

## Welcome to your CDP Water Security Questionnaire 2023

### 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 50 countries, more than 20 thousand employees and machinery and equipment park of 4,000 items. Through the services it offers in various fields of activity, to date, ENKA has carried out 134 projects in Türkiye with a total contract value of USD 7.6 billion, and 431 projects abroad with a total contract value of USD 50.2 billion.

2022 is the sixth 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, five 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.

## W-EU0.1a

**(W-EU0.1a) Which activities in the electric utilities sector does your organization engage in?**

Electricity generation

## W-EU0.1b

**(W-EU0.1b) For your electricity generation activities, provide details of your nameplate capacity and the generation for each technology.**

	Nameplate capacity (MW)	% of total nameplate capacity	Gross electricity generation (GWh)
Coal – hard			
Lignite			
Oil			
Gas	4,000	100	7,467
Biomass			
Waste (non-biomass)			
Nuclear			
Fossil-fuel plants fitted with carbon capture and storage			
Geothermal			
Hydropower			

Wind			
Solar			
Marine			
Other renewable			
Other non-renewable			
Total			

## 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, 2022	December 31, 2022

## W0.3

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

- Bahamas
- China
- 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, which works as subcontractor	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 and all of them included in the reporting. 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
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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.</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</p>

			collected.  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	Frequency of measurement	Method of measurement	Please explain
Water withdrawals – total volumes	100%	Monthly	Water meters, water bills, internal controls and inspections by 3rd parties.	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%	Monthly	Water meters, water bills, internal controls and inspections by 3rd parties.	<p>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.</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%	Quarterly	Regular inspections and tests.	All water withdrawals are monitored in terms of quality and recorded where necessary

Water discharges – total volumes	100%	Monthly	Water meters, water bills, internal controls and inspections by 3rd parties.	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%	Monthly	Regular inspections	All water discharge destinations are known, monitored, and reported
Water discharges – volumes by treatment method	76-99	Monthly	Tests and inspections	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). 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. BOD, COD, TSS, and Oil is monitored in Çimtaş Steel and construction projects. 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.
Water discharge quality – by standard effluent parameters	76-99	Monthly	Tests and inspections	<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</p>

				traps are functional. Wastewater from high-risk tenants is collected separately.
Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances)	51-75	Quarterly	Tests and inspections	<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</p>

				tenants is collected separately.
Water discharge quality – temperature	76-99	Continuously	Tests and inspections	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.
Water consumption – total volume	100%	Monthly	Water meters and internal controls.	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.
Water recycled/reused	100%	Continuously	Water meters and internal controls.	ENKA recycles/reuses water in several facilities for many years. Starting from 2017, ENKA has initiated an incentive for reuse/recycling water in all possible 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%	Continuously	Tests, and inspections	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, how do they compare to the previous reporting year, and how are they forecasted to change?**

	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Five-year forecast	Primary reason for forecast	Please explain
Total withdrawals	14,306	Lower	Increase/decrease in efficiency	Lower	Increase/decrease in efficiency	Several water efficiency initiatives and projects have been applied at ENKA group companies. In addition, smart water meters installed in more areas comparing to previous year. And lastly there was a small portion of change in the production of ENKA Power which has also affected water withdrawal.
Total discharges	9,461	Lower	Increase/decrease in efficiency	Lower	Increase/decrease in efficiency	Several water efficiency initiatives and projects have been applied at ENKA group

						companies. In addition, smart water meters installed in more areas comparing to previous year. And lastly there was a small portion of change in the production of ENKA Power which has also affected water withdrawal.
Total consumption	4,845	Lower	Increase/decrease in efficiency	Lower	Increase/decrease in efficiency	Several water efficiency initiatives and projects have been applied at ENKA group companies. In addition, smart water meters installed in more areas comparing to previous year.

## W1.2d

**(W1.2d) Indicate whether water is withdrawn from areas with water stress, provide the proportion, how it compares with the previous reporting year, and how it is forecasted to change.**

	Withdrawals are from areas with water stress	% withdrawn from areas with water stress	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Five-year forecast	Primary reason for forecast	Identification tool	Please explain
Row 1	Yes	76-99	About the same	Increase/decrease in efficiency	About the same	Increase/decrease in efficiency	WRI Aqueduct	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 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.
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## W1.2h

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

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Relevant	7.9	About the same	Other, please specify there wasn't a significant change. The amount is for rain water, which depends on the amount of rain received that year.	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 Cimtas Pipe.

Brackish surface water/Seawater	Relevant	12,257	Lower	Increase/decrease in business activity	Sea water is only used for cooling demand in Izmir Natural Gas Power Plant. The change is the result of efficiency initiatives and change in the production amount.
Groundwater – renewable	Relevant	561	Higher	Increase/decrease in business activity	Groundwater is used for cooling and process water in Adapazarı and Gebze power plants and for process water in Izmir power plant. Çimtas, ENKA's Morava Corridor Motorway Project and limitedly ENKA Pazarlama facilities also uses groundwater for process water. The main reason for this increase is the change in the business acitivity of ENKA project and power plants.
Groundwater – non-renewable	Not relevant				
Produced/Entrained water	Relevant	138.4	Higher	Increase/decrease in efficiency	ENKA's construction projects in Kazakhstan and Serbia, natural gas power plant in İzmir and Çimtaş Precision Machining use produced water for its processes. The amount produced increased by implementing effective initiatives.
Third party sources	Relevant	1,341.5	Lower	Increase/decrease in efficiency	Water demand in all ENKA facilities except its natural gas power plants, are mainly supplied through municipal water mains networks. Several water efficiency initiatives and projects have been applied at ENKA group companies. In addition, smart water meters installed in more areas comparing to previous year.

## W1.2i

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

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water	Relevant	7.3	About the same	Other, please specify Amount is same	The only source of discharge to freshwater body after treatment is İzmir Power Plant.
Brackish surface water/seawater	Relevant	7,800	Lower	Increase/decrease in business activity	Sea water is only used for cooling demand in İzmir Natural Gas Power Plant. The change is the result of efficiency initiatives and change in the production amount.
Groundwater	Not relevant				
Third-party destinations	Relevant	1,653	About the same	Increase/decrease in business activity	The change is the results of the increase in the operations.

## 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	Primary reason for comparison 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	7,891.5	Lower	Increase/decrease in efficiency	1-10	Çimtaş operations and İzmir Power plant operations apply secondary treatment. Change is the result of the change in the amount of production. Our construction projects where water is used for sanitary purposes are subject to secondary treatment where the discharge point is water bodies.
Primary treatment only	Not relevant					There are no ENKA operations where "only" primary treatment is required.
Discharge to the natural	Not relevant					There are no ENKA operations where discharge to

environment without treatment						natural environment without any treatment is performed.
Discharge to a third party without treatment	Relevant	1,569.7	Higher	Increase/decrease in business activity	Less than 1%	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. Change is the result of the increase in the construction operations.
Other	Not relevant					There are no other ENKA operations where other



						types of treatment is applied.
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### W1.2k

**(W1.2k) Provide details of your organization’s emissions of nitrates, phosphates, pesticides, and other priority substances to water in the reporting year.**

	Emissions to water in the reporting year (metric tonnes)	Category(ies) of substances included	Please explain
Row 1			

### 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	3,730,000,000	14,306	260,729.763735496	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.

### W-EU1.3

**(W-EU1.3) Do you calculate water intensity for your electricity generation activities?**

Yes

### W-EU1.3a

**(W-EU1.3a) Provide the following intensity information associated with your electricity generation activities.**

Water intensity value (m3/denominator)	Numerator: water aspect	Denominator	Comparison with previous reporting year	Please explain
0.02	Other, please specify demineralized water consumption in m3	MWh	About the same	For Izmir Power plant, intensity target has been defined as 0.020 m3 demineralized water /MWh.
0.02	Other, please specify water cons. in m3	MWh	About the same	For Gebze and Adapazarı Power plant, target has been set as 0.035 m3 demineralized water /MWh.

### W1.4

**(W1.4) Do any of your products contain substances classified as hazardous by a regulatory authority?**

	Products contain hazardous substances	Comment
Row 1	No	ENKA does not have any operations that would result in products that contain hazardous substances.

### W1.5

**(W1.5) Do you engage with your value chain on water-related issues?**

	Engagement
Suppliers	Yes
Other value chain partners (e.g., customers)	Yes

### W1.5a

**(W1.5a) Do you assess your suppliers according to their impact on water security?**



**Row 1**

**Assessment of supplier impact**

Yes, we assess the impact of our suppliers

**Considered in assessment**

Supplier dependence on water  
Procurement spend

**Number of suppliers identified as having a substantive impact**

300

**% of total suppliers identified as having a substantive impact**

1-25

**Please explain**

Water related risks related to suppliers are assessed considering the procurement spend, importance of the material provided and also water dependency of the products or services. That assessment covers an impact assessment.

**W1.5b**

**(W1.5b) Do your suppliers have to meet water-related requirements as part of your organization’s purchasing process?**

	Suppliers have to meet specific water-related requirements
Row 1	Yes, suppliers have to meet water-related requirements, but they are not included in our supplier contracts

**W1.5c**

**(W1.5c) Provide details of the water-related requirements that suppliers have to meet as part of your organization’s purchasing process, and the compliance measures in place.**

**Water-related requirement**

Complying with going beyond water-related regulatory requirements

**% of suppliers with a substantive impact required to comply with this water-related requirement**

1-25

**% of suppliers with a substantive impact in compliance with this water-related requirement**

1-25

**Mechanisms for monitoring compliance with this water-related requirement**

Community-based monitoring

Grievance mechanism/Whistleblowing hotline

Ground-based monitoring system

**Response to supplier non-compliance with this water-related requirement**

Retain and engage

**Comment**

As part of supplier performance assessments, water performance of the suppliers and subcontractors are also assessed.

**W1.5d**

**(W1.5d) Provide details of any other water-related supplier engagement activity.**

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**Type of engagement**

Other

**Details of engagement**

Other, please specify

Trainings, awareness, incentives and mutual projects. 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 suppliers with a substantive impact**

1-25

### **Rationale for your engagement**

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 2022, 38% of suppliers were assessed in terms of Environmental and Social issues covering water management. 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). Ratio of Suppliers Trained on the Supplier Code of Conduct in 2022 was 38.2%. 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**

Increase in awareness, increase in contracts that include water related clauses. Audits and inspections in addition to the supplier evaluations are used for monitoring. 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.

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 mandatory for relevant existing or new suppliers. In recent years, significant progress has 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**

Audits and inspections in addition to the supplier evaluations are used for monitoring.

## **W1.5e**

**(W1.5e) Provide details of any water-related engagement activity with customers or other value chain partners.**

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### **Type of stakeholder**

Customers

### **Type of engagement**

Education / information sharing

### **Details of engagement**

Educate and work with stakeholders on understanding and measuring exposure to water-related risks

Run an engagement campaign to educate stakeholders about your water-related performance and strategy

### **Rationale for your engagement**

ENKA's engagement with its customers about water starts with materiality analysis. Before the analysis, training is provided to customer representatives about the water related risks. Also at ENKA and its subsidiaries campaigns covering water issues were performed that invites customers to participate.

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. 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.

### **Impact of the engagement and measures of success**

Increase in awareness, increase in contracts that include water related clauses.

## **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?**

	Water-related regulatory violations	Comment
Row 1	No	ENKA did not face any fines in the reporting period.

## W3. Procedures

### W3.1

**(W3.1) Does your organization identify and classify potential water pollutants associated with its activities that could have a detrimental impact on water ecosystems or human health?**

	Identification and classification of potential water pollutants	How potential water pollutants are identified and classified
Row 1	Yes, we identify and classify our potential water pollutants	We perform wastewater analyses.

### W3.1a

**(W3.1a) Describe how your organization minimizes the adverse impacts of potential water pollutants on water ecosystems or human health associated with your activities.**

#### Water pollutant category

Other nutrients and oxygen demanding pollutants

#### Description of water pollutant and potential impacts

The pollutant loads in the wastewater generated by ENKA's operations in 2022 are analyzed and presented in annual sustainability reports. .

**Value chain stage**

Direct operations

**Actions and procedures to minimize adverse impacts**

Beyond compliance with regulatory requirements

**Please explain**

ENKA conducts regular inspections, tests and system audits.

### 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.**

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**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 its projects. 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. ENKA's risk management structures are headed by the Early Identification of Risks Committee, which reports to the Board of Directors, and Risk Management Working Group, which is operating under the Committee. ENKA implements an integrated risk-management that is essential factor in the deployment of its strategy, covering its financial and non-financial risks including environmental, social, economic, compliance risks together with brand management and reputational risks. This is a continuous process both in company and asset level. ENKA's risk management mechanisms are supplemented in fields of sustainability, environment, water by international commitments and guidelines such as UN Global Compact of which ENKA is a signatory, and Financial Stability Board's (FSB) Task Force on Climate-related Financial Disclosures (TCFD) as well as ISO 9001, ISO 14001 management standards for which ENKA is audited and certified. ENKA's risk management also follows good practices such as the ISO 31000 Risk Management Standard and the COSO Enterprise Risk Management Integrated Framework.

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. As a part of ISO 14001:2015, Life Cycle Assessments of raw materials and waste are also taken into consideration.

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.

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**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.

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**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.**

	Rationale for approach to risk assessment	Explanation of contextual issues considered	Explanation of stakeholders considered	Decision-making process for risk response
Row 1	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	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	Employees, shareholders, investors, customers, business partners, suppliers, subcontractors, regulatory bodies, local communities, NGOs.	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

	<p>undertake separate specific risk-assessments for individual sites such as power plants and residential and commercial buildings as well.</p>	<p>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, such as pollution, scarcity, water stress, etc. 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</p>		<p>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 &amp; 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</p>
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		and the construction of a new riverbed were amongst measures taken.		and potential impacts on each asset. At project level, project management team leads the decision making processes, at company level sustainability committee reporting to the Board of Directors is leading the decision making process.
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## 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	20	76-99	Facilities included in reporting boundary constitute most of the facilities and revenue streams of the company. Each manufacturing plant, real estate company leasing assets, headquarters, power plant or construction site is considered as an individual facility. 20 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 annual electricity generation that could be affected by these facilities**

Not applicable

**% company's total global revenue that could be affected**

11-20

**Comment**

ENKA İnşaat HQ  
Enka Pazarlama  
Çimtaş Steel  
Cimtas Pipe  
Çimtaş Module & Shipyard  
Çimtaş Precision Machining

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**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 annual electricity generation that could be affected by these facilities**

26-50

**% 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**

6

**% company-wide facilities this represents**

26-50

**% company's annual electricity generation that could be affected by these facilities**

Not applicable

**% company's total global revenue that could be affected**

21-30

**Comment**

City Center Investment

Moskva Krasnye Holmy

ENKA TC

ENKA Invest

Mosenka

Yandex Project

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**Country/Area & River basin**

Turkey  
Sakarya

**Number of facilities exposed to water risk**

2

**% company-wide facilities this represents**

1-25

**% company's annual electricity generation that could be affected by these facilities**

26-50

**% company's total global revenue that could be affected**

1-10

**Comment**

ENKA Power Gebze  
ENKA Power Adapazari

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**Country/Area & River basin**

Serbia  
Danube

**Number of facilities exposed to water risk**

1

**% company-wide facilities this represents**

1-25

**% company's annual electricity generation that could be affected by these facilities**

Not applicable

**% company's total global revenue that could be affected**

1-10

**Comment**

Serbia Morava Corridor Motorway Project

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**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 annual electricity generation that could be affected by these facilities**

Not applicable

**% company's total global revenue that could be affected**

1-10

**Comment**

Tengiz Base Operations and Maintenance Works

Tengiz FGP 3GP Project

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**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 annual electricity generation that could be affected by these facilities**

Not applicable

**% company's total global revenue that could be affected**

1-10

**Comment**

Cimtas Ningbo

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**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 annual electricity generation that could be affected by these facilities**

Not applicable

**% 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.**

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**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 Cimtas Pipe, Steel, Çimtaş Module & Shipyard and Çimtaş Precision Machining plants are in the Marmara basin. The operations could be impacted by the medium to high risk of water scarcity in the Marmara basin. Çimtaş production facilities are affected by poor water quality in the requiring investment in further treatment technologies or water supply 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)**

3,800,000

**Potential financial impact figure - minimum (currency)**

**Potential financial impact figure - maximum (currency)**

**Explanation of financial impact**

Due to the poor quality of the water in the region, Çimtaş plants supply water from more expensive sources. Financial impact figure indicates 1% of total revenues of Çimtaş Türkiye operations.

**Primary response to risk**

Adopt water efficiency, water reuse, recycling and conservation practices

**Description of response**

Reducing water consumption through water efficiency and water recycling projects enable Çimtaş operations to minimize water-related risks. In scope of risk adaptation plans, Çimtaş set target to keep domestic water consumption under 15 liters / person-hours. In line with ENKA's Sustainability Targets, Çimtaş also set its 2030 and 2050 targets to increase water recycling and reuse ratio. For this purpose, Çimtaş Group Companies track water use on a daily and monthly basis and respond with water management strategies include reducing consumption of water, boosting rainwater harvesting, and closely monitoring irrigation. The quality of wastewater discharge is monitored regularly using internal

& external analyses. In wastewater treatment plants, routine maintenance and controls are actively carried out daily. The monitoring findings are evaluated to determine system's efficacy. After conducting routine analyses, discharge is delivered at the proper values in facilities where the channel discharge is done with the discharge permission.

In 2022, toilets and irrigation systems used rainwater collected at the Cimtas Pipe and Çimtaş Precision Machining plants. The amount of rainwater used is measured monthly. CNC machines and factory washing water both use recycled and reused mains water. Every month, performance and effectiveness of wastewater treatment systems are evaluated, and it is ensured that waste quality remains constant. A total of 670m<sup>3</sup> of water was recovered in 2022 at Çimtaş Precision Machining company by returning the 2nd stage reverse osmosis effluent water to the system feeding tank. For Hydrostatic test area, Çimtaş Ningbo implemented a water reuse system to improve water management and protect water resources. The water consumption of hydro test area can be reduced by 20% thanks to the recycling system. Before the hydro test, each month will cost about 250 tons of fresh water. Once the water recycling system was implemented, the cost declined to 200 tons per month. For the discharge of wastewater: Specially assigned people oversee managing wastewater treatment, keeping daily records, and doing self-inspections on a regular basis. HSE Department will periodically send water samples for external testing and monitor the water quality testing equipment daily. The relevant equipment is routinely inspected. All Çimtaş group companies monitor their daily consumption and ensure there are no system leaks. R&D activities are also considered.

**Cost of response**

89,000

**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 cause reduction or disruption in production capacity of 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)**

581,321,000

**Potential financial impact figure - minimum (currency)**

**Potential financial impact figure - maximum (currency)**

**Explanation of financial impact**

Financial impact was given as almost 80% of total revenues of our Gebze and Adapazarı power plants in 2022. 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 majority 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 wastewater in process.

ENKA's Power Plants in Adapazarı 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.

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 85%) and sodium hydroxide (by 96%).

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 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, 20,056 m<sup>3</sup> of water was recycled in 2022 in the system by comparison with the amount that would have been used if the facilities had not been converted to the reverse osmosis 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 water consumption because there is no continuous withdrawal of water from the natural environment.

Regular predictive and preventive maintenance is performed at ENKA's Power Plants to minimize water losses and leaks during both the production of demineralized water and the generation of electricity, to use the water produced with maximum efficiency, and to contribute positively to the continuity of water resources.

**Cost of response**

3,000,000

**Explanation of cost of response**

Cost of response refers to the financial data related to the investment.

---

**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)**

460,000,000

**Potential financial impact figure - minimum (currency)**

**Potential financial impact figure - maximum (currency)**

**Explanation of financial impact**

Financial impact was given as almost 80% of total revenue of our İzmir Power Plant in the Gediz basin in 2022. 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 the amount of demineralized water used for regeneration purposes was reduced by approximately 20 times.

Regular predictive and preventive maintenance activities are carried out at ENKA's Power Plants to minimize water losses and leakages during

both the production of demineralized water and the generation of electricity, as well as to use the water produced with maximum efficiency and to make a positive contribution to the continuity of water resources.

**Cost of response**

3,500,000

**Explanation of cost of response**

CAPEX for the desalination investment.

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**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?**

Yes, a single figure estimate

**Potential financial impact figure (currency)**

340,000

**Potential financial impact figure - minimum (currency)**

**Potential financial impact figure - maximum (currency)**

**Explanation of financial impact**

ENKA has business centers and shopping malls in a geography where there are no major risks regarding water. Although the probability of periodic water cuts is not extremely high, we calculate a financial impact based on a decrease in customer satisfaction. Since the probability is low, 0.1% of ENKA 2022 Real Estate income, it is 340000 USD.

**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**

10,000

**Explanation of cost of response**

The financial value of maintenance, follow-up and renewal of monitoring systems is given.

**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 wastewater 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, an estimated range

**Potential financial impact figure (currency)**

**Potential financial impact figure - minimum (currency)**

4,000

**Potential financial impact figure - maximum (currency)**

400,000

**Explanation of financial impact**

The maximum impact is calculated with operations can be subjected to fines up to 100000 USD for repeat offences. ENKA has 4 operations subject to this specific regulation, therefore total maximum risk is 400000 USD. The minimum impact is calculated with 1000 USD for 4 operations.

**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.

---

**Country/Area & River basin**

Bahamas  
Not known

**Type of risk & Primary risk driver**

Acute physical  
Cyclone, hurricane, typhoon

**Primary potential impact**

Increased operating costs

**Company-specific description**

The Nassau Project is a port project carried out in the Bahamas, which carries risks such as hurricanes and associated sea swell for a significant part of the year.

**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)**

7,000,000

**Potential financial impact figure - minimum (currency)**

**Potential financial impact figure - maximum (currency)**

**Explanation of financial impact**

When the damage to the Nassau project is evaluated with the insurance costs, it is calculated as 7.000.000 USD over almost 10% of its income.

**Primary response to risk**

Amend the Business Continuity Plan

**Description of response**

"Hurricane Management Plan" has been developed in the Project to manage the impact caused by extreme weather conditions. In this context, regular meteorological monitoring services are received from a 3rd party company and operations are planned accordingly. In case of a hurricane warning, the situation is monitored and recorded in 72-48-36-24-12-hour periods, and the evacuation plan is implemented when necessary. In addition, preserving aquatic life in operations at the project site is a top priority. For this reason, 'environmental monitors' in the field throughout the entire shift continuously monitor the situations that may cause pollution and make the necessary reports. In addition, 'spill response' teams are formed and specially trained in the Project, and it should be ensured that there is a spill response employee in each team. Again, spill response equipment is available in all offshore equipment, and it is ensured that it operates with a spill response employee in operations.

In addition, natural life is monitored in the project area, and in case of detection of any aquatic creatures, marine activities are stopped.

**Cost of response**

30,000

**Explanation of cost of response**

The amount of person-hours spent for the Hurricane Management Plan implementation and the cost of personnel responsible for its updates.

**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**

Chronic physical

Water scarcity

**Primary potential impact**

Increased operating costs

**Company-specific description**

Suppliers of ENKA, 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**

20,000

**Explanation of cost of response**

As 5% of total procurement from this region.

---

**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 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)**

5,000

**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 or travel costs for internal investigations.

**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**

50,000

**Explanation of cost of response**

On-site audits performed at suppliers' premises.

---

**Country/Area & River basin**

Libya  
Lake Chad

**Stage of value chain**

Supply chain

**Type of risk & Primary risk driver**

Chronic physical  
Water scarcity

**Primary potential impact**

Increased operating costs

**Company-specific description**

Suppliers of ENKA, for construction/infrastructure projects in Middle East and Africa, face problems in access to water resources. Therefore, water is supplied from distant sources. Libya is at a critical geography where baseline water stress and draught risks are extremely high. 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)**

3,000,000

**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**

30,000

**Explanation of cost of response**

As 5% of total procurement from this region.

## 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**

Hydrostatic tests are one of the activities with the highest water consumption in power plant projects. In these projects, in the hydrostatic tests carried out in 4 stages (40 m<sup>3</sup>, 28 m<sup>3</sup>, 20 m<sup>3</sup>, 35 m<sup>3</sup>) in the HRSG units, approximately 200 m<sup>3</sup> savings are achieved by storing the water used

in the 1st unit and transferring it to the second unit. In hydrostatic tests of 1 Raw Water and 2 Demin Water Tanks, each with a capacity of 400 m<sup>2</sup>, water is saved by the same method and transferred from one tank to the other, resulting in a water saving of 800 m<sup>3</sup> and a total of over 1000 m<sup>3</sup>.

**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 15,712 m3 of water consumption in the Tengiz Oil Field Development Works Project, in 2022.

**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)**

30,000

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact**

Amount of water saved in 2022 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**

Awarded contracts for projects that benefit water resources or preserve water quality in areas with significant water stress are made possible by ENKA's engineering and construction experience in the region and its sustainability approach. PW2 project in Iraq serves as one of most recent examples. As part of the Produced Water Facility (PW2) project in Iraq, precise engineering, procurement, construction, and commissioning work is being done for three water treatment unit lines, an oily wastewater tank, a control building, transfer pumps, and all auxiliary systems. Drilling wells in the project region produce water and petroleum mixtures. Depending on the formation from which it is extracted, petroleum-containing wastewater has a variety of components, primarily oil and grease, sulfide, metals, and suspended and dissolved solids. In addition to the soil, water, air, the living things are also in danger because of these harmful components. Typically, such wastewater is returned to the desert environment by the oil drilling or processing parties. However, in this project, the wastewater will be sent to the PW2 facility, where water and petroleum products will be separated before being sent to the oil processing facility via a separate line. The leftover water's sludge will be collected as waste and settles in tanks. 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. The residual water can then be used to drill for oil and returned to the system as recovered water. Reintroducing the water to the system will stop the need to repeatedly remove clean water from rivers for oil drilling. Withdrawal of 11.6 million cubic meters of sea water from its source was prevented and the release of the same amount of harmful oily wastewater into the environment was prevented by the project. In addition to the reuse of wastewater, it also enabled the use of up to 2000 barrels of oil per day.

Process and design safety is one of the priority issues in the project. An ESD (Emergency Shut Down) system, which is independent of the facility's control system, is used in case of emergency, since water is dealt with at very high flow rates and wastewater carrying flammable substances at very high speeds.

### **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 similar 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 (Steel) 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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

53.4

**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**

52.6

**Withdrawals from groundwater - non-renewable**

0

**Withdrawals from produced/entrained water**

0

**Withdrawals from third party sources**

0.8



**Total water discharges at this facility (megaliters/year)**

15.8

**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**

15.8

**Total water consumption at this facility (megaliters/year)**

37.6

**Comparison of total consumption with previous reporting year**

Higher

**Please explain**

Reason of the increase was the increase in the production of the company.

---

**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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

28.4

**Comparison of total withdrawals with previous reporting year**

Higher

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

0.8

**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**

27.6

**Total water discharges at this facility (megaliters/year)**

27.6

**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**

27.6

**Total water consumption at this facility (megaliters/year)**

0.8

**Comparison of total consumption with previous reporting year**

Higher

**Please explain**

Reason of the increase was the increase in the production of the company.

---

**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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

8.3

**Comparison of total withdrawals with previous reporting year**

Higher

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

0.6

**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**

7.7

**Total water discharges at this facility (megaliters/year)**

7.7

**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**

7.7

**Total water consumption at this facility (megaliters/year)**

0.6

**Comparison of total consumption with previous reporting year**

Higher

**Please explain**

Reason of the increase was the increase in the production of the company.

---

**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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

16.4

**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**

16.4

**Total water discharges at this facility (megaliters/year)**

16.4

**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**

16.4

**Total water consumption at this facility (megaliters/year)**

0

**Comparison of total consumption with previous reporting year**

About the same

**Please explain**

Withdrawal and discharge values are higher because of the increase in the numbers of employees and coverage at the headquarters.

---

**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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

15.9

**Comparison of total withdrawals with previous reporting year**

Lower

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

0.8

**Withdrawals from brackish surface water/seawater**

0

**Withdrawals from groundwater - renewable**

0

**Withdrawals from groundwater - non-renewable**

0

**Withdrawals from produced/entrained water**

0.8

**Withdrawals from third party sources**

14.3

**Total water discharges at this facility (megaliters/year)**

14.3

**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**

14.3

**Total water consumption at this facility (megaliters/year)**

1.6

**Comparison of total consumption with previous reporting year**

Higher

**Please explain**

Due to the operational efficiency initiatives, water withdrawal has been decreased. Water consumption slightly increased due to increase in operations.

**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

**Primary power generation source for your electricity generation at this facility**

Gas

**Total water withdrawals at this facility (megaliters/year)**

12,391

**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**

12,257

**Withdrawals from groundwater - renewable**

27

**Withdrawals from groundwater - non-renewable**

0

**Withdrawals from produced/entrained water**

107

**Withdrawals from third party sources**

0

**Total water discharges at this facility (megaliters/year)**

7,808

**Comparison of total discharges with previous reporting year**

Lower

**Discharges to fresh surface water**

0

**Discharges to brackish surface water/seawater**

7,800

**Discharges to groundwater**

0

**Discharges to third party destinations**

8

**Total water consumption at this facility (megaliters/year)**

4,449

**Comparison of total consumption with previous reporting year**

About the same

**Please explain**

Due to water efficiency initiatives and also changes in the production amount, the values decreased.

---

**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

**Primary power generation source for your electricity generation at this facility**

Gas

**Total water withdrawals at this facility (megaliters/year)**

212.1

**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**

212.1

**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)**

212.1

**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**

212.1

**Total water consumption at this facility (megaliters/year)**

0

**Comparison of total consumption with previous reporting year**

About the same

**Please explain**

There wasn't any significant changes in the values of this facility.

---

**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

**Primary power generation source for your electricity generation at this facility**

Gas

**Total water withdrawals at this facility (megaliters/year)**

106

**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**

106

**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)**

106

**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**

106

**Total water consumption at this facility (megaliters/year)**

0

**Comparison of total consumption with previous reporting year**

About the same

**Please explain**

There wasn't any significant changes in the values of this facility.

---

**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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

159

**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**

159

**Total water discharges at this facility (megaliters/year)**

159

**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**

159

**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. Due to the increase in th occupancy rates of the building, water withdrawal increased.

---

**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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

512

**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

**Withdrawals from groundwater - non-renewable**

0

**Withdrawals from produced/entrained water**

0

**Withdrawals from third party sources**

512

**Total water discharges at this facility (megaliters/year)**

422

**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**

422

**Total water consumption at this facility (megaliters/year)**

90

**Comparison of total consumption with previous reporting year**

About the same

**Please explain**

the values remained same for ENKA TC 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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

64.4

**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**

64.4

**Total water discharges at this facility (megaliters/year)**

64.4

**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**

64.4

**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 Krasnye Holmy because it is impossible to monitor discharges in real time. Therefore  $W+C = D$  formula is utilized. Water withdrawals and discharge were decreased due to operational changes and water efficiency initiatives.

---

**Facility reference number**

Facility 12

**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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

298.4

**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**

163

**Withdrawals from groundwater - non-renewable**

0

**Withdrawals from produced/entrained water**

15.2

**Withdrawals from third party sources**

120.2

**Total water discharges at this facility (megaliters/year)**

190.2

**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**

0

**Discharges to third party destinations**

190.2

**Total water consumption at this facility (megaliters/year)**

108.2

**Comparison of total consumption with previous reporting year**

Higher

**Please explain**

During the last year's reporting period, the project was at its early stages. As the project reached to its peak in operations, the water values has increased.

---

**Facility reference number**

Facility 13

**Facility name (optional)**

Tengiz Base Operations and Maintenance Works and 3GP project

**Country/Area & River basin**

Kazakhstan

Other, please specify

Caspian Sea Coast

**Latitude**

46.149406

**Longitude**

53.391381

**Located in area with water stress**

Yes

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

254.5

**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**

15.7

**Withdrawals from third party sources**

238.8

**Total water discharges at this facility (megaliters/year)**

254.5

**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**

254.5

**Total water consumption at this facility (megaliters/year)**

0



**Comparison of total consumption with previous reporting year**

Lower

**Please explain**

Due to the increase in the produced water, water consumption decreased. Tengiz base Operations and 3GP project are using the water resources mutually, so they were reported together this year.

---

**Facility reference number**

Facility 14

**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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

36.2

**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**

36.2

**Total water discharges at this facility (megaliters/year)**

36.2

**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**

36.2

**Total water consumption at this facility (megaliters/year)**

0

**Comparison of total consumption with previous reporting year**

About the same

**Please explain**

Operations of the project increased significantly, this is the main reason of the increase in withdrawal.

---

**Facility reference number**

Facility 15

**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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

57.5

**Comparison of total withdrawals with previous reporting year**

About the same

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

6.3

**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**

51.2

**Total water discharges at this facility (megaliters/year)**

51.2

**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**

51.2

**Total water consumption at this facility (megaliters/year)**

6.3

**Comparison of total consumption with previous reporting year**

Higher

**Please explain**

Total water withdrawal stayed the same, only water consumption was the rain water collected through the year.

---

**Facility reference number**

Facility 16

**Facility name (optional)**

Mosenka

**Country/Area & River basin**

Russian Federation

Volga

**Latitude**

55.773687

**Longitude**

37.614928

**Located in area with water stress**

Yes

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

16

**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

**Withdrawals from groundwater - non-renewable**

0

**Withdrawals from produced/entrained water**

0

**Withdrawals from third party sources**

16

**Total water discharges at this facility (megaliters/year)**

16

**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**

16

**Total water consumption at this facility (megaliters/year)**

0

**Comparison of total consumption with previous reporting year**

About the same

**Please explain**

The operations almost remained the same so the water values stayed almost the same.

---

**Facility reference number**

Facility 17

**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

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

15.7

**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**

15.7

**Total water discharges at this facility (megaliters/year)**

13

**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**

13

**Total water consumption at this facility (megaliters/year)**

2.7

**Comparison of total consumption with previous reporting year**

Higher

**Please explain**

Total water withdrawal decreased due to water efficiency initiatives and change in production. Production levels affected water consumption.

---

**Facility reference number**

Facility 18

**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**

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

27.5

**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**

27.5

**Total water discharges at this facility (megaliters/year)**

13.7

**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**

13.7

**Total water consumption at this facility (megaliters/year)**

13.8

**Comparison of total consumption with previous reporting year**

Higher

**Please explain**

Water withdrawal decreased due to the water efficiency initiatives and changes in the production. Water consumption values increased due to better monitoring systems installed compared to last year.

---

**Facility reference number**

Facility 19

**Facility name (optional)**

Yandex Project

**Country/Area & River basin**

Russian Federation

Volga

**Latitude**

55.680777

**Longitude**

37.533892

**Located in area with water stress**

Yes

**Primary power generation source for your electricity generation at this facility**

Not applicable

**Total water withdrawals at this facility (megaliters/year)**

33.4

**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**

33.4

**Total water discharges at this facility (megaliters/year)**

33.4

**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**

33.4

**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 is a new construction project of ENKA and it is the first time of reporting.

## 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 the scope (including value chain stages) covered by the policy Description of business dependency on water Description of business impact on water	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 ( <a href="https://www.enka.com/sustainability/">https://www.enka.com/sustainability/</a> ) 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

	<p>Commitment to align with international frameworks, standards, and widely-recognized water initiatives</p> <p>Commitment to prevent, minimize, and control pollution</p> <p>Commitment to reduce water withdrawal and/or consumption volumes in direct operations</p> <p>Commitment to stakeholder education and capacity building on water security</p> <p>Commitment to the conservation of freshwater ecosystems</p> <p>Commitments beyond regulatory compliance</p> <p>Reference to company water-related targets</p> <p>Recognition of environmental linkages, for example, due to climate change</p>	<p>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> <p><a href="https://www.enka.com/sustainability/sustainability-targets/">https://www.enka.com/sustainability/sustainability-targets/</a></p> <p><a href="https://www.enka.com/sustainability/home/strategy/">https://www.enka.com/sustainability/home/strategy/</a></p> <p><a href="https://www.enka.com/sustainability/home/health-safety-environment/environment-management-approach-policy/">https://www.enka.com/sustainability/home/health-safety-environment/environment-management-approach-policy/</a></p> <p><a href="https://www.enka.com/allfiles/media/posters/HSSE_POLICY_ENG.pdf">https://www.enka.com/allfiles/media/posters/HSSE_POLICY_ENG.pdf</a></p> <p><a href="https://www.enka.com/sustainability/home/strategy/sustainability-policy/">https://www.enka.com/sustainability/home/strategy/sustainability-policy/</a></p> <p><a href="https://www.enka.com/allfiles/pdf/ENKA_Sustainability_Report_2022.pdf">https://www.enka.com/allfiles/pdf/ENKA_Sustainability_Report_2022.pdf</a></p> <p> 1</p>
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 1 ENKA\_Sustainability\_Report\_2022.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 or committee	Responsibilities for water-related issues
Board Chair	The overall accountability for water and climate change within ENKA lies with the Chairman of the Board. The ENKA Board of Directors has oversight of all areas of risk, including climate change and water-related issues. The Chairman of the Board leads the Sustainability Committee and also gets direct reports from the Corporate Sustainability and Compliance and Corporate HSE Departments. ENKA's Sustainability Goals, including GHG emission targets, water targets and renewable energy projects are approved by the Chairman of the Board. Special initiatives may also commenced by Chairman of the Board, leading the way for the sustainable practices within the company.
Other, please specify Sustainability Committee	The Sustainability Committee is responsible for assessing economic, social and environmental risks and opportunities that may have an impact on ENKA's assets and business activities, to monitor and analyse relevant sustainability issues, to identify the sustainability strategy and to undertake projects to realize goals. The Committee, which is led by ENKA's Chairman of the Board, reports results obtained from all operations to ENKA's senior management. The Committee's role is to review and advise the Board and CEO on policies and performance against ENKA's sustainability procedures, ENKA's Code of Business Conduct, and mandatory HSE standards as well as ENKA's Sustainability Goals. In addition to sustainability goals, HSE targets include many objectives such as zero 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 these targets have been updated in 2022. All group companies either employ HSE and/or Sustainability experts or have established sustainability departments. HSE and sustainability performance, depending on each



	<p>subsidiary’s procedure, is reported monthly to the Sustainability Committee. ENKA Sustainability Committee 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 Board by the Vice President of Quality, HSE, Sustainability &amp; Compliance, Communications and IT.</p>
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## 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	<ul style="list-style-type: none"> <li>Monitoring implementation and performance</li> <li>Monitoring progress towards corporate targets</li> <li>Overseeing and guiding public policy engagement</li> <li>Overseeing major capital expenditures</li> <li>Providing employee incentives</li> <li>Reviewing and guiding annual budgets</li> </ul>	<p>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 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 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 and these goals were updated in 2022. 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</p>

	<p>Reviewing and guiding business plans</p> <p>Reviewing and guiding corporate responsibility strategy</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 innovation/R&amp;D priorities</p> <p>Setting performance objectives</p>	<p>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 Board by the Vice President of Quality, HSE, Sustainability &amp; Compliance, Communications and IT.</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. Until that time ENKA provides water related trainings to its existing executive members of the board.
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## 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)**

Chief Executive Officer (CEO)

**Water-related responsibilities of this position**

Monitoring progress against water-related corporate targets

Managing public policy engagement that may impact water security

Integrating water-related issues into business strategy

Managing major capital and/or operational expenditures related to low water impact products or services (including R&D)

Providing water-related employee incentives

**Frequency of reporting to the board on water-related issues**

Less frequently than annually

**Please explain**

CEO of the company is also the Chairman of the Board of the Directors. Therefore actually the highest management level position with responsibility for water related issues is the Chairman of the Board. The Chairman of the Board is also the sponsor and the leader of the Sustainability Committee.

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

Other, please specify

Vice President for Quality, HSE, Sustainability & Compliance, Communications and IT

**Water-related responsibilities of this position**

- Managing water-related risks and opportunities
- Setting water-related corporate targets
- Monitoring progress against water-related corporate targets
- Managing public policy engagement that may impact water security
- Managing value chain engagement on water-related issues
- Managing annual budgets relating to water security
- Providing water-related employee incentives

**Frequency of reporting to the board on water-related issues**

More frequently than quarterly

**Please explain**

Corporate Sustainability and Compliance Department directly reports to the Vice President and the Vice President reports to the Chairman of the Board. The Vice President is also the president of the Sustainability Committee.

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

Sustainability committee

**Water-related responsibilities of this position**

- Assessing future trends in water demand
- Assessing water-related risks and opportunities
- Managing water-related risks and opportunities
- Conducting water-related scenario analysis
- Monitoring progress against water-related corporate targets
- Integrating water-related issues into business strategy
- Managing annual budgets relating to water security

Providing water-related employee incentives

**Frequency of reporting to the board on water-related issues**

Quarterly

**Please explain**

The Sustainability Committee is responsible for assessing economic, social and environmental risks and opportunities that may have an impact on ENKA's assets and business activities, to monitor and analyse relevant sustainability issues, to identify the sustainability strategy and to undertake projects to realize goals. The Committee, which is led by ENKA's Chairman of the Board, reports results obtained from all operations to ENKA's senior management.

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

Risk committee

**Water-related responsibilities of this position**

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**

ENKA's risk management structures are headed by the Early Identification of Risks Committee, which reports to the Board of Directors. The responsibilities of the Committee include implementing an effective risk management program throughout the company, ensuring the early detection of risks that might jeopardise the existence and sustainability of the company's value chain, and ensuring that the necessary actions are taken to eliminate, mitigate or control these identified risks.

The Early Identification of Risks Committee convenes at least once every two months and consist of the NonExecutive Members of the Board of Directors. Department managers and project management teams are primarily responsible for the operational risks that pertain to their own activities. These teams report risks that are considered to be critical or of high priority to the Working Group and the Committee

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

Environment/Sustainability manager

**Water-related responsibilities of this position**

Assessing future trends in water demand  
Assessing water-related risks and opportunities  
Managing water-related risks and opportunities  
Conducting water-related scenario analysis  
Setting water-related corporate targets  
Monitoring progress against water-related corporate targets  
Managing public policy engagement that may impact water security  
Managing value chain engagement on water-related issues  
Managing annual budgets relating to water security

**Frequency of reporting to the board on water-related issues**

More frequently than quarterly

**Please explain**

Corporate Sustainability and Compliance Manager is leading the operation of the Corporate Sustainability and Compliance Department and reports to the Vice President. Corporate Sustainability and Compliance Department, for its part, continued its activities in 2022 with work on improving the Sustainability Management and Ethics and Compliance Program further, on maintaining the implementation of the sustainability strategy in all ENKA units and extending it to ENKA's value chain, on developing sustainability practices within the company and in conjunction with external stakeholders, on representing the company in local and international organisations with respect to sustainability and compliance, on auditing the projects and subsidiaries for sustainability and compliance, on completing the update of company's sustainability goals and on monitoring ESG performance of the company and maintaining and increasing its success in related external assessments within this scope.

## 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	Contribution of incentives to the achievement of your organization's water commitments	Please explain
Monetary reward	Other, please specify Management Group	Reduction of water withdrawals – direct operations Improvements in water efficiency – direct operations	By implementing this incentive program, the project management teams focuses on their projects' sustainability KPIs and targets including water-related targets and performance in a more motivated way. This helps the company in achieving its	Incentives for successful management of sustainability and water 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

		Increased investment in water-related R&D Implementation of water-related community project	sustainability and waterrelated targets.	management and environmental performance of corporate and project executives and rewarded with yearly premiums according to their seniority and experience.
Non-monetary reward	Other, please specify All Employees	Reduction of water withdrawals – direct operations Improvements in water efficiency – direct operations Improvements in wastewater quality – direct operations Implementation of water-related community project	Encouraging employees to become active practitioners of company's sustainability procedures and initiatives. Raising awareness among employees to achieve company's sustainability and water related targets.	Recognition incentives are in place for employees on HSE (Health, Safety, Environment) 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. 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.

## 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. 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. 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 bidding strategy has been diverted to cover more environmental friendly projects.

## 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)**

0

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

0

**Please explain**

We are not expecting a major change currently.

### 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**

This is an issue that will be discussed in 2023's sustainability committee meetings, and the strategy will be renewed.

## 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	Other, please specify Lack of international guidelines and standards	As a company operating in construction industry, we are searching for internationally recognized standards for our operations' classification.

## W8. Targets

### W8.1

**(W8.1) Do you have any water-related targets?**

Yes

#### W8.1a

**(W8.1a) Indicate whether you have targets relating to water pollution, water withdrawals, WASH, or other water-related categories.**

	Target set in this category	Please explain
Water pollution	No, but we plan to within the next two years	
Water withdrawals	Yes	
Water, Sanitation, and Hygiene (WASH) services	No, but we plan to within the next two years	
Other	Yes	

#### W8.1b

**(W8.1b) Provide details of your water-related targets and the progress made.**

---

**Target reference number**

Target 1

**Category of target**

Product water intensity

**Target coverage**

Business division

**Quantitative metric**

Reduction per unit of production

**Year target was set**

2019

**Base year**

2019

**Base year figure**

0.04

**Target year**

2022

**Target year figure**

0.03

**Reporting year figure**

0.03

**% of target achieved relative to base year**

100

**Target status in reporting year**

Achieved

**Please explain**

This target was set for unit production of electricity.

---

**Target reference number**

Target 2

**Category of target**

Product water intensity

**Target coverage**

Business division

**Quantitative metric**

**Year target was set**

2017

**Base year**

2017

**Base year figure**

20

**Target year**

2030

**Target year figure**

15

**Reporting year figure**

17.4

**% of target achieved relative to base year**

52

**Target status in reporting year**

Underway

**Please explain**

Çimtaş's target of keeping domestic water consumption below 15 litres/person-hour.

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**Target reference number**

Target 3

**Category of target**

Water recycling/reuse

**Target coverage**

Site/facility

**Quantitative metric**

Increase in investment related to water recycling/reuse

**Year target was set**

2022

**Base year**

2019

**Base year figure**

1,200

**Target year**

2030

**Target year figure**

3,000

**Reporting year figure**

2,336

**% of target achieved relative to base year**

63.1111111111

**Target status in reporting year**

Underway

**Please explain**

Çimtaş's target for increasing the water recycling and use of rainwater, in m3.

---

**Target reference number**

Target 4

**Category of target**

Water withdrawals

**Target coverage**

Business division

**Quantitative metric**

Reduction in total water withdrawals

**Year target was set**

2022

**Base year**

2018

**Base year figure**

929,995

**Target year**

2030

**Target year figure**

506,233

**Reporting year figure**

808,923

**% of target achieved relative to base year**

28.5707543385

**Target status in reporting year**

Underway

**Please explain**

ENKA's real estate operations will decrease the amount of total water consumption in m3



## 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 2022 were subject to limited assurance according to ISAE 3000 and ISAE 3410 standards. Verification document is also available in ENKA's 2022 sustainability report: <a href="https://www.enka.com/allfiles/pdf/ENKA_Sustainability_Report_2022.pdf">https://www.enka.com/allfiles/pdf/ENKA_Sustainability_Report_2022.pdf</a>

## W10. Plastics

### W10.1

(W10.1) Have you mapped where in your value chain plastics are used and/or produced?

	Plastics mapping	Please explain
Row 1	Not mapped – but we plan to within the next two years	

## W10.2

**(W10.2) Across your value chain, have you assessed the potential environmental and human health impacts of your use and/or production of plastics?**

	Impact assessment	Please explain
Row 1	Not assessed – but we plan to within the next two years	

## W10.3

**(W10.3) Across your value chain, are you exposed to plastics-related risks with the potential to have a substantive financial or strategic impact on your business? If so, provide details.**

	Risk exposure	Please explain
Row 1	No, risks assessed, and none considered as substantive	

## W10.4

**(W10.4) Do you have plastics-related targets, and if so what type?**

	Targets in place	Target type	Target metric	Please explain
Row 1	Yes	Waste management	Other, please specify As ENKA Group, we intend to never compromise from our policy that banned plastic bottle usage.	This goal was suspended due to pandemic measures in 2020 and 2021. The policy of banning plastic bottles has been gradually reapplied.

## W10.5

**(W10.5) Indicate whether your organization engages in the following activities.**

	Activity applies	Comment

Production of plastic polymers	No	
Production of durable plastic components	No	
Production / commercialization of durable plastic goods (including mixed materials)	No	
Production / commercialization of plastic packaging	No	
Production of goods packaged in plastics	No	
Provision / commercialization of services or goods that use plastic packaging (e.g., retail and food services)	No	

## W11. 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.**

### W11.1

**(W11.1) Provide details for the person that has signed off (approved) your CDP water response.**

	Job title	Corresponding job category
Row 1	Chairman of the Board and President and Corporate sustainability and Compliance Department	Board chair

## Submit your response

**In which language are you submitting your response?**



English

**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	Yes	Public

**Please indicate your consent for CDP to share contact details with the Pacific Institute to support content for its Water Action Hub website.**

Yes, CDP may share our Main User contact details with the Pacific Institute

**Please confirm below**

I have read and accept the applicable Terms