736	20,709	1,042	9,812	5,839	4,344	1,730	65,167	2,756	10,214	3,788	462			

Non-production site			Ushio Inc. (Headquarter)	Ushio Inc. (Tokyo Sales Headquarters)	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	UAPV
2015	INPUT	Total energy input (GJ)	1,322	610	181	1,502	2,096	579	1,264	620	248	6,103	216	584	130	2,715	3,594	3,676	1,354	
		Water used (m <sup>3</sup> )	71	31	10	76	109	31	59	20	12	470	17	9	177	181	163	87		
	OUTPUT	Greenhouse gas emissions (t-CO <sub>2</sub> )	21,506	9,920	3,731	2,022	8,728	1,200	636	240	29,109	2,349	240	190	342	190	10,900			
		Total waste output (kg)	0	0	0	1,090	446	180	636	240	19,234	584	240	190	30	371	10,900			
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		
		Water used (m <sup>3</sup> )	81	21	73	115	33	59	20	12	461	20	20	11	183	195	163	75		
	OUTPUT	Greenhouse gas emissions (t-CO <sub>2</sub> )	9,207	332	2,424	23,669	1,200	636	240	17,276	2,293	240	180	319	371					
		Total waste output (kg)	0	0	1,235	505	180	636	240	10,278	570	240	180	26	371					
2017	INPUT	Total energy input (GJ)	1,500	324	1,924	2,208	660	1,264	620	248	5,749	258	592	229	2,592	3,908	3,713	1,088		
		Water used (m <sup>3</sup> )	78	17	94	111	34	59	20	12	443	20	16	170	197	164	69			
	OUTPUT	Greenhouse gas emissions (t-CO <sub>2</sub> )	10,589	355	11,391	1,200	636	240	15,385	2,504	240	360	303							
		Total waste output (kg)	0	0	501	180	636	240	8,356	622	240	360	34							
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	
		Water used (m <sup>3</sup> )	74	13	73	105	30	59	20	12	430	20	20	23	284			73	1	
	OUTPUT	Greenhouse gas emissions (t-CO <sub>2</sub> )	9,709	223	2,361	39,420	1,200	636	240	15,301	2,704	240	360	698						
		Total waste output (kg)	0	0	1,388	541	180	636	240	9,441	673	240	360	42						
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	
		Water used (m <sup>3</sup> )	78	11	53	100	29	59	20	12	443	20	20	9	145			76	2	
	OUTPUT	Greenhouse gas emissions (t-CO <sub>2</sub> )	9,072	417	2,638	46,279	1,200	636	240	14,965	2,921	240	360	315						
		Total waste output (kg)	0	0	1,163	532	1,000	636	240	8,965	729	240	360	36						

The data has been corrected in Aug 2021.  
 \*CO<sub>2</sub> emissions coefficients: Fiscal 2013: 0.555 kg-CO<sub>2</sub>/kwh, Fiscal 2014 to fiscal 2017: Japan-Ministry of the Environment's emissions coefficients for each fiscal year. Overseas-IEA:CO<sub>2</sub> Emissions from Fuel Combustion 2013

## PRTR Substance Emission Trends

Years ended March 31	Category	Ushio Inc. (Harima)
2015	PRTR chloroform (kg): atmosphere	6,850
	PRTR molybdenum (kg): industrial waste	109
2016	PRTR chloroform (kg): atmosphere	7,002
	PRTR molybdenum (kg): industrial waste	130
2017	PRTR chloroform (kg): atmosphere	8,763
	PRTR molybdenum (kg): industrial waste	149
2018	PRTR chloroform (kg): atmosphere	9,310
	PRTR molybdenum (kg): industrial waste	284
2019	PRTR chloroform (kg): atmosphere	8,280
	PRTR molybdenum (kg): industrial waste	170