Zhen Ding Technology Holding Ltd - Water Security 2023

W0.简介

W0.1

(W0.1)请提供贵组织的大致说明及介绍。

Zhen Ding Technology Holding Limited (Zhen Ding Tech.) was established in June, 2006, and is specialized in manufacturing Flexible Printed Circuit (FPC), High Density Interconnection (HDI), Rigid Printed Circuit Board (R-PCB) and Integrated Circuit Substrate (ICS). These products are broadly applied in the area of computer information, consumer electronics, communication, and networking products.

Zhen Ding Tech.'s experienced management team is led by Charles Shen, the chairman. We cooperate with world leading customers and utilize advanced technologies to construct manufacturing sites on the basis of high efficiency and low cost. We continuously promote four modernized manufacturing engineering processes: efficiency, rationalization, computerization, and automation.

Zhen Ding Tech.'s R&D center is located in Taiwan. We have established manufacturing sites in Shenzhen, Huai'an, Qinhuangdao, and Xianfeng. We also set up several service centers in Taiwan, China, Japan, India, USA, Singapore, and Finland to provide our customers with immediate professional and superior services.

While pursuing for the excellence in both technology and innovation, we, on the other hand, fully understand that the dedication on the pollution prevention and resource conservation are the foundation for environmental sustainability. In addition, ZHEN DING TECHNOLOGY is actively establishing a new model of PCB production base with environmental excellence. We have established reliable and effective pollution treatment systems to ensure emission complied with the strictest standards set by Chinese government. The average waste water reuse rate has achieved over 50%, and solid waste recycling rate has achieved over 90% at all ZHEN DING TECHNOLOGY sites.

All of our manufacturing sites have been assessed by the third party in compliance with the requirements of the cleaner production, and we will continue to conduct the carbon-reduction activities to establish a greener enterprise culture. To protect our mother earth has always been the top priority and obligation of ZHEN DING TECHNOLOGY.

Human resourcing is the key to the enterprise operation and development. ZHEN DING TECH's core values: people-oriented, integrity, responsibility, and excellence. ZHEN DING TECHNOLOGY is dedicated and very cautious on to selecting, educating, using and retaining the outstanding personnel. In this way, we cooperate with colleges in order to secure the source of the good quality human resource we need. On the other hand, we provide wide ranges of trainings on job professions, management skills, industrial knowledge and other specific requests to build up competency for our company. We also provide our employees with a comfortable working and living environment and a variety of clubs and recreational activities to satisfy the personal needs of our employees. We intend to share the benefits of our growth with our employees.

Zhen Ding Tech.'s company revenue achieved CNY 29.35 billion and was ranked as the largest PCB vendor in China and in the first place in the global PCB industry in 2020.

Zhen Ding Tech.'s vision is “Continuous technology development for better human life; continuous environment excellence to create a greener earth”. We will continue to dedicate effort in establishing PCB business platform and developing PCB related businesses to become the leader of the industry.

W0.2

(W0.2)请对贵组织填报数据所涉及的起止年度进行说明。

	起始日期	结束日期
第1行	2022年1月1日	2022年12月31日

W0.3

（W0.3）选择您开展业务的国家/地区。

中国

W0.4

(W0.4)请选择在整个回复中用于金融信息披露的货币种类。
TWD

W0.5

(W0.5) 请选择最能描述您正在填报的、对您的业务造成水相关影响的公司、实体或集团的填报范围的选项。
整体进行经营控制的公司、实体或集团

W0.6

(W0.6)在填报范围内，贵公司的披露中是否有地理、设施、水指标或其他排除项？
无

W0.7

（W0.7）您的组织是否有ISIN代码或其他唯一标识符（例如，Ticker、CUSIP等？）

注明您能否可以提供一个贵组织的唯一标识符。	请提供贵组织的唯一标识符
是的，一个ISIN代码	country code: KYG numeric identifier: 989221000

W1.当前状况

W1.1

(W1.1)请为水质和水量对于贵公司成功的重要性（当前和未来）进行等级评定

	直接使用重要性等级	非直接使用重要性等级	请详述
有充足的高品质淡水供使用	关键	重要	[Direct use] We get water from municipal water supply and fresh surface water. The water mainly used in the production of products is 79% in 2022, while some part of the water used for the dormitory is 17% in 2022. In our production process for products[Flexible Printed Circuit (FPC), High Density Interconnection (HDI), Rigid Printed Circuit Board (R-PCB) and Integrated Circuit Substrate (ICS)], good quality water(such as deionized water) is an indispensable element, if the quality of the water reduces or there is not enough water, production will be disrupted and our production will be influenced directly. [Indirect use] We obtain types of raw materials, including panels, chemicals and metals etc from many suppliers. And in the process of their production, large quantity of quality water is necessary. Lack of quality water for production of supplier can affect our production directly and indirectly. [Future development] In our future development, sufficient amounts of good quality freshwater remains vital in direct use because our future products will be more advanced and require more freshwater. Meanwhile, we will expect our suppliers to provide us with higher-demanding materials, and therefore sufficient amounts of good quality freshwater remain important, even become vital in indirect use.
充足的循环水，半咸水和/或采出水供使用	重要	重要	[Direct use] We have our own wastewater treatment station to treat, recycle and reuse water. We reused and recycled water from rainwater, processed cooling water, water discharged by cooling towers and water discharged by RO systems etc. This type of water is mainly used as cooling water. We monitor and calculate the water reuse rate monthly and yearly. Reuse of water is an important item to reduce the environmental load while mitigating the supply risk of fresh water, which is one of our important company-wide strategies. [Indirect use] For our suppliers, water recycling is significant. If they don't have ample recycling water, our supply of commodity may be affected due to water shortage, which may have an impact on our production. [Future development] As we recognized water as precious resources, reusing and recycling of water will be an important part of manufacturing. Some of our suppliers reuse and recycle water for employee's WASH and products. So sufficient amounts of recycled water will be important in direct and indirect use.

W1.2

(W1.2) 根据贵公司所有的运营活动，以下哪些水指标有进行定期测量和监测？

	场地/设施/运营中所占比例%	测量频率	测量方法	请详述
取水总量	100%	每日	We have been monitoring water withdrawals – total volumes of our every operation through water bills, water-meters and collecting these data on Environmental Performance System daily.	We monitor all (100%) withdrawn water, because sufficient amount of water supply is important in product manufacturing in all plants. The sources of water for our major plants are mainly from municipal water supply systems, raw water and reused water. Staff of Environment and Conservation Division will review and analyze the water withdrawal information of all plants every month, and the result is reported to relevant executive directors, including CEO during the meeting.
取水量——按来源划分	100%	每日	We have been monitoring water withdrawals –volumes by source of our every operation through water bills and some relevant devices, such as water-meters, and collecting these data on Environmental Performance System daily.	The source of water for our major plants is mainly from municipal water supply systems, raw water and reused water. Staff of Environment and Conservation Division will review and analyze the water withdrawal –volumes by source information of all plants every month, and the result is reported to relevant executive directors, including CEO during the meeting.

	场地/设施/运营中所占比例%	测量频率	测量方法	请详述
[仅限金属和采矿以及煤炭行业]与您的金属和采矿和/或煤炭行业活动相关的夹带水——总量	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
贵公司石油和天然气行业活动的采出水——总量[仅针对石油和天然气行业]	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
取水水质	100%	每日	We have been monitoring water withdrawals –quality of our every operation through monitoring instruments and our own laboratories and presenting these data on Environmental Performance System daily, including pH, Cu2+, COD and conductivity etc. and collecting these data on Environmental Performance System daily.	The source of water for our major plants is mainly from municipal water supply systems, raw water and reused water. Countries where our plants are located are tightening water regulations especially water quality. Supervisors of our company can get real water quality through our own monitoring system. Monitoring of water withdrawals quality can ensure that the water meets the requirement for production and domestic purposes.
排水总量	100%	每日	We have been monitoring water discharges –total volumes of our every operation through water-meter as well as collecting these data on Environmental Performance System daily.	We discharge all of our treated water to municipal wastewater treatment plant for further treatment, which will be discharged to local basins in accordance with their stricter standards. Staff of Environment and Conservation Division will review and analyze the water discharges – total volume of all plants every month, and the result is reported to relevant executive directors, including CEO during the meeting.
排水量——按排放地点分	100%	每日	We have been monitoring water discharges –volumes by destination through water-meters and collecting these data on our Environmental Performance System daily.	Our five plants are located in four different provinces with various and tightening water regulations and standards. Meanwhile we discharge all of our treated water to municipal wastewater treatment plant for further treatment, which will be discharged to local basins in accordance with their stricter standards.
排水量——按处理方法分	100%	每日	We have been monitoring water discharges –volumes by treatment method of our every operation through water-meters and collecting these data on our Environmental Performance System daily.	Our five plants have their own conditions and regulations, and therefore we apply different methods to treat discharged water. Meanwhile, we have a variety of methods to treat different types of water, such as sedimentation, oxidation and reverse osmosis etc.
排水质量——按污水处理后的标准出水参数分	100%	每日	We have been monitoring water quality –by standard effluent parameters of our every operation through on-line monitoring devices and our own laboratories daily, which includes pH, Cu2+, COD and conductivity etc. And collecting these data on our Environmental Performance System daily.	Our five plants are located in different districts with different but tight water regulations, and the quality of all discharges conforms to current regulations and wastewater is regularly tested to ensure that it has no significant environmental impact on the surrounding bodies of water. Besides internal measurement, we conduct sampling and analysis by a certified third party monthly and public these data on our own website. And supervisors of our company can get real water quality through our own monitoring system. In2021 and 2022, we did not violate any laws or regulations concerning water discharge.
排水质量——排放到水中（硝酸盐、磷酸盐、杀虫剂和/或其他优先化学物质）	100%	每日	We have been monitoring water quality – by measuring chemicals discharged into water (total phosphorus, total nitrogen, ammonia nitrogen). And collecting these data on our Environmental Performance System daily.	Our five plants are located in different districts with different but tight water regulations, and the quality of all discharges conforms to current regulations and wastewater is regularly tested to ensure that it has no significant environmental impact on the surrounding bodies of water. Besides internal measurement, we conduct sampling and analysis by a certified third party monthly and public these data on our own website. And supervisors of our company can get real water quality through our own monitoring system. In2021 and 2022, we did not violate any laws or regulations concerning water discharge.
排水质量——按温度分	不相关	<Not Applicable>	<Not Applicable>	We haven't monitored the temperature for it is generally normal and stable. Only very little part of our operations need warm water of which the temperature is just up to 40℃. It does not affect effluent temperature.
耗水总量	100%	每日	We have been monitoring water consumption – total volume of our every operation through water-meters, even the consumption of every water system.	Water consumption is always calculated as the difference between withdrawn and discharged water. Sufficient and clean water supply is important for product production and employee's WASH. Staff of Environment and Conservation Division review and analyze the water consumption information of all plants every month, and the result is reported to relevant executive directors, including CEO during the meeting.
循环/再利用水	100%	每日	We have been monitoring water recycled/reused of our every operation through water-meters and some relevant devices daily.	Recycling water is a part of our company-wide strategy to manage water more effectively. Reusing water can reduce the quantity of fresh water usage and cost, meanwhile lower water dependency. Staff of Environment and Conservation Division review and analyze the water recycled/reused information of all plants every month, and the result is reported to relevant executive directors, including CEO during the meeting.
向所有员工提供功能完善、经安全管理的水、环境卫生和个人卫生设施	100%	每日	We have been monitoring water quality used by employees, workers and contractors.	We provide employees, workers and contractors with clean water for drinking, cooking and cleaning. We get tap water from municipal water supply systems, using as WASH services to all workers.

W1.2b

（W1.2b）贵组织所有运营活动的取水总量、排水总量和耗水总量是多少，与上一报告年相比有何变化？以及预计它们将来会有怎样的变化？

	体积（兆升/年）	对比上一报告年	与上一报告年比较，产生差异的主要原因	五年预测	预测变化产生的主要原因	请详述
取水总量	13612	基本持平	业务活动增加/减少	基本持平	业务活动增加/减少	Total water withdrawals of 2022 decreased by about 1.9% compared to 2021(13,882). The little fluctuations is mainly due to the expansion of product scope, product renewal and update, and the increase of demand for high-end products, the demand for total withdrawals increased due to the company's development. In addition, we continue to promote new water reuse projects to further increase the reuse of water, so that the use of water resources can be more efficient and economical. Note: The definition for comparison of difference: Much higher: >10% Higher: >5% About the same: <+/-5% Lower: >-5% Much lower: >-10%
排水总量	9513	低一些	业务活动增加/减少	高一些	业务活动增加/减少	Total water discharges decreased by about 5.4% in 2022 compared to 2021(10,055). The little fluctuations is mainly due to the expansion of product scope, product renewal and update, and the increase of demand for high-end products, the demand for total withdrawals increased due to the company's development. However, we are still doing our best to ensure that the quality of our external water discharge not only meets the wastewater discharge standards implemented in China and Taiwan, but also pursue better water quality. In addition, we continue to promote new water reuse projects to further increase the reuse of water, so that the use of water resources can be more efficient and economical. we expect to maintain or a slight increase of water discharged. Note: The definition for comparison of difference: Much higher: >10% Higher: >5% About the same: <+/-5% Lower: >-5% Much lower: >-10%
总耗水量	4110	基本持平	效率提高/降低	高一些	业务活动增加/减少	Water consumption is calculated as the difference between withdrawn and discharged water. Total water consumption increased by about 3.7% in 2022 compared to 2021(3,964), mainly due to our water-recycling strategies. The water is mainly consumed by production processes, evaporation and canteen. We expect to maintain or a slight increase of water consumed as the growing production. And we continue to promote new water reuse projects to further increase the reuse of water, so that the use of water resources can be more efficient and economical. Note: The definition for comparison of difference: Much higher: >10% Higher: >5% About the same: <+/-5% Lower: >-5% Much lower: >-10%

W1.2d

（W1.2d）说明是否从存在水资源压力的地区取水，并提供取水比例、与上一报告年的比较情况以及预测变化情况。

	水资源压力地区的取水量	水资源压力地区取水量的占比	对比上一报告年	与上一报告年比较，产生差异的主要原因	五年预测	预测变化产生的主要原因	识别工具	请详述
第1行	是	26-50	高一些	业务活动增加/减少	低一些	业务活动增加/减少	WRI Aqueduct	WRI Aqueduct is a tool for assessing water risk in a watershed where a workplace is located. We assess our five plants and define water stress areas where the overall risk by WRI Aqueduct is extremely high. So water stress area in our company is classified in Qinhuangdao. The water withdrawals from water stressed areas increased from 37.2% in 2021 to 42.0% in 2022, which increased by about 2.8%, while revenue was increased by 10.6 % compared to last year. We would keep introducing many reusing and recycling water projects to reduce water load and stress and expect to research other methods to manage water more efficient.

W1.2h

(W1.2h)请按照来源提供取水总量。

	相关性	体积（兆升/年）	对比上一报告年	与上一报告年比较，产生差异的主要原因	请详述
地表淡水，包括雨水、湿地水、河水和湖水	相关	5425	高一些	业务活动增加/减少	Fresh surface water withdrawals increased by about 11.6% in 2022 compared to 2021(4,862). We use fresh surface water mainly for its low cost. We get fresh surface water from reservoir and apply it into the manufacturing.
微咸地表水/海水	不相关	<Not Applicable>	<Not Applicable>	<Not Applicable>	We don't use brackish surface water/seawater, the same as the previous year. Because brackish surface water/seawater doesn't meet our requirement to produce, the same as the previous year.
地下水（可再生）	不相关	<Not Applicable>	<Not Applicable>	<Not Applicable>	We don't use groundwater – renewable, the same as the previous year.
地下水（不可再生）	不相关	<Not Applicable>	<Not Applicable>	<Not Applicable>	We don't use groundwater – non-renewable, the same as the previous year.
采出/夹带水	不相关	<Not Applicable>	<Not Applicable>	<Not Applicable>	We don't use produced/entrained water, because produced/entrained water doesn't meet our requirement to produce.
第三方水源	相关	8187	低一些	业务活动增加/减少	Due to our production's characteristics, it is important for us to supply sufficient amount of good quality water. So we mainly withdraw municipal water that can supply stably. Municipal supply water withdrawals decreased by about 9.2% compared to 2021(9,020). We reuse our water wherever possible to reduce the volume we rely on municipal water. But as the expansion of production in the future, third party resources will increase accordingly.

W1.2i

(W1.2i)请按排放地提供排水总量

	相关性	体积（兆升/年）	对比上一报告年	与上一报告年比较，产生差异的主要原因	请详述
地表淡水	不相关	<Not Applicable>	<Not Applicable>	<Not Applicable>	We discharge all of our water to municipal wastewater treatment plant, the same as the previous year.
微咸地表水/海水	不相关	<Not Applicable>	<Not Applicable>	<Not Applicable>	We discharge all of our water to municipal wastewater treatment plant, the same as the previous year.
地下水	不相关	<Not Applicable>	<Not Applicable>	<Not Applicable>	We discharge all of our water to municipal wastewater treatment plant, the same as the previous year.
第三方排放地	相关	9513	低一些	效率提高/降低	All our wastewater are treated by our own wastewater treatment plants and complied with the effluent standards before discharged to the municipal wastewater treatment plant for further treatment, which will be discharged to local basins in accordance with their stricter standards. Total water discharges decreased by about 7.8% compared to 2021(10,321) in 2022, which due to the expansion of our production. It will also result in the increase of total water discharge by third party sources in the future.

W1.2j

(W1.2j) 在您的直接运营中，指出您最高级别的排放处理。

	排放处理等级的相关性	体积（兆升/年）	对比上一报告年的处理量	与上一报告年比较，产生差异的主要原因	适用此数量的场地/设施/运营的百分比	请详述
三级处理	相关	1510	高一些	核算方法的变化	100%	We reclassified our various water treatment systems according to the definition of the three types of water treatment, which resulted in a change in the amount of water treated by our three types compared with previous years. As a member of PCB industry, we are specialized in manufacturing Flexible Printed Circuit (FPC), High Density Interconnection (HDI), Rigid Printed Circuit Board (R-PCB) and Integrated Circuit Substrate (ICS). We discharge kinds of wastewater and all our wastewater are treated by our own wastewater treatment plants and complied with local effluent standards. Tertiary treatment water includes nickel containing wastewater, cyanide containing wastewater and etc. Tertiary treatment water increased by about 11.2% compared to 2021. And because of our expansion of production and strategies of recycling water, we expect to maintain or a slight increase of this kind of water.
二级处理	相关	4432	低一些	核算方法的变化	100%	We reclassified our various water treatment systems according to the definition of the three types of water treatment, which resulted in a change in the amount of water treated by our three types compared with previous years. As a member of PCB industry, we are specialized in manufacturing Flexible Printed Circuit (FPC), High Density Interconnection (HDI), Rigid Printed Circuit Board (R-PCB) and Integrated Circuit Substrate (ICS). We discharge kinds of wastewater and all our wastewater are treated by our own wastewater treatment plants and complied with local effluent standards. Secondary treatment water includes organic wastewater and etc. Secondary treatment water decreased by about 20% compared to 2021. And because of our expansion of production and strategies of recycling water, we expect to a moderate increase of this kind of water.
仅一级处理	相关	3571	高一些	核算方法的变化	100%	We reclassified our various water treatment systems according to the definition of the three types of water treatment, which resulted in a change in the amount of water treated by our three types compared with previous years. As a member of PCB industry, we are specialized in manufacturing Flexible Printed Circuit (FPC), High Density Interconnection (HDI), Rigid Printed Circuit Board (R-PCB) and Integrated Circuit Substrate (ICS). We discharge kinds of wastewater and all our wastewater are treated by our own wastewater treatment plants and complied with local effluent standards. Primary treatment water includes membrane removal wastewater, heavy metal wastewater and etc. Primary treatment water increased by about 0.5% compared to 2021. And because of our expansion of production and strategies of recycling water, we expect to maintain or a slight decrease of this kind of water.
未经处理排入自然环境	不相关	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	All our wastewater are treated by our own wastewater treatment plants and complied with the effluent standards before discharged to the municipal wastewater treatment plant for further treatment, which will be discharged to local basins in accordance with their stricter standards.
未经处理排放到第三方	不相关	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	All our wastewater are treated by our own wastewater treatment plants and complied with the effluent standards before discharged to the municipal wastewater treatment plant for further treatment, which will be discharged to local basins in accordance with their stricter standards.
其它	不相关	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	All our wastewater are treated by our own wastewater treatment plants and complied with the effluent standards before discharged to the municipal wastewater treatment plant for further treatment, which will be discharged to local basins in accordance with their stricter standards.

W1.2k

（W1.2k）请提供贵组织在这一报告年向水中排放硝酸盐、磷酸盐、农药和其他优先化学物质的详细信息。

	此报告年向水体中排放的量（公吨）	所含物质类别	列出所含的具体物质	请详述
第1行	2.67	磷酸盐	<Not Applicable>	We discharge phosphates because phosphorus-containing compounds are used in the manufacture of our products, and we measure the total phosphorus content in the effluent. Zhen Ding adheres to the heart of giving back to the environment and society, and continues to pay attention to the ecological environment. The parks in mainland China regularly monitor the water quality within 1 km of each park. While striving to improve the green performance of Zhending, we will continue to increase our influence to provide more ideal green solutions to government departments and contribute to the society.

W1.3

(W1.3)提供贵组织的总取水效率值。

	收入	总取水量（兆升）	总取水效率	未来趋势预计
第1行	171400000000	13612		Our company has been expanding since 2020, which will result in an increase in total withdrawals data compared to the last year. With the upgrading of advanced manufacturing process, the product manufacturing process becomes more and more complex, and the power consumption and total withdrawals continue to rise.

W1.4

（W1.4）您的产品是否含有被监管机构列为有害的物质？

	含有有害物质的产品	备注
第1行	是	<Not Applicable>

W1.4a

（W1.4a）贵组织的收入中，含有被监管机构列为有害物质的产品的占比是多少？

有害物质的监管分类	产品中含有清单所列物质占总营收的百分比	请详述
欧盟REACH法规附录十七	少于10%	After the regulations are updated, our company will identify and evaluate the regulations as soon as possible, and then conduct a survey of REACH substances of very high concern to suppliers to ensure that the materials we use comply with REACH regulations. Projects with special requirements for customers will be checked according to customer requirements. At the same time, Zhending also declares the relevant substances in products in accordance with the requirements of EU REACH, California 65 and other regulations or norms to help promote the improvement of legislation on harmful substances, the protection of consumer rights, and the protection of human health and the environment responsibility.
欧盟REACH法规附录十四	少于10%	After the regulations are updated, our company will identify and evaluate the regulations as soon as possible, and then conduct a survey of REACH substances of very high concern to suppliers to ensure that the materials we use comply with REACH regulations. Projects with special requirements for customers will be checked according to customer requirements. At the same time, Zhending also declares the relevant substances in products in accordance with the requirements of EU REACH, California 65 and other regulations or norms to help promote the improvement of legislation on harmful substances, the protection of consumer rights, and the protection of human health and the environment responsibility.
欧盟持久性有机污染物（POPs）法规	少于10%	Our company will identify and evaluate the regulations as soon as the regulations are updated, and ensure that the materials we use meet the requirements of the regulations. At the same time, Zhending also declares the relevant substances in products in accordance with the requirements of EU REACH, California 65 and other regulations or norms to help promote the improvement of legislation on harmful substances, the protection of consumer rights, and the protection of human health and the environment responsibility.
高度关注物质候选清单（英国法规）	少于10%	Our company will identify and evaluate the regulations as soon as the regulations are updated, and ensure that the materials we use meet the requirements of the regulations. At the same time, Zhending also declares the relevant substances in products in accordance with the requirements of EU REACH, California 65 and other regulations or norms to help promote the improvement of legislation on harmful substances, the protection of consumer rights, and the protection of human health and the environment responsibility.

W1.5

（W1.5）是否就水相关问题进行价值链合作？

	参与	不参与的主要原因	请详述
供应商	是	<Not Applicable>	<Not Applicable>
其他价值链合作伙伴（如客户）	是	<Not Applicable>	<Not Applicable>

W1.5a

(W1.5a) 您是否根据供应商对水安全的影响来对其进行评估？

第1行

评估供应商影响

是，我们评估供应商的影响

评估考虑的因素

流域状况（如用水压力或获得用水、环境卫生和个人卫生服务的机会）
供应商对水的依赖程度
供应商对水质的影响

被确定为具有实质性影响的供应商数量

100

被确定为具有实质性影响的供应商占总数的百分比

26-50

请详述

ZDT conducts annual on-site audit on high-risk suppliers by using the material risk classification and annual assessment results according to Process for Supplier Audit. We define suppliers with substantive impact as suppliers accounting for 80% of sales, which supplier we will distribute the questionnaire. And we audit and evaluate the environmental status and risks of our major suppliers which are important to our production regularly. We require our suppliers to disclose their PRTR, etc. on the IPE official website, and require them to clear their illegal records. We also distribute water-related questionnaires to suppliers that have a greater impact on us every year to understand their water intake, water consumption, water reuse and waste water treatment, etc. We also provide relevant courses and experience to our suppliers.

W1.5b

（W1.5b）贵组织是否要求供应商满足水相关要求，并作为供应商采购标准的一部分？

	供应商需要满足与水相关的要求	备注
第1行	是，与水相的关要求包含在我们和供应商的合同中	<Not Applicable>

W1.5c

（W1.5c）请详细说明作为贵组织采购流程的一部分、供应商必须满足的水相关要求以及所采取的合规措施。

与水相关的要求
减少总取水量

实质性影响的供应商当中需要遵守此水相关要求所占的百分比
26-50

有实质性影响的供应商中，已经遵守了此水相关的要求的占比
26-50

监督该水相关要求合规的机制
非现场第三方审核

对不符合该水相关要求的供应商的处理方式
保留与合作

备注
ZDT has established a complete set of applicable management regulations in order to continuously sustain a stable supply of materials that meet quality, environmental, delivery, service, and price requirements and to facilitate the completion of a comprehensive management system for suppliers, to ensure full compliance with environmental regulations and our requirements for water management.
We require our supplier to achieve a water reuse rate of 15% by 2030, in order to reduce their water intake.

与水相关的要求
遵守与水相关的法规要求

实质性影响的供应商当中需要遵守此水相关要求所占的百分比
100%

有实质性影响的供应商中，已经遵守了此水相关的要求的占比
100%

监督该水相关要求合规的机制
非现场第三方审核

对不符合该水相关要求的供应商的处理方式
保留与合作

备注
ZDT has established a complete set of applicable management regulations in order to continuously sustain a stable supply of materials that meet quality, environmental, delivery, service, and price requirements and to facilitate the completion of a comprehensive management system for suppliers, to ensure full compliance with environmental regulations and our requirements for water management.
We require our suppliers to meet the regulatory requirements for all substances in the wastewater discharged, to ensure that they do not adversely affect the surrounding environment.

与水相关的要求
遵守与水相关的法规要求

实质性影响的供应商当中需要遵守此水相关要求所占的百分比
26-50

有实质性影响的供应商中，已经遵守了此水相关的要求的占比
26-50

监督该水相关要求合规的机制
非现场第三方审核

对不符合该水相关要求的供应商的处理方式
保留与合作

备注
The Institute of Public and Environmental Affairs (IPE) is a non-profit environmental research institution dedicated to promoting the disclosure of environmental information and the improvement of environmental governance mechanisms.
ZDT has joined hands with strategic partners in the green supply chain; promote the five major systems from IPE legal compliance, energy-saving technology exchange, friendly material innovation, management system, and selection of low-carbon raw materials. We have prompted many suppliers to disclose their environmental data on the IPE platform, and urged them to clear their illegal records, so as to ensure the safety of water in our supply chain, the compliance of drainage, and eliminate its negative impact on the surrounding area as much as possible.And our green supply chain CITI index ranks third in the IT/CIT industry, and corporate climate action CATI index ranks eighth in the IT/CIT industry.

W1.5d

（W1.5d）请提供所有其他与水相关的供应商进行沟通的详细信息。

合作类型
信息收集

合作详细信息
每年至少从供应商处收集一次水管理信息

供应商数量占比
26-50

具有实质性影响的供应商百分比
26-50

您参与的理由
The Water Stewardship Alliance (AWS) is committed to promoting, encouraging and guiding sustainable and responsible development and utilization of water resources. For the first time, it provides an action framework for systematically managing water risks and improving water management performance. "AWS International Sustainable Water Management "Standard" is the earliest and only international system standard for judging the sustainability of water resources management. It covers institutions and river basins, and is applicable to various water industries and institutions for international benchmarking. Passing AWS certification can not only help enterprises strengthen water resource management, reduce water resource consumption, and improve water resource utilization efficiency, but also prove to the outside world the company's commitment to sustainable development.

合作带来的影响和成效
ZDT has established a complete set of applicable management regulations in order to continuously sustain a stable supply of materials that meet quality, environmental, delivery, service, and price requirements and to facilitate the completion of a comprehensive management system for suppliers, thereby achieving mutual benefit. Competitive suppliers are selected by following six major principles through material assessments with the assistance of professional audit teams. We ask all of our suppliers to sign Letter of Commitment to ensure full compliance with environmental regulations and our requirements for water management.
In 2019, Zhen Ding Shenzhen Park completed the AWS Platinum certification ahead of industry peers. In 2022, all of Zhen Ding's manufacturing sites in China passed the audit and continued to achieve AWS Platinum Certification.Furthermore, we are committed to completing sustainable water management and a transparent water disclosure system. Zhen Ding complies with relevant regulations every year to actively conduct one soil test and two groundwater tests in each site every year and present the results to members of the public.

备注
In addition to addressing product and environmental issues, ZDT also raises suppliers' awareness and requirements of labor, ethical, health and safety, and environmental management systems in accordance with the Responsible Business Alliance (RBA) Code of Conduct and SA 8000, which is an international standard that encourages social responsibility. We also propose the six items for which we have zero tolerance. The failure to comply with the code could result in loss of business with us.

合作类型
创新和合作

合作详细信息
鼓励/刺激创新，降低产品和服务对水资源造成的影响
与供应商合作，倡导政策或监管的更新，以应对用水、环境卫生和个人卫生服务供应的挑战
与供应商合作，倡导政策或监管的更新，以应对水资源可用性和污染带来的挑战

供应商数量占比
26-50

具有实质性影响的供应商百分比
76-99

您参与的理由
The Institute of Public and Environmental Affairs (IPE) is a non-profit environmental research institution dedicated to collecting, collating and analyzing environmental information released by the government and enterprises, and integrating environmental data to serve green procurement, green finance and government environment Decision-making, through the joint efforts of enterprises, governments, public welfare organizations, research institutions, etc., leverages a large number of enterprises to realize environmental protection transformation, promotes the disclosure of environmental information and the improvement of environmental governance mechanisms. Through IPE, we can urge our suppliers to disclose their various environmental data, so that our supply chain can better comply with environmental regulations and achieve higher environmental benefits.

合作带来的影响和成效
ZDT has joined hands with strategic partners in the green supply chain; promote the five major systems from IPE legal compliance, energy-saving technology exchange, friendly material innovation, management system, and selection of low-carbon raw materials. We have prompted many suppliers to disclose their environmental data on the IPE platform, and urged them to clear their illegal records, so as to ensure the safety of water in our supply chain, the compliance of drainage, and eliminate its negative impact on the surrounding area as much as possible.And our green supply chain CITI index ranks third in the IT/CIT industry, and corporate climate action CATI index ranks eighth in the IT/CIT industry.

备注

W1.5e

（W1.5e）请提供与客户或其他价值链合作伙伴的任何与水相关活动的详细信息。

利益相关方类型
客户

合作类型
创新和合作

合作详细信息
与利益相关者进行合作创新，以减少产品和服务对水的影响
与利益相关者合作，倡导政策或监管的更新
鼓励利益相关者与其流域的其他用户合作，以实现可持续的水资源管理

您参与的理由
We work with customers to develop and promote water related projects, such as AWS-Alliance for Water Stewardship, and CWP-Clean Water Project.
AWS is an international approach to water that can be applied consistently across regions and sectors, yet recognizes the local nature of water. To address the major water challenges in a sustainable way, collective approaches, through which water users work together to identify common goals for sustainable water management, must be developed. With the implementation of AWS, we manage our water in a sustainable way involving many kinds of water-related aspects, including water balance and quality, management of water-related areas, WASH, water-related benchmarking, etc.
The implementation of CWP has a great effect on the water management of our company. It improves the management level of our rainwater and the rate of water reuse and reduces the risk of leakage of the pipeline, as well as the risk of chemical leakage. In the process of carrying out these projects with customers, we supervise each other, while ensuring the interests of our customers', we also improve our own management level of water.
Furthermore, we are committed to completing sustainable water management and a transparent water disclosure system. Zhen Ding complies with relevant regulations every year to actively conduct one soil test and two groundwater tests in each site every year and present the results to members of the public.

合作带来的影响和成效
We are implementing Alliance for Water Stewardship (AWS) projects. In 2019, Zhen Ding Shenzhen Park completed the AWS Platinum certification ahead of industry peers. In 2022, all of Zhen Ding's manufacturing sites in China passed the audit and continued to achieve AWS Platinum Certification. Not only do we manage our own water resources well, conserve water, improve the efficiency of water utilization, and meet the discharge standards for wastewater, but we also strive to protect the water resources of local watersheds and work together with relevant parties to improve the sustainable development and utilization of water resources in local watersheds.
ZDT's growth is not only the pursuit of the market rate, but also the implementation of the green action. We will, as always, let the environmental protection and the symbiotic co-prosperity become the best example of the integration of the natural environment and the development of science and technology.

W2.业务影响

W2.1

(W2.1)贵公司是否发生过任何水造成的不利影响？
无

W2.2

(W2.2)在本报告年中，贵公司是否因为违反水相关法规而受到罚款、强制令和/或处罚？

	违反与水相关的法规	罚款、强制执行令和/或其他处罚	备注
第1行	无	<Not Applicable>	

W3.流程

W3.1

（W3.1）贵组织是否对与贵组织活动有关的、可能对水域生态系统或人类健康产生不利影响的潜在水污染物进行识别和分类？

	潜在水污染物的识别和分类	如何识别和分类潜在水污染物	请详述
第1行	是，我们识别并分类了潜在的水污染物	Each of our five plants is equipped with a dedicated water quality laboratory staffed by specialized personnel who conduct daily tests on the water quality of each treatment system. To ensure stringent compliance, we have installed online water quality and quantity monitoring devices at each wastewater discharge outlet in our main production plant. These devices allow continuous 24/7 monitoring, and the data is shared with the local environmental protection agency. Our commitment to environmental responsibility is unwavering, as we strive to achieve 100% compliance with all types of wastewater meeting regulatory standards. Notably, the quality of wastewater discharged from each of our parks significantly surpasses the approved standards set by local laws and regulations. Our proactive approach ensures that our wastewater poses no threat to the ecological health of the local river basin or any natural water bodies in the vicinity. The main water quality indicators we monitor include Hydrogen ion concentration (pH), Chemical oxygen demand (COD, mg/L), and Copper (Cu, mg/L).	<Not Applicable>

W3.1a

（W3.1a）请描述贵组织如何将与贵组织活动有关的潜在水污染物对水域生态系统或人类健康产生的不利影响降至最低。

水污染物类别
其他富营养物和耗氧污染物

描述水污染物和潜在影响
When eutrophication and oxygen-consuming pollutants are discharged into lakes and estuaries, algae and other plankton will multiply rapidly, the dissolved oxygen in the water body will decrease, the water quality will deteriorate, and fish and other organisms will die in large numbers, resulting in eutrophication. The species and quantity of biological populations change, destroying the ecological balance of the water body.

价值链阶段
直接运营

尽可能减少不利影响的行动和程序
更符合监管要求/标准
水循环利用
减少或逐步淘汰有害物质

请详述
Our wastewater management implementation strategy is: recycling, multiple uses of water, and reducing consumption and dependence on tap water. We divide the wastewater into more than 20 categories from the source of discharge according to the product process and the characteristics of the pollutants, and collect them separately. Each park designs 10 types of treatment systems according to the wastewater characteristics of different product categories, adopts high-efficiency treatment equipment, multi-stage treatment concepts, and arranges various treatment units in a three-dimensional manner, and introduces a smart central control system to monitor the quality of wastewater and the operation status of water recovery facilities . After being treated and confirmed to meet the discharge water standards, the wastewater in each park is brought into the local municipal sewage treatment plant, and finally legally discharged to river after treatment. The quality of wastewater discharged from each park is far superior to the approved standards of local laws and regulations. At the same time, we will regularly test the water quality of the rivers around the park to ensure that our discharge will not have a negative impact on the surrounding ecological environment.

W3.3

(W3.3)贵公司是否开展与水有关的风险评估？
是，评估了水相关风险

W3.3a

(W3.3a)请选择能最好地描述贵公司水风险评估流程的选项

价值链阶段
直接运营

覆盖范围
全部

风险评估程序
将水风险评估作为企业既定风险管理框架的一部分

评估频率
每年以上

评估风险时考虑多远的未来？
超过6年

工具和方法的类型
市面上的工具
国际方法和标准
其它

采用的工具和方法
WRI Aqueduct
WWF Water Risk Filter
Alliance for Water Stewardship Standard（国际水管理联盟标准）
Environmental Impact Assessment
ISO 14001环境管理标准
公司内部方法
方案分析
其他，请说明 (We have been introducing TCFD management structure and management.)

已考虑的背景问题
流域层面的水资源可利用性
流域级别的水质
利益相关方在流域/集水区一级有关于水资源的冲突
对人类健康的影响
水资源对贵公司关键商品/原材料的影响
水监管框架
生态系统和栖息地的状况
向所有员工提供功能完善，经安全管理的水、环境卫生和个人卫生设施

已考虑的利益相关者问题
客户
员工
投资人
当地社区
非政府组织
监管者
供应商
本地级别的水务公共事业
流域级别上的其他水资源使用者

备注
We have established a Sustainable Development Committee as the highest level for managing climate-related risks, including water risks. We adopt WRI's water risk assessment tools to identify water risk. We made contingency plans for physical climate variations and enhanced the infrastructure of production sites and improved the efficiency of water usage or water-saving measures. We have robust EIA systems and have set up environmental emergency plan to confront possible scenarios of extreme weathers. We also introduced Alliance for Water Stewardship Standard (AWS) to manage our water more efficient. We refer to the risk list of TCFD, analyze the risk factors of our operation sites and compare with the benchmark of the same industry, and identify the relevant risks through discussion with multi-department.

价值链阶段
供应链

覆盖范围
部分

风险评估程序
将水风险评估作为企业既定风险管理框架的一部分

评估频率
每年

评估风险时考虑多远的未来？
3-6年

工具和方法的类型
市面上的工具
国际方法和标准
其它

采用的工具和方法
WRI Aqueduct
WWF Water Risk Filter
Alliance for Water Stewardship Standard（国际水管理联盟标准）
Environmental Impact Assessment
ISO 14001环境管理标准
其他，请说明 (● Internal company methods)

已考虑的背景问题
流域层面的水资源可利用性
流域级别的水质
利益相关方在流域/集水区一级有关于水资源的冲突
水资源对贵公司关键商品/原材料的影响
水监管框架
向所有员工提供功能完善，经安全管理的水、环境卫生和个人卫生设施

已考虑的利益相关者问题
客户
员工
投资人
当地社区
非政府组织
监管者
供应商
本地级别的水务公共事业
流域级别上的其他水资源使用者

备注
We adopt WRI's water risk assessment tools and WWF water risk filter to identify water risk of our suppliers and audit their environmental compliance through environmental impact assessment. And we regularly search information about environmental issues via IPE and related websites to ensure green supply chain. We refer to the risk list of TCFD, analyze the risk factors of our operation sites and compare with the benchmark of the same industry, and identify the relevant risks through discussion with multi-department.

W3.3b

（W3.3b）请描述贵组织在直接运营和其他价值链阶段中识别、评估和应对水相关风险的流程。

	建立风险评估方法的基本原理	详述考虑到的背景问题	详述考虑到的利益相关者	风险响应的决策过程
第1行	We have developed a risk management process as internal company methods, “the Process for Risk Identification, Evaluation and Management”, to define and identify the priority risk items and establish proper/preventive/disposal/response mechanism to mitigate and minimized the risks in order to ensure a smooth and effective enterprise operation. The urgency and priority of risks are determined by risk assessment criteria, and there is the formula (Risk Factor= severity * frequency * detectability) we considered to represent the risk factor. We also assess our risks by WRI Aqueduct & WWF-DEG Water Risk Filter, Environmental Impact Assessment, Environmental Emergency Plan, Alliance for Water Stewardship and Task Force on Climate-related Financial Disclosures, via which we assess risks of water use change and potential water stress , then set water reduction targets and countermeasures strategies according to the size of the risk.	The risks we may face at present are related to water intake/water supply/water use/water recycling, etc. There are no relevant laws and regulations at present. At present, the competent authority encourages enterprises to manage them voluntarily. We seek opportunities to improve water resource management performance, strengthen resilience to climate change, promote water resource efficiency and diversification, reduce production costs, ensure business continuity, gain customer recognition, and increase customer trust.	Every year, we conduct questionnaire surveys with suppliers, customers, government agencies, shareholders, neighboring companies, residents, employees, and other stakeholders to understand the water concerns of each party, and then compile and formulate the Company's future directions for water resource management improvement. Every year, we collect the background information of the watershed to which each manufacturing site belongs, compile the background report of the watershed, and analyze the water resource risks by combining the concerns of the relevant parties.	The five-step assessment of our risk management process is as follows: Step 1: Determine the severity of the risk occurrence We evaluate and score the risks (1-10) according to their severity: Serious risk without warning: 10 Serious risk with warning: 9 Very high: 8 High: 7 Medium: 6 Low: 5 Very low: 4 Slight: 3 Very slight: 2 N/A: 1 Step 2: Determine the frequency of risk occurrence (the same method as the determination of the severity of the risk occurrence, but evaluate and score 1-10 according to their frequency.) Step 3: determine the detectability of the risk occurrence (the same method as the determination of the severity of the risk occurrence, but evaluate and score 1-10 according to their detectability.) Step 4: Calculate the Risk Factor = Severity * Frequency * Detectability Step 5: Prioritize the risk items with risk factors from the highest to the lowest Risk Factor: The risk items with a risk factor of 80 or above shall be treated with the highest priority. The person in charge of the risk items shall set up the risk mitigation plan and the implementation report of the risk mitigation plan. The risk items with a risk factor of 60 or above and below 80 shall be treated with high priority. The person in charge of the risk items shall submit the risk control action form. The risk items with a risk factor of less than 60 shall be controlled according to the present measures.

W4.风险和机遇

W4.1

（W4.1）您是否发现任何可能对贵公司造成实质性的经济或战略影响的固有水相关风险？

是，只在直接运营中

W4.1a

(W4.1a)贵公司如何定义实质性的经济或战略影响？

1) Definition of substantive financial or strategic impact and the indicator:

Substantive financial or strategic impact is defined as an effect or consequence that results in a loss of more than 1% of revenue. This indicator serves as a threshold to identify significant impacts on the company's financial performance or strategic direction.

2) The process to define water-related risks:

We conduct a comprehensive review of climate change related risks include water-related risks annually. In alignment with the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD), we have identified and ranked climate-related risks and opportunities. We rely on international research reports to assess climate risks and opportunities, and we evaluate potential short-term, mid-term, and long-term risks and opportunities associated with climate change. This enables us to develop response measures and take proactive actions to address climate-related challenges. In 2022, we have identified 11 climate related risks.

W4.1b

(W4.1b)总共有多少设施面临着可能带来实质性经济和战略影响的水相关风险？在全公司设施中的占比是多少？

	处于水风险中的设施总数量	在全公司设施中的占比%	备注
第1行	1	1-25	The Qinhuangdao manufacturing site is located in the northern region of China, which generally experiences higher water usage pressures. Although the Qinhuangdao manufacturing site is located in the northern region, it is situated in a coastal city in northern China. Its specific geographical location is near a river (water source). Additionally, there are three water sources in the surrounding area, ensuring a stable water supply. When conducting water resource assessments using WRI simulation software, the simulations are based on water usage pressures at the regional level, which may result in higher pressure values being reflected in the outcomes. However, in the assessment of the AWS watershed, which takes into account the surrounding watershed conditions of the industrial park, the results show a low water resource stress level in the area. Since its establishmented in 2008, the Qinhuangdao Park has not encountered any water supply issues. More than 90% of the water used in the park is sourced from surface water, primarily from rivers, with a low reliance on tap water.

W4.1c

(W4.1c)在流域内，面临实质性财务或战略影响的水风险的设施数量和占比是多少？这些设施会给公司带来哪些潜在影响？

国家/地区和流域

中国	滦河

处于水风险中的设施数量
1

在全公司设施中的占比%
1-25

与这些设施相关的金属和采矿活动的产值
<Not Applicable>

受这些设施影响的公司年发电量的占比%
<Not Applicable>

受这些设施影响的公司全球石油和天然气产量占总量的比例%
<Not Applicable>

受影响的公司全球收入占总收入的比例%
21-30

备注
The water resource risk assessment in Qinhuangdao Park classified the risks as high risk. To mitigate water stress in the park, efforts have been made to improve water efficiency at the process level and increase water reuse at the end. Over the past two years, the wastewater reuse rate in Qinhuangdao Park has consistently reached 50%, which is considered a leading level within the industry in terms of water reuse. In addition, more than 90% of the water used in Qinhuangdao Park comes from raw water sources such as rivers, reducing reliance on tap water and alleviating water stress. In the coming 3 to 5 years, we will also promote the use of recycled water as one of the water sources to reduce water stress.

W4.2

(W4.2)请详细描述贵公司直接运营中可能带来实质性经济或战略影响的风险，以及贵公司的应对措施。

国家/地区和流域

中国	滦河

风险类型和主要风险动因

长期自然因子	水资源紧张

主要潜在影响
对生产能力的减小或干扰

公司特定的描述
The water resource risk assessment in Qinhuangdao Campus classified the risks as high risk. The Qinhuangdao Campus is located in the northern region of China, which generally experiences higher water usage pressures. Although the Qinhuangdao Campus is located in the northern region, it is situated in a coastal city in northern China. Its specific geographical location is near a river (water source). Additionally, there are three water sources in the surrounding area, ensuring a stable water supply. When conducting water resource assess- ments using WRI simulation software, the simulations are based on water usage pressures at the regional level, which may result in higher pressure values being reflected in the outcomes. However, in the assessment of the AWS watershed, which takes into account the surrounding watershed conditions of the industrial campus, the re- sults show a low water resource stress level in the area. Since its establishment in 2008, the Qinhuangdao Campus has not encountered any water supply issues. More than 90% of the water used in the campus is sourced from sur- face water, primarily from rivers, with a low reliance on tap water.

时间段
超过6年

潜在影响量级
低

可能性
非常不可能

您是否能够提供潜在财务影响数据？
是，一个预估范围

潜在财务影响
<Not Applicable>

潜在财务影响数据-最小（货币）
350000000

潜在财务影响数据 - 最大（货币）
1755000000

财务影响说明
Our potential financial impact data = revenue * proportion of days that may be impacted(1-3 days)

主要风险应对
采用节水、水资源再利用、再循环和保护手段

描述回应
The water resource risk assessment in Qinhuangdao Park classified the risks as high risk. To mitigate water stress in the park, efforts have been made to improve water efficiency at the process level and increase water reuse at the end. Over the past two years, the wastewater reuse rate in Qinhuangdao Park has consistently reached 50%, which is considered a leading level within the industry in terms of water reuse. In addition, more than 90% of the water used in Qinhuangdao Park comes from raw water sources such as rivers, reducing reliance on tap water and alleviating water stress. In the coming 3 to 5 years, we will also promote the use of recycled water as one of the water sources to reduce water stress.

应对成本
215209000

应对成本说明
Our cost of response =reuse water and waste water investment（215,129,000）+cost of flood control works（80,000）

W4.2c

(W4.2c)为何贵公司认为自己的价值链（除直接运营外）并没有处于可能带来实质性经济或战略影响的水风险中？

	主要理由	请详述
第1行	风险存在，但预计无实质性影响	We conduct regular audits of our suppliers, focusing on their water environment compliance, including legal licenses, adherence to water quality standards, and measures taken to reduce wastewater. Prior to and during collaboration, we assess our suppliers' water risk through various methods, such as utilizing tools from organizations like WRI and WWF, as well as our internal assessment approaches. Moreover, given our extensive network of multiple suppliers, we maintain the ability to switch suppliers when necessary to ensure smooth and uninterrupted production. This approach allows us to manage potential disruptions in our value chain effectively. And there is no substantive impact in our value chain However, we recognize the importance of taking a long-term perspective and continuously enhancing the water management capabilities of our suppliers. By doing so, we aim to minimize the water-related risks associated with our suppliers and contribute to the overall sustainability of our operations and supply chain.

W4.3

(W4.3)您是否有发现任何可能给贵公司带来实质性经济和战略影响的水相关机遇？
是，我们已发现了机遇，并且部分/全部正在实现

W4.3a

(W4.3a)请详细描述目前正在争取且会给贵公司带来实质性经济或战略影响的机遇。

机遇类型
效率

主要与水相关的机遇
提高活动的用水效率

具体描述公司实现机遇的策略
PCB industries require significant amounts of water for their production processes. To effectively reduce the environmental impact of the company, we have introduced high-performance water recycling equipment to process wastewater for use based on demands. Water is recycled for reuse in production, environmental cleaning, and irrigation. The company has engaged in multiple water recycling projects, such as recycling of high-concentration wastewater, and War Horse Water Saving Project (lower overflow rate). The amount of water recycled by manufacturing sites has surpassed the regulatory requirements of local governments. By practicing water-saving management and introducing water recycling technologies, the company has recycled roughly 9,703 million liters of water in 2022, which is a 50.5% of the water reuse rate. In the coming 3 to 5 years, we will also promote the use of recycled water as one of the water sources to reduce water stress.

预计实现时间
4-6年

潜在经济影响的量级
低-中

您是否能够提供潜在财务影响数据？
是，个位数的评估

潜在财务影响
16102000

潜在经济影响数据-最小（货币）
<Not Applicable>

潜在经济影响数据-最大（货币）
<Not Applicable>

财务影响说明
When we estimate the potential economic impact, we assume that our average water reuse quantity will rise between 2022 and 2023, taking into account our strategy and measures to increase water reuse, multiplying the average unit price of tap water and obtaining the financial impact of the previous column. We gathered the statistics of reusing and recycling projects, the quantity of water reused, so that we can quantify our work.
Potential financial impact figure = reuse water consumption（9,700,000t） * average unit price of water（16.6NTD/t）

机遇类型
产品和服务

主要与水相关的机遇
现有产品/服务的销量增加

具体描述公司实现机遇的策略
Zhen Ding has identified a significant water-related opportunity through the management of our wastewater source. By implementing advanced wastewater treatment technologies and optimizing our production processes, we have successfully reduced external wastewater discharges, minimizing our impact on the environment and local water bodies. Furthermore, our efforts have led to a substantial increase in our water reuse rate, enhancing our water independence and reducing our reliance on external water sources. This water management strategy not only aligns with our commitment to environmental sustainability but also presents a unique business advantage. With improved water efficiency and reduced water-related risks, we can enhance the resilience of our operations and boost our overall productivity. Additionally, our responsible water management practices have resonated positively with our customers, leading to increased sales of existing products. Overall, our focus on water-related opportunities not only contributes to environmental conservation but also drives business growth and competitiveness in the market.

预计实现时间
1-3年

潜在经济影响的量级
中-高

您是否能够提供潜在财务影响数据？
是，一个预估范围

潜在财务影响
<Not Applicable>

潜在经济影响数据-最小（货币）
900000000

潜在经济影响数据-最大（货币）
3500000000

财务影响说明
The financial impact of our water-related opportunity is expected to result in a sales increase of 0.5% to 2.0%.

Potential financial impact = average of 2021 & 2022 revenue * 0.5%~2.0% = 900,000,000~3,500,000,000.

W5.设施级别水核算

W5.1

(W5.1)针对W4.1c中提及的所有设施，请提供设施地理位置，水核算数据以及和上一报告年的对比。

设施参考号
工厂1

设施名称（可选）
Qinhuangdao Park

国家/地区和流域

中国	滦河

纬度
39.93

经度
119.47

位于面临水资源压力的区域
是

该设施的主要发电源
<Not Applicable>

石油和天然气行业的商业分支
<Not Applicable>

此设施的取水总量（兆升/年）
5721

对比上一报告年的取水量
高一些

地表淡水取水量，包括雨水、湿地水、河水和湖水
296

微咸地表水/海水取水量
0

地下水（可再生）取水量
0

地下水（不可再生）取水量
0

采出/夹带水取水量
0

第三方水源取水量
5425

此设施的排水总量（兆升/年）
4567

对比上一报告年的排水总量
基本持平

排至地表淡水
4567

排至微咸地表水/海水
0

排至地下水
0

排至第三方排放地
0

此设施的耗水总量（兆升/年）
1154

对比上一报告年的耗水总量
基本持平

请详述
Water consumption = water intake - water discharge
Reasons for water consumption:
1. Evaporation of cooling water
2. The sludge contains some water
3. The waste liquid is outsourced and not included in the external drainage

W5.1a

（W5.1a）针对W5.1提及的所有设施，接受第三方审验的水核算数据的占比是多少？

取水总量

审验占比
76-100

所使用的审验标准
AWS audit

请详述
<Not Applicable>

取水量——按水源分

审验占比
76-100

所使用的审验标准
AWS audit

请详述
<Not Applicable>

取水水质 - 按标准水质参数分

审验占比
76-100

所使用的审验标准
AWS audit

请详述
<Not Applicable>

排水总量

审验占比
76-100

所使用的审验标准
AWS audit

请详述
<Not Applicable>

排水量——按排放地分

审验占比
76-100

所使用的审验标准
AWS audit

请详述
<Not Applicable>

排水量——按最终处理等级划分

审验占比
76-100

所使用的审验标准
AWS audit

请详述
<Not Applicable>

排水水质——按标准水质参数划分

审验占比
76-100

所使用的审验标准
AWS audit

请详述
<Not Applicable>

耗水总量

审验占比
76-100

所使用的审验标准
AWS audit

请详述
<Not Applicable>

W6.管理

W6.1

(W6.1)贵公司是否有水资源政策？
是，我们有正式的水资源公开政策

W6.1a

(W6.1a)请选择最能描述贵公司水资源政策范围和内容的选项。

	范围	内容	请详述
第1行	全公司适用	描述政策所涵盖的范围（包括价值链阶段） 描述公司对水资源的依赖度 描述公司对水资源的影响 承诺符合国际框架、标准和广泛认可的水资源倡议 承诺防治、减少和控制污染 承诺减少或逐步去除有害物质 承诺减少供应链中的取水量和/或用水量 在工作场所提供安全管理的水、环境卫生和个人卫生设施（WASH）的承诺 承诺对利益相关者进行水安全方面的教育和能力建设 对水资源管理和/或集体行动的承诺 对合规性之外的承诺 参考公司与水相关的目标 承认享有水和环境卫生的人权 认可环境关联性，例如因为气候变化	Our environmental policy is “Prevent pollution, continuously reduce waste, and provide environmentally friendly products; Save energy, protect the earth, and operate the green enterprise practically. Zhen Ding's seven greens are our company’s spindle and platform in the field of environmental protection, we set water KPIs for each department through it, and we share seven greens with the employees, to enhance their awareness of water saving, in addition, we cooperate with Taiwan University, joint developing water related technology. We strengthen the environmental management system by acquiring the international standard certification (ISO14001) together with the AWS standard. As climate changes and water risks increase, we set targets for water and GHG by 2025, which aim to minimize water dependency by water intensity management of facilities and to minimize environmental impact. We hold relevant conferences and invite stakeholders to share our strategies. We ensure that employees receive safe drinking water and sanitation, and also run hygiene and health programs for employees. We set up a Code of Conduct for suppliers so that they can fulfil their responsibility for eco-friendly operations. And we have been concentrating on research and developing water related technologies to minimize environmental Impact. Meanwhile, we disclose water related information in Chapter 3.3 of our CSR report, including water dependency, water related goals and targets, water stewardship and etc. Zhen Ding has introduced a number of water-saving measures to our manufacturing and production processes to minimize the risks of water consumption through management at the source and optimization at the end. By engaging in technology innovation, we continue to increase wastewater reuse rate, and improve the efficiency of water resources. We also import TCFD governance structure and management into our strategy, and formulate carbon reduction guidelines with reference to SBTi.

W6.2

(W6.2)在公司内是否有对水资源相关的问题进行董事会层面的监管？

是

W6.2a

（W6.2a）请就水资源相关议题，明确董事会中每个人的职位和责任（不涉及人名）。

个人或委员会的职位	与水相关事项的职责
董事会层级委员会	Zhen Ding formed the Sustainability Committee on December 28, 2021, comprising the Chairman of the Board of Directors as the convener and two independent directors. The committee's responsibilities include developing sustainable development strategies and goals, with one of the focus on water-related issues, and establishing relevant management guidelines. In 2022, the Committee set a water reuse rate target of 50% to be achieved by 2025.

W6.2b

(W6.2b)请提供更多有关董事会对水相关问题的监管情况。

	水相关问题被放入议程的频率	整合水相关问题的治理机制	请详述

	水相关问题被放入议程的频率	整合水相关问题的治理机制	请详述
第1行	已安排 - 部分会议	监测实施和效果 监测实现公司目标的进展 监督收购、兼并和资产剥离事宜 监督和指导情景分析 监督主要资本支出 监督公司目标的设定 提供员工奖励 审核和指导年度预算 审核和指导商业计划 检查和指导公司责任战略 审核和指导主要行动计划 审核和指导风险管理政策 审核和指导战略 检查创新/研发优先事项 设置业绩目标	The Board is holding regular meeting once per quarter usually during March, May, August and November each year to review major plans of action, risk management, annual budgets, business plans, major expenditures, climate related and water related issues. Projects in response to corporate social responsibility related planning, risk management assessment and regulatory response are reported and discussed, so that we can maintain our sustainable development. We will also report on CDP and related stakeholder assessment responses and sustainability management reports. And by reviewing last year's performance, we modify goals and strategies for further management and development. And the topics are reported by the corresponding functional departments in the meeting, and the CEO makes final decisions. For topics and related issues that require further monitoring will be listed in the AR, and they will be regularly reported to CEO for development.

W6.2d

(W6.2d)贵组织是否至少有一名董事会成员具备水相关的管理能力？

	董事会成员具备水相关问题管理的能力	用于评估董事会成员在水相关问题上管理能力的标准	董事会在水相关问题上缺乏管理能力的主要原因	解释为什么贵公司没有至少一名董事会成员在水相关问题具备管理能力，以及请详述未来在提升董事会水相关问题管理能力的计划
第1行	是	The following criteria are used to evaluate the competence of board members concerning water-related issues: 1. Water Policy and Regulation: Knowledge of national and international water policies, agreements , and regulations, and their implications for the company's operations. 2. Water Risk Management: Ability to identify, assess, and managewater-related risks that may affect the company's long-term sustainability and performance. 3. Sustainability and ESG Expertise: Familiarity with Environmental, Social, and Governance (ESG) practices and how they relate to water issues, and the ability to integrate sustainability considerations into business strategies. For example, Dr. Yeh was elected as an independent director at the 2023 AGM. Dr. Yeh is a Professor at the Graduate Institute of Environmental Education, National Taiwan Normal University. He has held positions such as Chief Executive Officer of the National Council for Sustainable Development and Deputy Minister of Environmental Protection Administration at the Executive Yuan.	<Not Applicable>	<Not Applicable>

W6.3

（W6.3）就水资源相关议题的职责，请提供最高管理等级的职位或委员会（不涉及人名）。

相关职位和/或委员会的名称

首席执行官（CEO）

该职位与水相关的职责

评估水需求的未来趋势
评估水相关的风险和机遇
管理水相关的风险和机遇
监控水相关的公司目标的进展
将与水相关的事项纳入公司战略
管理与水安全相关的年度预算
给水相关员工提供激励

向董事会报告水相关问题的频率

比每季度频率更大

请详述

Our CEO, who is also a board member, participates in the management review meetings held every quarter. During these meetings, the CEO assesses and monitors water-related targets and performance to ensure progress and alignment with the company's climate goals.

W6.4

（W6.4）针对水资源相关问题的管理，是否有向首席高管或董事会成员提供奖励？

	为水资源相关问题的管理提供激励	备注
第1行	是	The Sustainable Development Committee and their executives are conducting periodic performance evaluations by incorporating water intensity targets into their KPIs when establishing annual targets. Water is an indispensable part of our future plan and incentives to us for management of water-related issues are necessary.

W6.4a

（W6.4a）针对水资源相关议题的管理，向各首席职能部门管理者或董事会成员提供了哪些奖励措施（不涉及具体人名）？

	有权获得奖励的角色	绩效指标	激励措施如何帮助贵组织实现水相关的承诺	请详述
财务奖励	公司执行团队	减少取水量——直接运营 提高水效率 – 直接运营 提高废水水质——直接运营 减少水污染事件 减少或逐步淘汰有害物质	Zhen Ding has established comprehensive targets for both water reuse rate and the quality of discharged water, strategically incorporating them into the key performance indicators (KPIs) of the executives. Looking ahead to the future, the company has set a substantial long-term objective aiming to achieve an impressive water reuse rate of 50% by the year 2025. These ambitious targets signify the company's strong commitment to sustainable water management practices, aligning its actions with environmental stewardship and responsible corporate practices.	The Sustainable Development Committee and their executives are conducting periodic performance evaluations by incorporating water intensity targets into their KPIs when establishing annual targets. Achievement rate of water reusing targets and improvement of water intensity are what we focus on, especially in direct operations. Each year, the corporate executive team and relevant supervisors will be evaluated according to the performance evaluation mechanism. The performance of water security is also one of the evaluation indicators. The evaluation results will be linked to the performance bonus of senior managers and the annual bonus. And our water reuse target is to achieve a water reuse rate of 50% by 2025.
非金钱类奖励	其他，请说明 (all employee)	提高水效率 – 直接运营	In order to improve our brand value, we have implemented the AWS (International Sustainable Water Management Standard) project. Not only the company itself does a good job in water resource management, saves water, improves water resource utilization efficiency, and discharges waste water up to standard. We are also committed to local water basins We will work together with relevant parties to improve the sustainable development and utilization of water resources in local river basins. In 2019, Zhending Shenzhen Park has completed the AWS Platinum certification ahead of its peers. In 2022, all parks in Zhending mainland will pass the audit successfully, and the AWS certification level will continue to be platinum.	We have been improving sustainable management of water. By introducing water reusing projects, Alliance for Water Stewardship (AWS) standard and etc., we gained many certificates and recognition about water from governments, suppliers and other authorities, which increases our brand value on a large scale.

W6.5

(W6.5)是否有通过以下任意形式参与一些能够直接或间接影响公共水资源政策的活动？

是，贸易协会

W6.5a

（W6.5a）您实施了哪些程序，以确保影响政策的所有直接和间接活动都与您的水资源政策/水资源承诺相一致？

The company actively engages with the trade association, China Printed Circuit Association. The engagement process involves regular consultations and dialogues with the association to communicate the company's water-related goals, policies, and sustainability commitments. During these engagement activities, the company emphasizes the importance of water conservation, responsible water usage, and environmental stewardship in the printed circuit industry. It seeks to align the association's policies and initiatives with the company's water strategy to foster a collective effort in promoting sustainable water management practices across the industry. If any inconsistencies are identified between the association's policies and the company's water strategy or commitments, the company takes swift action to address the situation. It initiates discussions with the association's leadership to highlight the inconsistencies and advocate for necessary adjustments that align with the company's water sustainability objectives. Through these transparent and constructive engagements, the company aims to ensure that its participation in the trade association positively contributes to promoting sustainable water practices, harmonizing its external policy influence with its internal water strategy, and reinforcing its commitment to environmental responsibility in the printed circuit industry.

W6.6

（W6.6）贵组织是否在最新的主流财务报告中提及有关水资源相关议题的应对信息？

是（您可以附上报告——非强制）

W7.商业战略

W7.1

(W7.1)是否有将水资源相关的问题整合进公司长期战略规划中？如果有请说明。

	是否对水资源相关问题进行了整合？	长期时间范围（年）	请详述
长期企业目标	是，整合进水资源相关问题	11-15	Zhen Ding has thoroughly assessed water-related risks for each manufacturing campus in 2030, considering the most severe scenario (SSP3 RCP8.5). We employed the WRI Aqueduct Water Risk Atlas tool to analyze baseline and worst-case scenarios, incorporating the simulation analysis results into our operational resilience strategy. In response to water risks, Zhen Ding actively enhances wastewater reuse after treatment, continuously increasing the water reuse rate. We vigorously implement water conservation projects in our machine shops and establish KPI indicators for products to regularly review and improve water efficiency. Additionally, we undertake Alliance for Water Stewardship projects, effectively managing our water resources, conserving water, and meeting wastewater discharge standards.
实现长期目标的战略	是，整合进水资源相关问题	11-15	PCB industries require significant amounts of water for their production processes. To effectively reduce the environmental impact of the company, we have introduced high-performance water recycling equipment to process wastewater for use based on demands. Water is recycled for reuse in production, environmental cleaning, and irrigation. The company has engaged in multiple water recycling projects, such as recycling of high-concentration wastewater, and War Horse Water Saving Project (lower overflow rate). The amount of water recycled by manufacturing sites has surpassed the regulatory requirements of local governments. By practicing water-saving management and introducing water recycling technologies, the company has recycled roughly 9,703 million liters of water in 2022, which is a 50.5% of the water reuse rate. We have set the target of maintain the water reuse rate at 50% by 2030.
经济规划	是，整合进水资源相关问题	11-15	Since its establishment, Zhen Ding has placed significant emphasis on environmental protection and consistently increased investments in this area, including addressing water-related issues. In 2012, our company proactively conducted a cleaner production audit, obtaining certification issued by the local government. Our efforts have been acknowledged by the EPA, meeting the first level of the Cleaner Production Standard, which is recognized as an international advanced level. Besides, decisions regarding the location of new facilities and the reliability of water supply have a long-term impact on our financial planning, extending beyond an 10-year timeframe.

W7.2

(W7.2)在本报告年，贵公司水相关资本支出（CAPEX）和运营支出（OPEX）的发展趋势如何？预计下一报告年呈现何种趋势？

第1行

水相关资本支出（+/- %变动量）

-43

资本支出的未来趋势预计（+/- %变动量）

20

水相关运营支出（+/- %变动量）

20.5

运营支出的未来趋势预计（+/- %变动量）

20

请详述

In 2021, Zhen Ding made substantial investments in expanding the pure wastewater plant in certain parks, resulting in higher water-related CAPEX in 2021. As capacity expanded, water-related OPEX increased in 2022.

The growing awareness of environmental issues in various sectors has led society to closely examine corporate environmental efforts. In response, we actively pursue advanced technologies that support environmental protection, focusing on energy conservation, chemical reduction, emission control, and water recycling. These efforts aim to minimize our environmental footprint and pave the way for sustainable development within the industry. Furthermore, we are actively promoting new water reuse projects to further enhance water recycling, ensuring more efficient and economical utilization of water resources. As a result, we anticipate that our CAPEX and OPEX will continue to grow about 20%.

W7.3

（W7.3）贵组织是否使用情景分析，以便采取对应的商业战略？

	是否使用情景分析	备注
第1行	是	Each of Zhen Ding's key manufacturing campus in China conducts AWS system audit and certification every year. Annual water risk identification and assessment are carried out, and we use the Water Risk Filter AWS, a regional water crisis scoring tool of the World Wildlife Fund (WWF), to analyze the water risk in the regional watersheds, and all campuses have low risks and have no water-related impacts. In addition, we use the WRI Aqueduct Water Risk Atlas water assessment tool to simulate and test the water stress of each campus by analyzing the baseline and the worst-case scenarios. The results of the simulation analysis are incorporated into the operational resilience strategy.

W7.3a

(W7.3a)请提供情景分析的详细信息，说明哪些与水相关的结果已经被识别出来，以及它们如何影响了贵组织的商业战略。

	所使用情景分析的类型	参数，假设，分析选择	请描述可能的水相关后果	对商业战略的影响
第1行	水相关	1) Zhen Ding uses Climate Central's Sea Level Rise Map to evaluate the rising sea level under different warming scenarios. Analysis of the topography, altitude, plant and ground drop, and other timing conditions of each manufacturing campus, and the overall risk assessment result of each operating manufacturing campus is low risk. Scenario Simulation scenario: Sea level rise due to rising temperature was simulated. 2) In addition, we use the WRI Aqueduct Water Risk Atlas water assessment tool to simulate and test the water stress of each campus by analyzing the baseline and the worst-case scenarios. The results of the simulation analysis are incorporated into the operational resilience strategy.	1) If there is a risk of seawater intrusion due to rising sea levels or other factors, it may lead to poor drainage and increase the probability of localized flooding. This could result in additional operational costs for managing water-related disasters. 2) If a company's manufacturing site is located in a high water stress area, it could face several water-related outcomes and challenges: a. Water Scarcity: The manufacturing site may experience limited access to water resources due to high demand and low availability, leading to water scarcity. This could disrupt production processes that rely heavily on water, impacting operations and potentially causing supply chain disruptions. b. Increased Water Costs: In regions with high water stress, the cost of water may be higher as water becomes a limited resource. The company may face rising water prices, leading to increased operating costs and potentially affecting profitability. c. Water Use Restrictions: Local authorities may impose water use restrictions or regulations to manage water scarcity. The manufacturing site may be subject to water use quotas or limitations, which could further impact production and operations.	1) In order to cope with possible extreme weather and heavy rainfall, each manufacturing campus has built flood prevention facilities, such as flood control stations, flood gates, flood pumps, flood barriers and other facilities. 2) Zhen Ding's key manufacturing campuses in China conduct annual AWS system audits and certifications. We use the Water Risk Filter AWS, a regional water crisis scoring tool, to analyze water risk in the regional watersheds. Questionnaire surveys with stakeholders are conducted yearly to understand water concerns, and all campuses have low risks and no water-related impacts. None of the campuses fall within a water stress area. 3) Zhen Ding actively improves wastewater reuse and water efficiency, implementing water conservation projects and KPI indicators for product performance. We manage water resources effectively, meet wastewater discharge standards, and collaborate with relevant parties to protect local water resources. Emergency water tanks are also installed in each campus to ensure water availability during emergencies. 4) In the coming 3 to 5 years, we will also promote the use of recycled water as one of the water sources to reduce water stress. We have set a target of water reuse rate of 50% in 2025.

W7.4

(W7.4)贵公司是否使用内部水资源价格？

第1行

贵公司是否使用内部水资源价格？

是

请详述

Our five factories are located in four different geographic locations, each of which will have different water prices due to the distribution of water resources. And according to different kinds of water and governments' policies, we get distinct preferential rates. The five factories will calculate the water fee according to the local water price.

W7.5

（W7.5）您是否将您当前的任何产品和/或服务归类为水影响较低？

	归类为水影响较低的产品和/或服务	如何定义和分类低水影响	您未将当前的任何产品和/或服务归类为水影响较低的原因	请详述
第1行	是	Less water is used to produce the product per unit area. Reaching the level one clean production standards	<Not Applicable>	Zhen Ding actively adopts Taiwan and China's clean production laws and clean production standards, and follow the "Cleaner Production Assessment System Guidelines for PCB Manufacturing" and the "Cleaner Production Promotion Law" to establish management standards for our manufacturing processes. In 2010, our subsidiaries began taking initiative to implement clean production review and introduce the Company's environmental management concept to manage emissions at the source and end. Our goal is to surpass the level one clean production standards. To date, we have launched multiple clean production initiatives for improving our manufacturing processes, to not only cut down the use of materials but also lower production costs,thereby bolstering the company's green competitiveness. After calculation, the production of PCB products per unit area consumes the least amount of water, so we define Flexible Printed Circuit (FPC) products as products with low impact on water.

W8.目标

W8.1

（W8.1）贵组织是否设立任何与水相关的目标？

是

W8.1a

（W8.1a）说明贵组织是否有与水污染、取水、用水、环境卫生和个人卫生或其他与水相关的类别相关的目标。

	此类别中设定的目标	请详述
水污染	是	<Not Applicable>
取水量	是	<Not Applicable>
用水、环境卫生和个人卫生服务	是	<Not Applicable>
其它	是	<Not Applicable>

W8.1b

（W8.1b）请提供贵组织水相关目标和已取得进展的详细信息。

目标参考号
目标1

目标类别
取水量

目标覆盖范围
全公司范围（仅限直接运营）

量化指标
取水量/收入减少

目标年份简介
2017

基准年
2013

目标年数字
0.13

目标年度
2025

基年数字
0.08

报告年数字
0.08

相对于基准年实现的目标百分比

报告年的目标状态
完成

请详述
In 2025, our target for product water intensity reduction is 40% compared to 2013. We have made significant progress in this regard, with a 32% reduction in water intensity in 2021 and 40% in 2022, successfully achieving our goals. To further promote water conservation, all departments have established annual water-saving targets, and we regularly review and assess progress on a monthly basis. In addition, we have implemented various water-saving projects across our factories. Our commitment to decreasing water dependency and practicing sustainable water stewardship is reflected in our water-related goals. Moreover, we are incorporating the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) into our environmental strategy, including water-related initiatives, to ensure a holistic approach to environmental sustainability.

目标参考号
目标2

目标类别
水循环/再利用

目标覆盖范围
全公司范围（仅限直接运营）

量化指标
通过循环/再利用使水资源利用率增加

目标年份简介
2022

基准年
2013

目标年数字
31.69

目标年度
2025

基年数字

50

报告年数字
50.3

相对于基准年实现的目标百分比

报告年的目标状态
全新

请详述
In 2022, we set a target to achieve 50% water recycling/reuse by 2025. Currently, our wastewater reuse rate surpasses that of our industry peers. However, after conducting a comprehensive environmental assessment, we realized that pushing the water reuse rate further would lead to increased chemical usage, resulting in more harmful sludge, and higher energy consumption leading to elevated carbon emissions, which is not entirely environmentally friendly. Hence, our long-term goal is to maintain the water reuse rate at 50%. Apart from maintaining a water reuse rate of over 50% in the future, each production park will collaborate with local governments to promote the use of urban recycled water within the next 3-5 years. Our primary focus is on enhancing overall regional water resource utilization efficiency for a more sustainable approach.

目标参考号
目标3

目标类别
水污染

目标覆盖范围
现场/设施

量化指标
污染物浓度减少

目标年份简介
2017

基准年
2013

目标年数字
0.15

目标年度
2025

基年数字
1.5

报告年数字
0.41

相对于基准年实现的目标百分比

报告年的目标状态
完成

请详述
We have set specific water quality targets for each of our manufacturing campuses. This target is for our Huai'an Campus. The target in question pertains to the copper concentration in wastewater, measured in mg/L. In 2013, the copper concentration was recorded as 0.15 mg/L. For the year 2025, our target is to maintain a copper concentration below than 1.5 mg/L. As of 2022, our recorded copper concentration is 0.41 mg/L, which aligns with our 2025 target. This progress reflects our commitment to continuously improve water quality management and meet our set goals for sustainable water practices at Huai'an Campus and beyond.

W9.核查

W9.1

(W9.1)是否有审验CDP披露中填报的其他水资源信息（不包含在W5.1a内）？
开展中

W11.签核

W-FI

（W-FI）使用此栏提供任何您认为与贵组织回复相关的额外信息或背景。请注意，此栏为可选项，不计分。

W11.1

（W11.1）请提供贵组织CDP水回复签核人（批准人）的详细信息。

	职务	相应职务类别
第1行	CFO is Chief Financial Officer.	首席财务官（CFO）

SW.供应链模块

SW0.1

(SW0.1)贵公司在报告期间的年收入是多少？

	年收入
第1行	171400000000

SW1.1

(SW1.1) (SW1.1)在W5.1填报的设施中是否有任何设施会影响提出申请的CDP供应链成员？

W5.1没有填报设施

SW1.2

(SW1.2)(SW1.2)您能否提供设施的地理位置信息？

	您能否提供设施的地理位置信息？	备注
第1行	否，这属于保密数据	

SW2.1

(SW2.1)请提议能与某家CDP供应链成员合作开展的任何双赢水相关项目。

申请的成员
Alphabet, Inc.

项目类别
沟通

项目类型
其他，请说明 (Communication conference.)

动机
Reducing water withdrawal and manage water efficiently and sustainably.

实现项目的预计时间
2-3年

项目详情
Visit our company to share some advance water-saving techniques and experience with our colleagues annually.

预计结果
Reduce water withdrawal and decrease the operation cost.

申请的成员
Cisco Systems, Inc.

项目类别
沟通

项目类型
其他，请说明 (Communication conference.)

动机
Reducing water withdrawal and manage water efficiently and sustainably.

实现项目的预计时间
2-3年

项目详情
Visit our company to share some advance water-saving techniques and experience with our colleagues annually.

预计结果
Reduce water withdrawal and decrease the operation cost.

SW2.2

（SW2.2）是否有因为CDP供应链成员参与而开展的水项目？
是

SW2.2a

（SW2.2a）请选择推动水项目合作的提出要求的CDP供应链会员。

申请的成员
Alphabet, Inc.

项目类别
沟通

项目类型
其他，请说明 (Water projects issued)

项目描述
We have been implementing many water-related projects to reduce water consumption intensity and increase the recycling rate of water.

进展
We have been awarded with a series of water-related awards from government and clients.

申请的成员
Cisco Systems, Inc.

项目类别
沟通

项目类型
其他，请说明 (Water projects issued)

项目描述
We have been implementing many water-related projects to reduce water consumption intensity and increase the recycling rate of water.

进展
We have been awarded with a series of water-related awards from government and clients.

SW3.1

(SW3.1)请提供贵组织产品或服务的可用用水强度数值。

产品名称
Rigid Printed Circuit Board

用水强度数值
0.079

分子：水指标
耗水量

分母
Water unit：Million Liter
Revenue unit：Million NTD

备注
We use this formula to calculate water intensity value (consumption per unit revenue):
Water intensity value= (Water consumed volume)/(Total revenue)
Water consumed volume refers to the whole quality of water that we used, and total revenue means our company's business income.

提交您的回复

您提交的回复的语种？
英语

请确认CDP应该如何处理您的回复

	我明白我的回复将与所有发出邀请的利益相关者共享	回复许可
请选择您要提交的选项	是	公开

请表明您同意CDP与太平洋研究院分享您的联系信息，以表示对其水资源行动中心网站内容的支持。
是的，CDP可能会与太平洋研究院共享我们主用户的联系信息

请阅读并接受CDP的条款和条件
我已阅读并接受条款