

## Environmental Data

### A. Waste, Water, Energy, GHG & Air emission<sup>1</sup>

Category	Environmental Performance Index	Unit	2020	2021	2022	2023
Waste	Total general and hazardous waste	ton	75,814	82,158	75,391	68,657
	General waste production	ton	45,139	52,618	49,972	47,965
	Recycled and reused (without energy recovery)	ton	33,813	41,696	39,245	38,321
	Landfilled	ton	1,872	1,976	1,368	1,114
	Incinerated with energy recovery	ton	8,442	8,160	8,810	8,275
	Incinerated without energy recovery	ton	1,012	786	549	255
	Hazardous waste production	ton	30,675	29,540	25,419	20,692
	Recycled and reused (without energy recovery)	ton	13,048	14,064	12,963	11,199
	Landfilled	ton	870	1,326	0	0
	Incinerated with energy recovery	ton	6,740	5,171	5,563	4,897
	Incinerated without energy recovery	ton	7,201	7,262	1,864	819
	Others	ton	2,816	1,717	5,029	3,777
	Total recycled and reused	ton	62,043	69,091	66,581	62,692
	Total non-recycled and reused	ton	13,771	13,067	8,810	5,965
	Total recycled and reused rate	%	82	84	88	91
Water	Water withdrawal	m <sup>3</sup>	24,961,039	25,872,192	23,398,956	21,467,999
	Water withdrawal intensity	m <sup>3</sup> / US\$ thousand revenue	1.468	1.262	1.072	1.130
	Ultra-pure water usage	m <sup>3</sup>	26,304,664	28,660,692	28,571,562	28,923,983
	Water recycled and reuse	m <sup>3</sup>	34,437,950	37,817,390	40,121,082	39,474,668
	Process water recycle rate	%	72	72	76	78
	Wastewater discharge	m <sup>3</sup>	19,454,037	19,569,329	17,461,146	15,386,252
	Water consumption	m <sup>3</sup>	5,507,002	6,302,863	5,937,810	6,081,747
	Total fresh water consumption	Million m <sup>3</sup>	24.71	24.45	23.17	20.93

<sup>1</sup> The data from 2022 to 2023 does not include the facilities sold in 2022

Category	Environmental Performance Index	Unit	2020	2021	2022	2023
Energy	Electricity consumption	MWh	3,900,915	4,285,155	4,233,363	4,211,006
	Renewable electricity	MWh	706,105	1,030,137	819,863	844,044
	Non-renewable electricity	MWh	3,194,810	3,255,018	3,413,500	3,366,962
	Electricity intensity	MWh/ US\$ thousand revenue	0.230	0.209	0.194	0.222
	Total Renewable energy consumption	MWh	706,105	1,030,137	819,863	844,044
	Liquefied Petroleum Gas (LPG)	GJ	16,770	2,273	3,253	3,340
	Liquefied Natural Gas (LNG)	GJ	324,214	332,561	333,904	335,803
	Motor gasoline	GJ	6,593	5,972	4,863	5,570
	Diesel	GJ	73,337	27,231	26,586	25,925
	Heavy oil	GJ	32,534	34,703	37,917	43,460
	Total non-renewable energy consumption	MWh	3,352,288	3,416,482	3,571,744	3,536,828
Green House Gas (GHG) <sup>1</sup>	SCOPE 1	tCO <sub>2</sub> e	93,996	90,591	90,993	75,274
	SCOPE 2 (Market-based)	tCO <sub>2</sub> e	1,658,606	1,612,050	1,671,242	1,649,347
	SCOPE 1 + SCOPE 2 (Market-based) <sup>1</sup>	tCO <sub>2</sub> e	1,752,602	1,702,641	1,762,235	1,724,621
	GHG intensity (Market-based)	tCO <sub>2</sub> e / US\$ thousand revenue	0.103	0.083	0.081	0.091
	SCOPE 3	tCO <sub>2</sub> e	19,804,255 <sup>2</sup>	15,639,991	13,350,245	9,891,845
	PFC emissions / number package output	kgCO <sub>2</sub> e/kPCs	0.00077	0.00062	0.00091	0.00073
Air Emission	VOCs (Volatile organic compounds)	tons	219	262	291	239

<sup>1</sup> In 2022, ASEH Scope 1&2 emissions is 79.0412 (tCO<sub>2</sub>e) and the intensity is 0.00012 (tCO<sub>2</sub>e / NT\$ million revenue), Scope 3 emissions is 30.3066 (tCO<sub>2</sub>e) and the intensity is 0.00005 (tCO<sub>2</sub>e / NT\$ million revenue), the data for Scope 1/2/3 were verified by British Standards Institution Pacific Limited Taiwan Branch, BSI. As a result of carrying out verification and validation procedures by ISO 14064-3 : 2019, it is reasonable assurance for verification activity  
In 2023, ASEH Scope 1&2 emissions is 65.9175 (tCO<sub>2</sub>e) and the intensity is 0.00011 (tCO<sub>2</sub>e / NT\$ million revenue), Scope 3 emissions is 171.0377 (tCO<sub>2</sub>e) and the intensity is 0.00029 (tCO<sub>2</sub>e / NT\$ million revenue), the data for Scope 1/2/3 were verified by British Standards Institution Pacific Limited Taiwan Branch, BSI. As a result of carrying out verification and validation procedures by ISO 14064-3 : 2019, it is reasonable assurance for verification activity

<sup>2</sup> In 2020, Scope 3 emissions were 19,636,385 (tCO<sub>2</sub>e), the data does not include the facilities sold

B. The amount of water withdrawals and discharge in water-stressed regions<sup>1</sup>

Water withdrawal			
		Water withdrawals at ASEH facilities (ML)	Water withdrawals in water-stressed regions <sup>2</sup> (ML)
Total water withdrawals	Surface water	9	0
	Groundwater	4,256	0
	Third-party water	17,203	4,106
Water withdrawals by source of water <sup>3</sup>	Freshwater (TDS ≤ 1,000 mg/L)	19,429	4,090
	Other sources of water (TDS > 1,000 mg/L)	0	0
Water discharge			
		Water discharge at ASEH facilities (ML)	Water discharge in water-stressed regions <sup>4</sup> (ML)
Water discharge by discharge destination	Surface water	8,794	0
	Groundwater	0	0
	Marine water	826	0
	Third-party water	5,766	3,496
Total water discharge	Surface water + groundwater + marine water + third-party water	15,386	3,496
Water discharge by source of water <sup>5</sup>	Freshwater (TDS ≤ 1,000 mg/L)	372	0
	Other sources of water (TDS > 1,000 mg/L)	2,844	283
Water consumption			
Total water consumption	Total water withdrawals - Total water discharge	6,082	610

<sup>1</sup> Areas in water stress (Stress>40%): Water withdrawal in these areas accounted for 19% of the overall water withdrawal. Water discharge accounted for 23% of the total water consumption

<sup>2</sup> Water withdrawals in water-stressed regions (Stress>40%): (1) ASE: Shanghai Material, ISE Labs China; (2) USI: Zhangjiang, Shengxia, Jinqiao, Kunshan, Mexico; (3) SPIL: Suzhou

<sup>3</sup> Facilities that measure TDS in the water withdrawal: (1) ASE: Kaohsiung, Chungli, Shanghai (Material), Wuxi, Korea, Singapore, ISE Labs; (2) USI: Kunshan, Taiwan, Vietnam; (3) SPIL: Taiwan, Suzhou; Other facilities are not included in the TDS calculated

<sup>4</sup> Water discharge in water-stressed regions (Stress>40%): (1) ASE: Shanghai Material, ISE Labs China; (2) USI: Zhangjiang, Shengxia, Jinqiao, Kunshan, Mexico; (3) SPIL: Suzhou

<sup>5</sup> Facilities that measure TDS in the water discharge: (1) ASE: Kaohsiung, Japan, Singapore; (2) USI: Zhangjiang, Shengxia; Other facilities are not included in the TDS calculated

C. Effluent quality of our facilities with on-site wastewater treatment<sup>1</sup>

Item	Unit	Taiwan_to land		Taiwan_to ocean		China		Japan	
		Effluent standard	Min.~Max.	Effluent standard	Min.~Max.	Effluent Standard (Nation)	Min.~Max.	Effluent Standard (Nation)	Min.~Max.
pH	pH	6~9	6~8.1	6~9	7.3~7.9	6~9	6.79~8.2	5.8~8.6	6.6~8
COD concentration <sup>2</sup>	mg/L	100	3.2~66.8	280	4~6.2	500	10~278	160	-
BOD concentration <sup>3</sup>	mg/L	-	1~21	100	0~11.2	300	2.2~68.63	160	0.5~1.5
Suspended Solid (SS) concentration <sup>4</sup>	mg/L	30	1.7~21.5	100	1~7.9	400	6~55	200	1.5~15
Cu <sup>2+</sup> concentration	mg/L	1.5	ND~0.352	2	0.018~0.386	1	0~0.66	3	-
Ni <sup>2+</sup> concentration	mg/L	0.7	ND~0.0193	1	0~0.113	0.1	0.002~0.1	-	-

Item	Unit	Korea		Malayisa		Vietnam	
		Effluent standard	Min.~Max.	Effluent standard	Min.~Max.	Effluent standard	Min.~Max.
pH	pH	5.8~8.6	7.0~7.9	5.5~9.0	7.1~7.9	5~9	5~9
COD concentration	mg/L	-	9~10	200	4~16	500	500
BOD concentration	mg/L	80	5.9~23	50	1~2	500	500
Suspended Solid (SS) concentration	mg/L	80	0.32~6.96	100	1~4	500	500
Cu <sup>2+</sup> concentration	mg/L	3	0~0.02	1	0.05~0.26	2	-
Ni <sup>2+</sup> concentration	mg/L	3	-	1	0.1	0.5	-

<sup>1</sup> ASE ISE Labs China and ISE Labs are the testing laboratories where water usage is only for public facilities and domestic. ASE Singapore and the other electronic manufacturing service facilities (USI Kunshan, Huizhou, and Mexico) do not have on-site wastewater treatment. Thus, these six facilities are not included in the statistics

<sup>2</sup> Refer to the Class B marine areas of Marine Discharge Pipe Effluent Standards released on October 20, 2017, to the discharge water standards for marine discharge pipelines

<sup>3</sup> Waste water discharge from the SPIL Hsinchu Facility is diverted into the park's sewer system and waste water treatment plant in accordance with the Hsinchu Science Park Effluent Standards. Also, USI Nankang Facility is diverted into the park's sewer system and waste water treatment plant in accordance with the Nankang Industrial Park Effluent Standards. Therefore, these two facilities are not included

<sup>4</sup> USI Nankang Facility is diverted into the park's sewer system and waste water treatment plant in accordance with the Nankang Industrial Park Effluent Standards. Therefore, this facility is not included

<sup>5</sup> Waste water discharge of the SPIL Zhong Ke and Zhong Ke II facilities is diverted into the park's sewer system and waste water treatment plant in accordance with the Central Taiwan Science Park Effluent Standards, and is therefore not included

## D. Product Lifecycle Management

Category	Index	Unit	2023
Life Cycle Assessment Approach	Full LCAs	% (Percentage of Total Products)	37.78
	Simplified LCAs	% (Percentage of Total Products)	8.46
	Others (green products meet international regulations & customer requirements.)	% (Percentage of Total Products)	53.76
End-of-life products and e-waste	Weight of end-of-life products and e-waste <sup>1</sup>	ton	480
	The percentage of end-of-life products and e-waste that were recovered <sup>2</sup>	%	3
	The percentage of end-of-life material recovered that was recycled <sup>3</sup>	%	0

## E. Environmental issues Training

Topic	Training course description	Total time (Hours)	Total participants
Environmental Management	Training courses include any environmental matters	93,011	185,126
Energy	Training courses include matters related to efficiency management or raising awareness to reduce energy consumption	4,600	1,855
Water	Training courses include matters related to water efficiency management or raising awareness of water conservation	3,743	5,328
Waste	Training courses include matters related to waste management or raising awareness to reduce waste	38,235	42,361

## F. Environmental Violations

	2020	2021	2022	2023
Number of significant violations of legal obligations/regulations <sup>4</sup>	0	0	0	0
Amount of fines/penalties related to the above (Unit: US\$)	0	0	0	0
Environmental liability accrued at year end (Unit: US\$)	0	0	0	0

<sup>1</sup> End-of-life material is defined as products, materials, and parts, including electronic waste material (e-waste), that at the end of their useful life would have been disposed of as waste. The scope of end-of-life material excludes materials that have been returned to customer

<sup>2</sup> End-of-life material that was recovered is defined as the above-mentioned end-of-life material that have instead been collected to be recovered or regenerated a usable product

<sup>3</sup> Recycled material is defined as the above-mentioned end-of-life material recovered that are used for the same purpose for which they were conceived, including products donated and/or refurbished by the entity or by third parties

<sup>4</sup> Fine/penalty individually costs more than US\$10,000 is defined as significant

## G. Implementation of Climate-Related Information

Item	Implementation status
Describe the board of directors' and management's oversight and governance of climate-related risks and opportunities.	The Board of Directors of the Company serves as the supervisory and governance body for climate-related issues. It is responsible for approving risk policies, overseeing climate-related risks, and making decisions pertaining to climate matters. The Board of Directors has established the Risk Management Committee and the Corporate Sustainability Committee as bodies responsible for climate-related risks and opportunities. Each committee consists of Directors who are separately responsible for managing climate risks and climate sustainability strategies, promoting sustainable developments of climate-related issues and the operation of risk management mechanisms, and implementing decisions made by the Board of Directors. We report on the management and execution status of climate-related issues to the Board of Directors on a quarterly basis, enabling the Board of Directors to understand the impact of climate change on the Company's business operations and develop corresponding strategies.
Describe how the identified climate risks and opportunities affect the business, strategy, and finances of the business (short, medium, and long term).	The Company regularly identifies and assesses climate-related physical and transition risks on a yearly basis. This is implemented by using questionnaires and integrating international (national) risk management tools and databases. Risks and opportunities are distinguished based on short-term (< 3 years), medium-term (3-5 years), and long-term (> 5 years) occurrences. The impacts of these risks and opportunities on the Company's finances and operations are identified, followed by proposing countermeasures and management strategies. For detailed information, please refer to the Company's Climate and Environmental Report (TCFD&TNFD), and publicly available information on our website.
Describe the financial impact of extreme weather events and transformative actions.	The Company conducts annual assessments of climate-related physical and transition risks. We utilize questionnaires to identify extreme weather events, including but not limited to heavy rainfall, drought, and significant temperature changes. Additionally, we assess the potential impact and influence of these weather events on our business operations and finances. For more detailed information, please consult the Company's Climate and Environmental Report, and publicly available information on our website.
Describe how climate risk identification, assessment, and management processes are integrated into the overall risk management system.	The executive secretariat of the Risk Management Committee collaborates with our subsidiaries to conduct an identification and assessment of climate-related physical and transition risks. This process involves using questionnaires and collecting data to identify physical and transition risks or events that could affect our business objectives, as well as their financial and operational implications. Based on the findings of this process, countermeasures and management strategies are proposed, and the results of climate risk identification are reported to the Board of Directors annually, which tracks the implementation status of our climate measures regularly.
If scenario analysis is used to assess resilience to climate change risks, the scenarios, parameters, assumptions, analysis factors and major financial impacts used should be described.	The Company has established climate scenarios based on the IPCC AR6 and international energy parameters, taking into account policy, technology, market, and reputational factors. These factors are used to assess the resilience of the company to climate change. For more detailed information, please refer to the Company's Climate and Environmental Report (TCFD&TNFD), and publicly available information on our website.
If there is a transition plan for managing climate-related risks, describe the content of the plan, and the indicators and targets used to identify and manage physical risks and transition risks.	The Company will develop a transition plan in response to the annual risk identification results. This plan will include indicators and goals for identifying and managing physical risks and transition risks. For more information, please consult the Company's Climate and Environmental Report (TCFD&TNFD), and the publicly available information on our website.
If internal carbon pricing is used as a planning tool, the basis for setting the price should be stated.	Internal carbon pricing is being gradually introduced based on the regions of subsidiary companies. This is done in conjunction with the budget system to encourage subsidiary companies to implement emission reduction projects.
If climate-related targets have been set, the activities covered, the scope of greenhouse gas emissions, the planning horizon, and the progress achieved each year should be specified. If carbon credits or renewable energy certificates (RECs) are used to achieve relevant targets, the source and quantity of carbon credits or RECs to be offset should be specified.	To access information about the annual GHG emissions and renewable energy usage, please refer to the Company's Climate and Environmental Report (TCFD&TNFD), and the publicly available information on our website.
Greenhouse gas inventory and assurance status.	The Company has established short-term and long-term net zero goals, with annual greenhouse gas inventories verified by third-party organizations. Progress, achievements, and specific actions are reported to the Board of Directors on a quarterly basis. For more detailed information, please refer to the Company's Climate and Environmental Report (TCFD&TNFD), and the publicly available information on our website.

## Social Data

### A. Global Workforce Structure by Nationality/Race

Nationality <sup>1</sup>	Employee		Management Level	
	Number	Percentage of Total Employee (%)	Number	Percentage of Total Management Level (%)
Taiwan	47,543	57.26%	4,321	70.92%
China	14,486	17.45%	1,313	21.55%
Philippines	10,345	12.46%	26	0.43%
Mexico	3,467	4.18%	103	1.69%
Malaysia	2,321	2.80%	158	2.59%
South Korea	1,881	2.27%	36	0.59%
Indonesia	1,168	1.41%	1	0.02%
Vietnam	926	1.12%	29	0.48%
Japan	401	0.48%	31	0.51%
Singapore	242	0.29%	58	0.95%
Nepal	156	0.19%	0	0%
Thailand	39	0.05%	0	0%
Myanmar	20	0.02%	0	0%
U.S.A	13	0.02%	8	0.13%
India	12	0.01%	3	0.05%
United Kingdom	5	0.01%	5	0.08%
Canada	2	0.00%	1	0.02%
France	1	0.00%	0	0%
Total	83,028		6,093	

<sup>1</sup> The global workforce by nationality do not include ISE Labs employees

<sup>2</sup> The global workforce by race only includes ISE Labs employees

Race <sup>2</sup>	Employee		Management Level	
	Number	Percentage of Total Employee (%)	Number	Percentage of Total Management Level (%)
Asian	139	69.15%	25	62.50%
Hispanic or Latino	27	13.43%	3	7.50%
White	25	12.44%	11	27.50%
Native Hawaiian or Other Pacific Islander	5	2.49%	0	0%
Two or More Races	4	1.99%	1	2.50%
Black or African American	1	0.50%	0	0%
Total	201		40	

## B. Foreign Employee

Business Unit	Category	Group	Number	Percentage of Total Employee in Business Unit (%)
Semiconductor Assembly (packaging), Testing and Materials (ATM)	Employment Type	Regular	11,866	17.90%
		Contract	4	0.01%
	Gender	Male	2	0.00%
		Female	2	0.00%
	Total		11,870	
	Employment Visa	Male	1,846	2.78%
		Female	9,203	13.88%
	Total		11,049	
Electronic Manufacturing Service (EMS)	Employment Type	Regular	867	5.09%
		Contract	2	0.01%
	Gender	Male	174	1.02%
		Female	695	4.08%
	Total		869	
	Employment Visa	Male	174	1.02%
		Female	695	4.08%
	Total		869	

## C. Employee Information<sup>1</sup>

Employment Category	Gender		Location			
	Male	Female	Taiwan	China	Rest of Asia	Americas
Permanent Employees	41,701	35,609	53,845	12,521	7,258	3,686
Temporary Employees	2,112	3,807	3,876	1,945	96	2
Non-guaranteed Hours Employees	0	0	0	0	0	0
Total	43,816	39,416	57,721	14,466	7,354	3,688
Full-time Employees	43,762	39,379	57,652	14,466	7,351	3,672
Part-time Employees	51	37	69	0	3	16
Total	43,816	39,416	57,721	14,466	7,354	3,688

<sup>1</sup> The employee information: the number of employees still employed as of December 31st

#### D. Male/Female Employee (by Job Position)

Category	Group	Male		Female	
		Number	Group Percentage (%)	Number	Group Percentage (%)
Position	Management	4,356	71.0%	1,777	29.0%
	Engineering	23,699	86.1%	3,836	13.9%
	Administration	1,872	32.2%	3,938	67.8%
	Skill Job	13,884	31.7%	29,867	68.3%
Management Level	Top Management Positions <sup>1</sup>	679	85.2%	118	14.8%
	Middle management Positions	1,710	79.5%	441	20.5%
	Junior Management Positions	1,533	64.2%	853	35.8%
	Management Positions in Revenue-generating Function	3,580	72.5%	1,358	27.5%
STEM Related Position		27,140	81.7%	6,064	18.3%

#### E. New Hire Employee

Category	Group	Number	Percentage of Total New Hire Employee (%)
Gender	Male	8,309	59.1%
	Female	5,746	40.9%
Nationality	Native	13,055	92.9%
	Foreign	1,000	7.1%
Disabled	Male	107	0.8%
	Female	54	0.4%
Position	Management	166	1.2%
	Engineering	2,027	14.4%
	Administration	550	3.9%
	Skill Job	11,312	80.5%
Age	<30	9,523	67.7%
	30-50	4,255	30.3%
	>50	277	2.0%
Education	Ph.D	4	0.1%
	Master	413	2.9%
	Bachelor	1,756	12.5%
	Other Higher Education/ High School and Below	11,882	84.5%
Total		14,055	

<sup>1</sup> Top Management Positions: Senior Manager to Senior Vice President

## F. Turnover Rate

Category	Group	2020		2021		2022		2023	
		Number	Percentage of Group (%)	Number	Percentage of Group (%)	Number	Percentage of Group (%)	Number	Percentage of Group (%)
Gender	Male	8,485	55.3%	10,339	57.3%	7,319	53.7%	6,518	55.2%
	Female	6,851	44.7%	7,695	42.7%	6,312	46.3%	5,286	44.8%
Position	Management	346	2.3%	433	2.4%	369	2.7%	297	2.5%
	Engineering	3,163	20.6%	3,956	21.9%	3,364	24.7%	2,424	20.5%
	Administration	685	4.5%	843	4.7%	791	5.8%	684	5.8%
	Skill Job	11,142	72.7%	12,802	71.0%	9,107	66.8%	8,399	71.2%
Age	<30	8,840	57.6%	9,995	55.4%	6,738	49.4%	6,080	51.5%
	30-50	6,080	39.7%	7,591	42.1%	6,451	47.3%	5,242	44.4%
	>50	416	2.7%	448	2.5%	442	3.2%	482	4.1%
Education	Ph.D	17	0.1%	21	0.1%	15	0.1%	12	0.1%
	Master	699	4.6%	909	5.0%	739	5.4%	529	4.5%
	Bachelor	3,306	21.6%	6,420	35.6%	3,809	28.0%	2,963	25.1%
	Other Higher Education/ High School and Below	11,314	73.8%	10,684	59.2%	9,069	66.5%	8,300	70.3%
Total		15,336		18,034		13,631		11,804	

## G. Full-time Employees in Non-executive Positions

Category	2020	2021	2022	2023	Difference of 2022-2023
Employee <sup>1</sup>	47,753	48,013	50,061	52,948	2,887
Average Compensation (NT\$)	799,730	914,627	1,001,460	929,206	-72,254
Median Compensation (NT\$)	670,687	726,063	771,532	739,048	-32,484

## H. Parental Leave

Category	Group	Number	Percentage of Group (%)	Total
Employees Qualified for Parental Leave in 2023	Male	2,947	65%	4,540
	Female	1,593	35%	
Employees that Applied for Parental Leave in 2023	Male	306	32%	960
	Female	654	68%	
Application Rate (%)	Male	10%		21%
	Female	41%		
Employees Expected to Return to Work in 2023 After Parental Leave	Male	243	31%	779
	Female	536	69%	
Employees Return to Work in 2023 After Parental Leave and Returned as Scheduled or In Advance	Male	205	33%	615
	Female	410	67%	
Return Rate (%)	Male	84%		79%
	Female	76%		
Actual Number of Employees Returned to Work in 2022	Male	204	32%	632
	Female	428	68%	
Employees that Returned to Work in 2022 and Still in Service in 2023	Male	169	32%	525
	Female	356	68%	
Retention Rate (%)	Male	83%		83%
	Female	83%		
NewBorns in 2023		1,853		

<sup>1</sup> "Employees" here refers to those under the employment of ASEH, ASE (ASE Kaohsiung and ASE Chungli; excluding ASE Test Inc. and ASE Electronics Inc.), SPIL and USI facilities in Taiwan ; only employees who have been employed and receiving regular pay for a minimum of 6 months will be included in the calculation

## I. Employee Engagement Survey<sup>1</sup>

Category	Total Employee	Gender		Age							Management Level		
		Male	Female	<20	20-24	25-29	30-34	35-39	40-45	>45	Junior	Middle	Senior
Employee Experience Indicators (% in 2023)													
Inspiration	79	78	82	67	80	75	76	78	80	84	83	88	85
Inclusion	82	81	83	75	83	80	81	82	82	83	83	88	83
Understanding	79	79	80	68	79	75	77	79	81	83	82	87	85
Drive	79	79	80	71	79	77	77	78	80	83	82	86	88
Voice	79	79	81	68	79	76	78	79	80	82	84	86	86
Organization	82	82	83	70	81	79	81	81	83	85	84	87	87
Growth	75	75	76	66	75	72	73	74	76	79	80	82	81
Capability	71	71	71	62	71	68	70	70	72	74	76	80	78
Fair Rewards	68	67	69	67	68	66	67	67	68	71	70	78	74
Trust	69	69	71	63	72	66	66	68	70	74	74	78	76
Collaboration	84	83	87	72	85	82	83	83	84	87	87	91	89
Support	82	82	81	76	83	82	82	81	81	81	84	90	88
Employee Engagement Indicators (% in 2023)													
ESG	81	81	83	74	79	78	80	81	83	86	83	88	88
Retention	70	70	71	62	62	64	67	70	75	79	72	80	78
Sustainable Engagement	77	76	78	76	76	76	77	76	76	80	76	84	87
DEI - Belonging	77	77	77	80	78	78	78	77	76	77	76	83	84
DEI - Impartiality	78	79	77	79	79	79	79	77	77	78	79	89	88
DEI - Opportunity	73	73	74	77	75	74	74	73	72	73	72	83	81
Wellbeing	62	61	63	65	62	61	62	61	61	65	60	69	74

<sup>1</sup> The Employee Engagement Survey is conducted once every two years and the next survey will be in 2025

## J. Training Hours and Training Spent

Category	Group		Number	Percentage of Group (%)
Training Hour (Hour)	Gender	Male	3,973,683	53%
		Female	3,475,088	47%
	Total		7,448,771	
	Position	Management	485,280	7%
		Engineering	2,688,117	36%
		Administration	246,902	3%
		Skill Job	4,028,473	54%
	Training Type	Mandatory Trainings <sup>1</sup>	3,903,480	52%
		Non-mandatory Trainings <sup>2</sup>	3,545,292	48%
Training Spent (US\$)	Gender	Male	4,794,078	61%
		Female	3,094,355	39%
	Total		7,888,433	
	Age	<30	2,140,014	27%
		30-50	5,140,558	65%
		>50	607,860	8%
	Management Level	Senior	465,131	54%
		Middle	279,384	32%
		Junior	121,344	14%
	Training Type	Mandatory Trainings	2,281,557	29%
		Non-mandatory Trainings	5,606,876	71%

<sup>1</sup> Mandatory Trainings refer to the trainings that provide employees with the basic skills they need to carry out their daily work. For example, training on occupational health and safety, legal/regulation compliance and RBA etc.

<sup>2</sup> Non-mandatory Trainings refer to the trainings that develop or improve employee skills. For example, smart manufacturing, automation and quality related courses

## K. Human Capital Return on Investment

Year	2020	2021	2022	2023
Human Capital Return on Investment (ROI) <sup>1</sup>	1.42	1.63	1.75	1.43

## L. Non-employee Workers<sup>2</sup>

Working Location	Number <sup>3</sup>
Taiwan	21,665
China	10,380
Rest of Asia	1,191
Americas	210
<b>Total</b>	<b>33,446</b>

<sup>1</sup> Human Capital ROI = (Total Revenue – (Total Operating Expenses – Total employee-related expenses)) / Total employee-related expenses

<sup>2</sup> Non-employee workers:

(1) Types and job functions include: engineering contractors, equipment maintenance, IT contractors, cleaning, janitorial services, catering, and convenience store services

(2) Contractual relationship: employed through third-party contractors

(3) The reason of non-employee workers increases than 2022: increase in engineering contractors

<sup>3</sup> Headcount calculation: Depending on the availability and accessibility of data from each subsidiary/factory site, the calculation includes (1) the number of workers still employed as of December 31st and (2) the number of individuals who have been employed at any point between January 1st and December 31st (including those who have already resigned)

<sup>4</sup> The Workers include employee and non-employee workers (exclude visitors)

<sup>5</sup> Rate of occupational injury = (number of occupational injury \* 1,000,000) / total hours of actually worked

<sup>6</sup> Rate of disability cases from occupational injuries = (number of disability cases from occupational injuries \* 1,000,000) / total number of working hours, excluding number of fatalities

<sup>7</sup> Rate of fatalities from occupational injuries = (number of fatalities from occupational injuries \* 1,000,000) / total number of working hours

<sup>8</sup> Rate of fatalities from occupational diseases = (number of fatalities from occupational diseases \* 1,000,000) / total number of working hours

<sup>9</sup> Actual working hours of non-employee workers: Depending on the availability and accessibility of data from each subsidiary/factory site, the calculation includes (1) calculating annual working hours based on actual attendance records and (2) estimating annual working hours based on the total headcount

## M. Workers<sup>4</sup> Occupational Health and Safety

Category	Group	Employee	Non-employee
Category of Occupational Injuries	Number of Physical Injuries	116	5
	Number of Chemical Injuries	4	0
	Number of Ergonomic Injuries	4	0
	Number of Biological Injuries	0	0
	Number of Psychosocial Injuries	0	0
<b>Total</b>		<b>124</b>	<b>5</b>
Occupational Injuries	Rate of Occupational Injury <sup>5</sup>	0.72	0.18
	Number of Disability Cases	0	0
	Rate of Disability <sup>6</sup> Cases	0	0
	Number of Fatalities	0	0
	Rate of Fatalities <sup>7</sup>	0	0
Occupational Diseases	Occupational Diseases	28	0
	Number of Fatalities	0	0
	Rate of Fatalities <sup>8</sup>	0	0
<b>Total Number of Working Hours (Hour)</b>		<b>171,969,076</b>	<b>27,468,587<sup>9</sup></b>

## N. Employee Absence Statistics

Year	2020	2021	2022	2023
Absence Ratio (%)	2.2%	2.0%	2.1%	2.2%

## O. Social Involvement Key Performance

## Environmental Technology Research Projects

	2020	2021	2022	2023
No. of project	10	10	19	13
Cost-saving of outsourced waste management (US\$)	566,000	1,096,000	5,600,000	949,000

## Industry-Academia Collaboration Programs

	2020	2021	2022	2023
No. of interns	638	224	410	502
No. of people participated in the semiconductor courses	169	862	209	453
No. of semiconductor assembly technology research projects	74	66	74	81

## Afforestation Projects

	2020	2021	2022	2023
No. of planting area (hectares)	18.05	13.42	31.79	31.68

## Volunteer

	2020	2021	2022	2023
No. of volunteers participating in the event	2,822	3,810	4,700	3,660
No. of volunteer hours	5,918	8,500	12,560	11,300

## Environmental Education Program

	2020	2021	2022	2023
No. of courses	31	45	1,348	264
No. of participation	2,700	1,770	26,017	11,460
No. of seed teachers	238	42	173	163
No. of training materials/films	38	27	59	53

## Supply Chain Data

### A. Supplier Sustainability Assessment<sup>1</sup>

Category		Supplier	2023	2023 Target
Desk Assessment	Tier-1 Supplier		645	Supplier Sustainability Assessment: 600 suppliers
	Significant Supplier	Tier-1 Supplier	215	
		Non Tier-1 Supplier	86	
Physical Assessment	On-site and Remote Assessment	Tier-1 Supplier	79	
		Significant Supplier	40	
		Non Tier-1 Supplier	6	
	RBA VAP and 3 <sup>rd</sup> party Assessment	Tier-1 Supplier	122	
		Significant Supplier	30	
		Non Tier-1 Supplier	21	

### B. Supplier ESG Capacity Building Programs

Category	2023	2023 Target
Total Number of Suppliers in ESG Capacity Building Programs	102	60
Significant Suppliers in ESG Capacity Building Programs (%)	27%	

### C. Critical Direct Material Suppliers Completing RBA SAQ (%)

Category	2020	2021	2022	2023
Critical Direct Material Suppliers Completing RBA SAQ (%)	64%	71%	78%	86%

### D. Critical Suppliers Obtaining GHG Certification (%)

Category	2020	2021	2022	2023
Critical Suppliers Obtaining ISO 14064-1 Certification (%)	45%	51%	61%	63%

### E. Non Tier-1 Suppliers Risk Assessment

Category	2020	2021	2022	2023
Non Tier-1 Suppliers Conduct Risk Assessment (by Tier-1 procurement amount) (%)	56%	61%	53%	46%

### F. Conflict Minerals

Category	2020	2021	2022	2023
DRC Conflict-Free Product Lines of Packaging and Material Services (%)	100%	100%	100%	100%
DRC Conflict-Free Product Lines of Electronic Manufacturing Services (%)	100%	100%	100%	100%

### G. Sustainable Raw Material

Category	2023	
Metal Materials	Amount (tonnes)	Share of Metal used that is Recycled (%)
Aluminium	180.48	68%
Cobalt	2.08	7%
Copper	525.44	55%
Iron/Steel	46.88	2%
Nickel	50.39	0.004%
Lithium	Not included	
Titanium	0.09	3%

<sup>1</sup> A total of 655 suppliers have implemented at least desk assessment or on-site assessment

## Critical Supplier List

### ASEH Critical Supplier List (ATM) in 2023

3M	ADVANCED DICING TECHNOLOGIES LTD.	ADVANCED RECYCLING CO., LTD.	ADVANTEK	AIR LIQUIDE FAR EASTERN LTD.
ASE (SHANGHAI) INC.	ASE Electronics INC.	ATO TECH	CHANG WAH ELECTROMATERIALS INC.	CHEMLEADER CORPORATE
CHI MEI TRADING CO., LTD	CRYSTAL-OPTECH	DAEDUCK ELECTRONICS CO., LTD	DAEWON SEMICONDUCTOR PACKAGING INDUSTRIAL CO., LTD.	DISCO CORPORATION
Dow International Holdings Company	DUPONT	E.PAK RESOURCES (S) PTE LTD	FUJIFILM ELECTRONIC MATERIALS CO., LTD.	FURUKAWA ELECTRIC CO., LTD.
FUSHENG ELECTRONICS CORPORATION	GREATECH SUBSTRATES CO.,LTD.	GTA MATERIAL CO., LTD.	HAESUNG DS CO., LTD.	Henkel AG & Co. KGaA
HERAEUS GROUP	HSIEHCHANG TECHNOLOGY CO., LTD.	HWA SHU ENTERPRISE CO., LTD.	INNOX ADVANCED MATERIALS CO., LTD	JENTECH PRECISION INDUSTRIAL CO.,LTD
KINSUS INTERCONNECT TECHNOLOGY CORP	KOREA CIRCUIT	KOSTAT, INC.	KULICKE AND SOFFA INDUSTRIES INC.	KYOCERA CORPORATE
LEADING INTERCONNECT SEMICONDUCTOR TECHNOLOGY	LEENO INDUSTRIAL INC.	LG INNOTEK CO., LTD.	LINTEC CORPORATION	LUCANDO CHEMICAL TECHNOLOGY CO., LTD.
MacDermid ALPHA ELECTRONICS SOLUTIONS	MERCK PERFORMANCE MATERIALS LTD	MITSUBISHI CORPORATION PLASTICS LTD.	mitsui chemicals	mitsui HIGH-TEC, INC.
MK ELECTRON CO., LTD.	MTI ECO INNO.	MURATA ELECTRONICS	NAMICS CORPORATION	NAN YA PCB CORPORATION
NIPPON MICROMETAL CORPORATION	NITTO CORPORATION	NU-GEN INGERNATIONAL	OTIS Co., Ltd.	PECO TEK CO., LTD.
RESONAC HOLDINGS CORPORATION	RESOUND TECH INC.	ROHM AND HAAS	SAMSUNG ELECTRO-MECHANICS CO.,LTD	SENJU METAL INDUSTRY CO., LTD
SEO KWANG MANUFACTURING CO.,LTD.	SHIN-ETSU CHEMICAL CO., LTD.	SHINKO ELECTRONICS (S) PTE LTD	SIMMTECH CO., LTD.	SMALL PRECISION TOOLS PTE LTD
SUMITOMO BAKELITE CO., LTD.	SUN SURFACE TECHNOLOGY CO., LTD.	SUNRISE PLASTICS INDUSTRY CO., LTD.	SYTEC MATERIALS TECHNOLOGY CO.,LTD.	TAI HONG CIRCUIT IND. CO.,LTD
TAIFLEX SCIENTIFIC CO., LTD.	TANAKA KIKINZOKU KOGYO K.K	TECREACH KOREA. CO., LTD.	TOK TAIWAN CO., LTD.	TOKUYAMA CORPORATION
TOPPAN PRINTING CO., LTD.	UBOT INCORPORATED LIMITED	UMATE ELETRONIC CO., LTD	UNIMICRON TECHNOLOGY CORP.	YANTAI ZHAOJIN KANFORT PRECIOUS METALS CO., LTD.

## Third-Party Assurance Statement



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### INDEPENDENT AUDITORS' LIMITED ASSURANCE REPORT

ASE Technology Holding Co., Ltd.

We have undertaken a limited assurance engagement on the Sustainability Report ("the Report") of ASE Technology Holding Co., Ltd. ("the Company") for the year ended December 31, 2023.

#### Responsibilities of Management

The management of the Company is responsible for the preparation of the Report in accordance with Taiwan Stock Exchange Corporation Rules Governing the Preparation and Filing of Sustainability Reports by TWSE Listed Companies, Universal Standards, Sector Standards and Topic Standards published by the Global Reporting Initiative (GRI), SASB Standards published by the Sustainability Accounting Standards Board (SASB), and for such internal control as management determines is necessary to enable the preparation of the Report that are free from material misstatement resulted from fraud or error.

#### Auditors' Responsibilities

Our responsibility is to plan and conduct our limited assurance engagement in accordance with the International Standard on Assurance Engagements 3000 (Revised), "Assurance Engagements Other than Audits or Reviews of Historical Financial Information" issued by the International Auditing and Assurance Standards Board to issue a limited assurance report on whether the Report is free from material misstatement. The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement and, therefore, a lower assurance level is obtained than a reasonable assurance.

The information on greenhouse gas emission (scope 1, scope 2 and scope 3) and related energy and electricity consumption that is disclosed in the Report has been verified (or amended as necessary) by other third-party verification organization. Thus, the scope of this Independent Auditors' Limited Assurance Report does not include conclusion on the disclosure of information on greenhouse gas emission (scope 1, scope 2 and scope 3) and related energy and electricity consumption.

We based on our professional judgment in the planning and conducting of our work to obtain evidence supporting the limited assurance. Because of the inherent limitations of any internal control, there is an unavoidable risk that even some material misstatements may remain undetected. The procedures we performed include, but not limited to:

- Inquiring of management and the personnel responsible for the Report to obtain an understanding of the policies, procedures, including the understanding of procedure and result for materiality analysis, internal control, and information system, relevant to the Report to identify areas where a material misstatement of the Report is likely to arise.
- Selecting sample items from the Report and performing procedures such as inspection, re-calculation, re-performance, observation, and analytical procedures to obtain evidence supporting limited assurance.

#### Inherent Limitations

The Report involved non-financial information, which was subject to more inherent limitations than financial information. The information may involve significant judgment, assumptions and interpretations by the management, and the different stakeholders may have different interpretations of such information.

#### Independence and Quality Control

We have complied with the independence and other ethical requirements of the Norm of Professional Ethics for Certified Public Accountant in the Republic of China, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.

The firm applies Standard on Quality Management 1 "Quality Management for Public Accounting Firms" issued by the Accounting Research and Development Foundation of the Republic of China, which requires the firm to design, implement and operate a system of quality management including policies or procedures regarding compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements.

#### Conclusion

Based on the procedures we have performed and the evidence we have obtained, nothing has come to our attention that causes us to believe that the Report is not prepared, in all material respects, in accordance with the applicable criteria.

#### Other Matters

We shall not be responsible for conducting any further assurance work for any change of the Report or the applicable criteria after the issuance date of this report.



Deloitte & Touche  
Taipei, Taiwan  
Republic of China

August 5, 2024

## GRI Content Index

Statement of use	ASEH has reported in accordance with the GRI Standards for the period 2023/1/1-2023/12/31
GRI 1 used	GRI 1: Foundation 2021
Applicable GRI Sector Standard(s)	N/A

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
<b>GRI 2: General Disclosures 2021</b>			
<b>The organization and its reporting practices</b>			
2-1	Organizational details	1.1 Company Profile	14-15
2-2	Entities included in the organization's sustainability reporting	Report Boundary	07
2-3	Reporting period, frequency and contact point	The reporting period of this report is from January 1, 2023 to December 31, 2023, which is the same as the reporting period of the financial report. We publish the sustainability report every year in August.	-
		ABOUT OUR REPORTING	07
2-4	Restatements of information	There is no restatement of information from previous report.	-
2-5	External assurance	ABOUT OUR REPORTING Third-Party Assurance Statement	07 213
<b>Activities and workers</b>			
2-6	Activities, value chain and other business relationships	1.1 Company Profile	14-15
2-7	Employees	Appendix: Social Data - C. Employee Information	203
2-8	Workers who are not employees	Appendix: Social Data - L. Non-employee Workers	209
<b>Governance</b>			
2-9	Governance structure and composition	2.1 Organization and Structure 3.1 Board of Directors	18-19 50
		For information on the composition of the board of directors, please refer to the diversity and management objectives of board of directors at the company's official website <a href="https://ir.aseglobal.com/html/ir_board.php">https://ir.aseglobal.com/html/ir_board.php</a>	
2-10	Nomination and selection of the highest governance body	3.1 Board of Directors	50

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
2-11	Chair of the highest governance body	3.1 Board of Directors	50
2-12	Role of the highest governance body in overseeing the management of impacts	2.1 Organization and Structure 2.4 Materiality Assessment and Stakeholder Communication	18-19 36-47
		3.4 Risk Management	58-67
2-13	Delegation of responsibility for managing impacts	3.4 Risk Management	58-67
2-14	Role of the highest governance body in sustainability reporting	This report was approved and authorized by the Corporate Sustainability Committee.	-
2-15	Conflicts of interest	3.1 Board of Directors For more information, please refer to 2023 Annual Report "List of Major Shareholders", "Relationships among the Top Ten Shareholders", and 2023 Consolidated Financial Report "Marketable Securities Held", "Total Purchases from or Sales to Related Parties", and "Receivables from Related Parties".	50
2-16	Communication of critical concerns	3.1 Board of Directors For more information, please refer to 2023 Annual Report "Ch. 3.4 Corporate Governance".	50-51
2-17	Collective knowledge of the highest governance body	3.1 Board of Directors	51
2-18	Evaluation of the performance of the highest governance body	3.1 Board of Directors	51-52
2-19	Remuneration policies	3.1 Board of Directors When necessary, the company will provide recruitment incentive or termination payments based on market conditions and personal performance of directors. For the retirement benefits, please refer to page 149-150 of the 2023 Annual Report (English version).	51-52
2-20	Process to determine remuneration	2.4 Materiality Assessment and Stakeholder Communication	36-47
		3.1 Board of Directors	51-52
2-21	Annual total compensation ratio	Appendix: Social Data - G. Full-time Employees in Non-executive Positions Due to the company's privacy guidelines, we do not report the annual total compensation for the organization's highest-paid individual. For more information on the ratio between annual compensation of the president and the mean of the annual compensation of all other employees, please refer to <a href="https://ir.aseglobal.com/html/ir_committees.php">https://ir.aseglobal.com/html/ir_committees.php</a>	206

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
<b>Strategy, policies and practices</b>			
2-22	Statement on sustainable development strategy	LETTER FROM THE CHAIRMAN 2.2 Sustainability Strategies	11-13 24-27
2-23	Policy commitments	3.3 Business Ethics 3.4 Risk Management 3.5 Human Rights Management	55 58-67 68
2-24	Embedding policy commitments	3.3 Business Ethics	55-56
2-25	Processes to remediate negative impacts	2.4 Materiality Assessment and Stakeholder Communication	36-47
2-26	Mechanisms for seeking advice and raising concerns	3.3 Business Ethics	57
2-27	Compliance with laws and regulations	3.6 Regulatory Compliance Appendix: Environmental Data - F. Environmental Violations	74 200
2-28	Membership associations	8.5 Public Advocacy	190-194
<b>Stakeholder engagement</b>			
2-29	Approach to stakeholder engagement	2.4 Materiality Assessment and Stakeholder Communication	36-47
2-30	Collective bargaining agreements	6.1 Talent Attraction and Retention	139
<b>GRI 3: Material Topics 2021</b>			
3-1	Process to determine material topics	2.4 Materiality Assessment and Stakeholder Communication	36-47
3-2	List of material topics	2.4 Materiality Assessment and Stakeholder Communication	36-47
<b>GRI 201: Economic Performance 2016</b>			
3-3	Management of material topics	LETTER FROM THE CHAIRMAN 1.3 Financial Performance 2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication	11-13 17 24-27 36-47
201-1	Direct economic value generated and distributed	1.3 Financial Performance 2.3 UN Sustainable Development Goals and Sustainable Value Assessment 3.2 Economic Performance and Tax Governance For further details on financial performance, please refer to the ASEH 2023 Consolidated Financial Report: <a href="https://ir.aseglobal.com/html/ir_financial.php">https://ir.aseglobal.com/html/ir_financial.php</a>	17 28-35 53-54

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
201-2	Financial implications and other risks and opportunities due to climate change	TCFD Report: <a href="https://www.aseglobal.com/en/pdf/2023-climate-and-environmental-report-en.pdf">https://www.aseglobal.com/en/pdf/2023-climate-and-environmental-report-en.pdf</a>	-
201-3	Defined benefit plan obligations and other retirement plans	6.1 Talent Attraction and Retention - Compensation and Benefit Policy Retirement/pension plans for ASEH employees were formulated in compliance with relevant Taiwanese laws such as the Labor Standards Act, Labor Pension Act, and applicable laws in the countries in which ASEH offices are located. For more information, please refer to page 146-152 of the ASEH 2023 Annual Report (English version) and page 65-70 of the ASEH 2023 Financial Report (English version)	133-134
201-4	Financial assistance received from government	ASEH is entitled to tax incentive. Please refer to page 85 of the ASEH 2023 Consolidated Financial Report (English version).	-
<b>GRI 202: Market Presence 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 6.1 Talent Attraction and Retention	24-27 36-47 128-131
202-2	Proportion of senior management hired from the local community	3.1 Board of Directors ASEH is a registered company established under the jurisdiction of the Republic of China. Among board members who also serve as top managements (directors who hold executives positions), 50% were local residents (with Republic of China citizenship).	50
<b>GRI 203: Indirect Economic Impacts 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.3 UN Sustainable Development Goals and Sustainable Value Assessment 2.4 Materiality Assessment and Stakeholder Communication	24-27 28-35 36-47
203-1	Infrastructure investments and services supported	2.3 UN Sustainable Development Goals and Sustainable Value Assessment	28-35
<b>GRI 204: Procurement Practices 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 7.3 Supply Chain Sustainability Management	24-27 36-47 160-165
204-1	Proportion of spending on local suppliers	7.2 Supply Chain Management Framework	160

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
<b>GRI 205: Anti-corruption 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 3.3 Business Ethics	24-27 36-47 55-57
205-1	Operations assessed for risks related to corruption	3.3 Business Ethics	56
205-2	Communication and training about anti-corruption policies and procedures	3.3 Business Ethics 6.1 Talent Attraction and Retention 7.2 Supply Chain Management Framework	56 128 158
205-3	Confirmed incidents of corruption and actions taken	3.3 Business Ethics In 2023, ASEH did not engage in any political contributions.	57
<b>GRI 206: Anti-competitive Behavior 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 3.3 Business Ethics	24-27 36-47 55-57
206-1	Legal actions for anticompetitive behavior, antitrust, and monopoly practices	In 2023, ASEH was not subjected to any legal actions regarding anti-competitive behavior and violations of anti-trust and monopoly legislation.	-
<b>GRI 302: Energy 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 5.1 Climate Leadership	24-27 36-47 99-109
302-1	Energy consumption within the organization	5.1 Climate leadership - Fossil Fuels (Non-renewable), Electricity and Renewable Energy Consumption	107-108
302-3	Energy intensity	5.1 Climate leadership - Electricity and Renewable Energy Consumption	108
302-4	Reduction of energy consumption	5.1 Climate leadership - Energy Resource Management	106
<b>GRI 303: Water and Effluents 2018</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 5.2 Water Resource	24-27 36-47 110-114

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
303-1	Interactions with water as a shared resource	5. GREEN MANUFACTURING AND LOW-CARBON TRANSFORMATION - 2023 Key Performance 5.2 Water Resource	97-98 110-114
303-2	Management of water discharge related impacts	5.2 Water resource - Wastewater management	114
303-3	Water withdrawal	5.2 Water resource- Water withdrawal and reuse Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission Appendix: Environmental Data-B. The amount of water withdrawals and discharge in water-stressed regions	113 196 198
303-4	Water discharge	5.2 Water resource - Wastewater management Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission Appendix: Environmental Data - B. The amount of water withdrawals and discharge in water-stressed regions Appendix: Environmental Data - C. Water discharge in water-stressed regions (ML)	113-114 196 198 199
303-5	Water consumption	5.2 Water resource- Water withdrawal and reuse Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission Appendix: Environmental Data-B. The amount of water withdrawals and discharge in water-stressed regions	113 196 198
<b>GRI 305: Emissions 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 5.1 Climate Leadership	24-27 36-47 99-109
305-1	Direct (Scope 1) GHG emissions	5.1 Climate leadership - Greenhouse Gas Emissions Management	103
305-2	Energy indirect (Scope 2) GHG emissions	5.1 Climate leadership - Greenhouse Gas Emissions Management	103
305-3	Other indirect (Scope 3) GHG emissions	5.1 Climate leadership - Greenhouse Gas Emissions Management	104
305-4	GHG emissions intensity	5.1 Climate leadership - Greenhouse Gas Emissions Management Appendix: Environmental Data-A. waste, water, energy, GHG & air emission	102 196

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
305-5	Reduction of GHG emissions	5.1 Climate leadership - Greenhouse Gas Emissions Management 5.1 Climate leadership - Energy Saving and Carbon Reduction Projects	103 104-105
305-6	Emissions of ozone-depleting substances (ODS)	5.4 Air Emissions Control	119
305-7	Nitrogen oxides, sulfur oxides, and other significant air emissions	5.4 Air Emissions Control Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission	119 197
<b>GRI 306: Waste 2020</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 5.3 Waste	24-27 36-47 115-116
306-1	Waste generation and significant waste-related impacts	5.3 Waste	115-116
306-2	Management of significant waste-related impacts	5.3 Waste	115-116
306-3	Waste generated	5.3 Waste Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission	115-116 196
306-4	Waste diverted from disposal	5.3 Waste Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission	115-116 196
306-5	Waste directed to disposal	5.3 Waste Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission	115-116 196
<b>GRI 308: Supplier Environmental Assessment 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 7.3 Supply Chain Sustainability Management	24-27 36-47 160-165
308-1	New suppliers that were screened using environmental criteria	3.3 Business Ethics 7.3 Supply Chain Sustainability Management - Supplier Sustainability Management Approach	56 160-161
308-2	Negative environmental impacts in the supply chain and actions taken	7.3 Supply Chain Sustainability Management	160-165

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
<b>GRI 401: Employment 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 6.1 Talent Attraction and Retention	24-27 36-47 128-130
401-1	New employee hires and employee turnover	6.1 Talent Attraction and Retention Appendix: Social Data - E. New Hire Employee, F. Turnover Rate	128-132 204
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	ASEH has provided all full-time employees with comprehensive insurance / parental leave / retirement schemes.	-
401-3	Parental leave	Appendix: Social Data - H. Parental Leave	206
<b>GRI 402: Labor/Management Relations 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 6.1 Talent Attraction and Retention	24-27 36-47 138-140
402-1	Minimum notice periods regarding operational changes	Regarding employee discharges and layoffs, all ASEH sites notify their employees of significant changes to collective agreements in advance pursuant to local laws and regulations. Any labor-management dispute regarding collective agreements is submitted to the employee representatives in writing for further negotiation.	-
<b>GRI 403: Occupational Health and Safety 2018</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 6.3 Occupational Health and Safety	24-27 36-47 145-146
403-1	Occupational health and safety management system	6.3 Occupational Health and Safety	145-146
403-2	Hazard identification, risk assessment, and incident investigation	6.3 Occupational Health and Safety	145-149
403-3	Occupational health services	6.3 Occupational Health and Safety	149-152
403-4	Worker participation, consultation, and communication on occupational health and safety	6.3 Occupational Health and Safety	145-153

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
403-5	Worker training on occupational health and safety	6.3 Occupational Health and Safety	145-153
403-6	Promotion of worker health	6.3 Occupational Health and Safety	145-153
403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	6.3 Occupational Health and Safety	145-153
403-8	Workers covered by an occupational health and safety management system	6.3 Occupational Health and Safety Appendix: Social Data - M. Workers Occupational Health and Safety	145-153 209
403-9	Work-related injuries	6.3 Occupational Health and Safety Appendix: Social Data - M. Workers Occupational Health and Safety	145-153 209
403-10	Work-related ill health	6.3 Occupational Health and Safety Appendix: Social Data - M. Workers Occupational Health and Safety	145-153 209
<b>GRI 404: Training and Education 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 6.2 Talent Cultivation and Development	24-27 36-47 141-144
404-1	Average hours of training per year per employee	6.2 Talent Cultivation and Development	141-144
404-2	Programs for upgrading employee skills and transition assistance programs	6.2 Talent Cultivation and Development ASEH does not provide terminated employees with any continued employability or career transition assistance.	141-144
404-3	Percentage of employees receiving regular performance and career development reviews	6.1 Talent Attraction and Retention	137
<b>GRI 405: Diversity and Equal Opportunity 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 6.1 Talent Attraction and Retention - Diversity in Human Resources	24-27 36-47 128-129
405-1	Diversity of governance bodies and employees	3.1 Board of Directors 6.1 Talent Attraction and Retention - Diversity in Human Resources	51 128-129

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
<b>GRI 408: Child Labor 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 3.5 Human Rights Management 7.3 Supply Chain Sustainability Management	24-27 36-47 68-73 160
408-1	Operations and suppliers at significant risk for incidents of child labor	3.5 Human Rights Management 7.3 Supply Chain Sustainability Management No significant risk of hire child labor and young workers exposed to hazardous work.	68-73 160
<b>GRI 409: Forced or Compulsory Labor 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 3.5 Human Rights Management 7.3 Sustainable Supply Chain Management	24-27 36-47 68-73 160
409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor	3.5 Human Rights Management 7.3 Supply Chain Sustainability Management Non-significant risk for incidents of forced or compulsory labor either.	68-73 160
<b>GRI 414: Supplier Social Assessment 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 7.3 Supply Chain Sustainability Management	24-27 36-47 160-165
414-1	New suppliers that were screened using social criteria	3.3 Business Ethics 7.3 Supply Chain Sustainability Management - Supplier Sustainability Management Approach	56 160-161
414-2	Negative social impacts in the supply chain and actions taken	7.3 Supply Chain Sustainability Management	160-165
<b>GRI 418: Customer Privacy 2016</b>			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 3.7 Information Security Management	24-27 36-47 75-80
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	3.5 Human Rights Management We don't have any substantiated complaints regarding breaches of customer privacy and losses of customer data in 2023.	73

GRI Standard	Disclosure	Related Section / Explanatory Notes	Page No.
Customized Standard			
Innovation Management and Sustainable Manufacturing			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 4.1 R&D and Innovation 4.2 Sustainable Manufacturing	24-27 36-47 82-90 91-94
Customer Relationship Management			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 4.3 Products and Services - Customer Service	24-27 36-47 95
Information Security Management			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 3.7 Information Security Management	24-27 36-47 75-80
Social Involvement			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 8. Corporate Citizenship	24-27 36-47 170
Local Communities			
3-3	Management of material topics	2.2 Sustainability Strategies 2.4 Materiality Assessment and Stakeholder Communication 8.1 Social Involvement Overview	24-27 36-47 175-176

## Sustainability Accounting Standards Board

### SEMICONDUCTORS (Applicable to ASE and SPIL Facilities)

Topic / Code	Accounting Metric	Related Section / Explanatory Notes	Page No.
Greenhouse Gas Emissions			
TC-SC-110a.1.	(1) Gross global Scope 1 emissions and (2) amount of total emissions from perfluorinated compounds	5.1 Climate leadership - Greenhouse gas emissions management	103
TC-SC-110a.2.	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets	5.1 Climate leadership - Greenhouse gas emissions management	99-103
Energy Management in Manufacturing			
TC-SC-130a.1	(1) Total energy consumed, (2) percentage grid electricity, (3) percentage renewable	5.1 Climate leadership - Electricity and the Use of Renewable Energy	103
		Appendix: Sustainability Indicators - SEMICONDUCTORS - No. 1	221
Water Management			
TC-SC-140a.1	(1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress	5.2 Water Resource-Water withdrawal and Reuse	113
		Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission	196
		Appendix: Environmental Data - B. The amount of water withdrawals and discharge in water-stressed regions	198
Waste Management			
TC-SC-150a.1	Amount of hazardous waste from manufacturing, percentage recycled	5.3 Waste Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission	115-116 196
Employee Health & Safety			
TC-SC-320a.1	Description of efforts to assess, monitor, and reduce exposure of employees to human health hazards	6.3 Occupational Health and Safety	145-149
TC-SC-320a.2	Total amount of monetary losses as a result of legal proceedings associated with employee health and safety violations	In 2023, ASEH was fined approximately US\$9,798 for violating employee health and safety protocols (there were no fines exceeding US\$10,000).	-

Topic / Code	Accounting Metric	Related Section / Explanatory Notes	Page No.
<b>Recruiting &amp; Managing a Global &amp; Skilled Workforce</b>			
TC-SC-330a.1	Percentage of employees that are (1) foreign nationals and (2) located offshore	3.5 Human Rights Management Appendix: Social data - B. Foreign Employee Taiwan is the registered location of ASEH and the employees of ASEH's facilities outside Taiwan are considered overseas employees. Overseas employees account for 30.6% of the total ASEH employees.	68-73 203
<b>Materials Sourcing</b>			
TC-SC-440a.1	Description of the management of risks associated with the use of critical materials	7.3 Supply Chain Sustainability Management	160-165
<b>Intellectual Property Protection &amp; Competitive Behavior</b>			
TC-SC-520a.1	Total amount of monetary losses as a result of legal proceedings associated with anticompetitive behavior regulations	In 2023, ASEH did not suffer any financial losses from violating anti-competitive regulations.	-

## ELECTRONIC MANUFACTURING SERVICES & ORIGINAL DESIGN MANUFACTURING (Applicable to USI Facilities)

Topic / Code	Accounting Metric	Related Section / Explanatory Notes	Page No.
<b>Water Management</b>			
TC-ES-140a.1	(1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress	5.2 Water Resource	113
		Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission	196
		Appendix: Environmental Data - B. The amount of water withdrawals and discharge in water-stressed regions	198
<b>Waste Management</b>			
TC-ES-150a.1	Amount of hazardous waste from manufacturing, percentage recycled	5.3 Waste Appendix: Environmental Data - A. Waste, Water, Energy, GHG & Air emission	115-116 196
<b>Labor Practices</b>			
TC-ES-310a.1	(1) Number of work stoppages and (2) total days idle	In 2023, there were no incidents that resulted in a shutdown at USI.	-
<b>Materials Sourcing</b>			
TC-ES-440a.1	Description of the management of risks associated with the use of critical materials	7.3 Supply Chain Sustainability Management	160-165
<b>Activity Metrics</b>			
TC-ES-000.C	Number of employees	Total number of USI employees is 17,031	-

## Sustainability Indicators — SEMICONDUCTORS

No.	Indicators	Disclosure
1	Total energy consumption, percentage of purchased electricity and utilization rate of renewable energy with Greenhouse gas emissions of ASEH	<ul style="list-style-type: none"> <li>In 2023, total energy consumption was 15,771,140 GJ, with grid (imported) electricity accounting for 77.67 %, of the total consumption and renewable energies accounting for 19.27 %</li> <li>In 2023, the greenhouse gas emissions of ASEH were as follows: Scope 1: 28.7900 tCO<sub>2</sub>e, Scope 2: 37.1275 tCO<sub>2</sub>e, Scope 3: 171.0377 tCO<sub>2</sub>e</li> </ul>
2	Total water withdrawal and total water consumption	In 2023, total water withdrawals amounted to 21,467,999 m <sup>3</sup> , and total water consumption amounted to 6,081,747 m <sup>3</sup>
3	The weight and recycling percentage of hazardous waste generated	In 2023, total hazardous waste was produced to 20,692 tons, and the recycling rate was 78%
4	The type, number and rate of occupational incidents	Category of Occupational Injuries in 2023: 1. Number of Physical Injuries: 116 peoples (94%) 2. Number of Chemical Injuries: 4 peoples (3%) 3. Number of Ergonomic Injuries: 4 peoples (3%) 4. Number of Biological Injuries: 0 people (0%) 5. Number of Psychosocial Injuries: 0 people (0%)
5	Disclosure of product life cycle management: including the weight of scraped products and e-waste and the percentage of recycling	In 2023, the weight of end-of-life products and e-waste were 480 tons, and the recycling rate was 0%
6	Risk management regarding the use of critical materials	Please refer to 7.3 Supply Chain Sustainability Management
7	Total amount of monetary losses as a result of legal proceedings associated with anticompetitive behavior regulations	In 2023, ASEH did not suffer any financial losses from violating anti-competitive regulations
8	Yield of main products by product category	1. Semiconductor Assembly (packaging), Testing and Materials (ATM): 34,205,940 kpcs 2. Electronic Manufacturing Service (EMS): 870,921 kpcs

## TCFD Index

Dimension	General industry index (2021 edition)	Comparing Section
Governance	a) The board's oversight of climate-related risks and opportunities.	<b>Sustainability Report</b> <ul style="list-style-type: none"> <li>Board of Directors</li> </ul> 3.4 Risk Management <b>Climate and Environmental Report<sup>1</sup></b> <ul style="list-style-type: none"> <li>Letter from the Chairman</li> </ul> 1.1.1 Supervision at Management Level
	b) Management's role in assessing and managing climate-related risks and opportunities.	<b>Sustainability Report</b> 3.4 Risk Management <b>Climate and Environmental Report</b> 1.1.2 High-Level Assessment and Management
Strategy	a) The climate-related risks and opportunities the organization has identified over the short, medium, and long term.	<b>Climate and Environmental Report</b> 1.2.2 Integrated Risk Management Process 1.2.3 Material Climate- and Water-related Risks and Opportunities
	b) The impact of climate related risks and opportunities on the organization's businesses, strategy, and financial planning.	<b>Climate and Environmental Report</b> 1.2.3 Material Climate- and Water-related Risks and Opportunities
	c) The resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.	<b>Climate and Environmental Report</b> 1.2.4 Analysis of Climate Transition Risks and Financial Impacts 1.2.5 Physical Risk Analysis
Risk Management	a) The organization's processes for identifying and assessing climate-related risks.	<b>Climate and Environmental Report</b> 1.2.2 Integrated Risk Management Process
	b) The organization's processes for managing climate-related risks.	
	c) How processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management.	<b>Climate and Environmental Report</b> 1.2.1 Risk Management Organization Overview

Dimension	General industry index (2021 edition)	Comparing Section
Metrics and Targets	a) The metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.	<b>Climate and Environmental Report</b> 1.2.2 Integrated Risk Management Process
	b) Scope1, Scope2 , and if appropriate, scope3 greenhouse gas (GHG) emissions and the related risks.	<b>Sustainability Report</b> 5.1 Climate Leadership
	c) The targets used by the organization to manage climate-related risks and opportunities and performance against targets.	<b>Climate and Environmental Report</b> 2.1 Net-zero Transition 2.2 Targets and Net-zero Emission Pathways 2 Net zero emissions 3 Decarbonization Practices

<sup>1</sup> Climate and Environmental Report: <https://www.aseglobal.com/download/>

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