



GRI Standards Content Index

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Climate-Related Information of TPEX Listed Company

According to the TWSE's "Rules Governing the Preparation and Filing of Sustainability Reports by TWSE Listed Companies", the following tables are disclosed

Item	Implementation Status
Describe the board of directors' and management's oversight and governance of climate-related risks and opportunities.	Please refer to " 1.3.3 Climate Risk Management ".
Describe how the identified climate risks and opportunities affect the business, strategy, and finances of the business (short, medium, and long term).	Please refer to " 1.3.3 Climate Risk Management ".
Describe the financial impact of extreme weather events and transformative actions.	Please refer to " 1.3.3 Climate Risk Management ".
Describe how climate risk identification, assessment, and management processes are integrated into the overall risk management system	Please refer to " 1.3.3 Climate Risk Management - Climate Risks and Opportunities ".
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.	Please refer to " 1.3.3 Climate Risk Management - Climate Risk Impacts Assessment and Scenarios Analysis ".
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.	Please refer to " 1.3.3 Climate Risk Management - Indicators and Goals ".
If internal carbon pricing is used as a planning tool, the basis for setting the price should be stated.	There are currently no plans being considered, and the company is still in the discussion phase.
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.	Please refer to " 1.3.3 Climate Risk Management - Indicators and Goals ".
Greenhouse gas inventory and assurance status	Please refer to " 5.1.1 Carbon Management ". Li-Je Site has been conducting inventory and verification since 2014, with inspection being handled by TUV Rheinland Taiwan LTD (TUV). TSC has steadily increased the greenhouse gas inventory scope in line with the Sustainable Development Roadmap of Listed Companies.



Independent Limited Assurance Report



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Independent Limited Assurance Report

To Taiwan Semiconductor Co., Ltd.:

We were engaged by Taiwan Semiconductor Co., Ltd (“TSC”) to provide limited assurance over the selected information attached as Appendix I (“the Subject Matter Information”) on the 2022 Sustainability Report of TSC (“the Report”) for the year ended December 31, 2022.

Reporting Criteria of the Subject Matter Information

TSC shall prepare the Subject Matter Information in accordance with Global Reporting Initiative Standards (“GRI Standards”) issued by Global Sustainability Standards Board as set forth in Appendix I.

Management’s Responsibility for the Report

TSC is responsible for determining its objectives with respect to sustainable development performance and reporting, including the identification of stakeholders and material aspects, and using the reporting criteria to fairly prepare and present the Subject Matter Information. TSC is also responsible for establishing and maintaining internal controls relevant to the preparation and presentation of the Subject Matter Information that is free from material misstatement, whether due to fraud or error.

Our Responsibilities

We performed our work in accordance with the Standard on Assurance Engagements TWSAE3000 – “Assurance Engagements Other than Audits or Reviews of Historical Financial Information” issued by the Accounting Research and Development Foundation in Taiwan and to issue a limited assurance conclusion on whether the Subject Matter Information is free from material misstatement. Also, we have considered appropriate limited assurance procedures according to the understanding of relevant internal controls in the circumstances, but not for the purposes of expressing a conclusion as to the effectiveness of the internal control over the design or implementation of the Report.

Independence and Standards on Quality Management

We have complied with the independence and other ethical requirements of the Code of Professional Ethics for Certified Public Accountant in the Republic of China, which is founded on the fundamental principles of integrity, objectivity, professional competence and due care, confidentiality, and professional behavior. In addition, we applied Standards on Quality Management. Accordingly, we maintained a comprehensive system of quality management, including documented policies and procedures regarding compliance with ethical requirements and professional standards as well as applicable legal and regulatory requirements.

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Summary of Work Performed

As stated in reporting criteria of the Subject Matter Information paragraph, our main work on the selected information included:

- Reading the Report of TSC;
- Inquiries with responsible management level and non-management level personnel to understand the operational processes and information systems used to collect and process the Subject Matter Information.
- On the basis of the understanding obtained mentioned above, perform analytical procedures on the Subject Matter Information and if necessary, inspect related documents to gather sufficient and appropriate evidence in a limited assurance engagement.

The work described above based on professional judgment and consideration of the level of assurance and our assessment of the risk of material misstatement of the Subject Matter Information, whether due to fraud or error. We believe that the work performed and evidence we have obtained are sufficient and appropriate to provide a basis of our conclusion. However, the work performed in a limited assurance engagement varies in nature and timing from, and is less in extent than for, a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained has a reasonable assurance engagement been performed.

Inherent limitations

The Report for the year ended December 31, 2022 includes the disclosures of non-financial information that involved significant judgments, assumptions and interpretations by the management of TSC. Therefore, the different stakeholders may have different interpretations of such information.

Conclusion

Based on the work we have performed and the evidence we have obtained, as described above, nothing has come to our attention that causes us to believe that the Subject Matter Information has not been properly prepared, in all material aspects, in accordance with the reporting criteria.

Other Matters

The management of TSC is responsible for the maintenance of its website where includes the Limited Assurance Report, we shall not be responsible for any further changes on the Subject Matter Information or its applicable reporting criteria, nor be responsible for reconducting any assurance work after the issuance date of the Limited Assurance Report.

KPMG

Taipei, Taiwan (Republic of China)
September 26, 2023

Notes to reader

The limited assurance report and the accompanying selected information are the English translation of the Chinese version prepared and used in the Republic of China. If there is any conflict between, or any difference in the interpretation of, the English and Chinese language limited assurance report and the selected information, the Chinese version shall prevail.

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Appendix I: Summary of the Subject Matter Information

No.	Corresponding Section	Subject Matter Information	Reporting Criteria	GRI Standards
1	5.1.2 Energy Management (P.89)	<p>■ TSC primarily relies on outsourced electricity as its main energy source. In 2022, electricity accounted for 99.84% of the company's energy consumption. Non-renewable fuel consumption, such as gasoline and diesel, made up less than 1% of the total energy consumption. In terms of energy distribution, the Li-Je site accounted for 71.41% of the company's total energy consumption, followed by the I-lan Site at 27.46%, and the headquarters at approximately 1.13%.</p> <p>■ 2022 Total Energy Consumption: 102,583.92 GJ</p> <p>■ Total Energy Consumption by Organization</p> <ul style="list-style-type: none"> ● Taipei headquarters: <ul style="list-style-type: none"> - Total energy consumption: 1,159.29 GJ - Non-renewable fuels-Gasoline: 44.45 GJ - Outsourced Electricity-Non-renewable energy: 1,114.84 GJ ● I-lan Site: <ul style="list-style-type: none"> - Total energy consumption: 28,164.55 GJ - Non-renewable fuels-Gasoline: 1.31 GJ - Non-renewable fuels-Diesel: 2.46 GJ - Outsourced Electricity-Non-renewable energy: 28,160.78 GJ ● Li-Je Site: <ul style="list-style-type: none"> - Total energy consumption: 73,260.08 GJ - Non-renewable fuels-Gasoline: 6.39 GJ - Non-renewable fuels-Diesel: 108.89 GJ - Outsourced Electricity-Non-renewable energy: 73,144.80 GJ <p>※ Note: 1. Gasoline is not distinguished by octane number. 2. The conversion coefficients are based on the heating value conversion method by the "Heat Content of Energy Products" published by the "Bureau of Energy, Ministry of Economic Affairs". Gasoline 7,800kcal/L (1 liter of gasoline = 0.0327GJ), diesel 8,400kcal/L (1 liter of diesel = 0.0352GJ), electricity 860kcal/kWh</p>	2022 TSC Energy Consumption Data	GRI Standards 302-1 Energy consumption within the organization



No.	Corresponding Section	Subject Matter Information	Reporting Criteria	GRI Standards
		(one degree = 1 degree of electricity = 0.0036GJ). 3. Above numbers are rounded to the second decimal place.		
2	5.1.3 Water Stewardship (P.92)	<p>■ 2022 Total Water Withdrawal: 324.24 Megaliters</p> <p>■ Types of Water Source and Water Withdrawal at Each Site</p> <ul style="list-style-type: none"> ● Taipei Headquarters: <ul style="list-style-type: none"> - Total water withdrawal: 2.11 Megaliters - Third-party water withdrawal: 2.11 Megaliters ● I-lan Site: <ul style="list-style-type: none"> - Total water withdrawal: 37.62 Megaliters - Groundwater withdrawal: 34.82 Megaliters - Third-party water withdrawal: 2.80 Megaliters ● Li-je Site: <ul style="list-style-type: none"> - Total water withdrawal: 284.51 Megaliters - Surface water withdrawal: 249.29 Megaliters - Third-party water withdrawal: 35.22 Megaliters <p>※ Note: 1. The third-party water withdrawal is tap water. 2. According to the WRI Aqueduct Tool, the formula for calculating water stress is as follows: annual total water withdrawal divided by annual total available recycled water supply. Areas with water stress ranging from 40% to 80% are classified as high water stress areas, while those exceeding 80% are categorized as extremely high water stress areas. TSC exclusively relies on freshwater sources with a total dissolved solid content of ≤1,000 mg/L. Additionally, all areas under TSC's purview have a water stress index below 40%, and none are designated as water stress areas. 3. The data of seawater and produced water withdrawal, or other water sources for I-lan Site and Li-Je Site is 0.</p>	2022 TSC Water Consumption Data	GRI Standards 303-3 Water withdrawal



No.	Corresponding Section	Subject Matter Information	Reporting Criteria	GRI Standards																
		<p>4. Third-party water and surface water withdrawal data are obtained from the water bill, and the groundwater withdrawal data is collected from the water meter reading records of the sites.</p> <p>5. The water withdrawal at the Taipei headquarters is calculated by dividing the office building's water bill among its floors.</p>																		
3	5.2.1 Waste Management (P.95)	<p>■ TSC outsources the clearance of all waste from both sites.</p> <p>■ Direct treatment by clearance company in 2022</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Clearance Method</th> <th>Clearance Amount (tons)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Hazardous Waste</td> <td>Incineration</td> <td>125.353</td> </tr> <tr> <td>Other Treatment Operations</td> <td>0.312</td> </tr> <tr> <td rowspan="2">Non-hazardous Waste</td> <td>Incineration</td> <td>25.160</td> </tr> <tr> <td>Landfilling</td> <td>4.180</td> </tr> <tr> <td colspan="2">Total</td> <td>155.005</td> </tr> </tbody> </table> <p>※ Note:</p> <ol style="list-style-type: none"> The statistics provided are sourced from Li-Je Site and I-lan Site. According to the Ministry of Environment's announcement on "regulated recyclable waste and reuse waste, renewable resource items" and the Ministry of Economic Affairs' "Management Regulations on the Reuse of Industrial Waste," a list of reusable waste items has been provided. However, the hazardous industrial waste that is generated does not include any of the items listed, making it impossible to recycle and reuse. The percentage of hazardous waste that is recycled accounts for 55.99% of the total hazardous waste. Other treatment operations refer to physical processing. 	Category	Clearance Method	Clearance Amount (tons)	Hazardous Waste	Incineration	125.353	Other Treatment Operations	0.312	Non-hazardous Waste	Incineration	25.160	Landfilling	4.180	Total		155.005	2022 TSC Waste Clearance Data	GRI Standards 306-5 Waste directed to disposal
Category	Clearance Method	Clearance Amount (tons)																		
Hazardous Waste	Incineration	125.353																		
	Other Treatment Operations	0.312																		
Non-hazardous Waste	Incineration	25.160																		
	Landfilling	4.180																		
Total		155.005																		



No.	Corresponding Section	Subject Matter Information	Reporting Criteria	GRI Standards																																																											
4	4.1.1 Diversity and Inclusion (P.65)	<p>■ Distribution of New Employees (by Age and Gender)</p> <table border="1"> <thead> <tr> <th colspan="4">2022</th> </tr> <tr> <th rowspan="2">Age</th> <th rowspan="2"></th> <th colspan="2">Male</th> <th colspan="2">Female</th> </tr> <tr> <th>Number of People</th> <th>Percentage</th> <th>Number of People</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Under 30 years old (inclusive)</td> <td>Number of People</td> <td>52</td> <td>28%</td> <td>29</td> <td>16%</td> </tr> <tr> <td>Percentage</td> <td>28%</td> <td>16%</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">31 to 49 years old</td> <td>Number of People</td> <td>51</td> <td>28%</td> <td>39</td> <td>21%</td> </tr> <tr> <td>Percentage</td> <td>28%</td> <td>21%</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">50 years old and above (inclusive)</td> <td>Number of People</td> <td>11</td> <td>6%</td> <td>2</td> <td>1%</td> </tr> <tr> <td>Percentage</td> <td>6%</td> <td>1%</td> <td></td> <td></td> </tr> <tr> <td colspan="2">Subtotal</td> <td>114</td> <td>70</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Total</td> <td colspan="2">184</td> <td colspan="2"></td> </tr> </tbody> </table> <p>※ Note: The ratio is calculated on the basis of the number of people / new employee hires for that year.</p>	2022				Age		Male		Female		Number of People	Percentage	Number of People	Percentage	Under 30 years old (inclusive)	Number of People	52	28%	29	16%	Percentage	28%	16%			31 to 49 years old	Number of People	51	28%	39	21%	Percentage	28%	21%			50 years old and above (inclusive)	Number of People	11	6%	2	1%	Percentage	6%	1%			Subtotal		114	70			Total		184				2022 TSC New Employee Hires and Employee Turnover Data	GRI Standards 401-1 New employee hires and employee turnover
2022																																																															
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Subtotal		114	70																																																												
Total		184																																																													
	4.1.1 Diversity and Inclusion (P.66)	<p>■ Distribution of Employee Turnover (by Age and Gender)</p> <table border="1"> <thead> <tr> <th colspan="4">2022</th> </tr> <tr> <th rowspan="2">Age</th> <th rowspan="2"></th> <th colspan="2">Male</th> <th colspan="2">Female</th> </tr> <tr> <th>Number of People</th> <th>Percentage</th> <th>Number of People</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Under 30 years old (inclusive)</td> <td>Number of People</td> <td>20</td> <td>18%</td> <td>13</td> <td>12%</td> </tr> <tr> <td>Percentage</td> <td>18%</td> <td>12%</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">31 to 49 years old</td> <td>Number of People</td> <td>38</td> <td>35%</td> <td>30</td> <td>27%</td> </tr> <tr> <td>Percentage</td> <td>35%</td> <td>27%</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">50 years old and above (inclusive)</td> <td>Number of People</td> <td>4</td> <td>4%</td> <td>4</td> <td>4%</td> </tr> <tr> <td>Percentage</td> <td>4%</td> <td>4%</td> <td></td> <td></td> </tr> <tr> <td colspan="2">Subtotal</td> <td>62</td> <td>47</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Total</td> <td colspan="2">109</td> <td colspan="2"></td> </tr> </tbody> </table> <p>※ Note: The ratio is calculated on the basis of the number of people / employee departures for that year.</p>	2022				Age		Male		Female		Number of People	Percentage	Number of People	Percentage	Under 30 years old (inclusive)	Number of People	20	18%	13	12%	Percentage	18%	12%			31 to 49 years old	Number of People	38	35%	30	27%	Percentage	35%	27%			50 years old and above (inclusive)	Number of People	4	4%	4	4%	Percentage	4%	4%			Subtotal		62	47			Total		109					
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