Module: Introduction

Page: Introduction

CC0.1

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

Sabancı Holding is the parent company of the Sabancı Group; Turkey's leading industrial and financial conglomerate. The main business units include financial services, energy, retail, cement, automotive, tire & tire reinforcement materials.

Akçansa, a collaborate foundation of Sabancı Holding and HeidelbergCement, is a leader company in Turkish market in cement, ready-mixed concrete and aggregate business and jetty activities.

Akçansa, with its sustainability vision, through its products of world quality standards, environmentally friendly identity, comprehension of superior service and facilities with state of art technology, meets 10% of Turkey's cement demand and 16% of Turkey's cement and clinker export.

Akçansa’s history goes back to the founding of Akçimento in 1967. The company became the biggest cement producer of Turkey through the merger of Akçimento with Çanakkale Cement in 1996. Today, H.Ö. Sabancı Holding A.Ş. and HeidelbergCement AG equally own 79.4% of Akçansa’s shares. The general public owns the remaining 20.6% shares of the company. The stocks are traded on the İstanbul Stock Exchange (ISE) with AKCNS symbol.

Partnership with HeidelbergCement, one of the global players of the cement sector, creates synergies and facilitates the transfer of knowledge and Akçansa’s access to international markets. The Sabancı brand assures the superior service quality of the company.

For further information about company profile and annual report, please visit www.akcansa.com.tr

CC0.2

Reporting Year
Please state the start and end date of the year for which you are reporting data.
The current reporting year is the latest/most recent 12-month period for which data is reported. Enter the dates of this year first.
We request data for more than one reporting period for some emission accounting questions. Please provide data for the three years prior to the current reporting year if you have not provided this information before, or if this is the first time you have answered a CDP information request. (This does not apply if you have been offered and selected the option of answering the shorter questionnaire). If you are going to provide additional years of data, please give the dates of those reporting periods here. Work backwards from the most recent reporting year.
Please enter dates in following format: day(DD)/month(MM)/year(YYYY) (i.e. 31/01/2001).

Enter Periods that will be disclosed
Tue 31 Jan 2012 - Thu 31 Jan 2013

CC0.3

Country list configuration

Please select the countries for which you will be supplying data. This selection will be carried forward to assist you in completing your response.

Select country
Turkey

CC0.4

Currency selection

Please select the currency in which you would like to submit your response. All financial information contained in the response should be in this currency.

TRY

CC0.6

Modules

As part of the request for information on behalf of investors, electric utilities, companies with electric utility activities or assets, companies in the automobile or auto component manufacture sectors, companies in the oil and gas industry, companies in the information technology and telecommunications sectors and companies in the food, beverage and tobacco sectors should complete supplementary questions in addition to the main questionnaire.
If you are in these sectors (according to the Global Industry Classification Standard (GICS)), the corresponding sector modules will not appear below but will automatically appear in the navigation bar when you save this page. If you want to query your classification, please email respond@cdp.net.
If you have not been presented with a sector module that you consider would be appropriate for your company to answer, please select the module below. If you wish to view the questions first, please see https://www.cdp.net/en-US/Programmes/Pages/More-questionnaires.aspx.

Further Information

Module: Management

Page: CC1. Governance

CC1.1

Where is the highest level of direct responsibility for climate change within your organization?

Individual/Sub-set of the Board or other committee appointed by the Board

CC1.1a

Please identify the position of the individual or name of the committee with this responsibility

In addition to the Chairman the Board of Directors Mr. Mehmet Göçmen, the General Manager of Akçansa Mr. Hakan Gürdal is the highest level of direct responsibility for climate change.

CC1.2

Do you provide incentives for the management of climate change issues, including the attainment of targets?

Yes

CC1.2a

Please provide further details on the incentives provided for the management of climate change issues

Who is entitled to benefit from these incentives?	The type of incentives	Incentivized performance indicator
All employees	Monetary reward	Attainment of targets related with the climate change

Further Information

Page: CC2. Strategy

CC2.1

Please select the option that best describes your risk management procedures with regard to climate change risks and opportunities

Integrated into multi-disciplinary company wide risk management processes

CC2.1a

Please provide further details on your risk management procedures with regard to climate change risks and opportunities

Frequency of monitoring	To whom are results reported	Geographical areas considered	How far into the future are risks considered?	Comment
Six-monthly or more frequently	Individual/Sub-set of the Board or committee appointed by the Board	Where Akçansa cement plants are located, thus Turkey Çanakkale, Büyükçekmece and Ladik region.	> 6 years	

CC2.1b

Please describe how your risk and opportunity identification processes are applied at both company and asset level

Risk and opportunities are defined with a workshop performed with top management and medium management participation, considering the global and local trends and threats.

CC2.1c

How do you prioritize the risks and opportunities identified?

The prioritization is done according to the risk type, its probability and the financial magnitude.

CC2.1d

Please explain why you do not have a process in place for assessing and managing risks and opportunities from climate change, and whether you plan to introduce such a process in future

Main reason for not having a process	Do you plan to introduce a process?	Comment

CC2.2

Is climate change integrated into your business strategy?

Yes

CC2.2a

Please describe the process of how climate change is integrated into your business strategy and any outcomes of this process

In order to tackle with climate change Akçansa is committed to reduce CO2 emissions. Akçansa adopts, as suggested by WBCSD Cement Sustainability Initiative, a tripartite strategy composed of energy efficiency in production, preferring alternative energy sources, focusing on low-clinker content products developed with alternative raw materials. The outcomes are energy efficiency obtained at the plants, new products provided to the market, ressource efficiency, shifting to the alternative fuels instead of fossil fuel.
Akçansa with this clear strategy target to create leadership and awareness in the construction materials market and cement market in Turkey.

CC2.2b

Please explain why climate change is not integrated into your business strategy

CC2.3

Do you engage in activities that could either directly or indirectly influence public policy on climate change through any of the following? (tick all that apply)

Direct engagement with policy makers
Other

CC2.3a

On what issues have you been engaging directly with policy makers?

Focus of legislation	Corporate Position	Details of engagement	Proposed legislative solution
Mandatory carbon reporting	Support	Akçansa engages in contributing in the issuance of mandatory carbon reporting regulation which includes cement industry emission reporting. Akçansa environmental department contributes in the preparation of the content of the reporting guideline, to ensure cement industry calculates and report in a correct method.	To issue MRV (monitoring, reporting and verification) regulation in parallel with EU legislation.

CC2.3b

Are you on the Board of any trade associations or provide funding beyond membership?

CC2.3c

Please enter the details of those trade associations that are likely to take a position on climate change legislation

Trade association	Is your position on climate change consistent with theirs?	Please explain the trade association's position	How have you, or are you attempting to, influence the position?

CC2.3d

Do you publically disclose a list of all the research organizations that you fund?

CC2.3e

Do you fund any research organizations to produce or disseminate public work on climate change?

CC2.3f

Please describe the work and how it aligns with your own strategy on climate change

CC2.3g

Please provide details of the other engagement activities that you undertake

Akçansa is closely working with the technical universities (İTÜ, Sabancı Üniversity) and R&D institute TÜBİTAK to create and to optimize low carbon product and ressource efficiency solutions.

CC2.3h

What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?

Akçansa puts 2020 sustainability ambitions which covers CO2 reduction, low carbon product, Environmental Product Declaration targets, which provide clear direction for the activities.
Executive committee and the sustainability committee periodically check the progress. The results are shared with the stakeholders through sustainability report available on Akçansa web site.

Additionally, all personal targets available in the scorecards are connected to the corporate sustainability targets.

CC2.3i

Please explain why you do not engage with policy makers

Further Information

Page: CC3. Targets and Initiatives

CC3.1

Did you have an emissions reduction target that was active (ongoing or reached completion) in the reporting year?

Intensity target

CC3.1a

Please provide details of your absolute target

ID	Scope	% of emissions in scope	% reduction from base year	Base year	Base year emissions (metric tonnes CO2e)	Target year	Comment

CC3.1b

Please provide details of your intensity target

ID	Scope	% of emissions in scope	% reduction from base year	Metric	Base year	Normalized base year emissions	Target year	Comment
Int1	Scope 1	100%	7.5%	Other: kg CO2/ton of clinker	1990	914	2015	The longterm target is 2020.

CC3.1c

Please also indicate what change in absolute emissions this intensity target reflects

ID	Direction of change anticipated in absolute Scope 1+2 emissions at target completion?	% change anticipated in absolute Scope 1+2 emissions	Direction of change anticipated in absolute Scope 3 emissions at target completion?	% change anticipated in absolute Scope 3 emissions	Comment
Int1	Decrease	5	No change	0	Akçansa installed a new cement kiln line over the years and also bought a new cement plant which resulted in an increased production capacity, therefore there is an increase in absolute value compared to 1990.

CC3.1d

For all of your targets, please provide details on the progress made in the reporting year

ID	% complete (time)	% complete (emissions)	Comment
Int1	90%	65%	

CC3.1e

Please explain (i) why you do not have a target; and (ii) forecast how your emissions will change over the next five years

CC3.2

Does the use of your goods and/or services directly enable GHG emissions to be avoided by a third party?

Yes

CC3.2a

Please provide details of how the use of your goods and/or services directly enable GHG emissions to be avoided by a third party

Akcansa is co-processing waste as secondary raw materials and fuel resources.
This co-business contributes in third parties to minimize their negative impact on environment and create solution to them in controlling GHG emissions especially generating from waste landfilling.
On the other hand, our innovative products increasing the heat isolation capability of the construction, results in energy efficiency of the buildings thus ensures GHG emissions to be reduced.
The effects of our low carbon products are calculated based on Life Cycle Analysis, Environmental Product Declarations are approved and shared with the stakeholders through our web site.

CC3.3

Did you have emissions reduction initiatives that were active within the reporting year (this can include those in the planning and implementation phases)

Yes

CC3.3a

Please identify the total number of projects at each stage of development, and for those in the implementation stages, the estimated CO2e savings

Stage of development	Number of projects	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation		
To be implemented*		
Implementation commenced*	2	100000
Implemented*	10	50000
Not to be implemented		

CC3.3b

For those initiatives implemented in the reporting year, please provide details in the table below

Activity type	Description of activity	Estimated annual CO2e savings (metric tonnes CO2e)	Annual monetary savings (unit currency - as specified in CC0.4)	Investment required (unit currency - as specified in CC0.4)	Payback period	Estimated lifetime of the initiative, years	Comment
Low carbon energy installation	Waste heat recovery power generation plant	45000		40000000	1-3 years	20 years	
Energy efficiency: Processes	Replacement in electrical equipment with efficient types, use of frequency convertors (10 projects at 3 plants)	50000	1000000	30000000		20 years	
Product design	Low clinker cement	55000	0	0	<1 year	10 years	

CC3.3c

What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Dedicated budget for energy efficiency	Several energy saving gaps have been determined, accordingly necessary budget for heat and electrical energy optimization projects are planned for each plant.
Dedicated budget for low carbon product R&D	Low carbon products both in cement and ready-mixed business line are developped, necessary budgeting is planned for the R&D projects and or necessary revisions in the existing production systems.
Partnering with governments on technology development	Cooperation with institutes and governmental bodies to develop innovative concrete products, to study use mineralizer to optimize calorific energy need and to enhance cement product resistance. This will bring considerable clinker savings, thus process CO2 will be minimized.
Employee engagement	Thanks to the vision of the Board, the employees are committed to the company targets.

CC3.3d

If you do not have any emissions reduction initiatives, please explain why not

Further Information

Page: CC4. Communication

CC4.1

Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s)

Publication	Page/Section reference	Attach the document
In voluntary communications (underway) – previous year attached	pp 7-8 / Progress in 2020 Sustainability Ambitions	https://www.cdp.net/sites/2014/33/35233/Investor CDP 2014/Shared Documents/Attachments/CC4.1/Akcansa Sustainability Report 2010-2011.pdf

Further Information

The Sustainability Report which include 2012 and 2013 progresses is in the approval stage, the report will be available on our web site in July 2014. We would appreciate if you could consider the most actual report as climate change performance communication document.

Module: Risks and Opportunities

Page: CC5. Climate Change Risks

CC5.1

Have you identified any climate change risks that have the potential to generate a substantive change in your business operations, revenue or expenditure? Tick all that apply

Risks driven by changes in regulation
Risks driven by changes in physical climate parameters
Risks driven by changes in other climate-related developments

CC5.1a

Please describe your risks driven by changes in regulation

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
International agreements	Due to the delay in ratification of Kyoto Protocol, Turkish Government could not determine clearly the sectoral position. In near future, the negotiations could have driving force against national actions.	Increased capital cost	3 to 6 years	Direct	Likely	High	If not correctly managed, it may result in the decrease in production capacity.	- Contribution in Correct calculation of GHG reduction capacities - Lobbying in regulations which will ensure higher accessibility of low carbon and/or biomass type alternative fuels in the market, which will substitute fossil fuels.	- Human ressource cost
Lack of regulation	There is no any national emission calculation standard nor regulation available yet.	Other: Additional cost due to deviations from target.	Up to 1 year	Direct	Very likely	Medium	If not correctly managed, it may result in the decrease in production capacity.	- If not correctly managed, it may result in the decrease in production capacity.	- Human ressource cost
Other regulatory drivers	Fuel, energy and other regulatory arrangements are under discussion.	Increased operational cost	1 to 3 years	Indirect (Supply chain)	Likely	Medium			
Product labeling regulations and standards	Requirement for Environmental Product Declaration.	Reduced demand for goods/services	1 to 3 years	Indirect (Supply chain)	Likely	Low	- Label certification and approval costs	Akçansa is mostly prepared for product labeling i.e. Environmental Product Declaration certified by IBU Institute. Akçansa JV of HeidelbergCement is also uses internal software for LifeCycle	Certification cost

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
								Assessement developed for cement and concrete.	

CC5.1b

Please describe your risks that are driven by change in physical climate parameters

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Change in mean (average) temperature	Cement production highly depends on natural resources as raw materials and water use.	Increased operational cost	1 to 3 years	Indirect (Supply chain)	Likely	Medium-high	Higher operational cost	- Research on other alternative ressouces, R&D studies are conducted with the universities and institutes. - Alternative water sources are studies i.e. seawater desalination plants. - Wastewater recovery systems are already installed	- R&D cost - Operational cost

CC5.1c

Please describe your risks that are driven by changes in other climate-related developments

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated Financial Implications	Management method	Cost of management
Reputation	The cement plants are known the be among highest CO2 emitting industries. Future trends and awareness may effect the company's reputation.	Wider social disadvantages	3 to 6 years	Indirect (Client)	Likely	Medium	- Decrease in the interest of sustainable investors	- Stakeholder engagement activities are already started. - Preparation in sustainability stock indexes. - Akçansa is positioning itself not only as a cement producer but also as waste recycler, energy recovery solution.	- Marketing, stakeholder engagement activities

CC5.1d

Please explain why you do not consider your company to be exposed to risks driven by changes in regulation that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC5.1e

Please explain why you do not consider your company to be exposed to risks driven by physical climate parameters that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC5.1f

Please explain why you do not consider your company to be exposed to risks driven by changes in other climate-related developments that have the potential to generate a substantive change in your business operations, revenue or expenditure

Further Information

Page: CC6. Climate Change Opportunities

CC6.1

Have you identified any climate change opportunities that have the potential to generate a substantive change in your business operations, revenue or expenditure? Tick all that apply

Opportunities driven by changes in regulation
Opportunities driven by changes in physical climate parameters
Opportunities driven by changes in other climate-related developments

CC6.1a

Please describe your opportunities that are driven by changes in regulation

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
International agreements	Akçansa with the future international agreements, will switch to a low carbon economy	Reduced operational costs	3 to 6 years	Direct	Likely	Medium-high	- Investment cost for the changes in the plant equipment - Higher interests with	New product designs	R&D costs Labelling certification costs Some additional changes in the plant

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	model.						new and products		
Product labeling regulations and standards	Akçansa with this driver, can apply Life Cycle Analysis approach. By this way, may optimize its operations.	Reduced operational costs	1 to 3 years	Indirect (Supply chain)	Likely	Medium	- Investment cost for the changes in the plant equipment - Higher interests with new and products	New product designs	R&D costs Labelling certification costs Some additional changes in the plant
Cap and trade schemes	Low carbon and environmental friendly projects and applications provide advantage in tax compensation.	New products/business services	3 to 6 years	Direct	Likely	Medium	- Investment cost for the changes in the plant equipment	New product designs	R&D costs Labelling certification costs Some additional changes in the plant

CC6.1b

Please describe the opportunities that are driven by changes in physical climate parameters

Opportunity driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Induced changes in natural	Physical changes have mostly negative impact for all construction and cement	Reduced operational costs	1 to 3 years	Direct	Likely	Medium-high	Lower water cost	Producing own water by sea water	- 5 mio Euro

Opportunity driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
resources	industry; however we may have a minor opportunity for being more prepared than our competitors. Also physical changes may bring the need for alternative construction solutions, material and applications which can be benefited as terms of product design.							desalination plant	

CC6.1c

Please describe the opportunities that are driven by changes in other climate-related developments

Opportunity driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Reputation	Akçansa's committement for climate change adaptation and mitigation activities will impact the reputation among stakeholders.	Wider social benefits	3 to 6 years	Indirect (Client)	Likely	Medium	Higher interest of stakeholders	Communication of climate change initiatives Leadership in the market Awareness raising activities	Ressource cost

CC6.1d

Please explain why you do not consider your company to be exposed to opportunities driven by changes in regulation that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC6.1e

Please explain why you do not consider your company to be exposed to opportunities driven by physical climate parameters that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC6.1f

Please explain why you do not consider your company to be exposed to opportunities driven by changes in other climate-related developments that have the potential to generate a substantive change in your business operations, revenue or expenditure

Further Information

Module: GHG Emissions Accounting, Energy and Fuel Use, and Trading

Page: CC7. Emissions Methodology

CC7.1

Please provide your base year and base year emissions (Scopes 1 and 2)

Base year	Scope 1 Base year emissions (metric tonnes CO2e)	Scope 2 Base year emissions (metric tonnes CO2e)
Sat 31 Dec 2011 - Mon 31 Dec 2012	5660019	306419

CC7.2

Please give the name of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions

Please select the published methodologies that you use
IPCC Guidelines for National Greenhouse Gas Inventories, 2006

CC7.2a

If you have selected "Other" in CC7.2 please provide details of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions

CC7.3

Please give the source for the global warming potentials you have used

Gas	Reference
CO2	IPCC Fourth Assessment Report (AR4 - 100 year)

CC7.4

Please give the emissions factors you have applied and their origin; alternatively, please attach an Excel spreadsheet with this data at the bottom of this page

Fuel/Material/Energy	Emission Factor	Unit	Reference

Further Information

Please see attached the excel spreadshee for the emission factors

Attachments

https://www.cdp.net/sites/2014/33/35233/Investor CDP 2014/Shared Documents/Attachments/InvestorCDP2014/CC7.EmissionsMethodology/Fuel factors 2012.xlsx

Page: CC8. Emissions Data - (31 Jan 2012 - 31 Jan 2013)

CC8.1

Please select the boundary you are using for your Scope 1 and 2 greenhouse gas inventory

Equity share

CC8.2

Please provide your gross global Scope 1 emissions figures in metric tonnes CO2e

5759761

CC8.3

Please provide your gross global Scope 2 emissions figures in metric tonnes CO2e

318496

CC8.4

Are there are any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?

Yes

CC8.4a

Please provide details of the sources of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure

Source	Relevance of Scope 1 emissions from this source	Relevance of Scope 2 emissions excluded from this source	Explain why the source is excluded
Ready mix concrete plants and aggregate plants are not included	No emissions from this source	Emissions are not relevant	This source does not emit Scope 1 emission, only Scope 2. Scope 2 (indirect energy use) is relatively very low compared to cement plants.

CC8.5

Please estimate the level of uncertainty of the total gross global Scope 1 and 2 emissions figures that you have supplied and specify the sources of uncertainty in your data gathering, handling and calculations

Scope 1 emissions: Uncertainty range	Scope 1 emissions: Main sources of uncertainty	Scope 1 emissions: Please expand on the uncertainty in your data	Scope 2 emissions: Uncertainty range	Scope 2 emissions: Main sources of uncertainty	Scope 2 emissions: Please expand on the uncertainty in your data
Less than or equal to 2%	Assumptions	Scope 1 emissions are reported based on calculations. But raw data used in the calculations such as coal use, clinker production etc. are continously measured and reported. Operational data are cross checked with financial reports as well.	Less than or equal to 2%	Assumptions	Scope 2 emissions are reported based on electrical energy use and electricty emission factor calculations. Electrical energy values are continously measured and reported. Operational data are cross checked with financial reports as well. Turkey does not have any regional emission factor, therefore we are using EIA report Turkey emission factor.

CC8.6

Please indicate the verification/assurance status that applies to your reported Scope 1 emissions

No third party verification or assurance

CC8.6a

Please provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/section reference	Relevant standard	Proportion of reported Scope 1 emissions verified (%)

CC8.6b

Please provide further details of the regulatory regime to which you are complying that specifies the use of Continuous Emissions Monitoring Systems (CEMS)

Regulation	% of emissions covered by the system	Compliance period	Evidence of submission

CC8.7

Please indicate the verification/assurance status that applies to your reported Scope 2 emissions

No third party verification or assurance

CC8.7a

Please provide further details of the verification/assurance undertaken for your Scope 2 emissions, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of Scope 2 emissions verified (%)

CC8.8

Please identify if any data points other than emissions figures have been verified as part of the third party verification work undertaken

Additional data points verified	Comment
No additional data verified	

CC8.9

Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

Yes

CC8.9a

Please provide the emissions from biologically sequestered carbon relevant to your organization in metric tonnes CO2

60947

Further Information

Page: CC9. Scope 1 Emissions Breakdown - (31 Jan 2012 - 31 Jan 2013)

CC9.1

Do you have Scope 1 emissions sources in more than one country?

No

CC9.1a

Please break down your total gross global Scope 1 emissions by country/region

Country/Region	Scope 1 metric tonnes CO2e

CC9.2

Please indicate which other Scope 1 emissions breakdowns you are able to provide (tick all that apply)

By facility

CC9.2a

Please break down your total gross global Scope 1 emissions by business division

Business division	Scope 1 emissions (metric tonnes CO2e)

CC9.2b

Please break down your total gross global Scope 1 emissions by facility

Facility	Scope 1 emissions (metric tonnes CO2e)	Latitude	Longitude
Büyükçekmece plant	1567255		
Çanakkale plant	3605768		
Ladik plant	586738		

CC9.2c

Please break down your total gross global Scope 1 emissions by GHG type

GHG type	Scope 1 emissions (metric tonnes CO2e)

CC9.2d

Please break down your total gross global Scope 1 emissions by activity

Activity	Scope 1 emissions (metric tonnes CO2e)

CC9.2e

Please break down your total gross global Scope 1 emissions by legal structure

Legal structure	Scope 1 emissions (metric tonnes CO2e)

Further Information

Page: CC10. Scope 2 Emissions Breakdown - (31 Jan 2012 - 31 Jan 2013)

CC10.1

Do you have Scope 2 emissions sources in more than one country?

No

CC10.1a

Please break down your total gross global Scope 2 emissions and energy consumption by country/region

Country/Region	Scope 2 metric tonnes CO2e	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted for CC8.3 (MWh)

CC10.2

Please indicate which other Scope 2 emissions breakdowns you are able to provide (tick all that apply)

By facility

CC10.2a

Please break down your total gross global Scope 2 emissions by business division

Business division	Scope 2 emissions (metric tonnes CO2e)

CC10.2b

Please break down your total gross global Scope 2 emissions by facility

Facility	Scope 2 emissions (metric tonnes CO2e)
Büyükçekmece plant	112680
Çanakkale plant	150671
Ladik plant	55145

CC10.2c

Please break down your total gross global Scope 2 emissions by activity

Activity	Scope 2 emissions (metric tonnes CO2e)

CC10.2d

Please break down your total gross global Scope 2 emissions by legal structure

Legal structure	Scope 2 emissions (metric tonnes CO2e)

Further Information

Page: CC11. Energy

CC11.1

What percentage of your total operational spend in the reporting year was on energy?

More than 35% but less than or equal to 40%

CC11.2

Please state how much fuel, electricity, heat, steam, and cooling in MWh your organization has purchased and consumed during the reporting year

Energy type	MWh
Fuel	6445122.52
Electricity	778557
Heat	4563.50
Steam	
Cooling	

CC11.3

Please complete the table by breaking down the total "Fuel" figure entered above by fuel type

Fuels	MWh
Petroleum coke	4421852.72
Other: Coal	108134.82
Other: Heavy fuel	15519.04
Natural gas	7393.54
Lignite	1462331.84
Waste tire derived fuels	110754.88
Waste oils	25879.14
Refuse-derived fuel	22657.31
Other: Mixed industrial waste	100812.38
Other: Solvents	35.18
Other: Other waste	6539.54
Other: Biomass like sewage sludge	163212.12

CC11.4

Please provide details of the electricity, heat, steam or cooling amounts that were accounted at a low carbon emission factor in the Scope 2 figure reported in CC8.3

Basis for applying a low carbon emission factor	MWh associated with low carbon electricity, heat, steam or cooling	Comment
Non-grid connected low carbon electricity generation owned by company, no instruments created	93227.4	The waste heat produced in Çanakkale cement plant is recovery and returned to the electrical energy which is equal to the around 30% of the electrical energy need of Çanakkale cement plant. Therefore 30% of less electrical energy is taken from the grid.

Further Information

Page: CC12. Emissions Performance

CC12.1

How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to the previous year?

No change

CC12.1a

Please identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined) and for each of them specify how your emissions compare to the previous year

Reason	Emissions value (percentage)	Direction of change	Comment
Emissions reduction activities		No change	There are lots of reduction activities such as higher use of alternative fuels, waste heat recovery but no particular change in the absolut values due to increase in the production.
Divestment			
Acquisitions			

Reason	Emissions value (percentage)	Direction of change	Comment
Mergers			
Change in output			
Change in methodology			
Change in boundary			
Change in physical operating conditions			
Unidentified			
Other			

CC12.2

Please describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tonnes CO2e per unit currency total revenue

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
0.0051	metric tonnes CO2e	unit total revenue	10	Decrease	Higher production, thus higher sales

CC12.3

Please describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tonnes CO2e per full time equivalent (FTE) employee

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
5664.38	metric tonnes CO2e	FTE employee	4.6	Decrease	Higher number of FTE

CC12.4

Please provide an additional intensity (normalized) metric that is appropriate to your business operations

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
772	metric tonnes CO2e	Other: per tonne of cementitious product	0.2	Decrease	use of alternative raw material

Further Information

Page: CC13. Emissions Trading

CC13.1

Do you participate in any emissions trading schemes?

No, but we anticipate doing so in the next 2 years

CC13.1a

Please complete the following table for each of the emission trading schemes in which you participate

Scheme name	Period for which data is supplied	Allowances allocated	Allowances purchased	Verified emissions in metric tonnes CO2e	Details of ownership

CC13.1b

What is your strategy for complying with the schemes in which you participate or anticipate participating?

Turkey is in the volunteer scheme, as Akçansa we are in the process of verification of Gold Standard carbon credits from Waste Heat Power Generation plant.

CC13.2

Has your organization originated any project-based carbon credits or purchased any within the reporting period?

No

CC13.2a

Please provide details on the project-based carbon credits originated or purchased by your organization in the reporting period

Credit origination or credit purchase	Project type	Project identification	Verified to which standard	Number of credits (metric tonnes of CO2e)	Number of credits (metric tonnes CO2e): Risk adjusted volume	Credits cancelled	Purpose, e.g. compliance

Further Information

Page: CC14. Scope 3 Emissions

CC14.1

Please account for your organization's Scope 3 emissions, disclosing and explaining any exclusions

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using primary data	Explanation
Purchased goods and services					
Capital goods					
Fuel-and-energy-related activities (not included in Scope 1 or 2)					
Upstream transportation and distribution					
Waste generated in operations					
Business travel					
Employee commuting	Not relevant, calculated	0.05	Fuel consumption, fuel emission factor is used to calculate CO2 emission.	100%	
Upstream leased assets					
Downstream transportation and distribution					
Processing of sold products					
Use of sold products					
End of life treatment of sold products					
Downstream leased assets					
Franchises					
Investments					
Other (upstream)					
Other (downstream)					

CC14.2

Please indicate the verification/assurance status that applies to your reported Scope 3 emissions

No third party verification or assurance

CC14.2a

Please provide further details of the verification/assurance undertaken, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of Scope 3 emissions verified (%)

CC14.3

Are you able to compare your Scope 3 emissions for the reporting year with those for the previous year for any sources?

No, this is our first year of estimation

CC14.3a

Please identify the reasons for any change in your Scope 3 emissions and for each of them specify how your emissions compare to the previous year

Sources of Scope 3 emissions	Reason for change	Emissions value (percentage)	Direction of change	Comment

CC14.4

Do you engage with any of the elements of your value chain on GHG emissions and climate change strategies? (Tick all that apply)

Yes, our suppliers
Yes, other partners in the value chain

CC14.4a

Please give details of methods of engagement, your strategy for prioritizing engagements and measures of success

The engagement is in the beginning phase, it is for now limited to the collection and reporting of the data.
The correct and detailed data will be an important achivement at the first step.

CC14.4b

To give a sense of scale of this engagement, please give the number of suppliers with whom you are engaging and the proportion of your total spend that they represent

Number of suppliers	% of total spend	Comment
5	10%	The suppliers cover raw material supply

CC14.4c

If you have data on your suppliers' GHG emissions and climate change strategies, please explain how you make use of that data

How you make use of the data	Please give details
We do not have any data	

CC14.4d

Please explain why you do not engage with any elements of your value chain on GHG emissions and climate change strategies, and any plans you have to develop an engagement strategy in the future

Further Information

Module: Sign Off

Page: CC15. Sign Off

CC15.1

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

Name	Job title	Corresponding job category
Hakan Gürdal	General Manager	Board/Executive board

Further Information

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