

Welcome to your CDP Water Security Questionnaire 2022

W0. Introduction

W0.1

(W0.1) Give a general description of and introduction to your organization.

ENKA İnşaat ve Sanayi A.Ş., a company with its headquarters in İstanbul, Turkey, provides services in the following areas through its affiliated companies, foreign enterprise branches and jointly controlled entities:

- Engineering and Construction
- Power Generation
- Real Estate
- Trade

Founded in 1957, ENKA İnşaat ve Sanayi A.Ş. (ENKA) provides comprehensive services including design and engineering, procurement, construction, commissioning, operation, maintenance, and project management stages of all kinds of construction projects. Since its establishment, ENKA and its group companies successfully provide services all around the world, with the collective experience of completing projects in 48 countries, more than 20 thousand employees and machinery and equipment park of 4,159 items. Through the services it offers in various fields of activity, to date, ENKA has carried out 131 projects in Türkiye with a total contract value of USD 7.1 billion, and 425 projects abroad with a total contract value of USD 47.6 billion.



2021 is the fifth CDP reporting year for ENKA. The report's sections related to Energy Efficiency and Climate Change and Water Management cover the activities of ENKA Headquarters, six projects of ENKA İnşaat, Çimtaş Group companies (Steel, Pipe, Precision Machining, Module and Shipyard and Ningbo), ENKA Power (all power plants), ENKA Pazarlama and the units of ENKA Real Estate (CCI, ENKA TC, Mosenka, MKH, ENKA Invest) . Scope of the CDP reporting has been expanding each year and is planned to be expanded to cover all ENKA activities and subsidiaries in future reporting years.

W0.2

(W0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date
Reporting year	January 1, 2021	December 31, 2021

W0.3

(W0.3) Select the countries/areas in which you operate.

- Bahamas
- Kazakhstan
- Russian Federation
- Serbia
- Turkey

W0.4

(W0.4) Select the currency used for all financial information disclosed throughout your response.

- USD

W0.5

(W0.5) Select the option that best describes the reporting boundary for companies, entities, or groups for which water impacts on your business are being reported.

- Companies, entities or groups over which operational control is exercised



W0.6

(W0.6) Within this boundary, are there any geographies, facilities, water aspects, or other exclusions from your disclosure?

Yes

W0.6a

(W0.6a) Please report the exclusions.

Exclusion	Please explain
Exclusions are; -Some power plant and civil projects constructed by ENKA İnşaat in various countries where data availability is lacking. -Kasktaş Piling Company	Most of the water consumption/withdrawal, historically, is due to electricity generation facilities (three natural gas power plants) located in Turkey which are included in reporting. Excluded sources have minimum water use/dependence. The major water-consuming locations/facilities have been prioritized. For the construction projects, majority of the projects are reported. The boundary of reporting is planned to be expanded in future reporting years.

W0.7

(W0.7) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

Indicate whether you are able to provide a unique identifier for your organization.	Provide your unique identifier
Yes, an ISIN code	TREENKA00011
Yes, a Ticker symbol	Yes, a Ticker symbol ENKAI

W1. Current state

W1.1

(W1.1) Rate the importance (current and future) of water quality and water quantity to the success of your business.

	Direct use importance rating	Indirect use importance rating	Please explain
Sufficient amounts of good quality freshwater available for use	Vital	Important	<p>Primary use of freshwater is for cooling purposes in power plants. Lack of sufficient amount of water will affect efficiency of the plants and may cause disruption of operation due to safety reasons. In addition, ENKA has recently started building a hydropower project with build-operate-transfer model. Therefore, availability of water it is considered vital for ENKA's operations.</p> <p>Çimtaş's steel and pipe facilities also use freshwater for production operations as well. Investments are made for reducing dependency on freshwater such as recycling water, using sea water or improving monitoring of water consumption/withdrawal. Indirect water consumption exists due to concrete production and either raw material (steel, metals and chemicals) suppliers. Accessing good quality water is vital for suppliers providing concrete for construction projects and metal production.</p> <p>Availability of good quality freshwater is also important for ENKA's real estate operations where potable water should always be available for the use of tenants and visitors. ENKA does not have sufficient control on water sources because water for real estate locations are sourced from the municipality mains water network. However, due to the importance of water availability for operations, ENKA implements efficiency solutions and even rain runoff is collected.</p>

			For construction operations, water is used for sanitary and personal purposes mostly. However, in cases where sufficient good quality water is not available, solutions to replace these sources by transferring water from other locations (e.g. purchasing from third-party providers) exist.
Sufficient amounts of recycled, brackish and/or produced water available for use	Important	Not very important	Recycled/brackish water is also used for irrigation of green areas, roads to prevent dust formation, - after concrete casting processes and hydro tests of pipelines where possible. Usually, groundwater does not have good quality due pollution or salinity. In the absence of brackish water, fresh water needs to be provided which will be more costly and difficult to supply.

W1.2

(W1.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

	% of sites/facilities/operations	Please explain
Water withdrawals – total volumes	100%	Since ENKA undertakes operations that are in various locations of the world, both water scarcity and water abundance is encountered. This situation poses challenges in terms of water management and the way which water is supplied to the projects. In conditions where a water network system is not established, wells may be drilled for accessing to groundwater. In other cases, water supplied by the municipalities is used. All water usage, including withdrawal from surface/subsurface waters, water supplied by municipalities or water supplied / transported by third parties are regularly measured and 100% of the amount is recorded.
Water withdrawals – volumes by source	100%	Since ENKA undertakes operations that are in various locations of the world, both water scarcity and water abundance is encountered. This situation poses challenges in terms of water management and the way which water is supplied to the projects. In conditions where a water network system is not established, wells may be drilled for access to groundwater. In other cases, water that is supplied by the municipalities is used. All water usage, including withdrawal from surface / subsurface waters, water supplied by municipalities or water supplied

		<p>/ transported by third parties are regularly measured and 100% of the amount is recorded.</p> <p>For example, a water balance study is being developed for Morava Corridor Motorway Project located in Serbia, which reviews the project water withdrawal impact on the groundwater.</p>
Water withdrawals quality	100%	All water withdrawals are monitored in terms of quality and recorded where necessary.
Water discharges – total volumes	100%	All water discharge volumes are known, monitored and reported. In cases of mains water use (e.g. in HQ offices, schools etc.) we consider total water discharge the same as mains withdrawals.
Water discharges – volumes by destination	100%	All water discharge destinations are known, monitored, and reported.
Water discharges – volumes by treatment method	100%	<p>Parameters such as BOD, TSS, oil and temperature are monitored for relevant facilities (ENKA Power's İzmir Plant, Çimtaş Steel and all construction projects that discharge into receiving bodies).</p> <p>For power plants, temperature is most relevant parameter and is monitored continuously to ensure compliance with relevant regulations. Relevant articles of Water Pollution Control Directive (SKKY) or relevant local regulation are used for monitoring requirements. For thermal power plants, table 9.3 of SKKY is used for monitoring and results are reported to Ministry Environment and Urbanization.</p> <p>BOD, COD, TSS, and Oil is monitored in Çimtaş Steel and construction projects.</p> <p>Real estate operations in Russia are subject to strict regulations. Discharges from real estate locations are monitored closely both by ENKA and authorities. Oil monitoring is relevant for food courts and monitored closely to ensure oil traps are functional. Wastewater from high-risk tenants is collected separately.</p>

Water discharge quality – by standard effluent parameters	100%	<p>Parameters such as BOD, TSS, oil and temperature are monitored for relevant facilities (ENKA Power's İzmir Plant, Çimtaş Steel and all construction projects that discharge into receiving bodies).</p> <p>For power plants, temperature is the most relevant parameter and is monitored continuously to ensure compliance with relevant regulations. Relevant articles of Water Pollution Control Directive (SKKY) or relevant local regulation are used for monitoring requirements. For thermal power plants, table 9.3 of SKKY is used for monitoring and results are reported to Ministry Environment and Urbanization.</p> <p>BOD, COD, TSS, and Oil is monitored in Çimtaş Steel and construction projects.</p> <p>Real estate operations in Russia are subject to strict regulations. Discharges from real estate locations are monitored closely both by ENKA and authorities. Oil monitoring is relevant for food courts and monitored closely to ensure oil traps are functional. Wastewater from high-risk tenants is collected separately.</p>
Water discharge quality – temperature	100%	<p>Temperature is relevant for ENKA Power's natural gas power plants in İzmir, Adapazarı and Gebze. For internal monitoring, monthly samples are taken from discharge point and analysis are made as per table 9.6 of the SKKY (Water Pollution Control Directive). Also, a station exists at the discharge point for continuous wastewater monitoring system (SAIS). Analysis are also made as per table 9.6 of SKKY and values declared by Ministry of Environment Urbanisation and Climate Change and Regulation on 24/06/2015 every three months.</p>
Water consumption – total volume	100%	<p>Water consumed in each location, facility and process is monitored and reported. Process water is monitored in power plants directly. For other locations, total withdrawals – total discharges are used.</p>

Water recycled/reused	100%	ENKA recycles/reuses water in several facilities for many years. Starting from 2017, ENKA has initiated an incentive for reuse/recycling water in all facilities and monitoring all recycled/reused water in detail. Collected data will be analysed and used for target setting in next years.
The provision of fully-functioning, safely managed WASH services to all workers	100%	ENKA provides potable water to all of its employees, either by treating water in its own treatment plants in its operations or through procured water by authorized third parties. By regular sampling, testing and monitoring, ENKA ensures the quality of the water is within the applicable standards.

W1.2b

(W1.2b) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, and how do these volumes compare to the previous reporting year?

	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Total withdrawals	14,791.6	Much higher	<p>The comparison of data on water withdrawal in 2020 and 2021 presents a significant increase of approximately 10 times in the total water withdrawal. The main reason for this increase is that ENKA's Power Plants, at which there is a high-water consumption, were not active in 2020 but they have started operating in 2021. Most of the withdrawn (approx. 85%) water was sea water used in cooling of Izmir power plant.</p> <p>In addition to that, also the number of subsidiaries included in 2021 responses has been increased and more subsidiaries are included to the scope of this report compared with 2020.</p>
Total discharges	9,501.3	Much higher	<p>The comparison of data on water discharge in 2020 and 2021 presents a significant increase of approximately 10 times in the total water discharge. The main reason for this increase is that ENKA's Power Plants, at which there is a high-water discharge, were not active in 2020 but they have started operating in 2021. Most of the discharge (approx. 85%) water was sea water used</p>

			<p>in cooling of Izmir power plant.</p> <p>In addition to that, also the number of subsidiaries included in 2021 responses has been increased and more subsidiaries are included to the scope of this report compared with 2020.</p>
Total consumption	5,290.3	Much higher	<p>The comparison of data on water consumption in 2020 and 2021 presents a significant increase in the total water withdrawal. The main reason for this increase is that ENKA's Power Plants, at which there is a high-water consumption, were not active in 2020 but they have started operating in 2021. Most of the consumption (approx. 85%) water was sea water used in cooling of Izmir power plant.</p> <p>In addition to that, also the number of subsidiaries included in 2021 responses has been increased and more subsidiaries are included to the scope of this report compared with 2020.</p>

W1.2d

(W1.2d) Indicate whether water is withdrawn from areas with water stress and provide the proportion.

	Withdrawals are from areas with water stress	% withdrawn from areas with water stress	Comparison with previous reporting year	Identification tool	Please explain
Row 1	Yes	76-99	Much higher	WRI Aqueduct	The comparison of data on water withdrawal in 2020 and 2021 presents a significant increase of approximately 10 times in the total water withdrawal. The main reason for this increase is that ENKA's Power Plants, at which there is a high-water consumption, were not active in 2020 but they have started operating in 2021. Most of the withdrawn (approx. 85%) water was sea water used in cooling of Izmir power plant.

				<p>In addition to that, also the number of subsidiaries included in 2021 responses has been increased and more subsidiaries are included to the scope of this report compared with 2020.</p> <p>Izmir natural Gas Power plant is located in a high-water stress location and uses seawater demineralization for cooling. Most our facilities in Turkey, Russia's Moscow region and Kazakhstan and Serbia are classified as either high or medium-to-high risk. Our facilities in Russia's Tatarstan region and some facilities in Turkey, China and the Bahamas are classified as medium to low risk. Quantity of water withdrawn for all facilities are monitored constantly regardless of their water risks.</p>
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W1.2h

(W1.2h) Provide total water withdrawal data by source.

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Relevant	8.4	Much lower	The source of fresh surface water withdrawal is rain water. There are rainwater collection systems in ENKA's real estate subsidiaries ENKA Invest and ENKA TC and two subsidiaries in Turkey Çimtaş Precision Machining and Cimtaz Pipe.
Brackish surface water/Seawater	Relevant	12,837.2	Much higher	Sea water is only used for cooling demand in Izmir NG Power Plant. The comparison of data on water withdrawal in 2020 and 2021 presents a significant increase of approximately 10 times in the total water withdrawal. The main reason for this increase is that ENKA's Power Plants, at which there is a high-water consumption, were not active in 2020 but they have started operating in 2021.

Groundwater – renewable	Relevant	381.8	Higher	Groundwater is used for cooling and process water in Adapazarı and Gebze power plants and for process water in İzmir power plant. Çimtas and limitedly ENKA Pazarlama facilities also uses groundwater for process water. The main reason for this increase is that ENKA's Power Plants, at which there is a high-water consumption, were not active in 2020 but they have started operating in 2021.
Groundwater – non-renewable	Not relevant			All groundwater sources utilized by ENKA are considered renewable sources.
Produced/Entrained water	Relevant	94.7	This is our first year of measurement	ENKA's construction projects in Kazakhstan and NG power plant in İzmir uses produced water for its processes.
Third party sources	Relevant	1,469.5	Higher	Water demand in all ENKA facilities except its NG power plants, are mainly supplied through municipal water mains networks. The main reason for this increase was that the number of subsidiaries included in 2021 reports has been increased and more subsidiaries are included to the scope of this report compared with 2020. Finally, increase in the operations of projects and subsidiaries also reflected on the increase of water withdrawal.

W1.2i

(W1.2i) Provide total water discharge data by destination.

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Fresh surface water	Relevant	7.3	Much lower	The only source of discharge to freshwater body after treatment is İzmir Power Plant.

Brackish surface water/seawater	Relevant	8,032.1	Higher	Seawater used for cooling has increased significantly because of the increased cooling demand in İzmir NG Power plant. The power plant was not active in 2020 however started its operations in 2021.
Groundwater	Relevant	332.8	Higher	The main reason for this increase is that ENKA's Power Plants, at which there is a high-water consumption, were not active in 2020 but they have started operating in 2021.
Third-party destinations	Relevant	1,129.1	About the same	The main reason for this increase was that the number of subsidiaries included in 2021 reports has been increased and more subsidiaries are included to the scope of this report compared with 2020.

W1.2j

(W1.2j) Within your direct operations, indicate the highest level(s) to which you treat your discharge.

	Relevance of treatment level to discharge	Volume (megaliters/year)	Comparison of treated volume with previous reporting year	% of your sites/facilities/operations this volume applies to	Please explain
Tertiary treatment	Not relevant				There are no ENKA operations where tertiary treatment is required.
Secondary treatment	Relevant	8,127.36	Higher	21-30	Çimtaş operations and İzmir Power plant operations apply secondary treatment. Discharges from this location and treatment method are subject to significant increase, since the power plant started back its operations in 2021.

					Our construction projects where water is used for sanitary purposes are subject to secondary treatment where the discharge point are water bodies.
Primary treatment only	Not relevant				There are no ENKA operations where "only" primary treatment is required.
Discharge to the natural environment without treatment	Not relevant				
Discharge to a third party without treatment	Relevant	1,373.96	Higher	51-60	Wastewater discharges from office and residential locations, two power plants and construction projects (where the discharge point is not water bodies) are discharged into the sewage networks of local water authorities where they eventually end up in municipality water treatment facilities.
Other	Not relevant				There are no other ENKA operations where other types of treatment is observed.



W1.3

(W1.3) Provide a figure for your organization’s total water withdrawal efficiency.

	Revenue	Total water withdrawal volume (megaliters)	Total water withdrawal efficiency	Anticipated forward trend
Row 1	2,859,411,000	14,791.6	193,313.164228346	We are not expecting a major change, since the majority of the water withdrawal occurs as a result of the operations of ENKA's power plants. However, with the planned water efficiency initiatives across the group of companies, minor decreases are expected.

W1.4

(W1.4) Do you engage with your value chain on water-related issues?

- Yes, our suppliers
- Yes, our customers or other value chain partners

W1.4a

(W1.4a) What proportion of suppliers do you request to report on their water use, risks and/or management information and what proportion of your procurement spend does this represent?

Row 1

% of suppliers by number
76-100

% of total procurement spend
76-100

Rationale for this coverage

Within the scope of sustainability management and strategy, ENKA has started working closely with our vendors as well as with all its partners. In 2021, ENKA has reviewed its material sustainability issues and conducted online interviews and sent online questionnaires to its key stakeholders including the Sustainability Committee, customers, NGOs, subcontractors, business partners and suppliers. Additionally, the scope of environmental expectations of EGVN (ENKA Global Vendor Network) for vendors was widened. In 2021, 29% of suppliers were assessed in terms of Ethics, Human Rights, Anti-Bribery and Corruption, OHS, Environmental and Social issues. Transition to ISO 14001:2015 version was completed through the group. Life cycle approach which was emphasized specially in this version was shared with our vendors and the expectations were raised. The environment related questions on the Vendor evaluation forms are an important factor for vendor selection. Water related criteria are evaluated in detail in ENKA supplier selection. Questions raised for suppliers include; -Assessment of Environmental Management system in place -Existence of a water management plan -Legal permissions for water sourcing -Legal compliance for wastewater discharge -Existing policies on water efficiency product use, -Use of alternative sources (rainwater, treated water etc).

Impact of the engagement and measures of success

ENKA suppliers are classified as per the scope and size of the business volume. Long term subcontractors are required to submit full report on water management. Service and good suppliers are required to submit report within the scope of the service/good supplied. Audits are performed to ensure compliance with requirements. Results of audits are shared with suppliers and actions plans are developed and monitored for implementation. ISO14001 certificate is must for relevant existing or new suppliers. In recent years, significant progress have been made with suppliers in implementing prepared action plans for waste water and other wastes. Suppliers which can achieve compliance with prepared actions plans are not preferred in new projects.

Comment

W1.4b

(W1.4b) Provide details of any other water-related supplier engagement activity.

Type of engagement

Incentivizing for improved water management and stewardship

Details of engagement

Water management and stewardship action is integrated into your supplier evaluation

Water management and stewardship is featured in supplier awards scheme

% of suppliers by number

26-50

% of total procurement spend

51-75

Rationale for the coverage of your engagement

Water management is part of ENKA's Sustainability and HSE policy. ENKA knows the value of water and intends its suppliers to have the same approach via supplier management procedures. Requirements of the procedures are reflected in supplier contracts which also obliges suppliers to report their performance to ENKA periodically. Those reports are monitored and verified by ENKA during audits and site visits. Main parameters monitored are; -Monthly water withdrawal for each source.

-Monthly discharged volume for each discharge point.

-Monthly recycled/reused water volume -Periodic analysis on discharged water.

-Biological sensitivities in intake and discharge points.

Impact of the engagement and measures of success

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ISO14001 certificate is mandatory for relevant existing or new suppliers. In recent years, significant progress have been made with suppliers in implementing prepared action plans for waste water and other wastes. Suppliers which can achieve compliance with prepared actions plans are not preferred in new projects.

Comment

W1.4c

(W1.4c) What is your organization's rationale and strategy for prioritizing engagements with customers or other partners in its value chain?

Determining the needs and expectations of stakeholders and engaging them in business processes is of great strategic value and importance for improving performance in processes and activities, minimising risks and managing them effectively, reducing environmental impacts through an awareness of new developments in the company's fields of activity, shaping social investment efforts and collectively constructing a sustainable future. ENKA defines its stakeholders as the individuals, groups and organisations who affect, or are affected, directly or indirectly, by its activities, aims and policies, and by the decisions which it takes. In identifying the stakeholders who may influence its strategies and activities, or whom the activities it carries out may affect, the company makes use of criteria such as degree of impact, potential for impact, authority to represent individuals and institutions, degree of loyalty to the company and influence over company policies and targets.

Together with all its subsidiaries, ENKA has an extensive stakeholder network. In line with its overall understanding and principles of stakeholder engagement, the company maps its stakeholders and identifies channels for interacting with them. ENKA further groups its main stakeholders as employees, customers, business partners, shareholders, community stakeholders and public institutions. ENKA communicates regularly with its stakeholders in a spirit of openness, transparency and accountability. It informs them about its activities via various platforms and endeavours to obtain their opinions. Stakeholder engagement activities have played a determinant role in the identification of ENKA's sustainability strategy and actions. Also, ENKA encourages its suppliers and subcontractors to invest in water related initiatives.

W2. Business impacts

W2.1

(W2.1) Has your organization experienced any detrimental water-related impacts?

No

W2.2

(W2.2) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

No

W3. Procedures

W3.3

(W3.3) Does your organization undertake a water-related risk assessment?

Yes, water-related risks are assessed

W3.3a

(W3.3a) Select the options that best describe your procedures for identifying and assessing water-related risks.

Value chain stage

Direct operations

Coverage

Full

Risk assessment procedure

Water risks are assessed as part of an established enterprise risk management framework

Frequency of assessment

More than once a year

How far into the future are risks considered?

More than 6 years

Type of tools and methods used

Tools on the market

Enterprise risk management

Databases

Other

Tools and methods used

WRI Aqueduct

WWF Water Risk Filter

Regional government databases

Contextual issues considered

Water availability at a basin/catchment level

Water quality at a basin/catchment level

Stakeholder conflicts concerning water resources at a basin/catchment level

Water regulatory frameworks

Status of ecosystems and habitats

Access to fully-functioning, safely managed WASH services for all employees

Stakeholders considered

Customers

Employees

Investors

Local communities

NGOs

Regulators

Suppliers

Comment

ENKA undertakes a comprehensive company-wide water-related risk assessment as well as developing separate risk assessments for each of its projects involving its suppliers. Before the construction of projects, Environmental and Social Impact Assessment Reports are prepared by external consultants to identify potential impacts the project may have on the environment as well as defining water-related risks the project may pose.

Early Identification of Risks Committee and Risk Management Work Group, together with the help of Corporate and Project HSE Departments and Corporate Sustainability & Compliance Department also take the responsibility of determining the potential water-related risks and the necessary measures to be taken within the framework of ISO 14001:2015 Environmental Management Systems. As a part of ISO 14001:2015, Life Cycle Assessments of raw materials and waste are also taken into consideration.

ENKA provides potable water to all of its employees, either by treating water in its own treatment plants in projects or through procured water by authorized third parties. By regular sampling, testing and monitoring, ENKA ensures the quality of the water is within standards. Access to clean water and WASH services for all employees may be affected with water related risks.

Water related risks may cause increased operational costs, reduced efficiencies or disruption in activities. This may eventually affect the risk of investors. For construction projects, especially linear projects such as highways and pipelines that cover large and multiple regions, International Finance Institutions are very stringent on environmental and social requirements including impacts to water sources, habitats, ecosystems and local stakeholders. Detailed Environmental and Social Impact Assessment (ESIA) are conducted and projects are executed taking these into consideration.

In addition, biodiversity issues are considered by investors and ENKA as highly material due to Power Generation and Construction activities. Ground water consumption is always kept below allocated limits due to efficiency measures and target settings. At all discharge points, relevant pollutant parameters are closely monitored as several points in discharge line to ensure compliance with local regulations and prevent damage to ecosystems

Value chain stage

Supply chain

Coverage

Full

Risk assessment procedure

Water risks are assessed as part of an established enterprise risk management framework

Frequency of assessment

More than once a year

How far into the future are risks considered?

1 to 3 years

Type of tools and methods used

Tools on the market

Other

Tools and methods used

WRI Aqueduct

Materiality assessment

Other, please specify

Internal company methods

Contextual issues considered

Water availability at a basin/catchment level

Stakeholder conflicts concerning water resources at a basin/catchment level

Implications of water on your key commodities/raw materials

Water regulatory frameworks

Stakeholders considered

Customers

Local communities

NGOs

Regulators

Suppliers

Comment

ENKA undertakes a comprehensive company-wide water-related risk assessment as well as developing separate risk assessments for each of its projects involving its suppliers. Before the construction of projects, Environmental and Social Impact Assessment Reports are prepared by external consultants to identify potential impacts the project may have on the environment as well as defining water-related risks the project may pose.

Early Identification of Risks Committee and Risk Management Work Group, together with the help of Corporate and Project HSE Departments and Corporate Sustainability & Compliance Department also take the responsibility of determining the potential water-related risks and the necessary measures to be taken within the framework of ISO 14001:2015 Environmental Management Systems. As a part of ISO 14001:2015, Life Cycle Assessments of raw materials and waste are also taken into consideration.

Additionally, ENKA encourages its suppliers to perform their internal risk assessment and provides guidance when necessary.

Value chain stage

Other stages of the value chain

Coverage

Full

Risk assessment procedure

Water risks are assessed in an environmental risk assessment

Frequency of assessment

More than once a year

How far into the future are risks considered?

3 to 6 years

Type of tools and methods used

International methodologies and standards

Other

Tools and methods used

Environmental Impact Assessment
ISO 14001 Environmental Management Standard
Internal company methods
External consultants

Contextual issues considered

Water availability at a basin/catchment level
Stakeholder conflicts concerning water resources at a basin/catchment level
Implications of water on your key commodities/raw materials
Water regulatory frameworks
Status of ecosystems and habitats

Stakeholders considered

Customers
Employees
Investors
Local communities
NGOs
Regulators
Suppliers
Water utilities at a local level

Comment

ENKA implements extensive water risk assessments for its construction projects, especially for projects financed by IFIs. More specifically, extensive Environment and Social Risk Assessment studies are conducted with the help of external consultants where both environmental and social impacts of water should be considered in great detail.

A comprehensive environmental and social assessment is performed in all ENKA facility locations to identify potential risks and measures needed. For construction projects, especially linear projects such as highways and pipelines that cover large and multiple regions, involving

local communities in the stakeholder engagement process plays a crucial role in project financing and execution. Highly detailed Environmental and Social Impact Assessment (ESIA) are conducted and projects are executed taking these into consideration and local stakeholders are always consulted. For example, in the highway project undertaken in Serbia, flooding risks were taken into account and necessary precautions were taken. Extensive erosion protection was necessary due to the large floodplain of the specific river. Flood prevention measures, long river diversions, dykes and the construction of a new riverbed were amongst measures taken. Another example is the commitment made to find solutions with local stakeholders and experts for maintaining the quality of the vineyards where endemic grape species are grown within 100 meters of the dam reservoir. Similarly, to ensure the local fishery businesses are not negatively impacted during construction and operation phases, another commitment was made to relocate fish species to upstream locations within the river.

ENKA collaborates with NGOs on environment related issues and local issues. At all locations, ENKA communicates with NGOs, discuss their concerns about operations and collaborates to overcome any concerns and/or to contribute to local welfare.

W3.3b

(W3.3b) Describe your organization's process for identifying, assessing, and responding to water-related risks within your direct operations and other stages of your value chain.

ENKA undertakes a comprehensive company-wide water-related risk assessment as well as developing separate risk assessments for each of its projects covering its suppliers. ENKA Group companies undertake separate specific risk-assessments for individual sites such as power plants and residential and commercial buildings as well.

In the decision making stage of its investment projects, and prior to entering into a contract for its contracting works, ENKA assesses the social, environmental and economic impacts of the project. These assessments are detailed in the project preparation phase and actively revisited throughout the project life. Accordingly, ENKA conducts Environmental and Social Impact Assessments for its projects by external consultants to identify potential impacts the project may have on the environment as well as defining water-related risks the project may pose. If the project includes any environmental and social risk including water-related risks, an Environmental and Social Risk Management Plan is designed, implemented and monitored continuously during the lifetime of the project.

ENKA implement extensive water risk assessments for our construction projects. For example, in the highway project undertaken in Serbia, flooding risks were taken into account and necessary precautions were taken. Extensive erosion protection was necessary due to the large floodplain of the specific river. Flood prevention measures, long river diversions, dykes and the construction of a new riverbed were amongst measures taken.

Extensive Environment and Social Risk Assessment studies are conducted with the help of external consultants in especially in hydro power tenders where both environmental and social impacts of water needs to be considered in great detail. A national EIA study was conducted as well in Georgia to identify potential impacts on water sources at the project location and the catchment area.

Early Identification of Risks Committee and Risk Management Work Group, together with the help of Corporate and Project HSE Departments and Corporate Sustainability & Compliance Department also take the responsibility of determining the potential water-related risks and the necessary measures to be taken within the framework of ISO 14001:2015 Environmental Management Systems. As a part of ISO 14001:2015, Life Cycle Assessments of materials supplied and wastes produced are also taken into consideration. The risks are evaluated in terms of the financial and operational impacts they may have and dealt with accordingly.

For water related risk assessment, water scarcity and quality related risks are prioritized. Assets are located on water risk maps and their risks are evaluated with respect to water dependence, sensitivity to water quality and potential impacts on each asset.

W4. Risks and opportunities

W4.1

(W4.1) Have you identified any inherent water-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes, both in direct operations and the rest of our value chain.



W4.1a

(W4.1a) How does your organization define substantive financial or strategic impact on your business?

Any impact resulting in more than 1% increase in capex or causing more than 1% decrease in revenues are classified as substantive impact. Any impact, which may result in 1 day or longer disruption, or those that may constitute safety risk are strategic impacts. Probability, frequency and impact are taken into account when classifying an impact as substantive or not.

Power generation and industrial facilities are most critical assets vulnerable to water related risks. Construction projects may also be impacted by the water risks due to water scarcity, local community and other stakeholder concerns, environmental or other regulations. Prolonged water scarcity or low-quality water supply may result in substantive impacts ENKA’s multiple businesses.

Water scarcity and low quality (high salinity, temperature or polluted water) water will require additional investment for water treatment and supply increasing the capital expenditures or reduce the efficiency of power plants or lower product quality.

W4.1b

(W4.1b) What is the total number of facilities exposed to water risks with the potential to have a substantive financial or strategic impact on your business, and what proportion of your company-wide facilities does this represent?

	Total number of facilities exposed to water risk	% company-wide facilities this represents	Comment
Row 1	19	76-99	Facilities included in reporting boundary constitute a majority of the facilities and revenue streams of the company. Each manufacturing plant, leased asset, headquarters, power plant or construction site is considered as an individual facility. 21 facilities have been included in water risk assessment. 19 of these facilities are exposed to water risks with the potential to have a substantial financial or strategic impact on ENKA’s activities.

W4.1c

(W4.1c) By river basin, what is the number and proportion of facilities exposed to water risks that could have a substantive financial or strategic impact on your business, and what is the potential business impact associated with those facilities?

Country/Area & River basin

Turkey

Other, please specify

Marmara

Number of facilities exposed to water risk

6

% company-wide facilities this represents

26-50

% company's total global revenue that could be affected

11-20

Comment

ENKA İnşaat HQ

Enka Pazarlama

Çimtaş Steel

Çimtaş Pipe

Çimtaş Module & Shipyard

Çimtaş Precision Machining

Country/Area & River basin

Turkey
Other, please specify
Gediz

Number of facilities exposed to water risk

1

% company-wide facilities this represents

1-25

% company's total global revenue that could be affected

1-10

Comment

ENKA Power İzmir

Country/Area & River basin

Russian Federation
Volga

Number of facilities exposed to water risk

7

% company-wide facilities this represents

26-50

% company's total global revenue that could be affected

21-30

Comment

City Center Investment
Moskva Krasnye Holmy
ENKA TC
ENKA Invest
Mosenka
Nizhnekamsk Project
KOS Project

Country/Area & River basin

Turkey
Sakarya

Number of facilities exposed to water risk

2

% company-wide facilities this represents

1-25

% company's total global revenue that could be affected

1-10

Comment

ENKA Power Gebze
ENKA Power Adapazarı

Country/Area & River basin

Serbia
Danube



Number of facilities exposed to water risk

1

% company-wide facilities this represents

1-25

% company's total global revenue that could be affected

1-10

Comment

Serbia Morava Corridor Motorway Project

Country/Area & River basin

Kazakhstan

Other, please specify

Caspian Sea Coast

Number of facilities exposed to water risk

2

% company-wide facilities this represents

1-25

% company's total global revenue that could be affected

1-10

Comment

Tengiz Base Operations and Maintenance Works

Tengiz FGP 3GP Project



Country/Area & River basin

China

Other, please specify

Ningbo, Zhejiang, China Coast

Number of facilities exposed to water risk

1

% company-wide facilities this represents

1-25

% company's total global revenue that could be affected

1-10

Comment

Cimtas Ningbo

Country/Area & River basin

Bahamas

Other, please specify

Caribbean

Number of facilities exposed to water risk

1

% company-wide facilities this represents

1-25

% company's total global revenue that could be affected

1-10

Comment

Nassau Cruise Port Project

W4.2

(W4.2) Provide details of identified risks in your direct operations with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

Turkey

Other, please specify

Marmara

Type of risk & Primary risk driver

Chronic physical

Water scarcity

Primary potential impact

Increased operating costs

Company-specific description

ENKA Headquarters buildings, ENKA Pazarlama, and Çimtaş Pipe, Steel, Çimtaş Module & Shipyard and Çimtaş Precision Machining plants are located in the Marmara basin. The Marmara basin has a medium to high risk of water scarcity that may impact our operations. Çimtaş production facilities are impacted from low quality water in the basin which mandates investment in further treatment technologies or supplying water from other (more expensive sources).

Timeframe

1-3 years

Magnitude of potential impact

Medium-high

Likelihood

Likely

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

356,243,000

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

Due to low quality water availability in the region, Çimtaş plants supply water from more expensive sources. Financial impact figure indicates the total revenues of Çimtaş.

Primary response to risk

Adopt water efficiency, water reuse, recycling and conservation practices

Description of response

Çimtaş Pipe and Precision Machining have implemented the following water management responses: Increasing rainwater collection, efficient irrigation monitoring, daily monitoring of all consumptions leading to quick identification of leaks.

All Çimtaş group companies daily monitor all their consumptions and ensure there are no leaks in the systems. Process improvements and R&D works also considered.

Cost of response

1,500

Explanation of cost of response

Total cost of operational and capital expenses for description of response.

Country/Area & River basin

Turkey

Sakarya

Type of risk & Primary risk driver

Chronic physical

Water scarcity

Primary potential impact

Increased operating costs

Company-specific description

Gebze and Adapazarı Power plants are located in the Sakarya basin. High water risk in the region may impact our operations.

Timeframe

1-3 years

Magnitude of potential impact

Medium-high

Likelihood

Likely

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

527,000,000

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

Financial impact was given as the total revenues of our Gebze and Adapazari power plants in 2021. High risk of water scarcity in this region means that the power plant operations may be impacted. Natural Gas Power Plants need water for cooling and water scarcity may lead to shut down of operations.

Primary response to risk

Adopt water efficiency, water reuse, recycling and conservation practices

Description of response

ENKA Power has made an investment to generate fresh water for cooling from sea water in İzmir plant. However, our two plants in the Marmara region are not near the sea. Therefore we are investigating investment options to reuse/recycle waste water in process.

ENKA's Power Plants in Adapazari and Gebze produce demineralized water from groundwater and use it for electricity generation. In 2011, at the demineralized water production facilities of the power plants, an important step was taken in water management by conversion to the Reverse Osmosis system instead of the Ultrafiltration system. By this means;

- The commissioned Reverse Osmosis (RO) system extended the regeneration period by 5 to 20 times and thus the amount of used valuable and limited well water has been reduced.
- The amount of wastewater decreased due to decrease in water use.
- Consumption of hazardous chemical substances was decreased including hydrochloric acid (by 88%) and sodium hydroxide (by 91%).

In this way, 13% savings were achieved in 2021 compared to the amount of water used, if the reverse osmosis system was not used. To reduce

water consumption during the 27-month conservation period from 2019 to 2021 in Adapazarı and Gebze Power Plants, the product water of the demineralized water production facility was recycled to the reverse osmosis system and reused. With this study, the use of hydrochloric acid in the reverse osmosis system was reduced, the chemical washing intervals of the reverse osmosis system were extended, accordingly, the chemical consumption was reduced and the economic life of the system was extended. Within the framework of these efforts, 3,888 m³ of water was recycled in the system. In addition, closed-loop cooling system is used at ENKA's Power Plants for the supply of cooling water. This type of cooling system reduces the use of water resources since there isn't any continuous water withdrawal from the natural environment.

At ENKA's Power Plants, regular predictive and preventive maintenance activities are carried out to minimize water losses and leakages during both the production of demineralized water and generation of electricity and to use the water produced with maximum efficiency and positive contribution is made in terms of continuity of water resources.

Cost of response

3,000,000

Explanation of cost of response

Investment value.

Country/Area & River basin

Turkey

Other, please specify

Gediz

Type of risk & Primary risk driver

Chronic physical

Water scarcity

Primary potential impact

Increased operating costs

Company-specific description

Izmir NG power plant is most vulnerable asset located in this basin.

Timeframe

4-6 years

Magnitude of potential impact

High

Likelihood

Likely

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

270,400,000

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

Financial impact was given as the total revenue of our İzmir Power Plant in the Gediz basin in 2021. High risk of water scarcity in this region means that the power plant operations may be impacted. Natural Gas Power Plants need water for cooling medium and water scarcity may lead to shut down of operations.

Primary response to risk

Adopt water efficiency, water reuse, recycling and conservation practices

Description of response

We have invested in a water desalination plant in our İzmir Power plant, thus we are able to produce freshwater from seawater and use it directly in our operations, negating the risk for water scarcity in the region.

Surface water was used at the İzmir Power Plant from its establishment until 2011. Before shifting to the desalination system, approximately 250,000 m³ of water per year was withdrawn from the dam and used as raw water for fire protection water, domestic water and obtaining demineralized water. As a result of this process, more than 50 tons of sludge cake per year was being disposed.

Since the commissioning of a Desalination System at the İzmir Power Plant in August 2011, seawater which is a more sustainable water resource compared to surface water (a limited water resource) has been used. The sludge cake formed in the previous system and the need for its disposal are eliminated with the new system. With the desalination system, while the ion exchanger units switched to washing every 516 m³ of production in the old system, this amount increased to 10,000 m³. Thus, the consumption of hydrochloric acid and sodium hydroxide chemicals which were used in regeneration washings, was significantly reduced and also, the amount of demineralized water used for regeneration purposes was reduced by approximately 20 times.

At ENKA's Power Plants, regular predictive and preventive maintenance activities are carried out to minimize water losses and leakages during both the production of demineralized water and generation of electricity and to use the water produced with maximum efficiency and positive contribution is made in terms of continuity of water resources.

Cost of response

3,500,000

Explanation of cost of response

CAPEX for the desalination investment.

Country/Area & River basin

Russian Federation

Volga

Type of risk & Primary risk driver

Chronic physical
Declining water quality

Primary potential impact

Increased operating costs

Company-specific description

Most of the real estate assets are located in Moscow and Volga basin. Decreased water quality will make access to clean water more costly and capital intensive.

Timeframe

1-3 years

Magnitude of potential impact

Low

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

Primary response to risk

Engage with customers

Description of response

Monitoring discharge from leased assets, building new assets as per the green building standards.

Cost of response

Explanation of cost of response

Country/Area & River basin

Russian Federation

Volga

Type of risk & Primary risk driver

Regulatory

Regulation of discharge quality/volumes

Primary potential impact

Increased compliance costs

Company-specific description

ENKA's real estate operations in Russia are subject to water discharge limits mandated by the local water authority. Building waste water discharge declarations are sent to the water authority for each year and the authorities conduct quarterly inspections to make sure discharge limits are being observed. Operations are subject to fines if pollutants are above limits and fines can be multiplied in cases of repeat offences.

Timeframe

Current up to one year

Magnitude of potential impact

Low

Likelihood

Likely

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

400,000

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

The operations can be subjected to fines up to 100000 USD for repeat offences. ENKA has 4 operations subject to this specific regulation, therefore total risk is 400000 USD.

Primary response to risk

Improve monitoring

Description of response

Real estate operations implement specific wastewater control procedures. Devices such as oil separators are installed, in addition to other procedures like collecting wastewater from specific tenants separately (e.g. hairdressers).

Cost of response

83,000

Explanation of cost of response

Operational expenses for wastewater control procedures.

W4.2a

(W4.2a) Provide details of risks identified within your value chain (beyond direct operations) with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

Iraq
Tigris & Euphrates

Stage of value chain

Supply chain

Type of risk & Primary risk driver

Primary potential impact

Increased operating costs

Company-specific description

Suppliers of ENKA, in particular for construction/infrastructure projects in Middle East, face problems in access to water resources. Therefore, water is supplied from distant sources. This increases operational costs and supply risks (delay in water supply and cascading impact on other operations).

Timeframe

Current up to one year

Magnitude of potential impact

Low

Likelihood

Virtually certain

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

1,500,000

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

0.5% of total revenues.

Primary response to risk

Supplier engagement

Other, please specify

Supplier diversification

Description of response

Risks are either due to inadequate water availability or supply chain disruptions. Alternative water resources, suppliers and logistic options are considered for business continuity.

Cost of response

1

Explanation of cost of response

As % of total operational expenses.

Country/Area & River basin

Turkey
Other, please specify
Marmara

Stage of value chain

Supply chain

Type of risk & Primary risk driver

Reputation & markets
Negative media coverage

Primary potential impact

Company brand damage

Company-specific description

In addition to planned regulatory requirements on the horizon, also increased community awareness on water related issues (especially on water scarcity and pollution) creates new risks for the companies. ENKA, as an environmentally and socially responsible company, develops and maintains systems that fulfil legal requirement and also considers the stakeholder and community expectations. However operations of ENKA's suppliers may also affect the reputation of ENKA if they fail to perform in compliance with the standards they must adhere.

Timeframe

1-3 years

Magnitude of potential impact

Medium

Likelihood

Likely

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure - minimum (currency)

0

Potential financial impact figure - maximum (currency)

1,000,000

Explanation of financial impact

Estimation was made on considering the budget for investigation and consultancy processes.

Primary response to risk

Supplier engagement

Promote greater due diligence among suppliers

Description of response

ENKA performs assessment on while selecting its suppliers. In addition to this initial assessment, also regular performance evaluations are performed.

ENKA has published its Supplier Code of Conduct, which also provides guidance to its suppliers.

Cost of response

0

Explanation of cost of response

No additional costs.

W4.3

(W4.3) Have you identified any water-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes, we have identified opportunities, and some/all are being realized

W4.3a

(W4.3a) Provide details of opportunities currently being realized that could have a substantive financial or strategic impact on your business.

Type of opportunity

Efficiency

Primary water-related opportunity

Improved water efficiency in operations

Company-specific description & strategy to realize opportunity

The Samawa Combined Cycle Natural Gas Power Plant project is located in Iraq where water resources are critical. 72,840 m³ of water is required for the hydrostatic tests conducted in the project. A treatment system was developed in order to use reuse the water for hydrostatic tests. In this way, 83% of water saved.

Estimated timeframe for realization

Current - up to 1 year

Magnitude of potential financial impact

Low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

240,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact

Amount of water saved multiplied by the water purchasing price plus the savings from cost of chemicals used to prepare the water for the process.

Type of opportunity

Efficiency

Primary water-related opportunity

Improved water efficiency in operations

Company-specific description & strategy to realize opportunity

The package treatment plant, which was commissioned in May, 2020 for the treatment and reuse of toilet waters in the camp fields, allowed ENKA to save 13,780 m3 of water consumption in the Tengiz Oil Field Development Works Project, in 2021.

Estimated timeframe for realization

Current - up to 1 year

Magnitude of potential financial impact

Low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

26,800

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact

Amount of water saved in 2021 multiplied by the water purchasing price.

Type of opportunity

Products and services

Primary water-related opportunity

Increased sales of existing products/services

Company-specific description & strategy to realize opportunity

ENKA's engineering and construction experience in the region and its sustainability strategy leads the company to contract awards for the projects that provide benefit to the water resources or protect the quality of the water in regions with high water stress. The most current example is the PW2 project in Iraq. Detailed engineering, procurement, construction and commissioning works are being carried out for three water treatment unit lines, an oily wastewater tank, a control building, transfer pumps and all auxiliary systems within the scope of the Produced Water Facility (PW2) project in Iraq. Petroleum mixed with water comes out from the drilling wells in the project region. Petroleum-containing wastewater has many components, including primarily oil and grease, sulfide, metals and suspended and dissolved solids, depending on the area formation which it is extracted from and because of these substances, they pose a threat to the soil, water and air, and living organisms in particular. Under normal conditions, such wastewater is returned to the desert environment by the oil drilling or processing parties, whereas in this project the wastewater will be sent to the PW2 facility at which petroleum products and water will be separated to send the petroleum to the oil processing facility through a separate line. The sludge in the remaining water will be settled in tanks and will be separated as waste. Thus,

the remaining water can be returned to the system as recovered water and reused in the oil drilling process. By returning the water to the system again, it will be prevented to withdraw clean water from the river each time for the oil drilling process.

Estimated timeframe for realization

Current - up to 1 year

Magnitude of potential financial impact

Medium

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

30,000,000

Potential financial impact figure – maximum (currency)

60,000,000

Explanation of financial impact

An estimated annual revenue for one project was calculated for this section.

W5. Facility-level water accounting

W5.1

(W5.1) For each facility referenced in W4.1c, provide coordinates, water accounting data, and a comparison with the previous reporting year.

Facility reference number

Facility 1

Facility name (optional)

Çimtaş Çelik İmalat Montaj ve Tesisat A.Ş.

Country/Area & River basin

Turkey

Other, please specify

Marmara

Latitude

40.411346

Longitude

29.099122

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

35.24

Comparison of total withdrawals with previous reporting year

Lower

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

33.95

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

1.29

Total water discharges at this facility (megaliters/year)

15

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

15

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

20.24

Comparison of total consumption with previous reporting year

Lower

Please explain

Çimtaş Steel's water consumption has decreased slightly in 2021 due to the water efficiency projects.

Facility reference number

Facility 2

Facility name (optional)

Çimtaş Pipe İmalat Montaj ve Tesisat A.Ş.

Country/Area & River basin

Turkey

Other, please specify

Marmara

Latitude

40.407436

Longitude

29.109001

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

11.6

Comparison of total withdrawals with previous reporting year

Much lower

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0.39

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

11.21

Total water discharges at this facility (megaliters/year)

11.6

Comparison of total discharges with previous reporting year

Much lower

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

11.6

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

Much lower

Please explain

Çimtaş Pipe's water consumption has decreased in 2021 due to the water efficiency projects.

Facility reference number

Facility 3

Facility name (optional)

ENKA Pazarlama İhracat İthalat A.Ş.

Country/Area & River basin

Turkey

Other, please specify

Marmara

Latitude

40.83389

Longitude

29.321671

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

6.46

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0.45

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

6.01

Total water discharges at this facility (megaliters/year)

6.01

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0



Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

6.01

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

About the same

Please explain

Water is mostly used for sanitary purposes in offices and values remained almost the same.

Facility reference number

Facility 4

Facility name (optional)

ENKA Headquarters Offices

Country/Area & River basin

Turkey

Other, please specify

Marmara

Latitude

41.058568

Longitude

29.016148

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

6.02

Comparison of total withdrawals with previous reporting year

Lower

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

6.02

Total water discharges at this facility (megaliters/year)

6.02

Comparison of total discharges with previous reporting year

Lower

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

6.02

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

Lower

Please explain

Discharge is considered equal to water withdrawn in ENKA HQ. This is because ENKA HQ Operations only include office buildings and it is impossible to monitor discharges in real time. Therefore $W+C = D$ formula is utilized. The only reason for water use is sanitary purposes for regular everyday office use.

Facility reference number

Facility 5

Facility name (optional)

Çimtaş Precision Machining



Country/Area & River basin

Turkey
Other, please specify
Marmara

Latitude

40.40595

Longitude

29.108002

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

17.41

Comparison of total withdrawals with previous reporting year

This is our first year of measurement

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

1.04

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

16.37

Total water discharges at this facility (megaliters/year)

17.41

Comparison of total discharges with previous reporting year

This is our first year of measurement

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

17.41

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

This is our first year of measurement

Please explain

This facility has been included to the reporting for the first time.

Facility reference number

Facility 6

Facility name (optional)

İzmir Elektrik Üretim Ltd. Şti.

Country/Area & River basin

Turkey

Other, please specify

Gediz

Latitude

38.746445

Longitude

26.95805

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

12,952.97

Comparison of total withdrawals with previous reporting year

Much higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

12,837.2

Withdrawals from groundwater - renewable

29.59

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

86.18

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

8,039.4

Comparison of total discharges with previous reporting year

Much higher

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

8,032.1

Discharges to groundwater

7.3

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

4,913.57

Comparison of total consumption with previous reporting year

Much higher

Please explain

The power plant was not active in 2020, but started operating again in 2021. İzmir NG Power plant utilizes seawater for cooling and groundwater for regular everyday sanitary purposes. Our water consumption very low in 2020 because the plant did not run. Only routine maintenance activities were conducted.

Facility reference number

Facility 7

Facility name (optional)

Gebze Elektrik Üretim Ltd. Şti.

Country/Area & River basin

Turkey
Sakarya

Latitude

40.863926

Longitude

30.397573

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

211.87

Comparison of total withdrawals with previous reporting year

Much higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

211.87

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

211.87

Comparison of total discharges with previous reporting year

Much higher

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

211.87

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

About the same

Please explain

Groundwater is used for both cooling and WASH services in Gebze NG Combined Cycle Power Plant. Our water consumption very low in 2020 because the plant did not run. Only routine maintenance activities were conducted. In 2021, the power plant started its operations again.

Facility reference number

Facility 8

Facility name (optional)

Adapazarı Elektrik Üretim Ltd. Şti.

Country/Area & River basin

Turkey

Sakarya

Latitude

40.863926

Longitude

30.397573

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

105.93

Comparison of total withdrawals with previous reporting year

Much higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

105.93

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

105.93

Comparison of total discharges with previous reporting year

Much higher

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

105.93

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

About the same

Please explain

Groundwater is used for both cooling and WASH services in Adapazari NG Power Plant. Our water consumption very low in 2020 because the plant did not run. Only routine maintenance activities were conducted. Groundwater is used for both cooling and WASH services in Adapazari NG Power Plant. Our water consumption very low in 2020 because the plant did not run. Only routine maintenance activities were conducted.

Facility reference number

Facility 9

Facility name (optional)

City Center Investment B.V.

Country/Area & River basin

Russian Federation

Volga

Latitude

55.746968

Longitude

37.536749

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

145.7

Comparison of total withdrawals with previous reporting year

Higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

145.7

Total water discharges at this facility (megaliters/year)

145.7

Comparison of total discharges with previous reporting year

Higher

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

145.7

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

About the same

Please explain

Discharge is considered equal to water withdrawn in City Center Investment (CCI) because it is impossible to monitor discharges in real time. Therefore $W+C = D$ formula is utilized. Water withdrawals and discharge at CCI was decreased in 2020 to the impacts of the Covid-19 pandemic on demand for building services and working conditions (remote working etc.). In 2021, the operations started to get back to their pre-covid state and the increase in the water withdrawal and discharge occurred due to this increased operations.



Facility reference number

Facility 10

Facility name (optional)

ENKA TC Limited Liability Company

Country/Area & River basin

Russian Federation

Volga

Latitude

55.746686

Longitude

37.536488

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

507.19

Comparison of total withdrawals with previous reporting year

Higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0.696

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

506.49

Total water discharges at this facility (megaliters/year)

424.67

Comparison of total discharges with previous reporting year

Higher

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

424.67

Total water consumption at this facility (megaliters/year)

82.52

Comparison of total consumption with previous reporting year

Higher

Please explain

Mains water is used for WASH services in ENKA TC shopping malls. Water withdrawals and discharge at ENKA TC were decreased in 2020 to the impacts of the Covid-19 pandemic on demand for building services and working conditions (remote working etc.). In 2021, the operations started to get back to their pre-covid state and the increase in the water withdrawal and discharge occurred due to this increased operations.

Facility reference number

Facility 11

Facility name (optional)

Moskva Krasnye Holmy

Country/Area & River basin

Russian Federation

Volga

Latitude

55.733032

Longitude

37.644102

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

69.92

Comparison of total withdrawals with previous reporting year

Higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

69.92

Total water discharges at this facility (megaliters/year)

69.92

Comparison of total discharges with previous reporting year

Higher

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

69.92

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

About the same

Please explain

Discharge is considered equal to water withdrawn in Moskva Krasynye Holmy because it is impossible to monitor discharges in real time. Therefore $W+C = D$ formula is utilized. Water withdrawals and discharge were decreased in 2020 to the impacts of the Covid-19 pandemic on demand for building services and working conditions (remote working etc.). In 2021, the operations started to get back to their pre-covid state and the increase in the water withdrawal and discharge occurred due to this increased operations.

Facility reference number

Facility 12

Facility name (optional)

Nizhnekamskneftekhim Combined Cycle Gas Turbine Thermal Power Plant Project

Country/Area & River basin

Russian Federation

Volga

Latitude

55.613807

Longitude

51.947535

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

267.44

Comparison of total withdrawals with previous reporting year

Higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

267.44

Total water discharges at this facility (megaliters/year)

34

Comparison of total discharges with previous reporting year

Lower



Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

34

Total water consumption at this facility (megaliters/year)

233.44

Comparison of total consumption with previous reporting year

Higher

Please explain

Water consumption in 2021 was higher because Project's construction continued with operational increases in 2021, including hydrotests.

Facility reference number

Facility 13

Facility name (optional)

Kazan 250 MW Combined Cycle Power Plant (KOS)

Country/Area & River basin

Russian Federation

Volga

Latitude

55.787894

Longitude

49.123329

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

39.94

Comparison of total withdrawals with previous reporting year

This is our first year of measurement

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

39.94

Total water discharges at this facility (megaliters/year)

39.94

Comparison of total discharges with previous reporting year

This is our first year of measurement

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

39.94

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

This is our first year of measurement

Please explain

The project was included to the reporting scope for the first time.



Facility reference number

Facility 14

Facility name (optional)

Morava Corridor Motorway Project

Country/Area & River basin

Serbia

Danube

Latitude

44.016521

Longitude

21.005859

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

49.11

Comparison of total withdrawals with previous reporting year

This is our first year of measurement

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

49.11

Total water discharges at this facility (megaliters/year)

49.11

Comparison of total discharges with previous reporting year

This is our first year of measurement

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

49.11

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

This is our first year of measurement



Please explain

The project was included to the reporting scope for the first time.

Facility reference number

Facility 15

Facility name (optional)

Tengiz Base Operations and Maintenance Works

Country/Area & River basin

Kazakhstan

Other, please specify

Caspian Sea Coast

Latitude

46.149406

Longitude

53.391381

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

212.72

Comparison of total withdrawals with previous reporting year

Higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

7.2

Withdrawals from third party sources

205.52

Total water discharges at this facility (megaliters/year)

191.45

Comparison of total discharges with previous reporting year

Higher

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

191.45



Total water consumption at this facility (megaliters/year)

21.27

Comparison of total consumption with previous reporting year

Higher

Please explain

Increase in the operations are the main reason of this change.

Facility reference number

Facility 16

Facility name (optional)

3GP

Country/Area & River basin

Kazakhstan

Other, please specify

Caspian Sea Coast

Latitude

46.149406

Longitude

53.391381

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

17.63



Comparison of total withdrawals with previous reporting year

Higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

1.3

Withdrawals from third party sources

16.33

Total water discharges at this facility (megaliters/year)

17.63

Comparison of total discharges with previous reporting year

Higher

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

17.63

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

Lower

Please explain

Increase in the operations are the main reason of this change.

Facility reference number

Facility 17

Facility name (optional)

Nassau Cruise Port, Marine Works Project

Country/Area & River basin

Bahamas

Other, please specify

Caribbean

Latitude

25.044331

Longitude

-77.35036

Located in area with water stress

No

Total water withdrawals at this facility (megaliters/year)

4.59

Comparison of total withdrawals with previous reporting year

This is our first year of measurement

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

4.59

Total water discharges at this facility (megaliters/year)

4.59

Comparison of total discharges with previous reporting year

This is our first year of measurement



Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

4.59

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

This is our first year of measurement

Please explain

The project was included to the reporting scope for the first time.

Facility reference number

Facility 18

Facility name (optional)

ENKA Invest

Country/Area & River basin

Russian Federation

Volga

Latitude

55.730215

Longitude

37.635779

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

54.32

Comparison of total withdrawals with previous reporting year

This is our first year of measurement

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

6.28

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

48.04

Total water discharges at this facility (megaliters/year)

54.32

Comparison of total discharges with previous reporting year

This is our first year of measurement

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

54.32

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

This is our first year of measurement

Please explain

ENKA Invest was included to the reporting scope for the first time.



Facility reference number

Facility 19

Facility name (optional)

Mosenka

Country/Area & River basin

Russian Federation

Volga

Latitude

55.773687

Longitude

37.614928

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

12.76

Comparison of total withdrawals with previous reporting year

This is our first year of measurement

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

12.76

Total water discharges at this facility (megaliters/year)

12.76

Comparison of total discharges with previous reporting year

This is our first year of measurement

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

12.76

Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

This is our first year of measurement

Please explain

Mosenka was included to the reporting scope for the first time.

Facility reference number

Facility 20

Facility name (optional)

Cimtas Ningbo

Country/Area & River basin

China

Other, please specify

Ningbo, Zhejiang, China Coast

Latitude

29.868336

Longitude

121.54399

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

25.14

Comparison of total withdrawals with previous reporting year

This is our first year of measurement

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0



Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

25.14

Total water discharges at this facility (megaliters/year)

25.14

Comparison of total discharges with previous reporting year

This is our first year of measurement

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

25.14



Total water consumption at this facility (megaliters/year)

0

Comparison of total consumption with previous reporting year

This is our first year of measurement

Please explain

Cimtas Ningbo was included to the reporting scope for the first time.

Facility reference number

Facility 21

Facility name (optional)

Çimtaş Module & Shipyard

Country/Area & River basin

Turkey

Other, please specify

Marmara

Latitude

40.724566

Longitude

29.86677

Located in area with water stress

Total water withdrawals at this facility (megaliters/year)

37.63

Comparison of total withdrawals with previous reporting year

This is our first year of measurement

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

37.63

Total water discharges at this facility (megaliters/year)

18.81

Comparison of total discharges with previous reporting year

This is our first year of measurement

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

18.81

Total water consumption at this facility (megaliters/year)

18.82

Comparison of total consumption with previous reporting year

This is our first year of measurement

Please explain

Çimtaş Module & Shipyard was included to the reporting scope for the first time.

W5.1a

(W5.1a) For the facilities referenced in W5.1, what proportion of water accounting data has been third party verified?

Water withdrawals – total volumes

% verified

76-100

Verification standard used

Water withdrawal figures were externally assured using the ISAE 3000 and ISAE 3410 standards.

Water withdrawals – volume by source

% verified

76-100

Verification standard used

Water withdrawal figures were externally assured using the ISAE 3000 and ISAE 3410 standards.

Water withdrawals – quality by standard water quality parameters

% verified

Not verified

Please explain

Water discharges – total volumes

% verified

Not verified

Please explain

Water discharges – volume by destination

% verified

1-25

Verification standard used

Water discharges are continuously monitored in ENKA Power Plants. Standard effluent parameter analyses performed by external accredited laboratories according to the Turkish Water Pollution Control Regulation (SKKY) are sent to the Ministry every three months. Total water discharges from ENKA Power Plants made up 88% of all water discharges of ENKA.

Water discharges – volume by final treatment level

% verified

1-25

Verification standard used

Water discharges are continuously monitored in ENKA Power Plants. Standard effluent parameter analyses performed by external accredited laboratories according to the Turkish Water Pollution Control Regulation (SKKY) are sent to the Ministry every three months. Total water discharges from ENKA Power Plants made up 88% of all water discharges of ENKA.

Water discharges – quality by standard water quality parameters

% verified

1-25

Verification standard used

Water discharges are continuously monitored in ENKA Power Plants. Standard effluent parameter analyses performed by external accredited laboratories according to the Turkish Water Pollution Control Regulation (SKKY) are sent to the Ministry every three months. Total water discharges from ENKA Power Plants made up 88% of all water discharges of ENKA.

Water consumption – total volume

% verified

Not verified

Please explain

W6. Governance

W6.1


(W6.1) Does your organization have a water policy?

Yes, we have a documented water policy that is publicly available


W6.1a

(W6.1a) Select the options that best describe the scope and content of your water policy.

	Scope	Content	Please explain
Row 1	Company-wide	Description of business dependency on water Description of business impact on water Description of water-related performance standards for direct operations Description of water-related standards for procurement Reference to international standards and widely-recognized water initiatives Company water targets and goals Commitment to align with public policy initiatives, such as the SDGs	ENKA understands the value of water for its activities and importance for stakeholders. ENKA is a signatory of Global Compact and supports collective action through NGOs. Company declares the policy for water, business implications and risks in its 2020 sustainability report and its sustainability website (https://www.enka.com/sustainability/) Sustainability policy is available in four languages on ENKA website. Details about water policy, implications for ENKA and stakeholders are given in detail in ENKA's Sustainability report. Sustainability strategy of ENKA is linked to 13 SDGs, including SDG6 and 13, declared in ENKA website and sustainability report. ENKA founded ENKA Academy in 2015 to provide ENKA personnel with opportunities to learn and develop their competencies, and to support the achievement of the company's sustainability goals. Aside from ENKA Academy, training departments under individual projects and subsidies have offered training in relevant topics including environment and sustainability issues. Environmental Impact Assessment (EIA) is undertaken before the beginning of activities on all ENKA projects and the use of water sources that are of adequate quality and capacity is preferred. The situation of water sources, water stress, drinking water and wastewater quality are inspected in all operations, first at the onset and then at regular intervals, and improvement actions are taken for identified risks. In addition, ENKA undertakes continuous research on reducing water consumption and uses suitable infrastructure systems and high-efficiency equipment to minimise water loss. In addition, our water related goals (part of a larger Sustainability Goals initiative) are also a part of our water policy. We are targeting to reduce the domestic water consumption in Çimtaş to 15 litres/person-hours and commit to at least 2 projects to recycle water in order to reduce our blue water footprint.

	<p>Commitments beyond regulatory compliance</p> <p>Commitment to water-related innovation</p> <p>Commitment to stakeholder awareness and education</p> <p>Commitment to water stewardship and/or collective action</p> <p>Commitment to safely managed Water, Sanitation and Hygiene (WASH) in the workplace</p> <p>Commitment to safely managed Water, Sanitation and Hygiene (WASH) in local communities</p> <p>Acknowledgement of the human right to water and sanitation</p> <p>Recognition of environmental linkages, for example, due to climate change</p>	<p>https://www.enka.com/sustainability/home/strategy/sustainability-goals/</p> <p>https://www.enka.com/sustainability/home/health-safety-environment/environment-management-approach-policy/</p> <p>https://www.enka.com/allfiles/media/posters/HSSE_POLICY_ENG.pdf</p> <p>https://www.enka.com/sustainability/home/strategy/sustainability-policy/</p> <p>https://www.enka.com/allfiles/pdf/ENKA_Sustainability_Report_2021.pdf</p> <p> ^{1,2}</p>
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 ¹HSSE_POLICY_ENG.pdf

 ²ENKA_Sustainability_Report_2021 (2).pdf

W6.2

(W6.2) Is there board level oversight of water-related issues within your organization?

Yes

W6.2a

(W6.2a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for water-related issues.

Position of individual	Please explain
Chief Executive Officer (CEO)	<p>The overall accountability for water and climate change within ENKA lies with the President and Chairman of the Executive Committee (CEO), who is reporting to company's Board of Directors. The ENKA Board of Directors has oversight of all areas of risk, including climate change and water-related issues. The CEO leads the Sustainability Committee and also gets direct reports from the Corporate Sustainability and Compliance and Corporate HSE Departments.</p> <p>ENKA's 2027 Sustainability Goals, including GHG emission targets, water targets and renewable energy projects are approved by the CEO. Special initiatives may also commenced by CEO, leading the way for the sustainable practices within the company.</p>

W6.2b

(W6.2b) Provide further details on the board's oversight of water-related issues.

	Frequency that water-related issues are a scheduled agenda item	Governance mechanisms into which water-related issues are integrated	Please explain
Row 1	Scheduled - all meetings	Monitoring implementation and performance	For climate and water-related risks, the Board and the CEO are supported by the ENKA Sustainability Committee that is composed of members of Corporate Groups and ENKA's



		<p>Overseeing major capital expenditures</p> <p>Providing employee incentives</p> <p>Reviewing and guiding annual budgets</p> <p>Reviewing and guiding business plans</p> <p>Reviewing and guiding major plans of action</p> <p>Reviewing and guiding risk management policies</p> <p>Reviewing and guiding strategy</p> <p>Reviewing and guiding corporate responsibility strategy</p> <p>Reviewing innovation/R&D priorities</p> <p>Setting performance objectives</p>	<p>subsidiaries' representatives. The Committee's role is to review and advise the Board and CEO on policies and performance against the ENKA's Code of Business Conduct, sustainability procedures and mandatory HSE standards as well as ENKA 2027 Sustainability Goals. HSE targets include many objectives such as "0" environmental incidents or developing at least one project related to the environment and the community in each project locations (at least one of each per Project). Beginning in 2018, ENKA has set its sustainability targets including for GHG emissions and water consumption which were approved by the Board and the CEO. All group companies either employ HSE and/or Sustainability experts or have established sustainability departments. HSE and Sustainability performance, depending on each subsidiary's procedure, is reported monthly to the Sustainability Committee. ENKA Sustainability Committee, together with Corporate Sustainability and Compliance Department, is responsible for managing all projects related to the sustainability programs of ENKA Group and all its subsidiaries. The Committee works towards identifying and assessing social and environmental risks and opportunities, including climate-related ones, monitors sustainability and climate-related developments and determines the sustainability strategy and targets. The committee meets quarterly and the outcomes from the Sustainability Committee meetings are reported to the Chairman of the Executive Committee and CEO by the Director of Quality, HSE and Integrity (DQHSEI).</p>
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W6.2d

(W6.2d) Does your organization have at least one board member with competence on water-related issues?

	Board member(s) have competence on water-related issues	Primary reason for no board-level competence on water-related issues	Explain why your organization does not have at least one board member with competence on water-related issues and any plans to address board-level competence in the future
Row 1	No, but we plan to address this within the next two years	Important but not an immediate priority	ENKA considers board oversight on water related issues as an important issue. However, selection of a board member is complex process and the company requires several qualifications to qualify a person as a board member. ENKA is planning to add water related competencies as well as climate-related competencies to the qualification requirements for at least one member of its board. Although this is planned, the methodology for this plan is still under discussion. There are two options in discussion; an individual with a water related and climate related experience may join to the board as a member or an existing member of the board may receive the required trainings.

W6.3

(W6.3) Provide the highest management-level position(s) or committee(s) with responsibility for water-related issues (do not include the names of individuals).

Name of the position(s) and/or committee(s)

Other, please specify

Director of Quality, HSE and Integrity

Responsibility

Assessing water-related risks and opportunities

Managing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

More frequently than quarterly

Please explain

Senior responsible for water-related issues, and nominated risk owner, is the Director of Quality, HSE and Integrity (DQHSEI). Corporate Sustainability & Compliance and Corporate HSE Teams are responsible for evaluating water risks and supporting the business in developing management strategies, having the oversight of the company's water management implementation. Both teams are led by the corporate-level managers, the water focal points, who report to DQHSEI.

ENKA group companies' HSE/Sustainability experts or managers report to the Sustainability Committee. Climate performance and water-related issues of subsidiaries are reported to the Corporate Sustainability & Compliance, and to Sustainability Committee that meets quarterly.

For all construction projects, HSE indicators including water information are reported by the Project HSE Managers to the Corporate HSE, which reports to the DQHSEI monthly, who in turn consolidates the information and reports to the CEO.

Name of the position(s) and/or committee(s)

Chief Executive Officer (CEO)

Responsibility

Other, please specify

Leading the Sustainability Committee which assesses future trends in water demand, risks and opportunities.

Frequency of reporting to the board on water-related issues

Less frequently than annually

Please explain

The overall accountability for water and climate change within ENKA lies with the President and Chairman of the Executive Committee (CEO), who is reporting to company's Board of Directors. The ENKA Board of Directors has oversight of all areas of risk, including climate change and water-related issues. The CEO leads the Sustainability Committee and also gets direct reports from the Corporate Sustainability and Compliance and Corporate HSE Departments.

W6.4

(W6.4) Do you provide incentives to C-suite employees or board members for the management of water-related issues?

	Provide incentives for management of water-related issues	Comment
Row 1	Yes	Incentives for successful management of sustainability, water and climate change related topics are provided in ENKA through the evaluation of the Executive Committee. Project/Business managers are rewarded for achievements and good practices. Executive Committee also monitors the financial management and environmental performance of corporate and project executives and rewarded with yearly premiums according to their seniority and experience. Recognition incentives are in place for employees on HSE related topics. HSE Incentive Procedure, which includes sustainability and environment topics as well, states whoever reports or notifies any non-conformities, contributes to HSE and Quality applications or increases the perception of these concepts within projects and has extraordinary operating performance gets rewarded individually with individual KPI's through premiums and behavior recognition.

W6.4a

(W6.4a) What incentives are provided to C-suite employees or board members for the management of water-related issues (do not include the names of individuals)?

	Role(s) entitled to incentive	Performance indicator	Please explain
Monetary reward	Other, please specify Management Group	Reduction of water withdrawals Reduction in consumption volumes Other, please specify	Incentives for successful management of sustainability, water and climate change related issues are provided in ENKA through the evaluation of the Executive Committee. Project/Business managers are rewarded for achievements and good practices. Executive Committee also monitors the financial management and environmental performance of corporate and project executives and rewarded with yearly premiums according to their seniority and experience.

		Sustainability and climate change achievements	
Non-monetary reward	Other, please specify All Employees	Improvements in efficiency - direct operations Improvements in efficiency - supply chain	<p>Recognition incentives are in place for employees on HSE related issues. HSE Incentive Procedure, which includes sustainability and environment topics as well, states whoever reports or notifies any non-conformity, contributes to HSE and Quality applications or increases the perception of these concepts within projects and has extraordinary operating performance gets rewarded individually with individual KPIs through premiums and behavior recognition.</p> <p>ENKA monthly publishes Sustainability and Compliance Newsletters through the group of companies. Initiatives and best practices on sustainability issues, including water related ones, are covered in these newsletters, providing recognition to the success of the relevant employee(s). In addition to newsletters, outstanding achievements on sustainability are also published on company's website and corporate social media accounts to promote the employee's success.</p>

W6.5

(W6.5) Do you engage in activities that could either directly or indirectly influence public policy on water through any of the following?

- Yes, direct engagement with policy makers
- Yes, trade associations
- Yes, funding research organizations

W6.5a

(W6.5a) What processes do you have in place to ensure that all of your direct and indirect activities seeking to influence policy are consistent with your water policy/water commitments?

Protection of environment and communities, identifying, eliminating and minimizing all hazards, risks, environmental and social impacts and complying with all the standards and regulations of the country of operation are all priorities of ENKA. ENKA ensures its engagements activities are in line with its sustainability strategy by monitoring these activities via its Corporate Sustainability and Compliance Department at Headquarters and via its sustainability representatives at its subsidiaries and projects. ENKA's Sustainability Committee also has a review on aligning the engagement with the strategy.

ENKA builds and operates water and wastewater treatments plants in all projects. Especially in developing countries, customer requirements and international standards of water and wastewater discharge usually dictate a higher quality of discharge than local requirements. By funding R&D through its Design Center, ENKA aims to be a leader in developing innovative solutions with regards to minimizing water consumption and relevant costs.

TUSIAD's Environment and Climate Change Working Group, which ENKA is a member, supports Turkey's sustainable development and aims to contribute sustainable development principles and low carbon transition in addition to water-related efforts. ENKA is part of TÜYİD (Turkish Investor Relations Society) Sustainability Group, which was established to follow and support current sustainability efforts and initiatives in Turkey's capital markets.

W6.6

(W6.6) Did your organization include information about its response to water-related risks in its most recent mainstream financial report?

No, but we plan to do so in the next two years

W7. Business strategy

W7.1

(W7.1) Are water-related issues integrated into any aspects of your long-term strategic business plan, and if so how?

	Are water-related issues integrated?	Long-term time horizon (years)	Please explain
Long-term business objectives	Yes, water-related issues are integrated	11-15	ENKA considers its sustainability strategy and targets on water while determining the projects to which it will participate and bid. ENKA business lines have implemented water-related issues to their long-term business plans. ENKA's projects were diverted from fossil fuel power plant tenders and two Hydroelectric Power Plant tenders have been won . These tenders include long term power purchase agreements and sufficient water availability has become vital for long-term revenues and business objectives. In order to reach these objectives, special ESIA studies and micro-climate assessments were completed in order to ensure water availability risks were being considered in the long-term. A micro climate change assessment is ongoing as part of ESIA study in Georgia to identify potential impacts agriculture and region's climate. During assessment, possible changes in precipitations, humidity, intensification of fog and frost, quality of agricultural products are evaluated and investigated. The assessment is based on site surveys and measurements, Terra Climate data of the region, Climate Hazards Group InfraRed Precipitation with Station data, Precipitation Estimation from Remotely Sensed Information using Artificial Neural Networks – CLIMATE Data Record (PERSIAN-CDR), Moderate Resolution Imaging Spectroradiometer (MODIS) Aqua Daily data and World Bank Climate-Change Knowledge Portal.
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	11-15	ENKA has procedures and assigned employees, committees in place for risk detection, performance monitoring and continuous improvement. ENKA Academy, ENKA Engineering Center, Early Identification of Risks Committee, Sustainability Committee work for developing solutions for achieving objectives. Availability of water, quality of water, future developments, climate change



			scenarios are all integrated in ENKA investments and projects. Using advanced water treatment technologies for producing clean water for drinking/sanitation in water scarce areas or investing on water treatment/recycling technologies to reduce water withdrawal in power plants and steel facilities are some of the actions implemented to reduce dependency on fresh/clean water resources. Decision for investing in new technologies/increase capital expenditure. Undertaking water-related projects such as water and wastewater treatment plants, hydroelectric power plants and water network systems and shaping its financial planning accordingly.
Financial planning	Yes, water-related issues are integrated	11-15	Early Identification of Risks Committee and Risk Management Work Group assess the risk and impact on operations. Measure to abate identified risks are developed by risk committee and engineering team. Potential cost of the risk, probability, impact are evaluated against the cost of abatement. Prioritized investments are included in financial planning of the company. ENKA business lines have implemented water-related issues to their long-term business plans. For example, due to the impacts of climate change, ENKA's projects were diverted from fossil fuel power plant tenders and two new Hydroelectric Power Plant tenders have been won. These tenders include long-term power purchase agreements and sufficient water availability has become vital for long-term revenues and business objectives.

W7.2

(W7.2) What is the trend in your organization’s water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?

Row 1

Water-related CAPEX (+/- % change)

0

Anticipated forward trend for CAPEX (+/- % change)

0



Water-related OPEX (+/- % change)

-50

Anticipated forward trend for OPEX (+/- % change)

-50

Please explain

W7.3

(W7.3) Does your organization use scenario analysis to inform its business strategy?

	Use of scenario analysis	Comment
Row 1	Yes	<p>IEA scenarios and Risk assessment tools (WRI and Aqueduct) has been used for scenario analyses. Early Identification of Risks Committee has updated water management and water sustainability strategies upon this analyses, prompting ENKA to analyse its water footprint and water consumption targets starting from 2016 per site.</p> <p>In addition to macro scenarios, ENKA also conducts micro-climate assessments for specific projects where necessary. For example A micro climate change assessment performed in Georgia to identify potential impacts agriculture and region's climate . The assessment is based on site surveys and measurements, Terra Climate data of the region, Climate Hazards Group InfraRed Precipitation with Station (CHIRPS) data, Precipitation Estimation from PERSIAN-CDR,MODIS Aqua Daily data and World Bank CCKP. The assessments take into consideration different RCP scenarios, which are until the year 2100.</p>

W7.3a

(W7.3a) Provide details of the scenario analysis, what water-related outcomes were identified, and how they have influenced your organization's business strategy.

	Type of scenario analysis used	Parameters, assumptions, analytical choices	Description of possible water-related outcomes	Influence on business strategy
Row 1	Water-related Climate-related	RCP 2.6, IEA Sustainable Development Scenario and Nationally determined contributions (NDCs) used as analytical choices.	Energy generation is one of ENKA's major business activities. Energy-Water relation is two-sided for ENKA since all three ENKA power plants relies on water for cooling and process. Any limitation in access to sufficient water or increase in water temperature will reduce efficiency and cause further increase in fuel consumption and emissions.	<p>ENKA Power has invested in new technologies to reduce emission intensity and also water intensity. New technology investments has enable reducing the emission intensity below target levels. Switching to sea water for cooling in ENKA Izmir power plant has reduced dependency on freshwater sources and increased efficiency of the plant which also reduces emission intensity.</p> <p>To reduce water consumption during the 27-month conservation period from 2019 to 2021 in Adapazarı and Gebze Power Plants, the product water of the demineralized water production facility was recycled to the reverse osmosis system and reused. With this study, the use of hydrochloric acid in the reverse osmosis system was reduced, the chemical washing intervals of the reverse osmosis system were extended, accordingly, the chemical consumption was reduced and the economic life of the system was</p>

				<p>extended. Within the framework of these efforts, 3,888 m³ of water was recycled in the system. In addition, closed-loop cooling system is used at ENKA's Power Plants for the supply of cooling water. This type of cooling system reduces the use of water resources since there isn't any continuous water withdrawal from the natural environment.</p> <p>At ENKA's Power Plants, regular predictive and preventive maintenance activities are carried out to minimize water losses and leakages during both the production of demineralized water and generation of electricity and to use the water produced with maximum efficiency.</p>
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W7.4

(W7.4) Does your company use an internal price on water?

Row 1

Does your company use an internal price on water?

No, but we are currently exploring water valuation practices

Please explain

W7.5

(W7.5) Do you classify any of your current products and/or services as low water impact?

	Products and/or services classified as low water impact	Primary reason for not classifying any of your current products and/or services as low water impact	Please explain
Row 1	No, but we plan to address this within the next two years		

W8. Targets

W8.1

(W8.1) Describe your approach to setting and monitoring water-related targets and/or goals.

	Levels for targets and/or goals	Monitoring at corporate level	Approach to setting and monitoring targets and/or goals
Row 1	Business level specific targets and/or goals	Targets are monitored at the corporate level	<p>Main water use in ENKA group is due to energy generation in three power plants. ENKA has set water intensity targets for all three plants considering the available technologies, investment options and impact on revenues/efficiency of the plants. Prioritized technologies have been realized upon management decision.</p> <p>There are two other targets: Keeping domestic water use to below 15 liters/person-hours in Çimtaş and realizing at least 2 projects in ENKA Group for water recycling to reduce blue water footprint.</p>

W8.1a

(W8.1a) Provide details of your water targets that are monitored at the corporate level, and the progress made.

Target reference number

Target 1

Category of target

Product water intensity

Level

Business

Primary motivation

Climate change adaptation and mitigation strategies

Description of target

For ENKA's power plants, target for demineralized water consumption has been set as 0.035 m³/MWh.

Quantitative metric

% reduction per unit of production

Baseline year

2019

Start year

2019

Target year

2021

% of target achieved

100

Please explain

It is calculated as 0.033 m3/MWh.

Target reference number

Target 2

Category of target

Product water intensity

Level

Business

Primary motivation

Climate change adaptation and mitigation strategies

Description of target

For Çimtaş Steel, target for domestic water consumption has been set at 15 litres/man-hours

Quantitative metric

Other, please specify

% reduction per FTE (man-hours)

Baseline year

2017

Start year

2017

Target year

2021

% of target achieved

100

Please explain

Çimtaş's target of keeping domestic water consumption below 15 litres/person-hours was achieved in 2021. This is a rolling target that is renewed each year. Domestic water consumption was 11.2 litres/person-hours in 2021.

Target reference number

Target 3

Category of target

Water recycling/reuse

Level

Site/facility

Primary motivation

Cost savings

Description of target

In the Tengiz project, wastewater recycling system was established to reuse grey water back in the toilets in the camp. The project target is to use 2% of water used for domestic purposes through recycling.

Quantitative metric

% increase in water use met through recycling/reuse

Baseline year

2019

Start year

2020

Target year

2021

% of target achieved

100

Please explain

2% water recycling rate target was achieved in 2021.

Target reference number

Target 4

Category of target

Water recycling/reuse

Level

Site/facility

Primary motivation

Cost savings

Description of target

In the Samawa project, large amounts of water is required for hydrotests. A waste water treatment system was installed which enabled the reuse of water used for hydrotesting purposes. The project target is to use 80% of water through recycling.

Quantitative metric

% increase in water use met through recycling/reuse

Baseline year

2019

Start year

2020

Target year

2021

% of target achieved

100

Please explain

83% recycling rate was achieved in the project where 80% was targeted.

W9. Verification

W9.1

(W9.1) Do you verify any other water information reported in your CDP disclosure (not already covered by W5.1a)?

Yes



W9.1a

(W9.1a) Which data points within your CDP disclosure have been verified, and which standards were used?

Disclosure module	Data verified	Verification standard	Please explain
W1 Current state	Company wide water accounting (W1.2h) - Total water withdrawals.	ISAE 3000	ENKA's total water withdrawals in 2021 were subject to limited assurance according to ISAE 3000 and ISAE 3410 standards. Verification document is also available in ENKA's 2021 sustainability report: https://www.enka.com/allfiles/pdf/ENKA_Sustainability_Report_2021.pdf

W10. Sign off

W-FI

(W-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

W10.1

(W10.1) Provide details for the person that has signed off (approved) your CDP water response.

	Job title	Corresponding job category
Row 1	President and Chairman of the Executive Committee	Chief Executive Officer (CEO)



W10.2

(W10.2) Please indicate whether your organization agrees for CDP to transfer your publicly disclosed data on your impact and risk response strategies to the CEO Water Mandate’s Water Action Hub [applies only to W2.1a (response to impacts), W4.2 and W4.2a (response to risks)].

Yes

Submit your response

In which language are you submitting your response?

Please confirm how your response should be handled by CDP

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options		Public

Please confirm below