



## Water 2015 Information Request AKÇANSA ÇİMENTO SANAYİ VE TİCARET A.Ş.

### Module: Introduction

#### Page: W0. Introduction

#### W0.1

#### Introduction

**Please give a general description and introduction to your organization.**

#### Company profile :

Akcansa joint venture of Sabancı Holding and HeidelbergCement is the biggest cement producer of Turkey, and leader company of the industry. Akcansa was established with the merger of Akçimento (established in 1967) and Çanakkale Çimento (established in 1974) in 1996. Active in the Marmara, Aegean and Black Sea Regions, Akçansa produces cement and clinker in its three factories located in İstanbul-Büyükçekmece, Çanakkale and Samsun-Ladik. The Company also has five cement terminals. Akcansa provides service under the “Betonsa” brand to produce and sell ready-mixed concrete in over 35 plants throughout the Marmara and Aegean regions, and aggregate under the “Agregasa” brand in its 4 aggregate plants.

As the leader of the Turkish cement industry, Akçansa supplies 10% of our country’s cement demand and 12,5% of the country’s total cement and clinker exports. In addition to being identified as an environmentally friendly company with the award given by the İstanbul Chamber of Commerce, the Company maintains its leadership position through its outstanding service approach and its facilities that are equipped with the latest technology.

#### Sustainability strategy :

Akcansa vision is to maintain sustainable growth beyond all limits in the building materials industry and to be trusted by all our stakeholders and to have the most preferred business model. The mission is to create value for our customers through the use of our innovative products, services and solutions, our stakeholders with our outstanding financial performance, our employees who form the focus point of our business model by providing constant improvement opportunities through our culture that is committed to upholding social, environmental, legal and ethical values.

The Board of Directors and the Executive Committee is highly engaged in sustainability policy and Akcansa 2020 Sustainability ambitions focused on 6 pillars defined with the guidance of World Business Council for Sustainable Development (WBCSD) Cement Sustainability Initiative (CSI) key actions and our local stakeholder priorities.

These pillars are namely occupational health and safety, sustainable supply chain management, promoting biodiversity, protecting the climate and the environment, sustainable construction and stakeholder engagement. We have defined precise targets for these pillars in the Akcansa Sustainability Ambitions, which we intend to achieve by 2020.

In 2015 Akcansa top management decided to join CDP Road to Paris project to commit to responsible corporate engagement in climate policy.

#### Sustainability management:

Akcansa Sustainability Committee, directly reporting to the Executive Committee and indirectly to the Board of Directors, led by the Technical Director (member of Executive Committee) is in charge of the management and control of the sustainability and climate protection strategy. The committee is made up of people from various business lines and disciplines: Health&Safety, Purchasing, Raw materials&Environment, R&D, Communication and Human Resources. Operational responsibility for implementing the sustainability and climate protection goals and measures lies with the individual departments, the line managers and the employees. It was set up in 2009 with the aim of improving our performance in environmental protection and occupational safety and promoting the information between the business lines.

Akcansa puts water management in one of the focus topics of biodiversity, climate and environmental protection. From 2009 water extraction figures are reported via Company Sustainability Reports. In 2013, Akcansa put water

management and reduction targets towards 2020. As a preliminary step World Business Council Sustainable Development Cement Sustainable Initiative Water Reporting Protocol and guideline has been initiated.

For further information about the company and its organization, please visit [www.akcansa.com.tr](http://www.akcansa.com.tr) and see 2014 annual report

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**W0.2****Reporting year**

Please state the start and end date of the year for which you are reporting data.

**Period for which data is reported**

Wed 01 Jan 2014 - Wed 31 Dec 2014

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**W0.3****Reporting boundary**

Please indicate the category that describes the reporting boundary for companies, entities, or groups for which water-related impacts are reported.

Companies, entities or groups over which operational control is exercised

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**W0.4****Exclusions**

Are there any geographies, facilities or types of water inputs/outputs within this boundary which are not included in your disclosure?

Yes

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**W0.4a****Exclusions**

Please report the exclusions in the following table

Exclusion	Please explain why you have made the exclusion
Head offices	AkcanSA takes in account of the water footprint in the head office but the data is not mentioned in the sustainability report and is not material.
Guest houses	AkcanSA takes in account of the water footprint in the guest houses but the data is not mentioned in the sustainability report and is not material.
Ready-mix concrete plants, aggregate plants, terminals	AkcanSA takes in account of the water footprint in all its plants. In first year of reporting, it is decided to start with reporting only cement plants.

#### Further Information

Akcansa 2014 Annual report has been attached for further information.

#### Attachments

[https://www.cdp.net/sites/2015/33/35233/Water\\_2015/Shared Documents/Attachments/Water2015/W0.Introduction/2014\\_Akcansa\\_Annual\\_Report.pdf](https://www.cdp.net/sites/2015/33/35233/Water_2015/Shared_Documents/Attachments/Water2015/W0.Introduction/2014_Akcansa_Annual_Report.pdf)

### Module: Current State

#### Page: W1. Context

##### W1.1

Please rate the importance (current and future) of water quality and water quantity to the success of your organization

Water quality and quantity	Direct use importance rating	Indirect use importance rating	Please explain
Sufficient amounts of good quality freshwater available for use	Important	Not very important	Safe and good quality groundwater is used in the cement operations.
Sufficient amounts of recycled, brackish and/or produced water available for use	Not very important	Not very important	Treated waste water and runoff water is recycled in cleaning, spraying for dust emission.

##### W1.2

For your total operations, please detail which of the following water aspects are regularly measured and monitored and provide an explanation as to why or why not

Water aspect	% of sites/facilities/operations	Please explain
Water withdrawals-total volumes	76-100	In order to implement water management measures and to meet stakeholders' expectations, water data need to be credible, relevant and easy to understand. This requires the consistent use of metrics, terminology and definitions. Therefore Akcansa regularly monitors total water amount withdrawn from. Akcansa monthly tracks water footprint and check well permit limit values, evaluates water amount with respect to seasonal fluctuations and production volumes.
Water withdrawals-volume by sources	76-100	In order to implement water management measures and to meet stakeholders' expectations, water data need to be credible, relevant and easy to understand. This requires the consistent use of metrics, terminology and definitions. Therefore Akcansa monthly tracks water footprint by

Water aspect	% of sites/facilities/operations	Please explain
		sources, to evaluate the stress created on different sources.
Water discharges- total volumes	76-100	According to CSI water reporting guideline, domestic waste water discharges are not taken into account to be able to make an industrial benchmark. Additionally, according to the Turkish regulation, discharges below 10,000 m3/day are not required to be continuously measured. In our facilities wastewater treatment plants are permitted based on daily average discharge flowrate. The discharge volumes are accepted as defined in the permits. Total volumes are calculated by adding up all discharges.
Water discharges- volume by destination	76-100	According to CSI water reporting guideline, domestic waste water discharges are not taken into account to be able to make an industrial benchmark. Additionally, according to the Turkish regulation, discharges below 10,000 m3/day are not required to be continuously measured. In our facilities wastewater treatment plants are permitted based on daily average discharge flowrate. The discharge volume is accepted as defined in the permits by destination.
Water discharges- volume by treatment method	76-100	According to CSI water reporting guideline, domestic waste water discharges are not taken into account to be able to make an industrial benchmark. Additionally, according to the Turkish regulation, discharges below 10,000 m3/day are not required to be continuously measured. In our facilities wastewater treatment plants are permitted based on daily average discharge flowrate. The discharge volume is accepted as defined in the permits by destination. We monitor each treatment unit discharge, but we do not report volumes by treatment method.
Water discharge quality data- quality by standard effluent parameters	76-100	According to CSI water reporting guideline, domestic waste water discharges are not taken into account to be able to make an industrial benchmark. Quality by standard effluent parameters are measured regularly according to regulation. At three discharge points, measurements done every 2 months and at the other two points, every 4 months.
Water consumption- total volume	76-100	According to CSI Water protocol and guideline, the water consumption is the difference between the withdrawal and the discharge.
Facilities providing fully-functioning WASH services for all workers	76-100	In all the facilities, clean water access is available for sanitation and hygiene purposes.

#### W1.2a

**Water withdrawals: for the reporting year, please provide total water withdrawal data by source, across your operations**

Source	Quantity (megaliters/year)	How does total water withdrawals for this source compare to the last reporting year?	Comment
Fresh surface water	0	Not applicable	Fresh surface water is not used.
Brackish surface water/seawater	0	Not applicable	Brackish surface water / seawater is not used.
Rainwater	0	Not applicable	Rainwater which is contaminated with run-off water is collected and reused in all the facilities. But it is not calculated yet.
Groundwater - renewable	1860.48	Higher	Waste heat power generation system produced more energy and de-dusting

Source	Quantity (megaliters/year)	How does total water withdrawals for this source compare to the last reporting year?	Comment
			activities in open stock areas and cleaning increased water withdrawal amount in 2014. (2013 amount: 1682 megaliters)
Groundwater - non-renewable	0	Not applicable	Groundwater - non-renewable is not used.
Produced/process water	0	Not applicable	Produced/process water is not used.
Municipal supply	57.50	Lower	Instead of municipal water, groundwater was used more in 2014. (2013 amount: 186 megaliters)
Wastewater from another organization	0	Not applicable	Wastewater from another organization is not used.
Total	1918	Higher	Waste heat power generation system produced more energy and de-dusting activities in open stock areas and cleaning increased water withdrawal amount in 2014. (2013 amount: 1876 megaliters)

#### W1.2b

**Water discharges:** for the reporting year, please provide total water discharge data by destination, across your operations

Destination	Quantity (megaliters/year)	How does total water discharged to this destination compare to the last reporting year?	Comment
Fresh surface water	220.66	About the same	
Brackish surface water/seawater	29.06	About the same	
Groundwater	0	Not applicable	
Municipal treatment plant	0	Not applicable	According to CSI water reporting guideline, domestic waste water discharges are not taken into account.
Total	249.66	About the same	

#### W1.2c

**Water consumption:** for the reporting year, please provide total water consumption data, across your operations

Consumption (megaliters/year)	How does this consumption figure compare to the last reporting year?	Comment
1668.34	Higher	Consumption is not measured but calculated from the water balance equation. 2013: 1161.01 megaliters. Waste heat power generation system produced more energy in 2014 thus water consumption is increased in 2014.

#### W1.4

Has your organization experienced any detrimental impacts related to water in the reporting period?

Yes

**W1.4a**

Please describe the detrimental impacts experienced by your organization related to water in the reporting year

Country	River basin	Impact indicator	Impact	Description of impact	Length of impact	Overall financial impact	Response strategy	Description of response strategy
Turkey	Other: Tersakan Creek	Phys-Increased water scarcity	Higher operating costs	In the existing wells, water scarcity was observed so two water wells were drilled and waste water recovery system is established.	6 months	Increased water cost, investment cost for new well and treated waste water recovery system.	Infrastructure investment Promote best practice and awareness Establish site-specific targets Water management incentives	-Infrastructure investment: Well + treated waste water recovery system. - Promote best practice and awareness: In neighbourhood council, information given about drought in the region and measures taken in Ladik Cement Plant. - Site-specific targets are established in cement plants. - Water targets are integrated into employee performance scorecards. For high performance, employees will be awarded. Decided to respond CDP water.

**Further Information**

**Module: Risk Assessment**

**Page: W2. Procedures and Requirements**

**W2.1**

Does your organization undertake a water-related risk assessment?

Water risks are assessed

## W2.2

Please select the options that best describe your procedures with regard to assessing water risks

Risk assessment procedure	Coverage	Scale	Please explain
Comprehensive company-wide risk assessment	Direct operations	All facilities	Akcansa Risk Management prioritizes the risks according to their qualitative and quantitative effects with an overall perspective. The quantitative effects are represented as an expected value in monetary figures. Opportunities are managed in the same manner by the Business Strategy unit. Qualitative effects are managed according to the severity of the effect and probability of occurrence. The systematic is defined in a procedure in compliance with the Heidelberg Cement Risk Management Guidelines and ISO 31000 standards. The risks and opportunities are identified and presented to Risk Committee (established to report Corporate Governance committee) in each and every two months. Insurance program is wide enough to cover environmental effects/pollutions minimum. All the negative effects are covered by below stated insurance policies: Coastal Plants Marine Pollution, Fuel Tanks Insurance, Ladik Paper Bag Fire Insurance, Third Party liability insurance. AkcanSA evaluates general environmental sustainability risks. A specific water risk assessment hasn't been implemented yet, it is planned to be assessed in details in 2016. Water risks are evaluated within different reports and tools.

## W2.3

Please state how frequently you undertake water risk assessments, what geographical scale and how far into the future you consider risks for each assessment

Frequency	Geographic scale	How far into the future are risks considered?	Comment
Six-monthly or more frequently	Country	>6 years	Akcansa's water strategies are shaped by the Corporate Governance Committee that directly reports to Board of Directors. Environmental management, health and safety and risk management departments in accordance with sustainability committee actions and directions ensures coordination and management of the issue within organization. Operations and energy procurement departments are responsible for collecting data, including energy consumption and implementation of energy saving practices.
Annually	Facility	1 to 3 years	In Management Review Meeting, risks for each facility are reviewed.
Six-monthly or more frequently	Facility	Up to 1 year	Reporting is done in monthly basis to executive board. Water withdrawals, current status of water sources and water risks are evaluated.

## W2.4

Have you evaluated how water risks could affect the success (viability, constraints) of your organization's growth strategy?

Yes, evaluated over the next 5 years

#### W2.4a

**Please explain how your organization evaluated the effects of water risks on the success (viability, constraints) of your organization's growth strategy?**

In sustainability strategy studies, water was determined as a priority topic to manage for a sustainable growth. Although local stakeholders has not mentioned water as a main concern, AkcanSA put effective water management among its 2020 sustainability ambitions.

AkcanSA evaluated Falkenmark water stress map and it was observed that some facilities were located in potential water scarcity areas. The map can be seen in attached report page 25.

#### W2.5

**Please state the methods used to assess water risks**

Method	Please explain how these methods are used in your risk assessment
Internal company knowledge UNEP Vital Water Graphics Other: WBCSD Turkey Water Report	UNEP vital water graphics is used to find out global and national water problems and status. WBCSD Turkey Water Report is used to find out regional and local water problems within the relevant river basins. With all the information and water & climate change linkage, AkcanSA has evaluated the water risks at corporate level. The map can be seen in attached report page 25.

#### W2.6

**Which of the following contextual issues are always factored into your organization's water risk assessments?**

Issues	Choose option	Please explain
Current water availability and quality parameters at a local level	Relevant, included	In monthly basis, collected water quality data are checked and reported by environmental department to executive board. (Excom Reports)
Current water regulatory frameworks and tariffs at a local level	Relevant, included	Environmental department tracks the regulations and reports the status with the Legal Compliance Follow-up Report.
Current stakeholder conflicts concerning water resources at a local level	Not relevant, explanation provided	No complaints or conflict has occurred up till now.
Current implications of water on your key commodities/raw materials	Not evaluated	At local level, there are no problem in water source availability. Therefore, no implication water allocation or water use.
Current status of ecosystems and habitats at a local level	Not evaluated	Will be evaluated in the next 3 years.
Current river basin management plans	Not evaluated	N/A
Current access to fully-functioning WASH services for all employees	Not relevant, explanation provided	WASH Services is not a risk therefore not evaluated.
Estimates of future changes in water availability at a local level	Relevant, included	UNEP vital water graphics is used to find out global and national water problems and status. WBCSD Turkey Water



Issues	Choose option	Please explain
		Report is used to find out regional and local water problems within the relevant river basins. With all the information and water & climate change linkage, AkcanSA has evaluated the water risks at corporate level.
Estimates of future potential regulatory changes at a local level	Relevant, included	A new water law will be published. Coming law will allow government to allocate water which may lead to an increase in water costs of Canakkale Facility. This risk is evaluated in Excom reporting.
Estimates of future potential stakeholder conflicts at a local level	Not evaluated	N/A - after the new water law will be published, this risk will be evaluated.
Estimates of future implications of water on your key commodities/raw materials	Not evaluated	
Estimates of future potential changes in the status of ecosystems and habitats at a local level	Not evaluated	N/A
Scenario analysis of availability of sufficient quantity and quality of water relevant for your operations at a local level	Not evaluated	A site-specific water risk assessment hasn't been implemented yet so there is no scenario analysis.
Scenario analysis of regulatory and/or tariff changes at a local level	Not evaluated	A site-specific water risk assessment hasn't been implemented yet so there is no scenario analysis.
Scenario analysis of stakeholder conflicts concerning water resources at a local level	Not evaluated	A site-specific water risk assessment hasn't been implemented yet so there is no scenario analysis.
Scenario analysis of implications of water on your key commodities/raw materials	Not evaluated	A site-specific water risk assessment hasn't been implemented yet so there is no scenario analysis.
Scenario analysis of potential changes in the status of ecosystems and habitats at a local level	Not evaluated	A site-specific water risk assessment hasn't been implemented yet so there is no scenario analysis.
Other		

## W2.7

**Which of the following stakeholders are always factored into your organization's water risk assessments?**

Stakeholder	Choose option	Please explain
Customers	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
Employees	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
Investors	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
Local communities	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was

Stakeholder	Choose option	Please explain
		not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
NGOs	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
Other water users at a local level	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
Regulators	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
River basin management authorities	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
Statutory special interest groups at a local level	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
Suppliers	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
Water utilities/suppliers at a local level	Not evaluated	National and local stakeholder meetings are done annually where environmental concerns are discussed. So far, water management was not in the agenda of the stakeholders. A specific water risk assessment will be implemented in 2016.
Other		

#### Further Information

#### Attachments

[https://www.cdp.net/sites/2015/33/35233/Water\\_2015/Shared Documents/Attachments/Water2015/W2.ProceduresandRequirements/SKD\\_Su.pdf](https://www.cdp.net/sites/2015/33/35233/Water_2015/Shared_Documents/Attachments/Water2015/W2.ProceduresandRequirements/SKD_Su.pdf)

### Module: Implications

#### Page: W3. Water Risks

##### W3.1

**Is your organization exposed to water risks, either current and/or future, that could generate a substantive change in your business, operations, revenue or expenditure?**

Yes, direct operations and supply chain

##### W3.2

**Please provide details as to how your organization defines substantive change in your business, operations, revenue or expenditure from water risk**

Till the end of year 2014 Akcansa has not faced any operational issues, which has been affected or stopped by water management. Upon global water risk assessments and reports, it is anticipated that Turkey is potentially in water-scarcity area. Therefore, Akcansa defines water management under sustainability ambitions. Additionally, further site specific detailed risk assessments will be prepared in 2016. Please see page 14 of Sustainability Report in the attachments.

Following actions are integrated in company road map;

1. Implementation of CSI water guideline to all cement plants.
2. Water recovery studies in all cement plants.
3. New water sources like seawater desalination projects has been studied.

### W3.2a

**Please provide the number of facilities\* per river basin exposed to water risks that could generate a substantive change in your business, operations, revenue or expenditure and the proportion of total operations this represents**

Country	River basin	Number of facilities	Proportion of total operations exposed to risk within river basin (%)	Comment
Turkey	Other: Marmara Basin	1	31-40	The production site is located ±500 meters East from the Buyukcekmece Lake. Water is not directly extracted from the lake but from the 8 wells located on plant site. According to the Falkenmark water scarcity index, Marmara Basin is classified as potential water scarcity area.

### W3.2b

**Please provide the proportion of financial value that could be affected at river basin level associated with the facilities listed in W3.2a**

Country	River basin	Financial reporting metric	Proportion of chosen metric that could be affected within the river basin	Comment
Turkey	Other: Marmara Basin	% cost of goods sold	Less than 1%	Since the water supply costs will increase, this will likely affect the operation cost.

### W3.2c

**Please list the inherent water risks that could generate a substantive change in your business, operations, revenue or expenditure, the potential impact to your direct operations and the strategies to mitigate them**

Country	River basin	Risk driver	Potential impact	Description of impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
Turkey	Other:	Physical-Increase	Higher operating	Since the water supply	4-6 years	Probable	Low	Establish site-specific	The costs are related	In case of water scarcity

Country	River basin	Risk driver	Potential impact	Description of impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
		ed water scarcity	costs	costs will increase, this will likely affect the operation cost.				targets Infrastructure investment Promote best practice and awareness Water management incentives	to the construction of water recycling systems	from our wells, construction of a desalination system will be planned as an alternative source. The promotion of best practices and awareness do not pose considerable costs. Employees will have performance initiatives related water management and/or reduction target.

**W3.2d**

Please list the inherent water risks that could generate a substantive change in your business operations, revenue or expenditure, the potential impact to your supply chain and the strategies to mitigate them

Country	River basin	Risk driver	Potential impact	Description of impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
Turkey	Other:	Regulatory-Higher water prices	Higher operating costs	Since the water supply costs will increase, this will	>6 years	Unlikely	Low	Engagement with customers Engagement with	The promotion of best practices and awareness do not pose	The promotion of best practices and awareness do not pose

Country	River basin	Risk driver	Potential impact	Description of impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
				likely affect the operation cost.				suppliers Promote best practice and awareness	considerable costs. Stakeholder engagement projects might have communication and organizational cost.	considerable costs. Stakeholder engagement projects might have communication and organizational cost.

#### Further Information

#### Attachments

[https://www.cdp.net/sites/2015/33/35233/Water\\_2015/Shared Documents/Attachments/Water2015/W3.WaterRisks/Sustainability\\_Report.pdf](https://www.cdp.net/sites/2015/33/35233/Water_2015/Shared_Documents/Attachments/Water2015/W3.WaterRisks/Sustainability_Report.pdf)

#### Page: W4. Water Opportunities

#### W4.1

Does water present strategic, operational or market opportunities that substantively benefit/have the potential to benefit your organization?

Yes

#### W4.1a

Please describe the opportunities water presents to your organization and your strategies to realize them

Country or region	Opportunity	Strategy to realize opportunity	Estimated timeframe	Please explain
Turkey	Increased shareholder value	AkcanSA ambitions 2020 for water management is very clear.	Current-up to 1 year	With the help of the ambitions, Akcansa shows its progress in water management. The progress is communicated through the sustainability reports, stakeholder meetings.
Turkey	Cost savings	AkcanSA has runoff water recycling systems and is planning for rainwater collection systems.	1-3 years	This opportunity will help saving the water related costs.

#### Further Information

## Module: Accounting

### Page: W5. Facility Level Water Accounting (I)

#### W5.1

**Water withdrawals:** for the reporting year, please complete the table below with water accounting data for all facilities included in your answer to W3.2a

Facility reference number	Country	River basin	Facility name	Total water withdrawals (megaliters/year) at this facility	How does the total water withdrawals at this facility compare to the last reporting year?	Please explain the change if substantive
Facility 1	Turkey	Other: Marmara Basin	Buyukcekmece Cement Plant	322.70	Higher	2013 water withdrawal: 289.80 megaliters. De-dusting efforts in open stock areas and cleaning increased water withdrawal in 2014.
Facility 2	Turkey	Other: North Aegean Basin	Canakkale Cement Plant	1462.91	Higher	2013 water withdrawal: 1410.67 megaliters. Waste heat power generation system produced more energy in 2014 thus water withdrawal has increased in 2014.
Facility 3	Turkey	Other: Yesilirmak Basin	Ladik Cement Plant	132.39	Lower	2013 water withdrawal: 168.49 megaliters. De-dusting filter technology has changed from ESP to bagfilters in 2014 which uses less water. So water

Facility reference number	Country	River basin	Facility name	Total water withdrawals (megaliters/year) at this facility	How does the total water withdrawals at this facility compare to the last reporting year?	Please explain the change if substantive
						withdrawal decreased.

**Further Information**

**Page: W5. Facility Level Water Accounting (II)**

**W5.1a**

**Water withdrawals:** for the reporting year, please provide withdrawal data, in megaliters per year, for the water sources used for all facilities reported in W5.1

Facility reference number	Fresh surface water	Brackish surface water/sea water	Rainwater	Groundwater (renewable)	Groundwater (non-renewable)	Produced/process water	Municipal water	Wastewater from another organization	Comment
Facility 1	0	0	0	265.19	0	0	57.50	0	Underground wells are used as groundwater sources.
Facility 2	0	0	0	1462.91	0	0	0	0	Underground wells are used as groundwater sources.
Facility 3	0	0	0	132.38	0	0	0	0	Underground wells are used as groundwater sources.

**W5.2**

**Water discharge:** for the reporting year, please complete the table below with water accounting data for all facilities included in your answer to W3.2a

Facility reference number	Total water discharged (megaliters/year) at this facility	How does the total water discharged at this facility compare to the last reporting year?	Please explain the change if substantive
Facility 1	0	About the same	Industrial water is not discharged. Domestic discharged water is not taken into account.
Facility 2	249.66	About the same	
Facility 3	0	About the same	Industrial water is not discharged. Domestic discharged water is not taken into account.

#### W5.2a

**Water discharge:** for the reporting year, please provide water discharge data, in megaliters per year, by destination for all facilities reported in W5.2

Facility reference number	Fresh surface water	Municipal Treatment Plant	Seawater	Groundwater	Comment
Facility 1	0	0	0	0	Industrial water is not discharged. Domestic discharged water is not taken into account.
Facility 2	220.66	0	29.06	0	
Facility 3	0	0	0	0	Industrial water is not discharged. Domestic discharged water is not taken into account.

#### W5.3

**Water consumption:** for the reporting year, please provide water consumption data for all facilities reported in W3.2a

Facility reference number	Consumption (megaliters/year)	How does this compare to the last reporting year?	Please explain the change if substantive
Facility 1	322.69	Higher	De-dusting efforts in open stock areas and cleaning increased in 2014.
Facility 2	1213.24	Higher	Waste heat power generation system produced more energy in 2014.
Facility 3	132.39	Lower	De-dusting filter technology has changed from ESP to bagfilters in 2014 which uses less water.

#### W5.4

**For all facilities reported in W3.2a what proportion of their water accounting data has been externally verified?**

Water aspect	% verification	What standard and methodology was used?
Water withdrawals- total volumes	Not verified	The monitoring and reporting procedure is done by CSI water guideline. The reports are internally checked and confirmed by Heidelberg Cement. No formal verification methodology was used.



Water aspect	% verification	What standard and methodology was used?
Water withdrawals- volume by sources	Not verified	The monitoring and reporting procedure is done by CSI water guideline. The reports are internally checked and confirmed by Heidelberg Cement. No formal verification methodology was used.
Water discharges- total volumes	Not verified	The monitoring and reporting procedure is done by CSI water guideline. The reports are internally checked and confirmed by Heidelberg Cement. No formal verification methodology was used.
Water discharges- volume by destination	Not verified	The monitoring and reporting procedure is done by CSI water guideline. The reports are internally checked and confirmed by Heidelberg Cement. No formal verification methodology was used.
Water discharges- volume by treatment method	Not verified	The monitoring and reporting procedure is done by CSI water guideline. The reports are internally checked and confirmed by Heidelberg Cement. No formal verification methodology was used.
Water discharge quality data- quality by standard effluent parameters	Not verified	The monitoring and reporting procedure is done by CSI water guideline. The reports are internally checked and confirmed by Heidelberg Cement. No formal verification methodology was used.
Water consumption- total volume	Not verified	The monitoring and reporting procedure is done by CSI water guideline. The reports are internally checked and confirmed by Heidelberg Cement. No formal verification methodology was used.

#### Further Information

### Module: Response

#### Page: W6. Governance and Strategy

##### W6.1

Who has the highest level of direct responsibility for water within your organization and how frequently are they briefed?

Highest level of direct responsibility for water issues	Frequency of briefings on water issues	Comment
Individual/Sub-set of the Board or other committee appointed by the Board	Scheduled - monthly	Excom reporting is done every month to top management.

##### W6.2

Is water management integrated into your business strategy?

Yes

##### W6.2a

Please choose the option(s) below that best explain how water has positively influenced your business strategy

Influence of water on business strategy	Please explain
Establishment of sustainability goals	The effective management of water is determined as one of the company sustainability goals. The objective is to attain 5% reduction at all plants till 2020. In 2015 implementation of Cement Sustainability Initiative (CSI) water reporting guideline is targeted. The progress in the goals and actions are followed-up in Sustainability Committee meetings and also yearly management reviews according to ISO 14001.

**W6.2b**

Please choose the option(s) below that best explains how water has negatively influenced your business strategy

Influence of water on business strategy	Please explain
No measurable influence	In 2014 no substantial impact has been occurred.

**W6.3**

Does your organization have a water policy that sets out clear goals and guidelines for action?

Yes

**W6.3a**

Please select the content that best describes your water policy (tick all that apply)

Content	Please explain why this content is included
Publicly available Performance standards for direct operations Incorporated within group environmental, sustainability or EHS policy	Akcansa Environmental Policy is publically available on our web site. The water management strategy is communicated in our Sustainability Reports. Performance targets are set at plant level and at employee level.

**W6.4**

How does your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) during the most recent reporting period compare to the previous reporting period?

Water CAPEX (+/- % change)	Water OPEX (+/- % change)	Motivation for these changes
50	24	In 2014, water withdrawal has been increased and also unit price for water has been increased. In 2014 645,300 TL has been invested for the construction of water recycling systems and new wells.

**Further Information**

In addition, CSI (Cement Sustainability Initiative) Water Reporting has been implemented in 2014 for the first time which is a special and effective reporting for only cement industry.

**W7.1**

Was your organization subject to any penalties, fines and/or enforcement orders for breaches of abstraction licenses, discharge consents or other water and wastewater related regulations in the reporting year?

No

**Further Information**

No legal fines were charged during 2014.

**Page: W8. Targets and Initiatives**

**W8.1**

Do you have any company wide targets (quantitative) or goals (qualitative) related to water?

Yes, targets and goals

**W8.1a**

Please complete the following table with information on company wide quantitative targets (ongoing or reached completion during the reporting period) and an indication of progress made

Category of target	Motivation	Description of target	Quantitative unit of measurement	Base-line year	Target year	Proportion of target achieved, % value
Absolute reduction of water withdrawals	Cost savings	5% reduction of water use ratio.	% reduction of water sourced from groundwater	2013	2020	33%
Improvement in monitoring of water use	Recommended sector best practice	The monitoring procedure and system has been improved according to the CSI Water Reporting Guideline	% sites monitoring water use	2013	2014	100%

**W8.1b**

Please describe any company wide qualitative goals (ongoing or reached completion during the reporting period) and your progress in achieving these

Goal	Motivation	Description of goal	Progress
Strengthen links with local community	Brand value protection	To organize yearly local stakeholder meetings at all cement plants	At all cement plants Neighborhood Council Meetings have been organized.

**Further Information**

The water targets and the progress are publically communicated via sustainability report attached, please see p14-15 for the 2020 Sustainability Ambitions.

**Attachments**

## Module: Linkages/Tradeoff

### Page: W9. Managing trade-offs between water and other environmental issues

#### W9.1

Has your organization identified any linkages or trade-offs between water and other environmental issues in its value chain?

Yes

#### W9.1a

Please describe the linkages or trade-offs and the related management policy or action

Environmental issues	Linkage or trade-off	Policy or action
Energy saving and carbon dioxide reduction	Trade-off	In Akcansa sustainability policy, combatting with the climate change is a key pillar. Energy saving actions are key to success to this pillar. Akcansa installed an energy recovery unit, to generate electricity from its own waste heat energy. This plant is a BAT (Best Available Technique) for energy saving in cement industry. However, this plant requires more water supply. To minimize the additional water supply need, the wastewater generating from this unit has been installed.

#### Further Information

## Module: Sign Off

### Page: Sign Off

#### W10.1

Please provide the following information for the person that has signed off (approved) your CDP water response

Name	Job title	Corresponding job category
Mehmet Hacıkamiloglu	General Manager	Board/Executive board

#### W10.2

Addressing water risks effectively, in many instances, requires collective action. CDP would like to support you in finding potential partners that are also working to tackle water challenges in the river basins you report against. Please select if your organization would like CDP to transfer your publicly disclosed risk and impact drivers and response strategy data from questions W1.4a, W3.2b, W3.2c, W4.1a and W8.1b to the United Nations Global Compact Water Action Hub.

Yes

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## Further Information

CDP: [X][-,-]