

CDP 水セキュリティ質問書 2023 へようこそ

W0.はじめに

W0.1

(W0.1) あなたの組織の概要および紹介文を記入してください。

NEC was established on July 17 1899 by Kunihiko Iwadare and his colleague as Japan's first joint venture corporation with a foreign-capitalized company (Western Electric in the U.S.: current Alcatel-Lucent). NEC Group consists of NEC Corporation and its affiliate companies, mainly consolidated subsidiaries. NEC Group has five major business areas: Public Solutions Business, Public Infrastructure Business, Enterprise Business, Network Services Business, and Global Business. Affiliate companies take part in these businesses according to their roles, such as designing, development, manufacturing, sales, and offering of services.

The business outline is as follows.

Public Solutions Business: NEC provides IT systems and network systems to local governments, medical institutions, electric power companies and others, while operating branch offices throughout Japan and developing business closely related to each region.

Public Infrastructure Business: NEC provides governments, governmental agencies, broadcasting stations and others with social infrastructure, such as large-scale mission-critical systems and network systems that enable people to live with peace of mind and comfort.

Enterprise Business: NEC provides IT solutions in manufacturing, retail and services, and finance in the private sector, helping customers to launch new services. We will resolve social issues and create value for customers through value chain innovation utilizing ICT assets as IoT and AI.

Network Services Business: NEC provides network control platform systems and operating services for operations management, along with equipment for network implementation. NEC's wealth of experience in large-scale network implementation and strong technical capabilities help us contribute to the resolution of social issues by providing safe, reliable, and efficient high-value-added networks for the age of IoT through the creation of value with our clients and business partners.

Global Business: NEC provides biometric authentication solutions, software services for service providers, and large-scale energy storage systems for international markets. Utilizing advanced technologies related to AI and IoT, NEC contributes to solving social issues including the realization of safe, secure, efficient and fair communities.

W0.2

(W0.2) データの報告年の開始日と終了日を入力してください。

	開始日	終了日
報告年	4 月 1, 2022	3 月 31, 2023

W0.3

(W0.3) 貴社が操業する国/地域を選択してください。

アルゼンチン
 ブラジル
 カナダ
 チリ
 中国
 コロンビア
 デンマーク
 ドイツ
 ハンガリー
 日本
 フィリピン
 ポルトガル
 サウジアラビア
 シンガポール
 南アフリカ
 台湾、中国
 タイ
 トルコ
 グレート・ブリテンおよび北アイルランド連合王国(英国)
 米国
 ベトナム

W0.4

(W0.4) 回答全体を通じて財務情報の開示に使用する通貨を選択してください。

日本円(JPY)

W0.5

(W0.5) あなたの組織の事業への水の影響の報告にあたり、対象となる企業、事業体、グループの報告バウンダリ(境界)として最も当てはまるものを選択してください。

財務管理下にある企業、事業体、またはグループ

W0.6

(W0.6) このバウンダリで、本情報開示から除外される地域、施設、水に関する側面、その他の事項はありますか？

はい

W0.6a

(W0.6a) 除外されるものについて説明してください。

除外対象	説明してください
1. Small offices 2. Tenants without production facilities 3. Other facilities with an estimated water usage of 0.5% or less of the total	Small offices with approximately a few dozen employees, where the water usage of the facility is estimated to be 0.5% or less of the total, and tenants without production facilities that only use domestic water such as drinking water are excluded from the report. These facilities use water for WASH services only and do not use water for production purposes. It is estimated that the total water usage of the excluded facilities accounts for 7% of the Group's overall water usage. Locations with water risks such as data centers and manufacturing facilities are not subject to exclusion, and are included in this report.

W0.7

(W0.7) 貴社は、ISIN コードまたはその他の一意の識別子(Ticker、CUSIP など)を持っていますか。

貴社の固有 ID を提示できるかどうかについて示してください。	貴社の固有 ID を提示します
はい、ISIN コードを持っている	JP3733000008

W1.現在の状況

W1.1

(W1.1) あなたの組織の事業成功のためには、水質と水量はどの程度重要ですか?(現在および将来の)重要度をお答えください。

	直接利用の重要度評価	間接利用の重要度評価	説明してください
十分な量の良質の淡水	不可欠	重要	NEC uses freshwater mainly for cooling the equipment of production plants and air-conditioning. Freshwater is "vital" because if we are unable to use freshwater, we would be unable to carry out cooling of

<p>を利用できること</p>			<p>equipment and air-conditioning, resulting in a disturbance in production. In particular, we have 9 data centers in Japan and overseas, and expand its business. A large amount of cooling water is used in the data center to maintain the equipments. If this water is not available and the equipments stop, it will be a great damage to not only our business but also the customers using the data center. Therefore, sufficient amounts of a good quality freshwater is "vital".</p> <p>In terms of indirect usage, water is classified as "Important" since large amounts of water is used in the cleaning process of manufacturing semiconductors and liquid crystals, which are procured via a global supply chain and are vital components in products manufactured by NEC. Insufficient quantity and quality of water could hinder the production of semiconductors and liquid crystals, which could in turn disrupt procurement and adversely impact the production of NEC products.</p> <p>Future dependence on water is expected to remain unchanged for direct use and declining for indirect use. The reason is that NEC's main business is expected to be centered on the software business and service business, and the hardware product business is expected to shrink.</p>
<p>十分な量のリサイクル水、汽水、随伴水を利用できること</p>	<p>さほど重要ではない</p>	<p>さほど重要ではない</p>	<p>At some of the NEC Group's production plants, used fresh water is reused as reclaimed water for cooling facilities. In addition, wastewater reuse systems have been installed in restrooms and hot water supply rooms to reuse some of the wastewater in the facilities as gray water. The percentage of reclaimed water to total usage is low, and we expect this situation to remain unchanged in the future, so our reliance on it remains low.</p> <p>With regard to indirect use, NEC believes that the impact of the shortage of reclaimed water will be small. One reason for this is that NEC has been downsizing its hardware product business in recent years and shifting its core business to software product and service businesses. Since this trend is expected to continue in the future, NEC's dependence on recycled water is expected to remain low.</p>

W1.2

(W1.2) 水に関する以下の側面について、あなたの組織の事業全体でどの程度の割合を定期的に測定・モニタリングしていますか？

	操業地 / 施設 / 事業の比率 (%)	測定頻度	測定方法	説明してください

取水量 – 総量	100%	常時	The volume of renewable groundwater withdrawals is measured with the Hydrometer once a month. The volume of third-party sources is grasped with a bill sent to sites once every one or two months.	The total volume of water withdrawals is recorded at all sites. Approximately 70 percent of the total volume of water withdrawals is clean water (third-party sources), and the rest (30 percent) is renewable groundwater. Each site inputs the volume of water withdrawals into a database once every two to six months. The total volume used in the whole NEC Group is aggregated once every six months.
取水量 – 水源別の量	100%	常時	The volume of renewable groundwater withdrawals is measured with the Hydrometer once a month. The volume of third-party sources is grasped with a bill sent to sites once every one or two months.	Water withdrawals – volumes by source 100% The total volume of water withdrawals is recorded at all sites. Approximately 70 percent of the total volume of water withdrawals is clean water (third-party sources), and the rest (30 percent) is renewable groundwater. Each site inputs the volume of water withdrawals into a database once every two to six months. The total volume used in the whole NEC Group is aggregated once every six months.
取水の水質	100%	常時	In accordance with the Building Sanitation Management Law, residual chlorine measurement is conducted once a week.	We prepare for risks by setting voluntary standards that are stricter than laws and regulations.
排水量 – 総量	100%	常時	The volume of water discharge is grasped with a bill that is sent to sites once every one or two months based on the sewer meter. Some sites that do not use the sewer meter are charged according to the total volume of water withdrawals minus the amount of evaporation from the cooling tower. The measurement and the report are conducted every day.	The total volume of water discharge is recorded at all sites. Approximately 80 percent of the drainage destination is sewerage systems (third-party destinations). The rest (20 percent) is rivers. The destination of almost all sites is one of these two. Each site inputs the volume of water discharge into a database once every two to six months. The total volume of water discharge in

			The volume of discharge into rivers is recorded with the flowmeter monthly.	the whole NEC Group is aggregated once every six months.
排水 – 放流先別排水量	100%	常時	The volume of water discharge is grasped with a bill that is sent to sites once every one or two months based on the sewer meter. Some sites that do not use the sewer meter are charged according to the total volume of water withdrawals minus the amount of evaporation from the cooling tower. The measurement and the report are conducted every day. The volume of discharge into rivers is recorded with the flowmeter monthly.	The total volume of water discharge is recorded at all sites. Approximately 80 percent of the drainage destination is sewerage systems (third-party destinations). The rest (20 percent) is rivers. The destination of almost all sites is one of these two. Each site inputs the volume of water discharge into a database once every two to six months. The total volume of water discharge in the whole NEC Group is aggregated once every six months.
排水 – 処理方法別排水量	100%	常時	The total volume of water discharge from production facilities is recorded by water discharge meter once every six months as the volume that has to be treated.	We can grasp the total volume of water discharges at non-production facilities, since water is used for domestic use only and is drained to the sewer without the need for in-house water discharge treatment. Production facilities need to treat effluent.
排水の質 – 標準的排水基準別	100%	毎日	We measure pH using a pH meter continuously and ensure that treatment is properly conducted.	Since water is used for domestic use only at non-production facilities, we believe that there is no problem in water discharge quality. At production facilities, effluent is properly treated with microorganisms or chemical agents to comply with the effluent standards. The pH of the water is monitored 24 hours a day, and an alert is automatically raised when abnormal values are detected. As the drainage will be intercepted when an abnormal value is detected, only completely treated effluent is discharged. A monthly report from each site is

				checked to make sure that proper treatment is conducted at all sites of the NEC Group.
排水の質 - 水への排出(硝酸塩、リン酸塩、殺虫剤、その他の優先有害物質)	100%	常時	We take water samples and ask the analysis center to measure the concentration every week.	NEC measures the phosphorus concentration once a week. We referred to the wastewater measurement results of the plant described in the "water quality measurement analysis report". Phosphorus emissions to water were calculated by multiplying the average phosphorus concentration by the wastewater discharge. We always confirm that the standard value is not exceeded.
排水の質 - 温度	100%	常時	Monitoring of effluent temperature using thermometer is carried out once every one to six months according to the Sewerage Service Act, to make sure that the standards required by the Act are met.	The risk associated with effluent temperature is estimated to be low because we don't have any process that discharges high-temperature or low-temperature water.
水消費量 - 総量	100%	毎日	The volume of evaporation is measured by hydrometer attached to cooling tower every day. The calculated result is used for calculation of the volume of water discharge.	Most of water consumption is evaporation from the cooling tower. The total water consumption in the whole NEC Group is calculated as the difference between the volume of water withdrawals and the volume of water discharge recorded in the database, and reviewed once every six months. The data is collected by NEC group's environment related system called GGX and verified by a third party.
リサイクル水/再利用水	100%	毎月	The volume of the water recycled from the tank is constantly monitored by the flowmeter at each business site, and the volume of water is monitored every month.	Used water that will be reused is stored in a tank to be treated for recycling. The total volume of recycled water in the whole NEC Group is aggregated once every six months.
完全に管理された上下水道・衛生	100%	毎日	Chloride concentration, odor, color, etc. of the water provided to employees are measured and	Most of the water used by employees is clean water (third party sources), but some sterilized groundwater is also used.

(WASH) サービスを全従業員に提供		checked every day according to Water Supply Act.	We ensure that safe and high-quality water is provided to employees at all sites.
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W1.2b

(W1.2b) 貴社の事業全体で、取水、排水、消費した水の合計量、前報告年比、また今後予測される変化についてご記載ください。

	量(メガリットル/年)	前報告年との比較	前報告年との変化/無変化の主な理由	5年間の予測	将来予測の主な根拠	説明してください
総取水量	2,067	ほぼ同じ	事業活動の拡大/縮小	ほぼ同じ	事業活動の拡大/縮小	The amount of total water withdrawn was about the same as the previous year. Reasons for this include the impact of our business restructuring and the implementation of water reduction measures. From FY2023, we do not plan to increase the number of production companies, so we expect no significant increase.
総排水量	1,658	ほぼ同じ	事業活動の拡大/縮小	ほぼ同じ	事業活動の拡大/縮小	The amount of total water discharged was about the same as the previous year. Reasons for this include the impact of our business restructuring and the implementation of water reduction measures. From FY2023, we do not plan to increase the number of production companies, so we expect no significant increase.
総消費量	409	少ない	事業活動の拡大/縮小	ほぼ同じ	事業活動の拡大/縮小	The amount of total water consumed was less than the previous year. Reasons for this include the impact of our business restructuring and the implementation of water reduction measures. From FY2023, we do not plan to increase the number of production companies, so we expect no significant increase.

W1.2d

(W1.2d) 水ストレスのある地域から取水を行っていますか。また、その割合、前報告年比、今後予測される変化はどのようなものですか。

取水	水ス	前報	前報告年との変化/無変化の主な理由	5年	将来	確認に使ったツール	説明してください
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	は 水 ス ト レ ス 下 に あ る 地 域 か ら の 取 水 の 割 合 の も の で す	ト レ ス 下 に あ る 地 域 か ら の 取 水 の 割 合	告 年 と の 比 較		間 の 予 測	予 測 の 主 な 根 拠	
行 1	は い	1～ 10	ほ ぼ 同 じ	<p>その他、具体的にお 答えください</p> <p>Expanding the sites targeted for screening increased withdrawal rates due to more areas with water stress, but volumes at each site stayed unchanged from the previous year.</p>	ほ ぼ 同 じ	事 業 活 動 の 拡 大/ 縮 小	<p>世界資源研究所 (WRI)が発表した アキダクト (AQUEDUCT (水管、送水 路))</p> <p>The tool used for water risk assessment is WRI's "Aqueduct Global Maps 3.0 Data." We conduct a survey every year at Group companies with production sites in Japan and overseas. The items used for risk assessment are the overall water risk indicator, as well as specific indicators like flood risk and drought risk. We classify locations as being at risk if they have an assessed risk level of "Extremely High" or "High." However, we have determined that these sites have implemented adequate measures to address the identified risks. One of the main water risks for our company is flooding. In our production plant located in the Chao Phraya Basin in</p>

							<p>Thailand, which is one of the specific regions affected, a large-scale flood occurred in 2011.</p> <p>Additionally, Aqueduct currently indicates that this region has a "High" water risk in terms of riverine flooding. The risk of untreated wastewater being directly discharged into sewage is assessed as "High," and the risk related to water withdrawal is assessed as "Extremely High."</p> <p>The government and local community in the industrial park where this plant is located have collaborated to install embankments and implement business continuity plan (BCP) measures. Sufficient training has been conducted, and water storage tanks have been installed.</p> <p>According to Aqueduct's risk assessment, other locations such as two sites in China and one site in the Philippines are also rated as "High." However, considering factors such as the absence of water usage for production purposes and the implementation of appropriate measures to address risks, the actual water risk is assessed as relatively low.</p> <p>Moving forward, the NEC Group will continue to conduct surveys using WRI's Aqueduct and engage in detailed discussions at the local level to better understand the situation. We aim to enhance water risk management and reduce water withdrawal volumes.</p>
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W1.2h

(W1.2h) 水源別の総取水量をお答えください。

	事業への関連性(relevance)	量(メガリットル/年)	前報告年との比較	前報告年との変化/無変化の主な理由	説明してください
淡水の地表水(雨水、湿地帯の水、河川、湖水を含む)	関連性がない				We do not use “Fresh surface water, including rainwater, water from wetlands, rivers, and lakes”, as a source of withdrawals, and do not intend to use it from now on as well.
汽水の地表水/海水	関連性がない				We do not use “Brackish surface water/seawater”, as a source of withdrawals, and do not intend to use it from now on as well.
地下水 - 再生可能	関連する	985	ほぼ同じ	事業活動の拡大/縮小	It is relevant and important as it accounts for 48 percent of all water withdrawal. The amount of water withdrawal was about the same as the previous year. Production volume increased slightly, but remained at the same level as last year due to ongoing water conservation and other water use reduction activities. We use groundwater for part of the production activity at Fuchu facility in Japan as cooling water and so on. From fiscal 2023, we do not plan to increase the number of production companies, so we expect no significant increase.
地下水 - 非再生可能	関連性がない				We do not use “Groundwater – non-renewable”, as a source of withdrawals, and do not intend to use it from now on as well.
随伴水/混入水	関連性がない				In the current process of production, produced/process water is not generated, and will not be generated in the future as well.
第三者の水源	関連する	1,081	ほぼ同じ	事業活動の拡大/縮小	It is important because it is public and accounts for about 52% of all water withdrawal. The amount of water withdrawal was about the same as the previous year. Production volume

					<p>increased slightly, but remained at the same level as last year due to ongoing water conservation and other water use reduction activities.</p> <p>In production systems, water is used as a coolant and other functions, and it is also used in such areas as restrooms and cafeterias.</p> <p>From fiscal 2023, we do not plan to increase the number of production companies, so we expect no significant increase.</p>
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W1.2i

(W1.2i) 放流先別の総排水量をお答えください。

	事業への関連性(relevance)	量(メガリットル/年)	前報告年との比較	前報告年との変化/無変化の主な理由	説明してください
淡水の地表水	関連する	288	少ない	事業活動の拡大/縮小	"Fresh surface water" is relevant, because wastewater of some factories are discharged to fresh surface water.
汽水の地表水/海水	関連性がない				There was no discharge to Brackish surface water / seawater in the past. There are no plans for that in the future.
地下水	関連性がない				There was no discharge to Groundwater in the past. There are no plans for that in the future.
第三者の放流先	関連する	1,370	ほぼ同じ	事業活動の拡大/縮小	<p>In fiscal 2022, 83 percent of discharge was to sewage systems. So "third-party destinations" are relevant.</p> <p>The amount of water discharge was about the same as the previous year. Production volume increased slightly, but remained at the same level as last year due to ongoing water conservation and other water use reduction activities.</p> <p>From fiscal 2023, we do not plan to increase the number of production companies, so we expect no significant increase.</p>

W1.2j

(W1.2j) あなたの組織の直接操業内で、あなたの組織が排水を処理する最高レベルを示してください。

	排水 する 処理 レベ ルの 事業 への 関連 性	量(メ ガリッ トル/ 年)	前報 告年 との 処理 済み 量の 比較	前報 告年 との 変化/ 無変 化の 主な 理由	この量 が適用 される 操業地/ 施設/操 業の割 合(%)	説明してください
三次 処理 (高度 処理)	関連 する	42	ほぼ 同じ	事業 活動 の拡 大/縮 小	1~10	<p>1. A rationale for the level of treatment applied to our discharge Wastewater from NEC is mainly domestic wastewater and air conditioning drain water. These contain contaminants such as phosphorus and nitrogen. Tertiary treatment is carried out to deal with contaminants such as phosphorus and nitrogen. Specifically, when wastewater treatment is required by the Water Pollution Control Law and local ordinances, NEC installs septic tanks and performs wastewater treatment (primary treatment + secondary treatment + tertiary treatment). As a result, phosphorus, nitrogen, etc. can be controlled below the standard value. For example, process wastewater related to cable production is filtered and neutralized at a regeneration treatment facility, and treated with activated carbon adsorption, nitrification, and denitrification. In addition, we are monitoring the pH value of the air conditioning drain water.</p> <p>2. Whether the company complies with any regulatory or voluntary standards Voluntary standard values are set based on the Water Pollution Control Law and prefectural ordinances. The results of the analysis indicate that the voluntary standard values are not exceeded.</p>
二次 処理	関連 性が ない					At NEC, we perform tertiary treatment in all cases where the need is recognized by laws and regulations. If there is no need, primary treatment is carried out or the wastewater is discharged directly

						into the sewage system. Therefore, there is no wastewater to be discharged to public watersheds at the level of secondary treatment. so it's not relevant.
一次処理のみ	関連する	244	少ない	事業活動の拡大/縮小	1~10	<p>1. A rationale for the level of treatment applied to our discharge Since it is a process wastewater related to the production of cables and may contain copper, physical treatment of suspended solids by sedimentation is carried out.</p> <p>2. Whether the company complies with any regulatory or voluntary standards Voluntary standard values are set based on the Water Pollution Control Law and prefectural ordinances. The results of the analysis indicate that the voluntary standard values are not exceeded.</p>
未処理のまま自然環境に排水	関連性がない					When discharging to public water bodies, we carry out some kind of wastewater treatment. Therefore, it is not relevant.
未処理のまま第三者に排水	関連する	1,370	ほぼ同じ	事業活動の拡大/縮小	81~90	<p>1. A rationale for the level of treatment applied to our discharge Domestic wastewater from many offices is discharged to third parties as sewage. Many of our office buildings and production sites send their wastewater to public sewage treatment plants. Some of our plants have Initial treatment systems. Working closely with public treatment plants, we make sure final discharge water to public water body is clean.</p> <p>2. Whether the company complies with any regulatory or voluntary standards Voluntary standard values are set based on the Water Pollution Control Law and prefectural ordinances. The results of the analysis indicate that the voluntary standard values are not exceeded.</p>
その他	関連性がない					There is no wastewater classified as "Other". Therefore, it is not relevant.

W1.2k

(W1.2k) 報告年における硝酸塩、リン酸塩、殺虫剤、およびその他の優先有害物質の水域への貴社の排出量について具体的にお答えください。

	報告年の水域への排出量(メートルトン)	含まれる物質のカテゴリ	説明してください
行 1	1,043.1	リン酸塩	<p>NEC measures the phosphorus concentration once a week. We referred to the wastewater measurement results of the plant described in the "water quality measurement analysis report".</p> <p>Phosphorus emissions to water were calculated by multiplying the average phosphorus concentration by the wastewater discharge.</p> <p>We always confirm that the standard value is not exceeded.</p>

W1.3

(W1.3) 貴社の総取水効率の数値を記入してください。

	売上	総取水量(メガリットル)	総取水量効率	予測される将来の傾向
行 1	3,313,018,000,000	2,067	1,602,814,707.30527	<p>In recent years, NEC has downsized its hardware product business and shifted its main business to software products and services, and its dependence on water is also on the decline.</p> <p>Since we do not plan to add more production companies in the future, we estimate that there will be no significant increase or decrease in water intake.</p>

W1.4

(W1.4) 規制当局により有害と分類される物質を含んだ貴社製品はありますか。

	製品が有害物質を含む	コメント
行 1	いいえ	Regarding chemical substances contained in products, NEC thoroughly complies the restrictions specified by the regulatory authorities. Specifically, we thoroughly ensure that prohibited substances are not contained and that designated substances are kept

	below designated level. Based on this, we believe that there are no products containing hazardous substances that cause water pollution.
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W1.5

(W1.5) 水関連問題に対し、貴社のバリューチェーンと協働していますか。

	エンゲージメント
サプライヤー	はい
その他のバリューチェーン・パートナー(例：顧客)	はい

W1.5a

(W1.5a) 水セキュリティへの影響に従いサプライヤーを評価していますか。

行 1

サプライヤーによる影響評価

はい、サプライヤーの影響評価を行っています

評価項目

河川流域の状況(例：水ストレスや上下水道・衛生(WASH)サービスへのアクセス)
 サプライヤーの水依存度
 サプライヤーの水利用可能性への影響度
 サプライヤーの水質への影響度

重大な影響を及ぼすと特定されたサプライヤー数

16

重大な影響を及ぼすと特定されたサプライヤーが全体に占める割合

1%未満

説明してください

NEC procures from approximately 10,000 suppliers. From those 10,000, first, with the perspective of relevance to NEC's business, we focused on primary suppliers for NEC. We then prioritized production bases that supply hardware parts to NEC, which are assumed to have a relatively large impact on water security. As a result we extracted approximately 2000 supplier sites. For each of these 2000 sites, an Aqueduct evaluation has been conducted. We checked the sites that locate in areas where the result of comprehensive risk assessment of Aqueduct is classified as "Extremely High", to identify the suppliers of potential significant impact on water security.

W1.5b

(W1.5b) 貴社のサプライヤーは、貴社の購買プロセスの一部として水関連要件を満たす必要がありますか。

	サプライヤーは特定の水関連要件を満たす必要があります
行 1	はい、サプライヤーは水関連要件を満たす必要がありますが、自社のサプライヤー契約には含まれていません

W1.5c

(W1.5c) 貴社の購買プロセスの一部としてサプライヤーが満たす必要がある水関連要件と、実施している準拠方法を具体的にお答えください。

水関連要件

総取水量の削減

この水関連要件に準拠することが義務付けられている、重大な影響を及ぼすサプライヤーの割合

100%

この水関連要件に準拠している、重大な影響を及ぼすサプライヤーの割合

26~50

この水関連要件の準拠をモニタリングするための仕組み

サプライヤーの自己評価

この水関連要件に準拠していないサプライヤーへの対応

維持して協働する

コメント

水関連要件

水質汚染関連目標の策定・モニタリング

この水関連要件に準拠することが義務付けられている、重大な影響を及ぼすサプライヤーの割合

100%

この水関連要件に準拠している、重大な影響を及ぼすサプライヤーの割合

76~99

この水関連要件の準拠をモニタリングするための仕組み
サプライヤーの自己評価

この水関連要件に準拠していないサプライヤーへの対応
維持して協働する

コメント

水関連要件

取水量削減目標の策定・モニタリング

この水関連要件に準拠することが義務付けられている、重大な影響を及ぼすサ
プライヤーの割合
100%

この水関連要件に準拠している、重大な影響を及ぼすサプライヤーの割合
26~50

この水関連要件の準拠をモニタリングするための仕組み
サプライヤーの自己評価

この水関連要件に準拠していないサプライヤーへの対応
維持して協働する

コメント

W1.5d

(W1.5d) その他の水関連サプライヤーエンゲージメントの詳細を記入してください。

エンゲージメントの種類

インセンティブの提供

エンゲージメントの具体的内容

水管理およびスチュワードシップをサプライヤー褒賞プログラムに組み込んでいる

数値ごとのサプライヤーの割合

1~25

重大な影響を及ぼすサプライヤーの割合

100%

エンゲージメントの根拠

Our engagement targets are the key suppliers (1,081 suppliers) that account for approximately 65% of our total procurement expenditure. We are initially focusing on these suppliers as they have a significant impact on our company and are more likely to drive behavioral changes, thereby enabling us to achieve faster CO2 reduction. In addition to approximately 200 strategic suppliers within the NEC Group (suppliers with significant procurement amounts, key suppliers for each product category, and suppliers of rare parts are collectively referred to as strategic suppliers), our key suppliers also include around 800 other suppliers. Based on this, in FY2022, NEC conducted its own sustainability document survey targeting the aforementioned key suppliers. The survey focused on five themes: environment, human rights, occupational health and safety, fair trade, and ethics. Regarding water risk management, we requested reports on actual efforts to reduce water intake and discharge, as well as the mechanisms in place to address water-related issues when they arise.

As an incentive for suppliers, we rank the survey results on a five-point scale and provide feedback to the suppliers based on the survey results. In addition to requesting corrective measures from each supplier as necessary, we have established a sustainability award system to incentivize reporting.

エンゲージメントの影響と成果の評価方法

In November 2022, we revised the Guidelines for Responsible Business Conduct in Supply Chains and made requests to our suppliers to enhance their environmental efforts, including water-related initiatives. On top of this, in the environmental survey conducted in FY2022, we assessed the following seven aspects of water risk, building upon the findings from the previous year.

- (1) Does your company aggregate and track its own water consumption?
- (2) Is there a mechanism in place to handle water-related issues?
- (3) Have there been any complaints related to water usage or sewage in the past three years?
- (4) Are measures being implemented to reduce water intake and discharge?
- (5) Do you know whether your company's sites are located on flood hazard maps published by the local government?
- (6) Is there a risk of flooding?
- (7) Do you have measures in place to ensure the survival of your business in the event of water usage restrictions?

The success of the survey is determined by surpassing the previous year's percentage of suppliers that have implemented measures to address items 1) and 4), which form the foundation of water-related initiatives. In terms of actual achievements, 50% of respondents implemented measures for 1) and 45% for 4) in the current fiscal year, exceeding the results from the previous year of 43% for 1) and 37% for 4). This indicates we have successfully achieved our targets. To incentivize our suppliers, we awarded one supplier with a Sustainability Award at the NEC Group's Strategic Supply Chain Partners Meeting. This recognition was given to the supplier who demonstrated the most outstanding contributions to NEC's business from an environmental perspective based on the survey results. Screening criteria for selecting the recipient of the award include questions related to water risk management, such as measures taken to reduce water intake and the presence of mechanisms to address water-related issues

when they arise.

The responses from the environmental survey are used to rate each supplier individually. Feedback sheets are created and sent to all suppliers who participated in the survey, and corrective measures are requested as necessary. In particular, for suppliers with unfavorable environmental performance results (low ratings), including for water risk, we provide opportunities for individual meetings to enhance engagement and address the issues more effectively.

コメント

W1.5e

(W1.5e) 顧客またはその他のバリューチェーン・パートナーとの水関連のエンゲージメント活動がある場合は、具体的にお答えください。

ステークホルダーの種類

顧客

エンゲージメントの種類

技術革新と協力

エンゲージメントの具体的内容

製品やサービスで水関連の影響を減らすための取り組みでのステークホルダーとの協働

エンゲージメントの根拠

The widespread droughts experienced globally in recent years have greatly impacted crop cultivation, making addressing water shortage an urgent priority in achieving sustainable agriculture.

As part of measures to address water shortage, the cultivation technique of low-volume, high-frequency irrigation has been widely recognized for its ability to reduce water usage while maintaining the optimal soil moisture level. However, due to the challenge of determining the optimal amount of water, which can change constantly, its adoption has been limited among farmers who manage vast and multiple fields, as it poses complex management and high workload.

To tackle this issue, NEC has partnered with Kagome and introduced the service of their agricultural ICT platform called CropScope.

Kagome is a company that aims to realize eco-friendly and highly profitable farming in the global cultivation of tomatoes for processing.

NEC has concluded a strategic partnership agreement and collaborated with Kagome because Kagome aims to achieve the same "sustainable agriculture" as NEC.

CropScope offers AI-based farming advice for low-volume, high-frequency irrigation, along with an automated irrigation control system that enables the detection of field anomalies.

By utilizing CropScope, NEC aims to promote environmentally friendly and highly

profitable farming for their customers by addressing the problem of water shortage in agricultural practices.

エンゲージメントの影響と成果の評価方法

In April 2022, NEC and Kagome collaborated to conduct a field trial of CropScope, an AgriTech solution, in farmland situated in Portugal.

To determine the success of this effort, we will compare water usage per harvest before and after using CropScope. As a result, if the amount of water after use is less, then you are successful.

Through simulations using digital twins, we achieved a significant reduction of approximately 15% in irrigation volume while increasing the harvest yield by about 20%. The successful outcome of this endeavor, which led to increased crop yield while minimizing water usage, showcases the valuable contribution made in reducing the water-related impact for customers.

Building upon the results obtained, NEC plans to expand the adoption of the CropScope service—which incorporates AI-based farming advice tailored for low-volume, high-frequency irrigation, and automated irrigation control features that alleviate workload—to the tomato processing markets in Europe, the Americas, and Australia.

NEC anticipates that its system sales will reach 10% of the estimated 100 billion yen in the European precision agriculture market.

European precision agriculture market size: 100 billion yen × Market share of 10% = 10 billion yen.

Furthermore, NEC aims to achieve 5 billion yen in revenue for its AgriTech business by 2025.

NEC will continue to drive efforts towards contributing to sustainable agriculture for customers worldwide through innovation and collaboration.

W2. 事業への影響

W2.1

(W2.1) 貴社は報告年内に、水関連で有害な影響を受けましたか。

いいえ

W2.2

(W2.2) 貴社は報告年に、水関連の規制違反を理由として罰金、法的命令、その他のペナルティを科されましたか。

	水関連規制に関する違反	コメント
行 1	いいえ	

W3.手順

W3.1

(W3.1) 貴社では、事業活動に関連し、水の生態系や人間の健康に有害となりうる潜在的水質汚染物質を、どのように特定、分類していますか。

	潜在的水質汚染物質の特定と分類	潜在的水質汚染物質の特定・分類方法
行 1	はい、潜在的水質汚染物質を特定・分類しています	<p>Whether a substance is a potential water pollutant or not is determined by whether it is a substance specified by the national government or the local government in the region where the business site is located. For example, "n-hexane extracts (animal and vegetable oils and fats)", "SS" and "BOD". Regarding standard values, we have established higher standards independently to manage water quality. For example, BOD is voluntarily managed with a standard that is 20% stricter than the standard of local governments.</p> <p>If it exceeds the "voluntary management standard" set by our company, it will be judged as a potential water pollutant that can be harmful to the water ecosystem and human health. Since the standards are based on the standards of the local government where the business site is located, the judgment standards will vary depending on the region.</p> <p>On the other hand, pesticides used on lawns and plants of NEC's business sites are not always subject to this management. Therefore, at business sites where pesticides are used, e.g. the sites that have green spaces, we conduct surveys of the surrounding ecosystems and appoint experts to understand the impact of pesticides. We are checking and considering countermeasures. These pesticides are managed at the stage of their use.</p>

W3.1a

(W3.1a) 事業活動に関連した中で、水の生態系や人間の健康に及ぶ潜在的水質汚染物質の悪影響を、貴社でどのように最小限に抑えているか説明してください。

水質汚染物質カテゴリー

殺虫剤

水質汚染物質と潜在的影響の説明

Neonicotinoids are a class of synthetic pesticides that are known for their high water solubility and systematic penetration into plant tissues. The insecticides have a prolonged residual activity, which reduces the need for frequent reapplication. These qualities have made them widely used worldwide for pest control.

However, ecological experts pointed out the impact on ecosystems such as insects.

Experts have shown that it affects the reproduction of the endangered Copera tokyoensis (scientific name).

The phenomenon risk of rare organisms was pointed out at NEC's business site, which is rich in nature.

バリューチェーン上の段階

直接操業

悪影響を最小限に抑えるための行動と手順

有害物質の削減または段階的使用停止

説明してください

NEC's rugby team, the NEC Green Rockets, utilizes the NEC Abiko Plant in Chiba Prefecture as their home base.

This facility includes a rugby field where weed and pest control activities are conducted using pesticides.

The Abiko Plant, however, is situated in an environmentally diverse area, featuring four ponds surrounded by numerous trees. Notably, this area serves as the habitat for an endangered species of dragonfly called the Omonosashi dragonfly (Copera tokyoensis), which we are actively engaged in conserving.

During the evaluation conducted in FY2021 on the impact of pesticides, it was discovered that the pesticides being used contained neonicotinoid substances that had adverse effects on the dragonfly habitat. Consequently, a decision was made to prohibit the use of pesticides containing neonicotinoid, effective FY2022. As an alternative, we have shifted to other pesticides that have a lower impact on the dragonfly population. NEC's indicator of success is that it has achieved zero contamination of neonicotinoids in pesticides.

We have already confirmed that there will be no contamination of neonicotinoids in pesticides in fiscal 2022 based on the purchase results of pesticides.

W3.3

(W3.3) あなたの組織では水関連のリスクの評価を実施していますか?

はい、水関連のリスクを評価しています

W3.3a

(W3.3a) 水関連のリスクの特定と評価の手順を最もよく表している選択肢を選択します。

バリューチェーン上の段階

直接操業

対象範囲

全部

リスク評価手順

環境リスク評価で水リスクが評価されます

評価の頻度

年 1 回

どの程度の将来のリスクまで考慮しているか

6 年以上先

使用したツールと手法の種類

市販のツール

国際的方法と規格

データベース

その他

利用しているツールと手法

世界資源研究所(WRI)が発表したアキダクト (AQUEDUCT (水管、送水路))

IPCC 気候変動予測

地域の行政機関データベース

社内的な方法

考慮した文脈上の問題

流域/貯水池レベルでの水利用可能性

流域/貯水池レベルでの水質

流域/貯水池レベルでの水源に関するステークホルダーの対立

人体の健康への影響

水関連規制枠組み

生態系と生息地の状況

全従業員のための適正に機能し安全に管理された上下水道・衛生(WASH)サービスへのアクセス

考慮したステークホルダー

顧客

従業員

投資家

地域コミュニティ

NGO

規制機関

サプライヤー

地方レベルでの水公益事業

河川流域/集水地におけるその他の水利用者

コメント

There are no particular comments.

バリューチェーン上の段階

サプライチェーン

対象範囲

全部

リスク評価手順

環境リスク評価で水リスクが評価されます

評価の頻度

年 1 回

どの程度の将来のリスクまで考慮しているか

6 年以上先

使用したツールと手法の種類

市販のツール

国際的方法と規格

データベース

利用しているツールと手法

世界資源研究所(WRI)が発表したアキダクト (AQUEDUCT (水管、送水路))

IPCC 気候変動予測

地域の行政機関データベース

考慮した文脈上の問題

流域/貯水池レベルでの水利用可能性

流域/貯水池レベルでの水質

全従業員のための適正に機能し安全に管理された上下水道・衛生(WASH)サービスへのアクセス

考慮したステークホルダー

顧客

従業員

投資家

地域コミュニティ

NGO

規制機関

サプライヤー

地方レベルでの水公益事業

河川流域/集水地におけるその他の水利用者

コメント

There are no particular comments.

W3.3b

(W3.3b) 貴社の直接操業およびバリューチェーンの他の段階における水関連のリスクの特定、評価、それへの対応に用いている、貴社のプロセスを具体的に説明してください。

	リスク評価アプローチの根拠	検討した文脈上の問題の説明	検討したステークホルダーの説明	リスク対応に関する意思決定プロセス
行 1	<p>NEC evaluates the impact of water pollution, water depletion, and flooding at each of our business sites and the supply chain.</p> <ul style="list-style-type: none"> Level of coverage: For our direct operations, we conduct evaluations across all of our facilities with prioritization on the production sites that has higher potential impact on water security. For our supply chain, we look through all the suppliers with prioritization on the first-tier suppliers and the providers of the hardware for our evaluation. Tools and methods used: We utilize Aqueduct published by the World Resources Institute, IPCC Global Climate Projections, and local government databases. In addition, we identify what kind of water 	<p>From the perspective of risks, we have determined that the following factors need to be considered and have included them as evaluation criteria: potential operational disruptions resulting from the continuous or interrupted availability of water; the impact of NEC's water usage on the surrounding area and its influence on other activities; the adverse effects of wastewater quality on the health of residents in the watershed and local ecological systems; the risk of operational shutdown orders due to violations of regional water-related regulations; and the health impacts on employees resulting from inadequate water, sanitation, and hygiene (WASH) services, which may</p>	<p>We consider and evaluate the following risks posed by stakeholders:</p> <ul style="list-style-type: none"> Employees: If employees experience health issues, production may halt, and we will be responsible for any resulting damages. Investors: Any disruptions to NEC Group's business activities could impact investor confidence, leading to a decline in stock prices and financial losses. Local communities: NEC sites adhere to more rigorous wastewater regulations than those required by the law or local ordinances. However, if poor-quality wastewater that does not meet legal standards is released from the premises, it could harm the surrounding community. NGOs: Any disruptions to our business activities 	<p>Based on "Aqueduct" and our own water risk management questionnaire, we identify water risks at each production base in Japan and overseas.</p> <p>The primary survey uses "Aqueduct". We understand the situation by dividing it into three categories: physical risks related to water volume, water quality, and wind and flood damage; regulatory risks such as tax reforms and policies related to water; and reputational risks related to corporate ESG behavior.</p> <p>The 2ndary survey, the results of the primary survey are compared with the perceptions of local production site managers. A survey will be conducted on 11 items, including past experience of difficulties in using water due to floods and droughts, preventive measures against physical risks, and measures to be taken in the event of floods or</p>

<p>risks exist at each production site based on our own proprietary water risk management survey. We first use Aqueduct for a primary survey. It helps us understand the situation by categorizing risks into three areas: water-related physical risks; regulatory risks associated with water-related taxation changes and policies; and reputational risks related to the company's ESG actions. In the secondary survey, we compare the results of the primary survey with the perceptions of local production site personnel. We conduct a detailed investigation on 11 aspects, including experiences facing physical challenges in water usage in the past due to water-related disasters such as floods or droughts, preventive measures against these physical risks, and strategies implemented during actual flood or drought events.</p>	<p>lead to operational disruptions.</p>	<p>could hinder our collaborative efforts with NGOs, such as initiatives in protecting rivers and aquatic organisms.</p> <ul style="list-style-type: none"> · Regulatory Authorities: Failure to comply with regulations may lead to the suspension of production lines or halt factory operations · Supplier: If water scarcity or deterioration of water quality affects the business activities of suppliers, it will also impact the business activities of the NEC Group. · Rural-level water supply: Water restrictions lead to coolant shortages, halting production lines and adversely impacting business operations. · Other water users at the river basin/catchment level: If poor-quality wastewater that does not meet legal standards is released from the premises, it could harm the health of water users and ecosystems in different areas. 	<p>droughts. After identifying potential water risks through primary and 2ndary survey, we will make a decision to implement further measures. The latest trends obtained from the risk survey cycle, which is repeated every year, are reflected as water security targets in the action plan of the "NEC Eco Action Plan" set by NEC as an environment-related target management tool. In this way, we incorporate responses to water risks into our business activities. When specific water risks such as floods and droughts that may have a significant impact on NEC's business become clear, countermeasures are deliberated and decided at the management meeting, and final decisions are made. is approved by the CEO.</p>
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W4. リスクと機会

W4.1

(W4.1) 貴社ではこれまで、事業に財務または戦略面で重大な影響を及ぼす可能性のある特
有の水関連のリスクを特定したことがありますか。

はい、直接操業とバリューチェーンの他の段階の両方で

W4.1a

(W4.1a) あなたの組織では、事業に及ぶ財務または戦略面での重大な影響を、どのように定
義していますか？

A definition of 'substantive financial or strategic impact' when identifying or assessing water-
related risks:

Financial and strategic impacts are defined as those that affect the profit or loss of the
organization. The impacts are those that hinder the achievement of business goals and the
acute and chronic events that hinder business continuity. For example, direct operations may
affect the continuation of operations of the company's data center, etc. and production in
factories, while those in the supply chain may affect the supply of parts required for production.

A description of the quantifiable indicator(s) used to define substantive financial or strategic
impact:

We determine that if there is a potential financial impact of One billion yen or more, it will be a
significant impact.

Quantitative measures used to identify material changes can be financial, such as sales or
operating profit, or strategic, such as deadlines or process delays.

In addition, regarding water management, changes in the water environment using WRI-
Aqueduct are also included in the indicators.

If the outcome of each risk item of WRI-Aqueduct is very high risk or high risk, we determine
that the facility can cause significant changes. In addition, we will conduct a questionnaire
survey of domestic and overseas production bases to understand more detailed risks and
countermeasures and confirm the existence of residual risks.

W4.1b

(W4.1b) あなたの組織の施設のうち、事業に財務または戦略面で重大な影響を及ぼす可能
性のある水関連リスクをもつ施設は、合計でいくつありますか？ またそれはあなたの組織
の施設全体のどの程度の割合を占めますか？

水リスク にさらさ れている 施設の総 数	これが相当 する会社全 体の施設の 割合(%)	コメント

行 1	1	1~25	In 2011, the factory in Thailand was severely damaged by the flooding of the nearby Chao Phraya River. The factory is a production base for network products and video equipment products, and if production stops due to flooding, it will affect business.
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W4.1c

(W4.1c) 河川流域別に、貴社の事業に重大な財務上または戦略上の影響を及ぼす可能性のある水関連のリスクにさらされている施設の数と割合はいくらですか。また、これらの施設に関連する、事業への潜在的影響とはどのようなもののでしょうか。

国/地域および河川流域

タイ

チャオプラヤー/Chao Phraya

水リスクにさらされている施設の数

1

これが相当する会社全体の施設の割合(%)

1~25

あなたの組織の世界全体での総収入に対し、潜在的影響下にあるものの比率(%)

1~10

コメント

In 2011, the factory in Thailand was severely damaged by the flooding of the nearby Chao Phraya River. The factory is a production base for network products and video equipment products, and if production stops due to flooding, it will affect business.

W4.2

(W4.2) あなたの組織の直接操業において、事業に対し財務または戦略面で重大な影響を及ぼす可能性があるとして特定されたリスクと、それへのあなたの組織の対応について、具体的にお答えください。

国/地域および河川流域

タイ

チャオプラヤー/Chao Phraya

リスクの種類と主なリスク要因

緊急性の物理的リスク

洪水(沿岸、河川、多雨、地下水)

主要潜在的影響

生産能力の減少または混乱

自社固有の内容の説明

NEC has a production site in Thailand. This factory was damaged by the 2011 floods in Thailand. At that time, we couldn't operate our own factory for about half an year, which reduced our production capacity and had a major impact on sales. Sales at the Thai site remain at less than 1% of NEC's total sales, but it is the factory that produces NEC's hardware products that are essential to NEC's business. By the 2011 floods in Thailand, in fiscal 2011, sales decreased by 20 billion yen and operating income decreased by 8 billion yen.

According to the WRI Aqueduct assessment, the region is still at high risk of flooding, and the impact of climate change is likely to increase meteorological disasters in the future, so it is likely that similar flood will occur in the future. Therefore, we are working together with the government and industrial complex to implement many flood countermeasures (such as installing large-scale water tanks and regularly reviewing BCPs).

期間

4～6 年

潜在的影響の程度

中程度

可能性

可能性が高い

財務上の潜在的影響額をご回答いただくことは可能ですか？

はい、単一の推計値

財務上の潜在的影響額 (通貨)

8,600,000,000

財務上の潜在的影響額 – 最小 (通貨)

財務上の潜在的影響額 – 最大 (通貨)

財務上の影響についての説明

(Potential financial impact)

Following the floods in Thailand in 2011, it took about six months to recover and resume operation. As a result, in fiscal 2011 sales decreased by 20 billion yen and operating income decreased by 8 billion yen.

The NEC Thai Factory is operated by NEC's group company (NEC Platforms, Ltd.).

Sales of NEC Platforms in 2022 are 360.1 billion yen. Assuming that NEC's Thailand factory shuts down operations for six months, based on past experience, it is assumed that NEC will lose 2.4% of sales of NEC Platforms, Ltd., and the loss is estimated at 8.6 billion yen.

リスクへの主な対応

事業継続計画を修正

対応の詳細

By using the flood simulation system developed by NEC based on the lessons learned from past floods, it is possible to grasp the risk areas of floods by simulation using past rainfall data, which is effective for creating hazard maps.

In addition, since simulations can be performed every hour for up to 7 days ahead, it is possible to contribute to mitigating damage by issuing warnings to dangerous areas before a flood occurs.

In fact, we conducted a demonstration experiment to predict the inundation area by utilizing the flood simulation system in Uttaradit Province in northern Thailand from 2015 to 2016.

To minimize the impact on our business, we have been continuously improving a business continuity plan (BCP) for large-scale flood disasters at our plant in Thailand. We conduct annual BCP rehearsals every year, including in 2022, to ensure a comprehensive understanding and regular updates. In case of emergencies like water shortage, we can seek support from the municipal government and Navanakorn Industrial Complex. Details of this response are follows:

- ・ Promote employees to understand BCP and update BCP measures every year since 2012 including in 2022
- ・ To prevent flooding, install water stop plates and water stop doors at bases, and stockpile sandbags in 2017
- ・ The power supply equipment is installed at a place 2.5m above the floor in 2017, and an emergency evacuation site for other equipment is secured.
- ・ Installation of water tanks and installation of water reclamation equipment in 2017
- ・ Set the order of priority for water use within the site since 2012
- ・ Wastewater is processed with primary treatment and discharged to the sewage of the industrial complex.
- ・ Conduct water quality tests regularly

In addition, the Thai government has implemented numerous measures to address flooding concerns, such as altering dam management and constructing embankments around the industrial zone.

対応の費用

10,000,000

対応の費用についての説明

It takes into account the personnel expenses related to responding to the water-related risks. We estimated 10 million yen (5 personnel x 2 million yen/person) . It includes man-hours to evaluate water-related risk and to develop and implement relevant

measures, such as conducting evaluation of the flood risk using risk assessment tools such as Aqeduct, conducting interviews with local offices, and discussing on countermeasures. Since physical measures have already been implemented, for example the floors have been raised and the equipment has been moved to the second floor in the past floods, the cost for these physical measures are not included in the cost estimation.

W4.2a

(W4.2a) 貴社のバリューチェーン(直接操業を超える)において、事業に対し財務または戦略面で重大な影響を及ぼす可能性があるとして特定されたリスクと、それへの貴社の対応について、具体的にお答えください。

国/地域および河川流域

タイ

その他、具体的にお答えください

River basins in Thailand

バリューチェーンの段階

サプライチェーン

リスクの種類と主なリスク要因

緊急性の物理的リスク

洪水(沿岸、河川、多雨、地下水)

主要潜在的影響

生産能力の減少または混乱

自社固有の内容の説明

NEC regards the risk of disruption of production functions in the Thai region due to flooding as an important risk.

The floods in Thailand in 2011 damaged the factories of our major suppliers, as did NEC Thai plant. As a result, it became impossible to procure hard disks and other electronic components necessary for manufacturing our products, which affected our production plans. For about half a year, we were unable to procure parts from suppliers and we were unable to operate our own factory in the area, which reduced production capacity and had a significant impact on sales. Specifically, it resulted in a decrease in sales of 20 billion yen and operating income of 8 billion yen in FY 2011.

Sales at the NEC Thai plant remain less than 1% of NEC's total sales, but it is a factory that produces hardware products that are essential to NEC's business. Suppliers located in Thailand supply 70% of the total procurement value of NEC's Thai plant. Each of the suppliers is important and indispensable for NEC, because if any part is missing to be supplied, it could not be replaced with any other parts and therefore the factory would not be able to manufacture the products.

Learning from the 2011 flood damage, NEC Platforms, Ltd. in Thailand, that operates NEC's Thai plant, has formulated a BCP in cooperation with a company that outsources logistics operations, and is conducting training. Specifically, we monitor information such as dam storage capacity and rainfall forecast provided by Navanakorn Industrial Complex. In addition, we have established a system to collect information from suppliers such as shipping companies, customs, shipping companies, and airlines in preparation for flood damage.

According to WRI Aqueduct's assessment, flood risk is still high in this area, and it is likely that similar floods will occur in the future, as weather disasters are expected to increase in the future due to the effects of climate change. For this reason, we are working together with the government and industrial parks to implement many countermeasures against flooding (installation of large-scale water tanks, regular review of BCP, etc.).

期間

4～6 年

潜在的影響の程度

中程度

可能性

可能性が高い

財務上の潜在的影響額をご回答いただくことは可能ですか？

はい、単一の推計値

財務上の潜在的影響額 (通貨)

8,600,000,000

財務上の潜在的影響額 – 最小 (通貨)

財務上の潜在的影響額 – 最大 (通貨)

財務上の影響についての説明

It is NEC's Thailand plant that receives supplies from suppliers in the region. We do not anticipate any significant impact on NEC sites in other regions. If it becomes impossible to procure parts used in electronic devices from suppliers in the region, NEC's Thai plant will have to shut down in the meantime. Therefore, the calculation of the impact amount assumes the shutdown of the Thai plant.

For NEC's Thai plant, suppliers in Thailand are important suppliers, accounting for 70% of the plant's total procurement amount. In addition, it is difficult to replace each supply from each supplier, and if the supply from one of the suppliers is interrupted and parts cannot be procured, it will be difficult for the Thai factory to manufacture products.

Therefore, it is assumed that production activity at the factory will be suspended, rather than reduced, until supplies from all suppliers are fully restored.

After the floods that occurred in Thailand in 2011, it took about half a year for the surrounding factory areas to recover and resume operations. Assuming that NEC Platforms' net sales of 360.1 billion yen (fiscal year ending March 31, 2023) will decline by 2.4% based on the impact of that time, it will result in a loss of approximately 8.6 billion yen.

リスクへの主な対応

直接操業

その他、具体的にお答えください

The flood simulation system

対応の詳細

By using the flood simulation system developed by NEC, it is possible to grasp the flood risk areas by simulation using past rainfall data, which is effective for creating hazard maps. Since simulations can be performed every hour for up to 7 days ahead, it can contribute to mitigating damage by warnings before a flood occurs. We conducted a demonstration experiment to predict the inundation area by utilizing the simulation system in Uttaradit Province in northern Thailand from 2015 to 2016.

The whole area including the location of NEC's Thai plant as well as NEC's suppliers was heavily damaged during the 2011 flood. Because of this, water risk countermeasures are advanced in this area such as reinforcing concrete piles 20 km around the embankment, raising the level by 1.5 m, and increasing the number of pump stations.

NEC participates in the Navanakorn Industrial Complex meeting, which is held at least once every two months. Of the 200 companies in the industrial complex, about 50 Japanese companies including NEC's suppliers, participate in the meeting sharing information on water-related information e.g. the amount of water stored in dams and rainfall forecasts during the rainy season. Responses to the risk, such as making the first floor of the facility a parking lot and cafeteria, is shared and learnt across the companies of the region. Additionally, NEC conducts water security interviews every year including in 2022 with suppliers in high-risk areas. NEC asks suppliers what they do to water security, and evaluates the progress of countermeasures. In this way, NEC is collaborating with multiple local companies, including suppliers, to promote responses to water risks throughout the region.

NEC has conducted a 'milk run' for procurement from approximately 80 suppliers located within a 200km radius of NEC's Thailand plant. In the event of a water risk, we conduct advance deliveries and other measures according to the damage forecasts of suppliers. By installing GPS in logistics vehicles, we can check the delay status in real time and cooperate with suppliers in a timely manner. The 'milk run' had been in place before 2011, and the 2011 floods prompted us to strengthen our partnerships with suppliers and accelerate our efforts to prepare for emergencies.

Since 2011, we strengthened cooperation with suppliers and accelerated our preparations for water risk. NEC contributes to improving the water risk response level of local businesses, including suppliers.

対応の費用

10,000,000

対応の費用についての説明

It is personnel expenses for grasping flood damage risk every year using risk management tools such as Aqeduct. We estimated 10 million yen (5 personnel x 2 million yen/person) .

In addition, since the floors have been raised and the equipment has been moved to the second floor in the past floods, physical measures have already been implemented, so they are not included in this cost.

W4.3

(W4.3) あなたの組織ではこれまで、事業に財務または戦略面で重大な影響を及ぼす可能性のある水関連機会を特定したことがありますか？

はい、機会を特定し、一部/すべてを実現されつつあります

W4.3a

(W4.3a) 貴社の事業に財務または戦略面で重大な影響を及ぼす可能性のある、現在実現しつつある機会について、詳細を説明してください。

機会の種類

製品およびサービス

主な水関連の機会

既存の製品/サービスの売上増

自社固有の詳細と、機会実現の戦略

Reasons why this opportunity is considered strategic:

With climate change, disasters such as floods and landslides will increase. NEC offers disaster prevention solutions mainly in Japan using sensors, AI, and other IT technologies. A growing need for disaster prevention solutions has been observed with the increase in disasters, and it is considered important to strategically expand them overseas by leveraging our competitive advantages based on our track record.

Actions to realize the opportunities:

In Japan, we support disaster prevention measures including flood measures by local governments.

And, In order to create a track record overseas, we are implementing Proof of Concepts in Southeast Asian countries such as the Philippines, Indonesia, and Taiwan, and we are currently working to develop a system to promote know-how and business overseas.

Case study or example of ongoing strategies:

Specifically, since 2017, we have been supporting disaster prevention measures such as flood control in local governments in western Japan. We are conducting research on river water level prediction using AI. Analysis using AI based on meteorological data

such as water level data and rainfall will lead to highly accurate river water level prediction. In the future, this is expected to help promote early evacuation of residents before floods occur.

In addition, since 2021, the "IoT Street Light System" has been in operation in Sugunami-ku, Tokyo. In places where flood damage has occurred due to heavy rain in the past, flood sensors are installed on five IoT-enabled street lights to monitor road flooding.

At the World Economic Forum in January 2022, our CEO facilitated a workshop on adaptation to climate change.

Specifically, we appealed to world leaders about the possibilities of ICT on related points including:

- ・ The importance of using ICT to prevent damage from disasters related to water security, such as floods and landslides
- ・ How to promote countermeasures to loss and damage related to climate-related and water-related disasters

We are also continuously discussing these initiatives with the Japanese government.

機会実現までの推定期間

4～6 年

財務上の潜在的影響の程度

中程度

財務上の潜在的影響額をご回答いただくことは可能ですか？

はい、単一の推計値

財務上の潜在的影響額 (通貨)

1,800,000,000

財務上の潜在的影響額 – 最小 (通貨)

財務上の潜在的影響額 – 最大 (通貨)

財務上の影響についての説明

At the NEC Group, the Units for Public Business are engaged in businesses related to climate change. In addition, we believe that the measures undertaken in other countries will open up new business opportunities for the Global Business Unit. The sales of the Units for Public Business and the Global Business Unit amount to approximately 400 billion yen and 480 billion yen, respectively. At present, sales from the businesses mentioned above account for less than 0.1 percent of their overall sales, but we anticipate that heightened market needs in the next 4 to 6 years will be accompanied with an increase in sales. It is estimated the sales will triple in a period of up to 4 to 6 years, as it will require some time to reinforce capacity. The financial effect is expected to be approx 1.8 billion yen, which is double the current sales $\{(400 \text{ billion} + 480 \text{ billion}) \times 0.1\% \} \times 2 = 1.8 \text{ billion yen}$.

W5.施設レベルの水会計

W5.1

(W5.1) W4.1c で挙げた各施設について、地理座標、水会計データ、前報告年との比較内容を記入してください。

施設参照番号

施設 1

施設名(任意)

Thai Plant

国/地域および河川流域

タイ

チャオプラヤー/Chao Phraya

緯度

14.102434

経度

100.590175

水ストレス下にある地域にある

はい

当該施設における総取水量(メガリットル/年)

46.67

前報告年との総取水量の比較

多い

淡水地表水(雨水、湿地帯、河川および湖からの水を含む)からの取水量

0

汽水の地表水/海水からの取水量

0

地下水からの取水量 - 再生可能

0

地下水からの取水量 - 非再生可能

0

随伴水/混入水からの取水量

0

第三者水源からの取水量

46.67

この施設における総排水量(メガリットル/年)

46.67

前報告年との総排水量の比較

多い

淡水の地表水への排水

0

汽水の地表水/海水への排水

0

地下水への排水

0

第三者の放流先への排水

46.67

当該施設における水総消費量(メガリットル/年)

46.67

前報告年との総消費量の比較

多い

説明してください

'This facility's water intake is from city water and industrial water. All waste water is discharged into the public sewage system.

W5.1a

(W5.1a) W5.1 で挙げた施設について、第三者検証を受けている水会計データの比率をお答えください。

取水量 – 総量

検証率(%)

76~100

使用した検証基準

We have obtained a validation that is ISAE 3000 compliant.

取水 – 水源別取水量

検証率(%)

検証していない

説明してください

We have set our own standards for [Water withdrawals – volume by source] and are managing them. Therefore, we do not believe that third-party certification is necessary at this time.

取水量 – 標準水質パラメータ別の水質

検証率(%)

検証していない

説明してください

We have set our own standards for [Water withdrawals – quality] and are managing them. Therefore, we do not believe that third-party certification is necessary at this time.

排水量 – 総量

検証率(%)

76～100

使用した検証基準

We have obtained a validation that is ISAE 3000 compliant.

排水量 – 放流先別の量

検証率(%)

検証していない

説明してください

We have set our own standards for [Water discharges – volume by destination] and are managing them. Therefore, we do not believe that third-party certification is necessary at this time.

排水量 – 最終処理レベル別の量

検証率(%)

検証していない

説明してください

We have set our own standards for [Water discharges – volume by final treatment level] and are managing them. Therefore, we do not believe that third-party certification is necessary at this time.

排水量 – 標準水質パラメータ別の水質

検証率(%)

76～100

使用した検証基準

We have an independent local laboratory test the concentration and confirm that it meets the standards.

水消費量 – 総量

検証率(%)

検証していない

説明してください

We have set our own standards for Water consumption – total volume] and are managing them. Therefore, we do not believe that third-party certification is necessary at this time.

W6.ガバナンス

W6.1

(W6.1) あなたの組織には水に関する企業方針がありますか？

はい、文書化した水に関する方針があり、公開している

W6.1a

(W6.1a) 貴社の水に関する企業方針の適用範囲と内容について、最もよくあてはまるものを選択してください。

	スコープ	内容	説明してください
行 1	全社的	水に対する事業の依存性の説明 水に対する事業の影響の説明 国際的枠組み、規格、広く認知されている水イニシアチブに対するコミットメント 汚染を防止、最小限に抑制、管理するためのコミットメント	NEC clearly states in its Environmental Policy its commitment to complying with environmental laws and regulations associated with business activities and preventing environmental pollution throughout the entire supply chain. The Policy also emphasizes the importance of procuring environmentally friendly products that do not contain hazardous chemicals, with the aim of reducing pollution risks. This commitment is applied across the entire NEC Group. Specifically, NEC establishes and implements ongoing and mid-term management targets, such as for reducing water usage, ensuring zero violations of water quality pollution regulations, complying with regulations on chemical substances in products, and conducting assessments and management of chemical substance usage. NEC ensures compliance with these targets across the entire Group. As one of the means to reduce water

<p>有害物質を削減または段階的に停止するためのコミットメント</p> <p>直接操業における取水量および水消費量を削減するためのコミットメント</p> <p>職場での安全に管理された上下水道・衛生(WASH)サービスに対するコミットメント</p> <p>水セキュリティについてステークホルダーを教育しキャパシティブルディングを行うためのコミットメント</p> <p>ウォータースチュワードシップおよび/または共同行動に対するコミットメント</p> <p>淡水生態系を保全するためのコミットメント</p> <p>規制順守にとどまらない、それ以上のコミットメント</p> <p>企業の水関連目標への言及</p> <p>水と衛生に対する人権の同意</p> <p>例えば気候変動によるなど、環境的相関の認識</p>	<p>usage, NEC has introduced internal water pricing and implemented facility investments considering the anticipated increase in future water costs.</p> <p>Additionally, NEC believes that products and services utilizing information and communication technology (ICT) provided by the company can contribute to resolving water-related issues for customers and for society as a whole. NEC aims to provide value through its business activities in support of these objectives.</p>
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W6.2

(W6.2) あなたの組織内では、水関連問題について取締役会レベルの監督が実施されていますか？

はい

W6.2a

(W6.2a) 取締役会における気候関連課題の責任者の職位を特定します(個人の名前は含めてはいけません)。

個人/委員 会の職位	水関連問題に対する責任
最高経営 責任者 (CEO)	<p>The President and CEO (Representative Director) of NEC holds direct responsibility for addressing water security and climate change issues. NEC regards the protection of water security and resolution of climate change issues to be of utmost priority. In this regard, the CEO assumes responsibility for the overall outcome of water pollution resulting from inadequate wastewater treatment and management, as well as its impact on the surrounding ecosystem.</p> <p>Moreover, given the significant impact of water resources on our business, we have prioritized the reduction of water usage by including it as a target in our Mid-term Environmental Plan.</p> <p>Measures to address water security and climate change issues are deliberated and decided by the Business Strategy Council, which promotes company-wide activities and policies through debate and information sharing by senior management. The final approval for these measures rests with the CEO.</p> <p>In October 2019, our offices in Japan experienced severe flooding due to a massive typhoon, resulting in extensive damage. In response to this incident, the CEO instructed the affected offices to implement a business continuity plan (BCP) against future flooding, effective from 2020. The executives have been diligently executing this directive to mitigate the risks associated with flooding and ensure the continuity of our operations.</p>
その他の 最高経営 層	<p>The Chief Supply Chain Officer (CSCO) is vested with the authority to oversee key areas, including the advancement of water management aligned with mid- to long-term environmental management targets.</p> <p>The CSCO is responsible for providing guidance on suitable wastewater treatment and water usage reduction measures, while also monitoring their progress and ensuring effective implementation.</p> <p>In 2021, upon discovering the harmful effects of pesticides used at the Abiko Plant on rare organisms, a decision was made by the CSCO to shift to alternative pesticides with lower environmental impact.</p>

W6.2b

(W6.2b) 水関連の問題に対する取締役会の監督に関する詳細を記入します。

水関連の問 題が予定さ れた議題と して取り上 げられる頻 度	水関連の 問題が組 み込まれ ているガ バナンス 構造	説明してください

<p>行 1</p>	<p>予定されて いる - 一部 の会議</p>	<p>実施と実 績のモニ タリング 企業目標 に向けて の進捗状 況のモニ タリング 大規模な 資本支出 の監督 企業目標 設定の監 督 従業員イ ンセンテ ィブの提 供 事業計画 の審議と 指導 企業責任 戦略の審 査と指導 主要な行 動計画の 審議と指 導 リスク管 理方針の 審議と指 導 戦略の審 議と指導 実績目標 の設定</p>	<p>With respect to environmental loads including water usage and the progress of reduction targets, a report is made to the Business Strategy Council etc. and this is made public. As for water, if it is recognized that there is the possibility of a major effect on business, then reports are made to the twice monthly Business Strategy Council and monthly Board of Directors, and the board members oversee the issue. At one lower level, the general manager of the Environmental Management Promotion Department holds the quarterly Environmental Management Promotion Council to consider the environmental load, including water usage, and manage the progress of reduction targets. The results of the meeting are reported to the director in charge of environmental issues. If necessary, the director in charge of environmental issues will report to the Business Strategy Council and the Board of Directors. When a situation occurs that could affect business, such as flooding, the Supply Chain Management Division forecasts the impacts and consider measures. These are reported to the Business Strategy Council and the Board of Directors for deliberation and action.</p>
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W6.2d

(W6.2d) 貴社には、水関連問題に精通した能力を持った取締役が 1 人以上いますか。

取締役が水関連問題に関する能力を持っています	水関連問題に関する取締役の能力を評価するために使用される基準
行 1 はい	The President (Representative Director) is responsible for spearheading comprehensive environmental, social, and governance (ESG) initiatives. With an extensive background as a member of the Board of Directors, the president brings over five years of experience in overseeing ESG matters, including environmental issues. As a key figure on the board, the president supervises the mid-term environmental plan, which includes targets related to water resources, and by overseeing the realization and progress of these targets, he demonstrates his ability to effectively manage not only water-related risks, but also business opportunities associated with water-related issues.

W6.3

(W6.3) 水関連の問題に責任を負う経営層レベルで最上位の職位または委員会を記入します(個人の名前は含めないでください)。

職位または委員会

最高経営責任者(CEO)

この職位における水関連の責任

- 水需要の今後の傾向の評価
- 水関連のリスクおよび機会の評価
- 水関連のリスクおよび機会の管理
- 水関連の定量的な企業目標の設定
- 水関連の企業目標に対する進捗状況のモニタリング
- 水関連問題の事業戦略への組み入れ

水関連問題に関して取締役会に報告する頻度

四半期に 1 回以上の頻度で

説明してください

The CEO serves as the president of NEC and is a member of the Board of Directors. When issues arise, that could significantly impact the NEC Group, the CEO is responsible for establishing a response policy and directing all relevant parties to develop risk and opportunity measures and plans. Additionally, during Business Strategy Council meetings with directors, the CEO receives reports on the company's environmental plan, which includes reduction targets and progress updates on water resources. The CEO oversees the development of specific targets and measures, including investment and cost plans, and also deliberates and provides guidance on

new business strategies to address water-related issues. For example, implementation status of climate change and water-related measures, assessment of future trends in water demand, additional costs and investments required, etc. In the past, we reported to the Board of Directors on how to deal with flood damage caused by large typhoons and on instructions.

W6.4

(W6.4) 水関連の問題の管理に関して、経営幹部レベルまたは取締役インセンティブを付与していますか？

	水関連の問題の管理に対してインセンティブを付与しています	コメント
行 1	はい	

W6.4a

(W6.4a) 水関連の問題の管理に関して、経営幹部レベル役員または取締役にどのようなインセンティブが付与されていますか(個人の名前は含めないでください)？

	インセンティブを得る資格のある役職	実績指標	貴社の水関連のコミットメントの達成度に対するインセンティブの提供	説明してください
金銭的褒賞	その他の最高経営層 CSCO(Chief Supply Chain Officer)	取水量の削減 - 直接操業排水水質の改善 - 直接操業水質汚染事故の削減 有害物質の削減	<ul style="list-style-type: none"> Details of commitment One of the priority items of the environmental medium-term management plan (NEC Eco Action Plan 2025), which includes water resource-related targets, is the achievement of a target to reduce water usage by 2% compared to FY2018, which is linked to incentives. Therefore, it can be said that appropriate measures are being formulated to achieve the goals, and that appropriate supervision is being carried out to see if they are being steadily implemented.	The mid-term environmental plan (NEC Eco Action Plan 2025), which sets annual targets until FY2025, includes annual targets for reducing water usage and preventing water pollution. For the reduction of water usage, the target is to achieve a 0.5% reduction in water usage globally across the NEC Group each year compared to the previous year. As for preventing water pollution, the goal is to thoroughly comply with wastewater quality regulations to ensure zero regulatory violations. The Chief Supply Chain Officer (CSCO) is responsible for achieving these targets, and the achievement of the targets is linked to the CSCO's performance evaluation (monetary reward). Environmental performance,

		たは 段階 的使 用停 止	office made a planned capital investment to reduce water consumption. Specifically, the introduction of a new module chiller to cool the heat source equipment in the facility has led to a reduction in the amount of cooling water used when other refrigerators are in operation. As a result, we were able to reduce water consumption by 9,334m3 in FY2019. In addition, in response to the significant achievement of the target, the reduction target for FY2023 and beyond has been significantly revised to set more ambitious targets.	including water-related initiatives, accounts for 4% of the performance rating.
非 金 銭 的 褒 賞	このインセンティブが与えられている者はいない			With respect to management of water-related issues, the senior management executives have only monetary reward. There is no non-monetary reward.

W6.5

(W6.5) あなたの組織では、以下のいずれかを通じて、水関連公共政策に直接的または間接的に影響を及ぼしうる活動に関与していますか？

はい、業界団体

W6.5a

(W6.5a) 公共政策に影響を及ぼそうとする直接的および間接的活動のすべてが、あなたの組織の水に関する企業方針/コミットメントに合致するものとなるよう、どのようなプロセスを実施していますか？

Environmental Management Department, which is promoting climate change and water risk measures, is placed as the organization of promoting the environmental consideration in the whole supply chain. The members of the Environmental Management Department are participating in the water quality and soil conservation measure committee operated by Japan Association of Industries and Environment (JAIE). JAIE is a public corporation organized by the membership of top Japan's leading industrial companies facilitating social consensus on harmony between industrial growth and environmental protection through the activities. The committees make comments and proposals from the standpoint of corporations, and make proposals regarding policy propositions regarding global water quality preservation, soil conservation, and other measures that utilize IT, from the standpoint of IT companies with

global operations. Therefore, our indirect activities that influence policy are consistent with our water policy.


Our employees participate in the committee and regularly share the content of the discussion internally.

In the unlikely event JAIE measures are found to have more impact on the environment and water risks than our standards, we will strive to be consistent by sharing our experiences and cases and making recommendations. NEC has also set water as an important theme in "NEC 2030VISION", and will continue to make efforts to have a positive impact on public policy in the water security field.

W6.6

(W6.6) 貴社は、水関連のリスクへの対応に関する情報を直近の財務報告書に含めましたか。

はい(任意で報告書を添付していただけます)

 有価証券報告書 2022 年度.pdf

W7.事業戦略

W7.1

(W7.1) 貴社の長期的・戦略的事業計画のいずれかの側面に水関連問題が組み込まれていますか。もしそうであれば、どのように組み込まれていますか。

	水関連の問題は組み込まれていますか。	長期的な対象期間(年)	説明してください
長期的な事業目的	はい、水関連の問題が組み込まれている	30 年超	<p>1. Water issues being considered: In FY2017, NEC has formulated the "Climate Change Policy Guidelines for 2050," under which we aim to provide IT solutions to help customers and society adapt to the impacts of climate change. This includes adaptation to future water-related risks such as business outages due to floods. In addition, "contributions to water security" is one of main themes in "NEC Vision 2030" announced in May 2021.</p> <p>2. Examples of actions actually taken: A policy is set out in the plan highlighting the use of IT solutions to address water-related issues. NEC has various solutions that use AI, IoT and other ICT technologies to support countermeasures for water-related disasters, such as its river flood prediction system, landslide prediction and detection system, and</p>

			<p>coastal disaster simulation system.</p> <p>For example, we delivered an "IoT street light system" to Suginami Ward for real-time river monitoring and understanding of road flooding.</p> <p>By utilizing sensor technology, wireless network technology, and cloud-based management systems, we will contribute to ensuring the safety of residents and improving the work efficiency of city staff.</p> <p>Through provision of these solutions, NEC demonstrates its policy to provide the value of safety and security to society which in turn leads to our business growth.</p> <p>This policy is considered when developing the business strategies in each business unit and leads to the creation of new solutions.</p>
長期的目標達成のための戦略	はい、水関連の問題が組み込まれている	21-30	<p>1. Water issues being considered:</p> <p>The "Climate Change Countermeasure Guidelines for 2050" formulated by NEC in FY2017 stipulates cooperation with suppliers and continuous creation of new solutions in climate change adaptation measures including water countermeasures.</p> <p>Specifically, we assess the impact of climate change risks such as water scarcity and flood risk, including the global supply chain, and work with our suppliers to develop and review BCP measures on a regular basis. In addition, for the stable supply of water, we will actively utilize new innovations from the perspective of preparing for safety and security against the climate change.</p> <p>For more specific plans, we have set "NEC Environmental Target 2030" and "NEC Eco Action Plan 2025".</p> <p>This includes strategies to contribute to climate change action, such as providing IT solutions to combat water shortages and floods.</p> <p>2. Examples of actions actually taken:</p> <p>Specific targets are provided for using IT solutions to safeguard against water-related issues such as water shortages and floods. For example, we aim to widely deploy the flood simulation system tested in Thailand, and other IT solutions for which effectiveness has been verified, mainly in areas susceptible to climate change.</p> <p>In 2021, we launched a dedicated website to introduce customers to environmental solutions, including NEC's water-related solutions. We are promoting business so that we can provide it to more customers.</p>
財務計画	はい、水関連の問題が組み込まれている	21-30	<p>1. Water issues being considered:</p> <p>Under the 2050 Climate Change Mitigation Guidelines formulated in fiscal 2017, we are implementing countermeasures in cooperation with suppliers regarding water shortages and flood risks.</p> <p>It is stipulated that the know-how of these countermeasures will be used to create new solutions that support the stable supply of water and flood countermeasures.</p> <p>Our own water risk countermeasure plans and sales plans for solutions that support our customers' water risk countermeasures are reflected in our financial plans.</p>

		<p>2. Examples of actions actually taken: In order to promote our own water risk countermeasures from a financial standpoint, we have set water pricing so that capital investments that affect water use can be proactively switched to those that can further reduce water use. We make investment decisions by evaluating the increase in investment due to water risk countermeasures in comparison with future costs. For facilities that affect water usage, we have formulated an investment plan that takes into account renewal plans for aging measures, etc., and this is reflected in the financial plan, including water pricing. We also aim to expand sales by providing customers with our own initiatives as solutions. For example, the solution for wide-area deployment of the flood simulation system, which has been proven in Thailand, is included in the sales plan of the business division that provides it, and is reflected in the financial plan.</p>
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W7.2

(W7.2) 報告年におけるあなたの組織の水関連の設備投資費(CAPEX)と操業費(OPEX)の傾向と、次報告年に予想される傾向をお答えください。

行 1

水関連の設備投資費 CAPEX(+/- %)

0

次報告年の設備投資費予想 (変化+/- %)

100

水関連の OPEX(+/-の変化率)

0

次報告年の操業費(OPEX)(変化+/- %)

0

説明してください

・ CAPEX

The necessary capital investment in water treatment facilities has been completed in the past. Since there have been no major equipment changes in recent years, there are no changes compared to the previous year.

In the next reporting year (FY2023), we expect an increase in capital expenditures.

We plan to switch the water source for cooling water, etc. from tap water to well water at two data centers from the perspective of reducing water costs.

In addition, there is a plan to repair the filtration system of the industrial water equipment at the Tamagawa Plant, and we expect to remove it in 2023 and construct the equipment in 2024.

・ OPEX

There were no changes in equipment such as water quality testing, well maintenance, groundwater monitoring, etc., so there were no major changes compared to the previous year.

We do not anticipate any major changes in FY2023 either, as the equipment changes have not yet been completed.

W7.3

(W7.3) 貴社では、事業戦略を決定するためにシナリオ分析を用いていますか。

	シナリオ分析の使用	コメント
行 1	はい	<p>NEC conducts the following three steps in every year, and records and manages the results in aging: a) Investigate the latest domestic and foreign reports on climate change. b) Investigate the trend of carbon tax and climate change related regulations of each country, and revise to the latest information. c) Assess water risks using the latest version of AQUEDUCT, water risk mapping tools provided by World Resources Institute (WRI). Based on the latest domestic and foreign trends, we review risks and opportunities at each site, and reflect them onto business strategy.</p> <p>NEC's climate change scenario analysis used the 2°C and 4°C scenarios. In the 4°C scenario, the impact of natural disasters, including water related disaster, is expected to increase. As our own risk countermeasures, we are promoting stable operation of data centers and enhancement of BCP measures.</p> <p>To expand business opportunities, we are working to enhance disaster prevention solutions such as river water level monitoring.</p>

W7.3a

(W7.3a) シナリオ分析の詳細、どのような水関連成果を特定したか、また貴社の事業戦略にどのように影響を及ぼしたかについて説明してください。

使用したシナリオ分析の	パラメータ、仮定、分析的選	水関連の可能性のある成果の	事業戦略への影響
	択	説明	

種類			
<p>行 1 気 候 関 連</p>	<p>・ Analysis selection: We carried out water-related analyses using a 1.5°C scenario and a 4°C scenario. For the 1.5°C scenario, we referred to IPCC AR6 WG1 SSP1-1.9, IPCC 1.5°C Special Report, IPCC AR5 RCP2.6, and others. For the 4°C scenario, we referred to IPCC AR6 WG1 SSP1-8.5, IPCC AR5 RCP8.5, and others.</p> <p>Regarding water risks at production sites, after conducting screening using Aqueduct and interviews, we simulated floods based on past precipitation data using Gaia Vision's global river flood model and performed statistical analysis. Due to the fact that the analysis results roughly corresponded with the hazard maps of the Ministry of Land, Infrastructure, Transport and Tourism, and that it is utilized by over 200 research institutions worldwide as a standard technical model, NEC assessed the validity of this analysis method and decided to adopt it.</p> <p>NEC conducted quantitative analysis using this model from two perspectives: assessment of flood risks based on current climate conditions and scenario analysis based on the climate in the future. For the assessment based on current</p>	<p>Through collaboration across its business units, NEC assessed the impact of climate change in 2030 using the 1.5°C and 4°C scenarios. Under the 4°C scenario, the risk of water-related disasters like heavy rainfall, floods, and droughts would rise, emphasizing that NEC has to address contribution to disaster management and water efficiency measures. Even under the 1.5°C scenario, these water-related challenges would escalate by 2030.</p> <p>For business opportunities, from the analysis, NEC has re-recognized that NEC has potential opportunities to make use of its strength of technologies and solutions in disaster and water resource management.</p> <p>For business risks, we utilized Aqueduct to evaluate risks of our production sites and found that the plant in Thailand is located in an area prone to droughts and floods, prompting an investigation into this facility. Sales at the Thai base remain at less than 1% of NEC's total sales, but it is a base that produces hardware products that are essential to NEC's business. We collaborated with Gaia Vision, a startup affiliated with the University of Tokyo, to conduct high-resolution flood simulations for the 1.5°C and 4°C scenarios.</p>	<p>In the NEC 2030VISION, we commit to "Living harmoniously with the earth to secure the future" and strive to realize a sustainable global environment. We contribute to a sustainable global environment through business activities that visualize environmental impact and drive behavioral changes.</p> <p>Business Opportunities: (1) Development of disaster prevention solutions We actively develop disaster management solutions to achieve "zero casualties" through early prediction of abnormal weather and prompt evacuation guidance. Our objective is to detect vulnerabilities in national land and enhance disaster prevention measures, enabling the formulation and implementation of optimal construction plans by 2025. (2) Expansion of the AgriTech business through digital twins in agriculture Field trials in Portugal in 2022 resulted in a successful outcome, achieving a 20% increase in processed tomato harvest while reducing water usage by 15%. NEC aims to capture 10% of the estimated 100-billion-yen European precision agriculture market, projecting sales of 10 billion yen. In addition to this, looking ahead to 2025, NEC plans to</p>

	<p>climate conditions, we analyzed the depth of flooding categorized by the probability of occurrence, specifically for events that happen once every 10 years, 100 years, and 1000 years. In the scenario analysis based on the climate in the future, we analyzed scenarios for average temperature increases of +1.5°C and +4°C.</p>	<p>The results indicated that the depth of flooding in this area, with a once-in-a-hundred-year probability, is currently 0.6m, 0.7m under the 1.5°C scenario, and 0.8m under the 4°C scenario.</p>	<p>expand target regions and crops, intensifying efforts to address water shortage challenges in agricultural fields.</p> <p>Business Risks: NEC has already implemented measures to mitigate flood risks at its plant in Thailand, including the relocation of critical equipment to the second floor and the installation of a three-day water storage tank.</p>
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W7.4

(W7.4) 貴社では、社内ウォータープライシング（内部的価格付け）を実施していますか。

行 1

貴社では、社内ウォータープライシング（内部的価格付け）を実施していますか。
はい

説明してください

When making capital investment that has a significant impact on NEC's water usage, the cost impact is calculated using the expected change in water usage and internal water pricing.

W7.5

(W7.5) 貴社が現在製造や提供をしている製品やサービスの中で、水の影響を少なく抑えているものはありますか。

	<p>水資源の影響が少ないと分類した製品および/またはサービス</p>	<p>水に対する影響が少ないと分類するために使用した定義</p>	<p>説明してください</p>
<p>行 1</p>	<p>はい</p>	<p>The criteria is that customers can optimize the amount of water used by using the products / solutions provided</p>	<p>The following are examples of solutions that meet the criteria. < Agricultural ICT platform "CropScope" > Growth simulation is carried out based on</p>

	<p>by NEC compared to before use. Specifically, we optimize water usage using the following features:</p> <ul style="list-style-type: none"> - AI-based farming advice for providing the required water and fertilizer in small portions multiple times in order to maintain the optimum soil moisture content for the crop. - Automatic irrigation control function, which enables integration with irrigation equipment to remotely and automatically control the supply of water and fertilizer. 	<p>meteorological and soil data obtained from various sensors. Predicts the yield and the optimum harvest time, and realizes farming advice according to the land, optimization of the amount of water, fertilizer, and pesticide used, and maximization of the yield. In April 2022, we conducted a field test, implementing AI-based farming advice for water and fertilizer to test the effectiveness of the method of providing small portions of water and fertilizer multiple times. The tests proved successful in achieving a yield increase of approximately 20% while reducing irrigation by about 15% compared to a field that did not utilize CropScope. This result demonstrates the ability to enhance harvest yields with a reduced water requirement.</p>
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W8. 目標

W8.1

(W8.1) 貴社には水関連の定量的目標がありますか。

はい

W8.1a

(W8.1a) 水質汚染、取水量、WASH、その他の水関連カテゴリと関連する定量的目標があるか否かを教えてください。

	このカテゴリで設定された定量的目標	説明してください
水質汚染	はい	
取水量	はい	
上下水道・衛生 (WASH) サービス	いいえ、しかし今後 2 年以内に行う予定です	NEC Group business operations are primarily focused in Japan, and we have not expanded our operations in areas where considerations for water and sewage infrastructure and satellite management are lacking. Therefore, specific quantitative targets regarding WASH services have not been set thus far. Instead, our focus has been on reducing water usage and preventing pollution through wastewater management.

		However, regular water quality surveys are conducted as part of on-site management to ensure the proper provision of WASH services. Based on this situation, we plan to discuss and decide on adding this aspect to the management items of the mid-term environmental plan (NEC Eco Action Plan 2025) within the next two years. This is intended to appropriately disclose and ensure stakeholder understanding that WASH services are being provided adequately.
その他		

W8.1b

(W8.1b) 貴社の水関連の定量的目標およびそれに対する進捗状況を具体的にお答えください。

目標参照番号

目標 1

目標のカテゴリ

取水量

目標の対象範囲

全社で(直接操業のみ)

定量指標

総取水量の削減

目標導入年

2019

基準年

2018

基準年の数値

2,756,000

目標年

2025

目標年の数値

2,466,620

報告年の数値

2,067,000

基準年に対して達成された目標の割合

238.0952380952

報告年の目標の状況

達成済み

説明してください

The NEC Group's company-wide goal is to "reduce total water intake by 0.5% or more each year compared to FY2018, and as a result, reduce it by 3.5% (0.5%*7years) or more compared to FY2018 in 2025."

Aiming to achieve this goal, we are conducting activities at each base.

This goal was achieved in FY2021 and new goals are being considered.

目標参照番号

目標 2

目標のカテゴリー

水質汚染

目標の対象範囲

全社で(直接操業のみ)

定量指標

汚染物質の濃度低下

目標導入年

2018

基準年

2017

基準年の数値

52,955,000

目標年

2025

目標年の数値

52,425,450

報告年の数値

41,899,000

基準年に対して達成された目標の割合

2,087.8104050609

報告年の目標の状況

達成済み

説明してください

We set a target to reduce BOD and COD emissions in order to reduce environmental impact to the most minimal level possible.

The company-wide target of the NEC Group is set at "Reducing BOD and COD emissions by 1 percent or more compared with the fiscal 2017 level," and activities are being implemented at each facility.

NEC Group has achieved the target significantly.

W9. 検証

W9.1

(W9.1) あなたの組織の CDP 情報開示で報告したその他の水に関する情報(W5.1a で既に対象にされていない)を検証していますか?

はい

W9.1a

(W9.1a) 貴社の CDP 開示の中ではどのデータポイントを検証しましたか。また、どのような基準を使用しましたか。

開示モジュール	検証したデータ	検証基準	説明してください
W1 現状	water consumption	ISAE 3000	The NEC Group water withdrawal and discharge levels are assured every year by an external certification organization.

W10. プラスチック

W10.1

(W10.1) 貴社は、バリューチェーンのどこでプラスチックが使用/生産されているかをマッピングしたことがありますか。

	プラスチックのマッピング	説明してください
行 1	マッピングしたことはありませんが、今後 2 年以内に行う予定です	There is no doubt that plastic is used at each stage of the value chain, but we do not have a quantitative grasp of it.

W10.2

(W10.2) 貴社のバリューチェーンにおいて、プラスチックの貴社の使用/生産が環境や人体に及ぼしうる潜在的影響について評価したことはありますか。

影響評価	説明してください
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行 1	評価したことはありませんが、今後 2 年以内に行う予定です	Once the mapping is clarified, we plan to assess the potential impact on the environment and human impacts by referencing the literature.
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W10.3

(W10.3) バリューチェーンにおいて、貴社は金銭的または事業戦略面で重大な影響を及ぼす可能性のあるプラスチック関連リスクにさらされていますか。もしそうである場合、詳細をお答えください。

	リスクエクスポージャー	説明してください
行 1	評価したことはありませんが、今後 2 年以内に行う予定です	We will assess the financial impact after clarifying potential environmental and human impacts.

W10.4

(W10.4) 貴社にはプラスチック関連の定量的目標がありますか。ある場合は、どのような種類かをお答えください。

	定量的目標があるか	目標が適用されるエネルギー/電力の種類	目標指標	説明してください
行 1	はい	廃棄物管理	その他、具体的にお答えください Reduction rate of plastic waste emissions	We formulate and promote our own goals and action plans for reducing waste plastic emissions. Employees involved in design and development are conscious of the production and distribution stages and carry out design and development that reduces the use of plastic and the generation of waste plastic. Employees involved in product production and construction work to curb the generation of plastics used and waste plastics generated by improving efficiency and reducing waste in production processes and construction sites.

W10.5

(W10.5) 貴社が次の活動に従事しているか否かをお答えください。

	活動の適用	コメント
プラスチックポリマーの生産	いいえ	
耐久性のあるプラスチック部品の生産	いいえ	

耐久性のあるプラスチック製品の生産/商品化(混合材料を含む)	はい	Some products use plastic for the housing.
プラスチックパッケージの生産/商品化	いいえ	
プラスチックパッケージを使用する製品の生産	はい	IT equipment is shipped in anti-static packaging.
プラスチックパッケージを使用するサービスや製品の提供/商品化(例：小売や食品サービス)	いいえ	

W10.7

(W10.7) 販売した耐久性のあるプラスチック製品/部品の総重量とそれに含まれる原料を具体的にお答えください。

行 1

報告年に販売した耐久性のあるプラスチック製品/部品の総重量(メートルトン)

報告可能な各原料の内訳(%)

説明してください

W10.8

(W10.8) 販売/使用したプラスチックパッケージの総重量とそれに含まれる原料を具体的にお答えください。

	報告年に販売/使用したプラスチックパッケージの総重量(メートルトン)	報告可能な各原料の内訳(%)	説明してください
使用したプラスチックパッケージ			

W10.8a

(W10.8a) 貴社が販売/使用したプラスチックパッケージの循環性についてお答えください。

	循環性として報告可能な割合	説明してください
使用したプラスチックパッケージ		

W11.最終承認

W-FI

(W-FI) 補足したい場合は、本欄にあなたの組織の回答に関連すると考えられる追加情報や背景事情を記入してください。この欄は任意で、採点されないことにご注意ください。

W11.1

(W11.1) 貴社の CDP 水セキュリティ質問書に関する回答を最終承認した人物を具体的に教えてください。

	役職	職種
行 1	President&CEO	最高経営責任者(CEO)

回答を提出

どの言語で回答を提出しますか。

英語

貴社回答がどのような形で CDP に扱われるべきかを確認してください

	私は、私の回答がすべての回答要請をする関係者と共有されることを理解しています	回答の利用許可
提出の選択肢を選んでください	はい	公開

[ウォーターアクションハブ]ウェブサイトのコンテンツをサポートするため、CDP がパシフィック・インスティテュートと連絡先情報を共有することに同意してください。

はい、CDP はメインユーザーの連絡先情報を Pacific Institute と共有することが可能です

以下をご確認ください

適用条件を読み、同意します