

Module: Introduction**Page: Introduction****CC0.1****Introduction**

Please give a general description and introduction to your organization.

Established in 1956, the Tekfen Group of Companies operates in three core business areas: Contracting, Agri-Industry and Real Estate Development. The Group has 39 companies and twelve subsidiaries. Tekfen Holding, which owns all the companies and subsidiaries of Tekfen Group, is listed on Borsa Istanbul's BIST 30 Index. In 2016, the Group had TRY4,737 million in revenues and assets of TRY6,669 million. With 14,295 skilled employees and more than 60 years of experience, it is exemplary within the business world in terms of quality standards and ways of doing business.

The contracting group, which includes Tekfen Construction, is a solution partner preferred by leading employers around the world. Tekfen Construction is an internationally recognized leader of the Turkish contracting sector, operating in many countries. To date, it has completed over 350 projects, demonstrating its accumulated expertise. It is a sector leader for its capacity to deliver the most challenging projects and it has established a brand recognition through its commitment to maintaining global standards of quality, its ways of doing business, its experience, and the importance it places on health, safety and environment. Tekfen Construction is the preferred partner of many international companies.

The group's extensive experience is concentrated, first and foremost, on constructing oil, gas and petrochemical facilities. It offers engineering, procurement, construction (EPC) turn-key solutions for pipe lines, land and sea terminals, tank farms, oil refineries, offshore platforms, pumping and compressor stations, power stations, industrial facilities, highways and metros, sports complexes, infrastructure projects and superstructures. Tekfen Manufacturing's Derince Plant as well as Ceyhan Steel Structure Fabrication Plant and Bayıl Steel Structure Fabrication Plant within Tekfen Construction, specialize in steel fabrication and process equipment, and the construction of storage tanks. With US\$3.6 billion in active backlog, Tekfen Construction is ranked 118th on Engineering News Record's list of the 250 largest international contracting companies. Directly under the group, Tekfen Engineering provides engineering design, procurement and project management services for group and non-group projects. The company undertakes technologically challenging projects requiring great know-how and it is one of Turkey's leading companies in its sector.

Tekfen Agri-Industry Group is the sector's largest private corporation in terms of business volume, product and service portfolio, and market share. Operating as Toros Tarım, it is Turkey's 62nd largest industrial company. While principally a producer and marketer of fertilizer, Toros Tarım also engages in yield-raising, quality-improving agricultural inputs, seed production, techno-agriculture, and seedling production. Toros holds the highest share of installed production capacity for fertilizer in Turkey. It has 1,235 dealers and authorized sales points throughout Turkey, enabling it to distribute its products to every corner of the country. Terminal services is an important nonagricultural area of business for Toros Tarım. The company manages two terminals, in Ceyhan and Samsun, and it provides additional services such as pilotage, tugboat, and shipping agency services as well. Built in 1981 alongside Toros Tarım's Ceyhan Production Plant, the Toros Ceyhan Terminal is the second largest port in the Iskenderun Gulf. Toros Tarım's other business areas are free zone and gas station management. The Adana Yumurtalık Free Zone

(TAYSEB), founded as an industrial facility in Ceyhan in 1998, covers an area 4.5 million m2, making it one of Turkey's largest free zones. Tekfen Real Estate Group engages in investment, project development, construction management and facility management in the real estate sector. The group's commitment to design behooves it to work with the best architects and ensures the projects in its portfolio are conspicuous not only for their functionality and construction quality, but also for their unique design. Tekfen Real Estate Development projects have won many prestigious prizes. Tekfen Real Estate Development aims at customer satisfaction in every detail. Within the group, Tekfen Real Estate Development Investment and Trade provides development and project management services, while Tekfen Services provides facility management services. Aside from its Contracting, Agri-Industry and Real Estate areas of business, Tekfen Group is involved in insurance, through Tekfen Insurance, and owns Antalya Studios which, at 186,000 sqm, is one of the largest studios in Europe and offers advanced technology and infrastructure for Turkish and international film producers.

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

Fri 01 Jan 2016 - Sat 31 Dec 2016

CC0.3

Country list configuration

Please select the countries for which you will be supplying data. If you are responding to the Electric Utilities module, 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.

USD(\$)

CC0.6

Modules

As part of the request for information on behalf of investors, companies in the electric utility sector, companies in the automobile and auto component manufacturing sector, companies in the oil and gas sector, companies in the information and communications technology sector (ICT) and companies in the food, beverage and tobacco sector (FBT) should complete supplementary questions in addition to the core questionnaire.

If you are in these sector groupings, the corresponding sector modules will not appear among the options of question CC0.6 but will automatically appear in the ORS 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 in CC0.6.

Further Information

Module: Management

Page: CC1. Governance

CC1.1

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

Senior Manager/Officer

CC1.1a

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

Sustainability and Health Safety Environment & Quality Coordinatorships were established at Tekfen Holding as of 01.01.2017. The HSE & Q Coordinator is conducting studies related to climate change and reports directly to Tekfen Holding Vice President of Corporate Affairs. As a result, the person who directly responsible for climate change in Tekfen Group is Tekfen Holding Vice President for Corporate Affairs as of today.

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	Comment
All employees	Recognition (non-monetary)	Behavior change related indicator	Every month, Tekfen Agri-Industry picks an employee as HSE Employee of the Month for their HSE performance. Selection criteria includes environmentally friendly initiatives.

Further Information

CC2.1

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

A specific climate change risk management process

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
Annually	Senior manager/officer	All geographical areas where Tekfen operates. In addition to local environment, global warming, ozone depletion, groundwater, natural resource consumption etc. are considered.	3 to 6 years	In Tekfen Holding, companies' upper management and all employees are responsible for effective management of risks. Risks are managed by companies and are monitored by the Holding. All companies are responsible for determining, monitoring and make decisions and periodically report the risks to upper management. Corporate Risk Management specifically documents risks as Strategic, Operational, Financial, Compliance and Reputational Risks. While there is no specific mention of Climate Change Risks, under Operational Risks, natural disasters are considered. All environmental effects are considered during operational Risk Assessment processes under the scope of ISO14001.

CC2.1b

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

Company Level:

In Tekfen Holding, companies' upper management and all employees are responsible for effective management of risks. Risks are managed by companies and are monitored by the Holding. All companies are responsible for determining, monitoring and making decisions and periodically report the risks to upper management. Tekfen Holding Strategic Planning and Risk Management Directorate determines the risk model that is going to be utilized in the Corporate Risk Management (CRM) process that will be used in Holding level and reports through Holding Risk Committee to the Board of Directors for approval. This also includes the development of annual CRM reporting calendar by the Directorate. Board approves CRM calendar and shares it with the Holding Companies. Tekfen Holding manages important risks at department level by considering risk-opportunity levels via a risk portfolio approach.

Asset Level:

Upper management of individual companies use risk management actively in the decision making processes. CRM program is integrated into main planning processes such as strategic planning, business planning and operational management. Risks related to important decisions of the companies are identified and graded. In addition, upper management of companies make sure proper precautions are designed, said precautions are applied and the process is run effectively for risks identified. Tekfen Group individual companies do regular risk assessments in every 2 months. Risk assessment of high risk projects, activities, locations, tasks and operational areas are done at shorter intervals. All uniform methods, regulations, policies and processes of Tekfen Group companies in other areas has be in compliance with the approach explained above. Individual company General Manager appoints a Risk Manager and the Risk Manager reports the required information to Tekfen Holding Strategic Planning and Risk Management Directorate every 2 months.

CC2.1c

How do you prioritize the risks and opportunities identified?

Every identified risk is graded for prioritization. Risk grade is given via multiplying the probability and severity of a risk. Severity and probability criteria is defined in relevant internal company documents.

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
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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 recent years, as Tekfen, we have started to officially integrate climate change into our strategy. As a company, we have been collecting information on climate change and reporting internally following the CDP criteria since 2010. In 2017, we have decided to formally report to CDP. Tekfen's slogan "Building the Future" has been changed to "Building a Sustainable Future". Below are some examples of how we monitored and acted against the impact of climate change before 2017. The results of the Paris Treaty were followed and trainings concerning the issues discussed in the treaty were organized in the Company. TEMA General Manager has presented Tekfen Group upper management the key issues discussed in the COP 21 and its potential effects on the private sector. Search Conferences were held in 2016 for risks and opportunities regarding climate change and sustainability.

New structures have been established in the Holding for dealing with issues such as sustainable growth, as environmental issues are becoming increasingly mainstream. This is one of the indicators that the Company is beginning to take strategic decisions into climate change and similar issues. As an example, The Management Review Meeting, attended by the Senior Management at Tekfen Construction, was held as "Carbon Neutral" to draw attention to climate change in 2016 across the Company. In Tekfen Holding level, due to the increasing risk climate change issues bring to the business environment, The Holding has started to closely monitor the environmental performance of individual companies.

A big step that is a result of considering the effects of climate change, Tekfen decided to start renewable energy contracting due to the expected contraction in oil & natural gas contracting activities as a result of climate change effects in the EPC sector. Part of our short term strategy transformation, a separate department specializing in contracting renewable energy projects was found in Tekfen Construction, making sure the contracting portfolio is diversified to stay ahead of our competition by developing new green business opportunities and adapting to the changing business and physical environment.

Starting with the management restructuring process in 2015, Tekfen has set major targets for renewable energy and energy production from waste for the medium term. In the long term, Tekfen is planning to become one of the major components of the eco-economy. Considering the risks associated with nuclear power, and Tekfen's value of protecting nature, Tekfen has also chosen not to pursue nuclear energy projects and instead is focusing on other types of renewable projects that have less environmental impact

Buildings are a major source of energy consumption and emissions. Tekfen Real Estate's projects in Turkey own LEED certification following the actions that were agreed to be implemented in Turkey's National Climate Change Strategy (2010-2023). Tekfen Real Estate is also one of the founders of ÇEDBİK (Turkish Green Building Association), emphasizing the importance Tekfen Holding puts on environmentally friendly buildings and climate change. Tekfen is also one of the founders of TEMA Foundation and has integrated environmental issues into its core business. Considering the activities described above, the value that Tekfen gives to nature is apparent.

CC2.2b

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

CC2.2c

Does your company use an internal price on carbon?

No, and we currently don't anticipate doing so in the next 2 years

CC2.2d

Please provide details and examples of how your company uses an internal price on carbon

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
Energy efficiency	Support	As a member of İNTES (Turkish Employers Association of Construction Industries) we engage with policy makers in issues that relate to construction sector. İNTES collects opinions from all member contractors.	Turkish Regulation on Energy

Focus of legislation	Corporate Position	Details of engagement	Proposed legislative solution
		In addition, anytime there is a request from policymakers for ideas, we provide our position on the matter.	Efficiency

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

CC2.3e

Please provide details of the other engagement activities that you undertake

Tekfen is a founding member of TEMA (The Turkish Foundation for Combating Soil Erosion for Reforestation and the Protection of Natural Habitats) and ÇEDBİK (Turkish Green Building Association), two important NGOs in regards to environment and sustainability in Turkey and is actively involved in creating awareness regarding environment and green buildings. For example, due to awareness raising activities by mentioned NGOs and more, Turkey has put in place a regulation covering energy efficiency in buildings. We also attend TÜSİAD's panels and activities regarding climate change and be involved in more awareness raising especially in the business world regarding climate change. TÜSİAD (Turkish Industry and Business Association) works closely with the Turkish business world to work towards sustainable development and what the results of the Paris Agreement means for Turkish businesses.

CC2.3f

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?

Activities regarding these issues are coordinated by the Health, Safety, Environment & Quality (HSE&Q) department. An HSE&Q Coordination Group was established with representatives from all group companies. The representatives of all group companies meet periodically and the meeting is led by the HSE&Q Coordinator. Strategy and activities regarding climate change is shared with the group company representatives. The implementation of the activities are monitored by Holding HSE&Q Coordinator and the results are reported to Tekfen Group of Companies' President.

CC2.3g

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 or renewable energy consumption or production target that was active (ongoing or reached completion) in the reporting year?

No

CC3.1a

Please provide details of your absolute target

ID	Scope	% of emissions in scope	% reduction from base year	Base year	Base year emissions covered by target (metric tonnes CO2e)	Target year	Is this a science-based target?	Comment
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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 covered by target	Target year	Is this a science-based target?	Comment
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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
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CC3.1d

Please provide details of your renewable energy consumption and/or production target

ID	Energy types covered by target	Base year	Base year energy for energy type covered (MWh)	% renewable energy in base year	Target year	% renewable energy in target year	Comment
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CC3.1e

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

ID	% complete (time)	% complete (emissions or renewable energy)	Comment
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CC3.1f

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

In 2016, we did not have an active emissions reduction target. This is because until now, we have been doing calculations to understand the current status in the Holding. We have taken the decision to officially report our emissions and climate change strategy to CDP in 2017. We also set our base year as 2016, the first reporting year we are responding to CDP.

Tekfen integrated climate change into its business strategy only in the recent years and with the increasing number of investment of resources in the area we are currently in the planning process to reduce our emissions over the next 5 years and foresee reduced emissions along with setting emission reduction targets over the next 5 years.

CC3.2

Do you classify any of your existing goods and/or services as low carbon products or do they enable a third party to avoid GHG emissions?

Yes

CC3.2a

Please provide details of your products and/or services that you classify as low carbon products or that enable a third party to avoid GHG emissions

Level of aggregation	Description of product/Group of products	Are you reporting low carbon product/s or avoided emissions?	Taxonomy, project or methodology used to classify product/s as low carbon or to calculate avoided emissions	% revenue from low carbon product/s in the reporting year	% R&D in low carbon product/s in the reporting year	Comment
Product	Tekfen Real Estate LEED Certified Buildings	Low carbon product and avoided emissions	Other: LEED	1%	Less than or equal to 10%	As an example, Tekfen Real Estate Hep İstanbul project is being developed a LEED certified housing project. This project is projected to result in 20% savings in water consumption, 50% savings in irrigation, 20% savings electricity and 25% savings in natural gas by designing lighting and HVAC systems to maximize energy performance, selecting proper insulating glass windows, green roofing, and bicycle parking areas. All these savings mean that residents are able to avoid unnecessary emissions. In addition, the construction process is also sustainable and low carbon. All construction waste is recycled and defining structures are sourced locally with specific recycled input material ratios.

CC3.3

Did you have emissions reduction initiatives that were active within the reporting year (this can include those in the planning and/or 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	2	
To be implemented*	1	5.58
Implementation commenced*	3	49.38
Implemented*	4	799.2
Not to be implemented	0	0

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)	Scope	Voluntary/ Mandatory	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	Comment
Energy efficiency: Building services	Existing diesel heating system was replaced with an LNG system in the Polatlı and Doğakent camps of Tekfen Construction	278.36	Scope 1	Voluntary	282876	38400	<1 year	1-2 years	
Energy efficiency: Building services	In Tekfen Engineering Offices, all curtains were replaced with high shadowing factor, low heat transparency store curtains. With this application, cooling requirements are lowered due to lowering heat load.	4.30	Scope 2 (location-based)	Voluntary	1094	11366	4-10 years	Ongoing	
Fugitive emissions reductions	Two HVAC systems in Tekfen Engineering that were leaking were repaired.	25.05	Scope 1	Voluntary	307	227	<1 year	Ongoing	
Energy efficiency: Building services	Detailed Energy Study and Replacement of new generation Aquatherm efficient pipes in Tekfen Tourism buildings	491.49	Scope 2 (location-based)	Voluntary	125035	18313	<1 year	Ongoing	

CC3.3c

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

Method	Comment

Method	Comment
Financial optimization calculations	

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	Status	Page/Section reference	Attach the document	Comment
In voluntary communications	Complete	Website	https://www.cdp.net/sites/2017/50/21150/Climate Change 2017/Shared Documents/Attachments/CC4.1/Tekfen CC4.1 attachment.zip	Website prints were attached. Website Links are: http://www.tekfen.com.tr/english/approach_to_the_environment_and_climate_change.asp and http://www.tekfen.com.tr/english/greenhouse_gas_emission_performance.asp

Further Information

Module: Risks and Opportunities

Page: CC5. Climate Change Risks

CC5.1

Have you identified any inherent 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 inherent risks that are 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	The Contracting Group undertakes projects mainly in the oil & gas industry. However, fossil fuel projects are expected to contract due to the impact of international	Reduced demand for goods/services	3 to 6 years	Direct	Likely	Medium	Approximately 30% of the Contracting Group's business volume is in the oil & gas industry. This reflects a USD 401 million revenue from oil & gas projects. A 10% reduction in	Due to the expected contraction in the sector, Tekfen Construction has started preparations to enter renewable energy contracting sector. We have established a new renewable energy	The cost of management includes employment of new specialist personnel, memberships, business development activities and outsourced services for

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	agreements. This can create a serious impact in the Contracting Group's turnover.						business volume means USD 40.1 million revenue would be lost.	team with relevant specializations.	proposal. In total, the costs are approximately USD 375,000 annually.
Emission reporting obligations	In Tekfen Agri-Industry; CO2, N2O and PFCs are required to be reported in accordance with the "Regulation on Monitoring and Reporting of Greenhouse Gas Emissions" concerning reporting of greenhouse gas emissions in Turkey. Toros Tarım Fertilizer Production Facility monitors and measures greenhouse gases and reports to the Ministry of Environment and Urbanization. The reports are	Increased operational cost	Up to 1 year	Direct	Likely	Low-medium	There could be a necessity of establishing Continuous Emission Monitoring Systems (CEMS) in chimneys of other units on the request of the Provincial Environment Board. There is a high probability that such a demand will occur due to the location of the plant (new stadium, indoor sports venue, exhibition center, new hotels and proximity to the district center). A new CEMS installation costs around 50,000	Continuous emission monitoring measurement systems have been established Toros Agriculture Fertilizer Production Plants in regulated chimneys and data is monitored both by the facility and by the Provincial Environment Directorate continuously. If there are deviations from the emission limits, the system notifies and problems can be resolved very quickly. In addition, process-induced steam is	Annual maintenance of CEMS is around 15,000 euros. We also have to measure our emissions through accredited laboratories every two years including in plants that do not have CEMS and these measurements cost approximately USD 25,000 every two years.

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	verified by the third party authorized by the Ministry of Environment and Urbanization. The regulation requires some facilities to be equipped with CEMS (Continuous Emissions Monitoring Systems) and others to submit verified CO2 reports from accredited laboratories.						euros. Installation of 3 units may result in further CAPEX costs of 150,000 euros.	used in electricity generation with a STG (Steam Turbine Generator), thus the use of electricity from the grid has been reduced. Currently, the Sulfuric acid plant's main chimney, Gas Turbine Generator, DENOX and Start-up kilns has CEMS installed.	

CC5.1b

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

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
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Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Change in mean (average) precipitation	The adverse effects of the fresh water crisis in Turkey are expected increase due to climate change. One of Tekfen Agri-Industry's major plants which uses fresh water in the production process, may experience disruption in production because of inadequate supply of process fresh water.	Reduction/disruption in production capacity	>6 years	Direct	About as likely as not	Low-medium	One of Tekfen Agri Industry's Major Plants' under water risks sales income for 2016 was around USD 100 million. A 10% production loss will result reduction of around 10 million USD compared to 2016 figures.	To manage this risk, Tekfen Agri-Industry is planning a wastewater recovery project. Waste water treatment plant construction and wastewater recovery project work is done by the production directorate.	Operating costs, analysis fees, personnel costs are around USD 45,000 for wastewater treatment plants.

CC5.1c

Please describe your inherent 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	Fertilizer	Reduced	>6 years	Direct	Unlikely	Low-	Tekfen Agri-	Tekfen Agri-Industry	USD 335

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	production is a risky sector in terms of emissions of greenhouse gases. In particular, nitric acid production is causing a serious amount of N2O emissions with high global warming potential. Increasing demand for climate change for communities and NGOs can increase pressures in fertilizer production facilities.	demand for goods/services				medium	Industry sales revenues were USD 489 million in 2016. A 10% decrease in sales revenue will result in a decrease in turnover of USD 48.9 million according to 2016 figures.	started to work on this issue by establishing a "Sustainability Unit". The Company has started energy savings by renewing its facilities. USD 335 million renewal has been made at the production facility in Samsun in 2016, the energy consumption has been improved and the process steam started to be used. In addition, a continuous monitoring system of flue gases has been established. Tekfen Agri-Industry provides trainings and prepares training videos to increase farmer awareness.	million renewal has been made at the production facility in Samsun in 2016

CC5.1d

Please explain why you do not consider your company to be exposed to inherent 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 inherent risks driven by changes in 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 inherent 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 inherent 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 inherent 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
Emission reporting obligations	Turkish GHG regulation requires monitoring, verification and reporting of CO2 emissions from certain heavy emitting industries such as electricity producers, cement, lime and steel and fertilizer production etc. with the future intentions of an ETS system. The obligation to keep emission quantities at regular intervals under regulation can be an opportunity. If the emission rates are already at the desired values can provide the opportunity to increase	Increased production capacity	1 to 3 years	Direct	About as likely as not	Medium	Tekfen Agri-Industry sales revenues were USD 489 in 2016. A 10% increase in sales revenue will result in an increase in turnover of USD 48.9 million according 2016 figures.	As part of the regulation, Continuous emission monitoring systems were installed done in the relevant stacks. Emissions data is monitored instantaneously, and possible deviations in emissions are immediately intervened. Continuous Emission Monitoring systems reads and records data in minutes. The systems show values read in half-hourly intervals on the follow-up screens. These systems are connected directly to the Ministry of Environment and Urbanization portal. Ministry officials can	Operational costs of continuous emissions systems are around USD 30,000 annually.

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	production quantities by providing a competitive advantage.							access online data whenever they want. The system alarms in the event of a fault or problem.	
International agreements	Tekfen can take advantage if competitors cannot achieve preliminary qualification for climate change in international commitments to be implemented in Turkey.	Premium price opportunities	1 to 3 years	Direct	About as likely as not	Medium	Contracting Group's 2016 turnover was USD 802 million. A conservative 1% increase in our turnover will result in additional USD 8 million from this opportunity.	Health-Safety-Environment culture is available at Tekfen Group Companies. Environmental Management Systems are already established and implemented according to ISO 14001 Standard all projects and establishments of Tekfen Construction, Tekfen Agri-Industry factories and terminals and Tekfen Production factory. Tekfen Real Estate is in compliance with the requirements of LEED certification in all its projects.	Management of Environment and general sustainability issues are done via appropriate internationally recognized management systems. Budgets for keeping these systems in place are incorporated into the regular operational budgets of individual projects and production facilities. As an example, for Tekfen Construction, the cost of HSE Management System internal audits and third party audits are

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
									around USD 32.000 annually based on 2016 figures.

CC6.1b

Please describe your inherent 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
Change in precipitation pattern	Infrastructure projects are expected to increase with climate change (water, wastewater, sewerage, public transport projects, etc.) This topic can be used as an opportunity for our Contracting Group companies.	Increased demand for existing products/services	3 to 6 years	Direct	About as likely as not	Medium	Contracting Group's 2016 turnover was USD 802 million. Approximately 45% (USD 361 million), the turnover was from infrastructure projects. A conservative 1% increase in infrastructural projects will earn result in additional revenues of USD 3.61 million.	A new team has been established in Tekfen Construction for the tactics and proposals of infrastructure projects, strategic partnership have been made with other companies.	3 new personnel were hired in the Proposal Department for infrastructure projects costing Tekfen approximately USD 200,000 annually.

CC6.1c

Please describe your inherent 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
Changing consumer behavior	It is expected that Tekfen Real Estate's residential and office projects will continue to increase because of Turkey's population growth, migration to major cities, etc. A known fact is that buildings and settlements are responsible for 40% of CO2 emissions. We expect that smart cities, smart homes / offices, green building concepts will continue to be an emerging trend of the sector in the near future. Tekfen Real Estate, a pioneer in LEED certified projects in Turkey will increase its value	Premium price opportunities	>6 years	Indirect (Client)	About as likely as not	Medium	Tekfen Real Estate's 2016 turnover was USD 9.4 million. We expect an approximate 10% increase with green project preferences. This will result in an increase of approximately USD 0.94 million based on 2016 figures.	The concept of "environmental friendly / sustainable building" is becoming more and more important everyday as the awareness and consciousness for energy use and environment increases. Tekfen Real Estate, as in its all other projects, is aiming LEED-CS (core&shell) of The U.S. Green Building Association (USGBC) for its new projects, such as: Tekfen-OZ Kagithane OfisPark & Tekfen Bomonti Apartments and Tekfen HEP İstanbul Project.	As an example from our Tekfen HEP İstanbul project, cost of LEED certification is around USD 160,000. Costs vary between projects as LEED certification pricing is based on m2. These costs are included in specific project budgets.

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	in the real estate sector.								

CC6.1d

Please explain why you do not consider your company to be exposed to inherent 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 inherent opportunities driven by changes in 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 inherent 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)

Scope	Base year	Base year emissions (metric tonnes CO2e)
Scope 1	Fri 01 Jan 2016 - Sat 31 Dec 2016	1052536.49
Scope 2 (location-based)	Fri 01 Jan 2016 - Sat 31 Dec 2016	45049.57
Scope 2 (market-based)		

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

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

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)
CH4	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	IPCC Fourth Assessment Report (AR4 - 100 year)
HFCs	IPCC Fourth Assessment Report (AR4 - 50 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
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Further Information**Attachments**

<https://www.cdp.net/sites/2017/50/21150/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Tekfen Emission Factors for CDP.xlsx>

Page: CC8. Emissions Data - (1 Jan 2016 - 31 Dec 2016)

CC8.1

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

Operational control

CC8.2

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

1052536.49

CC8.3

Please describe your approach to reporting Scope 2 emissions

Scope 2, location-based	Scope 2, market-based	Comment
We are reporting a Scope 2, location-based figure	We have no operations where we are able to access electricity supplier emissions factors or residual emissions factors and are unable to report a Scope 2, market-based figure	

CC8.3a

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

Scope 2, location-based	Scope 2, market-based (if applicable)	Comment
45049.57		

CC8.4

Are there 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?

No

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 location-based Scope 2 emissions from this source	Relevance of market-based Scope 2 emissions from this source (if applicable)	Explain why the source is excluded
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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	Uncertainty range	Main sources of uncertainty	Please expand on the uncertainty in your data
Scope 1	Less than or equal to 2%	Metering/ Measurement Constraints	GHG Protocol's uncertainty calculation tool is used to calculate uncertainties. More than 90% of emissions are tracked with a Continuous Emission Monitoring System which has a certified uncertainty of 1.7%
Scope 2 (location-based)	More than 2% but less than or equal to 5%	Metering/ Measurement Constraints	Turkey average is around 3%.
Scope 2 (market-based)			

CC8.6

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

No third party verification or assurance – regulatory CEMS required

CC8.6a

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

Verification or assurance cycle in place	Status in the current reporting year	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 Emission Monitoring Systems (CEMS)

Regulation	% of emissions covered by the system	Compliance period	Evidence of submission
Other: Turkish Regulation on Monitoring Greenhouse Gas Emissions	91	Fri 01 Jan 2016 - Sat 31 Dec 2016	https://www.cdp.net/sites/2017/50/21150/Climate Change 2017/Shared Documents/Attachments/CC8.6b/Tekfen CC8.6b attachment.zip

CC8.7

Please indicate the verification/assurance status that applies to at least one of your reported Scope 2 emissions figures

No third party verification or assurance

CC8.7a

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

Location-based or market-based figure?	Verification or assurance cycle in place	Status in the current reporting year	Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of reported Scope 2 emissions verified (%)

CC8.8

Please identify if any data points have been verified as part of the third party verification work undertaken, other than the verification of emissions figures reported in CC8.6, CC8.7 and CC14.2

Additional data points verified	Comment
No additional data verified	

CC8.9

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

No

CC8.9a

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

Further Information

Page: CC9. Scope 1 Emissions Breakdown - (1 Jan 2016 - 31 Dec 2016)

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 business division

CC9.2a

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

Business division	Scope 1 emissions (metric tonnes CO2e)
Contracting	47857.70
Agri-Industry	1004144.11
Real Estate	390.72
Other Activities	143.96

CC9.2b

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

Facility	Scope 1 emissions (metric tonnes CO2e)	Latitude	Longitude
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CC9.2c

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

GHG type	Scope 1 emissions (metric tonnes CO2e)
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CC9.2d

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

Activity	Scope 1 emissions (metric tonnes CO2e)
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Further Information

Page: CC10. Scope 2 Emissions Breakdown - (1 Jan 2016 - 31 Dec 2016)

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, location-based (metric tonnes CO2e)	Scope 2, market-based (metric tonnes CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted in market-based approach (MWh)
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CC10.2

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

By business division

CC10.2a

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

Business division	Scope 2, location-based (metric tonnes CO2e)	Scope 2, market-based (metric tonnes CO2e)
Contracting	4815.02	
Agri-Industry	39091.12	
Real Estate	802.59	
Other Activities	340.84	

CC10.2b

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

Facility	Scope 2, location-based (metric tonnes CO2e)	Scope 2, market-based (metric tonnes CO2e)
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CC10.2c

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

Activity	Scope 2, location-based (metric tonnes CO2e)	Scope 2, market-based (metric tonnes CO2e)
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Further Information

Page: CC11. Energy

CC11.1

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

More than 0% but less than or equal to 5%

CC11.2

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

Energy type	MWh
Heat	0
Steam	0
Cooling	0

CC11.3

Please state how much fuel in MWh your organization has consumed (for energy purposes) during the reporting year

342080.63

CC11.3a

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

Fuels	MWh
Natural gas	77607.04
Anthracite	2377
Distillate fuel oil No 6	0.35
Liquefied petroleum gas (LPG)	81926.17
Diesel/Gas oil	179474.60
Motor gasoline	695.47

CC11.4

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

Basis for applying a low carbon emission factor	MWh consumed associated with low carbon electricity, heat, steam or cooling	Emissions factor (in units of metric tonnes CO2e per MWh)	Comment
Other	147249.4	0	Tekfen Agri-Industry Mersin and Samsun facilities produce electricity much of their electricity from waste heat generated by operations.

CC11.5

Please report how much electricity you produce in MWh, and how much electricity you consume in MWh

Total electricity consumed (MWh)	Consumed electricity that is purchased (MWh)	Total electricity produced (MWh)	Total renewable electricity produced (MWh)	Consumed renewable electricity that is produced by company (MWh)	Comment
189629.12	91659.72	147249.45	147249.45	97969.39	Tekfen Agri-Industry Mersin and Samsun plants have Waste Heat Recovery units that generate electricity.

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?

This is our first year of estimation

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	Please explain and include calculation

CC12.1b

Is your emissions performance calculations in CC12.1 and CC12.1a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

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 (Gross global combined Scope 1 and 2 emissions)	Metric denominator: Unit total revenue	Scope 2 figure used	% change from previous year	Direction of change from previous year	Reason for change

Intensity figure =	Metric numerator (Gross global combined Scope 1 and 2 emissions)	Metric denominator: Unit total revenue	Scope 2 figure used	% change from previous year	Direction of change from previous year	Reason for change
0.0008153	metric tonnes CO2e	1346157365	Location-based		N/A	This is our first year of estimation.

CC12.3

Please provide any additional intensity (normalized) metrics that are appropriate to your business operations

Intensity figure =	Metric numerator (Gross global combined Scope 1 and 2 emissions)	Metric denominator	Metric denominator: Unit total	Scope 2 figure used	% change from previous year	Direction of change from previous year	Reason for change
76.78	metric tonnes CO2e	full time equivalent (FTE) employee	14295	Location-based		N/A	This is our first year of estimation.

Further Information

Page: **CC13. Emissions Trading**

CC13.1

Do you participate in any emissions trading schemes?

No, and we do not currently 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?

CC13.2

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

Yes

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 CO2e)	Number of credits (metric tonnes CO2e): Risk adjusted volume	Credits canceled	Purpose, e.g. compliance
Credit purchase	Wind	Düzova Wind Power Project	Gold Standard	2	2	Yes	Voluntary Offsetting
Credit purchase	Wind	Düzova Wind Power Project	Gold Standard	10	10	Yes	Voluntary Offsetting

Further Information

Example proof for CC13.2a

Attachments

[https://www.cdp.net/sites/2017/50/21150/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC13.EmissionsTrading/2016 03 21 TEKFEN YGGT_KarbonDenkleştirmeSertifikası.jpg](https://www.cdp.net/sites/2017/50/21150/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC13.EmissionsTrading/2016%2003%2021%20TEKFEN%20YGGT_KarbonDenkleştirmeSertifikası.jpg)
[https://www.cdp.net/sites/2017/50/21150/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC13.EmissionsTrading/Tekfen Construction-Carbon Offsetting.pdf](https://www.cdp.net/sites/2017/50/21150/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC13.EmissionsTrading/Tekfen%20Construction-Carbon%20Offsetting.pdf)

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 data obtained from suppliers or value chain partners	Explanation
Purchased goods and services	Not relevant, explanation provided				Emissions from purchased goods and services were not found to be relevant to calculate.
Capital goods	Not relevant, explanation provided				Scope 3 emissions from purchased capital goods are not relevant in our operations.
Fuel-and-energy-related activities (not included in Scope 1 or 2)	Not relevant, explanation provided				Scope 3 emissions from fuel and energy related activities are not relevant in our operations.
Upstream transportation and distribution	Not relevant, explanation provided				Scope 3 emissions from upstream transportation and distribution are not relevant
Waste generated in operations	Relevant, calculated	8848.28	Waste data in tonnes are tracked in our operations. We apply DEFRA's up to date waste emission factors for Scope 3 calculations.	2.00%	
Business travel	Relevant, calculated	2606.9	We obtain flight information from our travel supplier. We then use ICAO distance data and apply DEFRA's up to date business travel air emission factors.	100.00%	
Employee commuting	Relevant, calculated	501.82	We obtain employee commuting distance information from our service providers. We then apply DEFRA's up to date road travel emission factors.	100.00%	
Upstream leased assets	Not relevant, explanation provided				Scope 3 emissions from upstream leased assets are not relevant to our operations.
Downstream transportation and distribution	Not relevant, explanation provided				Our operations do not include downstream transportation and distribution activities.

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using data obtained from suppliers or value chain partners	Explanation
Processing of sold products	Not relevant, explanation provided				We do not sell products that are later processed.
Use of sold products	Not relevant, calculated	44597.25	We obtain a database of our sold products from our petrol stations and organized industrial zone. We apply IPCC and DEFRA emission factors for calculating Scope 3 emissions.	0.00%	
End of life treatment of sold products	Not relevant, explanation provided				End of life treatment of our sold products are not relevant to our operations.
Downstream leased assets	Relevant, calculated	85007.23	We obtain electricity consumption information from our leases and apply Turkey average grid emission factor.	2.00%	
Franchises	Not evaluated				Our operations do not involve franchises.
Investments	Not relevant, explanation provided				Emissions from investments are not relevant
Other (upstream)	Not relevant, explanation provided				There are no additional sources of Scope 3 emissions from our operations.
Other (downstream)	Not relevant, explanation provided				There are no additional sources of Scope 3 emissions from our operations.

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

Verification or assurance cycle in place	Status in the current reporting year	Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of reported Scope 3 emissions verified (%)
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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
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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)

No, we do not engage

CC14.4a

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

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

Type of engagement	Number of suppliers	% of total spend (direct and indirect)	Impact of engagement
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CC14.4c

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

We recently established a Sustainability Coordinatorship and previously did not engage with our value chain on GHG emissions and climate change strategies. Following our Scope 1 and 2 reduction strategies and future plants, there will be plans for developing these strategies in the future.

Further Information

Module: 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
Osman Birgili	President, Tekfen Group of Companies	President

Further Information

CDP 2017 Climate Change 2017 Information Request