

Welcome to your CDP Climate Change Questionnaire 2023

C0. Introduction

C0.1

(C0.1) Give a general description and introduction to your organization.

Our company started its energy activities in 1989 affiliated with Akkök Group of Companies. Akenerji, which has been operating as a free electricity generation company since 2005, became one of the leading companies in Turkey's energy sector as of the end of 2021. Akenerji, which is an example in the energy sector with more than 33 years of knowledge, with 1 natural gas combined cycle, 1 wind power plant and 7 hydroelectric power plants has created portfolio diversity in terms of source and geography. As of the end of 2021, 26% of our installed power, which is 1,224 MW, consists of renewable energy sources. All our active plants are administratively operating under the Generation Assistant Manager under the name of Akenerji Elektrik Üretim A.Ş., depending on Operations and Maintenance. All our plants except for Erzin Power Plant carry out electricity generation activities from renewable energy sources. Being aware of the importance of renewable energy for the future of the world, Akenerji has put the goal of; continuing renewable energy investments in the future, at the top of its main strategic goals. In this context, all activities are carried out by prioritizing renewable investments and following a sustainable business model.

Akenerji's Sustainability Approach:

Sustainability is integrated into increasing number of decision making mechanisms within the company in line with the UN Global Compact Sustainability Development Goals. As a tool for managing and maintaining the efforts to reach sustainability, Akenerji gives importance to monitor quality performance in its services together with stakeholder engagement performance.

As a part of monitoring the environmental sustainability performance, Akenerji launched the "Carbon Management Project" which includes regular monitoring of the company's GHG emissions. GHG inventory of Erzin Natural Gas Power Plant is monitored, reported and verified in ISO 14064 standard since 2016.

We benefit from a variety of dialogue platforms to learn about the sustainability expectations of our stakeholders including employees, customers, creditors, investors, regulatory bodies, suppliers, local communities, local authorities, society, and media as well as to give them information on these issues. The communication channels are integrated management systems, "We Are the Energy" Employee Suggestion System, Customer satisfaction surveys,

Environmental Impact Assessment (EIA) reports, workshops/events etc. Moreover, Akenerji participates to CDP Climate Change program since 2010; prepares annual sustainability reports according to GRI Standards since 2012. As a part of our communication channels with our stakeholders, we also benefit from sustainability reports. Sustainability Report has been prepared in accordance with the GRI Standards: Core option principles taking United Nations Sustainable Development Goals into account. Akenerji's all power plants have ISO 9001:2015 Quality, ISO 45001:2018 Occupational Health and Safety and the ISO 14001: 2015 Environment Management Systems and ISO 50001:2018 Energy Management System since 2010

We have been listed on "BIST Sustainability Index" which lists the companies that are traded at Borsa İstanbul and that have highest corporate sustainability performance ratings. Our Borsa İstanbul Sustainability Index score was determined as "B".

Moreover, as of 2015, CDP Water Program has been initiated in our country. We have been among the pioneer companies that started to report to the program in its initial year and conveyed our water management system. Carbon Disclosure Project (CDP) Turkey 2017 Water Leadership Award granted to us as the result of the steps we have taken as Akenerji about water.

in 2021, we prepared our Corporate Sustainability Management handbook. We determined our sustainability performance indicators and our sustainability strategies covering the years 2021-2025. We have established our goals in line with the United Nations Sustainable Development Goals. We transparently inform our stakeholders about our activities and successes, along with the challenges we face. Every year, we publish a comprehensive report on our progress, goals and efforts. Within the scope of the Corporate Governance Communiqué and Sustainability Principles Harmonization Framework of the Capital Markets Board; A Sustainability Committee composed of Executives was formed by our Board of Directors for Environmental, Social, Corporate Governance (ESG) extensions, collection and monitoring of related policies and documents, the Company's Security Policy was approved, the internet files were also disclosed to the public, and a statement was made on the Public Disclosure Platform (Public Disclosure Platform). Our Sustainability Report has started to be published as an Integrated Annual Report as of the 2021 activity year.

C0.2

(C0.2) State the start and end date of the year for which you are reporting data and indicate whether you will be providing emissions data for past reporting years.

Reporting year

Start date

January 1, 2022

End date

December 31, 2022

Indicate if you are providing emissions data for past reporting years

Yes

Select the number of past reporting years you will be providing Scope 1 emissions data for

2 years

Select the number of past reporting years you will be providing Scope 2 emissions data for

2 years

Select the number of past reporting years you will be providing Scope 3 emissions data for

2 years

C0.3

(C0.3) Select the countries/areas in which you operate.

Turkey

C0.4

(C0.4) Select the currency used for all financial information disclosed throughout your response.

USD

C0.5

(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your chosen approach for consolidating your GHG inventory.

Operational control

C-EU0.7

(C-EU0.7) Which part of the electric utilities value chain does your organization operate in? Select all that apply.

Row 1

Electric utilities value chain

Electricity generation

Other divisions

C0.8

(C0.8) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

Indicate whether you are able to provide a unique identifier for your organization	Provide your unique identifier
Yes, an ISIN code	TRAAKENR91L9

C1. Governance

C1.1

(C1.1) Is there board-level oversight of climate-related issues within your organization?

Yes

C1.1a

(C1.1a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for climate-related issues.

Position of individual or committee	Responsibilities for climate-related issues
Chief Executive Officer (CEO)	<p>In Board of Directors (BoD), CEO has the highest level of responsibility of execution, including the responsibility for climate-related issues.</p> <p>Internal and external communication of sustainability performance is carried out through annual environmental and social performance monitoring reports for creditors, and management systems and annual sustainability reports, and they are reported to the Board of Directors via the Executive Board.</p> <p>In Akenerji's risk register, climate-related risks and opportunities are assessed and analysed in a quantitative way.</p> <p>Akenerji Risk Management Committee, under the chairmanship of the CEO, analyses all risks monthly. Key risks and opportunities are reported bimonthly to the Early Determination of Risk Committee and then to the BoD.</p>

C1.1b

(C1.1b) Provide further details on the board's oversight of climate-related issues.

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Please explain
Scheduled – some meetings	<p>Reviewing and guiding annual budgets</p> <p>Overseeing major capital expenditures</p> <p>Reviewing innovation/R&D priorities</p> <p>Overseeing and guiding employee incentives</p> <p>Reviewing and guiding strategy</p> <p>Overseeing and guiding scenario analysis</p> <p>Overseeing the setting of corporate targets</p> <p>Monitoring progress towards corporate targets</p> <p>Overseeing and guiding public policy engagement</p> <p>Reviewing and guiding the risk management process</p>	<p>The management of the environmental and social elements in our operating power plants is under the responsibility of the Directorate of Environment, Quality under Production Deputy Directorate General. The units responsible for the project undertake the management of the OSG and environmental performance during the period from the projecting phase to the commissioning of the plants. Key environmental and social performance data on our plants and project sites are reported to the Board of Directors. In addition, annual or periodic environmental and social performance monitoring reports and annual sustainability reports to financial institutions originating from signatories and contracts are also reported to the Board of Directors through the Executive Board.</p> <p>"Environment and Quality" is a regular standard agenda item for the Board of Directors Meetings. The related issues are discussed under this agenda item, regularly in BoD meetings.</p>

C1.1d

(C1.1d) Does your organization have at least one board member with competence on climate-related issues?

	Board member(s) have competence on climate-related issues	Criteria used to assess competence of board member(s) on climate-related issues
Row 1	Yes	Independent Member of the Board of Directors is initially coordinated the donor supported program "Environment for Europe". Subsequently as the director of the World Bank/Swiss "National JI/CDM Strategy

		Study program (NSS). As a non-political expert, He was appointed in September 2006 as the Minister of the Environment in the Czech Government. During later 2007-2013, he had been acting as the advisor to three prime ministers, several ministers including environment and agriculture. As a member of the international organizations including the World Energy Council, he also acts as the vicepresident of the Czech branch of the World Business Council for Sustainable Development. Since 2014, He chairs the Committee for Sustainable Energy within the Governmental Council for Sustainable development under auspices of the Prime Minister.
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C1.2

(C1.2) Provide the highest management-level position(s) or committee(s) with responsibility for climate-related issues.

Position or committee

Chief Executive Officer (CEO)

Climate-related responsibilities of this position

Managing annual budgets for climate mitigation activities
Managing major capital and/or operational expenditures related to low-carbon products or services (including R&D)
Managing climate-related acquisitions, mergers, and divestitures
Providing climate-related employee incentives
Developing a climate transition plan
Integrating climate-related issues into the strategy
Conducting climate-related scenario analysis
Setting climate-related corporate targets
Monitoring progress against climate-related corporate targets
Managing public policy engagement that may impact the climate
Assessing climate-related risks and opportunities
Managing climate-related risks and opportunities

Coverage of responsibilities

Reporting line

Reports to the board directly

Frequency of reporting to the board on climate-related issues via this reporting line

More frequently than quarterly

Please explain

In Board of Directors (BoD), CEO has the highest level of responsibility of execution, including the responsibility for climate-related issues.

Internal and external communication of sustainability performance is carried out through annual environmental and social performance monitoring reports for creditors, and management systems and annual sustainability reports, and they are reported to the Board of Directors via the Executive Board, under the chairmanship of CEO.

In Akenerji's risk register, climate-related risks and opportunities are also assessed and analysed in a quantitative way.

Akenerji Risk Management Committee, under the chairmanship of the CEO, analyses all risks monthly. Key risks and opportunities are reported bimonthly to the Early Determination of Risk Committee and then to the BoD.

Position or committee

Risk committee

Climate-related responsibilities of this position

Assessing climate-related risks and opportunities

Managing climate-related risks and opportunities

Coverage of responsibilities

Reporting line

CEO reporting line

Frequency of reporting to the board on climate-related issues via this reporting line

More frequently than quarterly

Please explain

Risk Management Committee manages the overall company risks within the Framework of Enterprise Risk Management.

The Risk Management Committee was established to take quicker decisions and take immediate actions, especially on the operational issues due to the changing conditions. The committee also has the major role in assessing the future potential risks and opportunities.

The Committee members are composed of the General Manager, Assistant General Mahaners, Directors and Strategic Planning and Risk Manager. The Committee convenes on a monthly basis, and it is ensured that the necessary actions are taken by discussing the risks that the Company incurs/may incur.

Since the company is in energy business, climate related risks and opportunities are included in the company risk register.

Position or committee

Other, please specify
Early Detection of Risk Committee

Climate-related responsibilities of this position

Assessing climate-related risks and opportunities
Managing climate-related risks and opportunities

Coverage of responsibilities

Reporting line

Reports to the board directly

Frequency of reporting to the board on climate-related issues via this reporting line

More frequently than quarterly

Please explain

The Early Detection of Risk Committee is established under the supervision of the Akenerji Board of Directors. Members are appointed by the Board of Directors in accordance with the related legislation provisions. The Committee ensures that appropriate risk management processes and capabilities are in place in order to timely identify the risks which may danger the Company's existence, development and continuity, and does studies for to apply necessary preventive actions and to manage risks.

The Early Detection of Risk Committee convenes bi-monthly and reports to the Board of Directors.

Members are appointed by the Board of Directors, from the independent Board members, in accordance with the related legislation provisions.

Position or committee

Sustainability committee

Climate-related responsibilities of this position

Monitoring progress against climate-related corporate targets
Managing public policy engagement that may impact the climate
Managing value chain engagement on climate-related issues
Assessing climate-related risks and opportunities
Managing climate-related risks and opportunities

Coverage of responsibilities

Reporting line

Operations - COO reporting line

Frequency of reporting to the board on climate-related issues via this reporting line

More frequently than quarterly

Please explain

Akenerji has a holistic approach to sustainability, which integrates the environmental, economic and social dimensions of sustainability through the support of various departments. The ultimate responsibility is given to the highest level of decision making authority, and it is the board of directors.

In order to manage and report sustainability efforts and achievements in a more holistic manner, a Sustainability Committee was established within Akenerji in 2013. The business units represented at the Sustainability Committee are as follows:

- Environment and Quality (Leader)
- Health and Safety
- Accounting and Tax Management
- Corporate Communications
- Energy Services
- Trade
- Natural Gas Supply and Trading
- Human Resources
- Legal Affairs
- Procurement
- Projects
- Strategic Planning and Risk Management

All climate change-related efforts and achievements at Akenerji are reported to the CEO. To manage these efforts, Akenerji has a Quality Project Team under the lead of Environment and Quality (EQ) department. The Quality Project Team consists of 11 employees including environmental engineers, health & safety specialists, and engineers and operators from the power plants.

The Quality Project Team has regular meetings to check the status of our efforts under ISO 9001 (Quality), ISO 14001 (Environment) and ISO 45001 (Health and Safety), ISO 50001(Energy) and ISO 14064-1 Verification to ensure compliance with applicable environmental, health and safety regulations, to make gap analysis, and to plan for continuous improvements.

Our internal auditors were selected to have at least one person from each department, and they have been trained by an external consultancy firm to in order to improve and maintain management systems. All departments accept responsibility for climate change and involve the risks and opportunities in their decision making processes, embed them into their sustainability targets. The coordination of efforts for dealing with the risk and opportunities of climate change are coordinated by Environment and Quality (EQ)

department.

In our operating power plants, the Directorates of Environment and Quality, that operate under the function of the Power Generation Directorate are responsible for the management of environmental sustainability efforts. Directorate of EQ is responsible for environmental performance throughout the process starting with project phase until the full operation of plants.

Position or committee

Safety, Health, Environment and Quality committee

Climate-related responsibilities of this position

Monitoring progress against climate-related corporate targets

Managing public policy engagement that may impact the climate

Managing value chain engagement on climate-related issues

Assessing climate-related risks and opportunities

Managing climate-related risks and opportunities

Coverage of responsibilities

Reporting line

Operations - COO reporting line

Frequency of reporting to the board on climate-related issues via this reporting line

More frequently than quarterly

Please explain

C1.3

(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?

	Provide incentives for the management of climate-related issues	Comment
Row 1	Yes	Board of Directors has the ultimate responsibility about the overall performance of Akenerji and bonus is delivered inline with the achievements of the targets at the year end. Particularly, achievement of water related target and increase of efficiency are of important targets for the Board. A performance based compensation is available for EQ Department staff based on the pre-determined targets.

		All employees have personal performance indicators as well and are rewarded when they reached the target. All employees can suggest improvements to reduce the environmental footprint of the company through filling out questionnaires to be submitted to their supervisors and to EQ directly. There is an opportunity for the employees especially for the ones working at the power plants to receive monetary reward, in case their suggestions are considered to have a significant improvement in the company's environmental performance, and are implemented following the evaluation.
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C1.3a

(C1.3a) Provide further details on the incentives provided for the management of climate-related issues (do not include the names of individuals).

Entitled to incentive

Board/Executive board

Type of incentive

Non-monetary reward

Incentive(s)

Other, please specify

Behavior change related indicator

Performance indicator(s)

Incentive plan(s) this incentive is linked to

Further details of incentive(s)

Explain how this incentive contributes to the implementation of your organization's climate commitments and/or climate transition plan

Entitled to incentive

Environment/Sustainability manager

Type of incentive

Monetary reward

Incentive(s)

Other, please specify

Successful impl. of carbon management

Performance indicator(s)

Incentive plan(s) this incentive is linked to

Further details of incentive(s)

Explain how this incentive contributes to the implementation of your organization's climate commitments and/or climate transition plan

C2. Risks and opportunities

C2.1

(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities?

Yes

C2.1a

(C2.1a) How does your organization define short-, medium- and long-term time horizons?

	From (years)	To (years)	Comment
Short-term	0	2	Short term is 0-2 years
Medium-term	2	5	Medium-term is 2-5 years
Long-term	5	20	Long-term is 5-20 years

C2.1b

(C2.1b) How does your organization define substantive financial or strategic impact on your business?

In Akenerji, risks are evaluated based on certain assumptions and criteria. The risks are categorized under five headings;

- Reputation risks
- Compliance risks
- Strategic risks
- Operational risks
- Financial risks

Scoring for each of these risk categories is done using a 5-scale scoring table. Impact Criteria from 1 to 5 for each of the above categories are written in detail in our internal risk procedure, so that anyone can identify the impact level based on the clearly stated situations, for each scoring from 1 to 5.

Financial impact range is also identified in the internal risk procedure. Based on the risk appetite, the highest impact level, which is 5, corresponds to financial impact of higher than 4 mio USD. Likelihood is also identified based on 5-scale table (i.e. 1-very low likelihood, which may only occur in exceptional circumstances. and 5-very high likelihood, which is expected to occur in most circumstances)

Accordingly, a substantive financial or strategic impact is defined if the impact and likelihood multiplication is higher than 15. (i.e. the financial impact is higher than 4 mio USD (Impact: 5) and the probability is medium (Likelihood: 3)

C2.2

(C2.2) Describe your process(es) for identifying, assessing and responding to climate-related risks and opportunities.

Value chain stage(s) covered

Direct operations
Upstream

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

Akenerji's Enterprise Risk Management (ERM) process provides a systematic method for effective decision-making and timely response as soon as risks arise including climate-related risks, while establishing the context for risk detection, evaluation, response, reporting and monitoring of risks and opportunities. Akenerji's risk maps are based on each business unit's risk register. These risk registers are reviewed and updated in line within the framework of the ERM process and under the supervision of Business Unit Risk Responsibles. Akenerji ERM scope and framework were established based on the risk appetite and tolerance in analyzing and managing risks coherent with company's targets and business segment; risk assessment criteria; risk categories and the ERM strategy.

Following are taken into consideration while identifying circumstances that may negatively impact company activities:

- Company's main business operations
- Strategic goals
- Physical environment
- Corporate culture
- Employees
- Past experiences (losses or failures)
- External factors
- Findings of audits, etc.

Risks that are identified in the previous stage are evaluated based on certain assumptions and criteria; and risk levels are determined. Opportunities, if any, are also analyzed based on a cost-benefit analysis.

BoD determines what type of risk response should be used by choosing among 5 different response types (accept, avoid, mitigate, transfer), while taking into account the root causes, net risk level and Akenerji risk appetite.

An action plan is designed for each risk response. Action plans, in general, are designed by Unit Risk Responsibles and undertaken by the Risk Owner.

Akenerji ERM Process is an effective program that meets relevant needs. Improvement and effectiveness of risk treatment strategies are evaluated and risks are periodically reported.

C2.2a

(C2.2a) Which risk types are considered in your organization's climate-related risk assessments?

	Relevance & inclusion	Please explain
Current regulation	Relevant, always included	Climate-related regulatory risks are included in Akenerji's ERM system. For example carbon emissions, which are the leading cause of global climate change. The Regulation Concerning Monitoring of Greenhouse Gas Emissions was issued by the Turkish Ministry of Environment and Urbanism (MoEU) and published in the Official Gazette on 25 April 2012. It is generally based on the United Nations Framework Convention on Climate Change and the Kyoto Protocol. The purpose of the Regulation is to set forth the principles and procedures for monitoring and reporting of greenhouse gases (GHG) arising from the facilities performing the activities listed in Annex 1 of the Regulation. Akenerji's natural gas CCGT power plant "Erzin" with 904 MW of installed capacity is subject to the Regulation as per Annex 1. Pursuant to Article 6 of the Regulation, operators of the Facilities shall

		<p>monitor the GHG arising from their Facilities according to the principles set forth in the Regulation, and shall prepare a GHG monitoring plan for this purpose. The operators of the Facilities shall submit their monitoring plan to the Ministry of Environment for approval and registration. Furthermore, as per Article 7 of the Regulation, the operators of such Facilities shall submit an annual GHG report prepared in accordance with the monitoring plan to the MoEU for the GHG emissions observed in the previous calendar year. Both the GHG monitoring plans and the annual GHG reports shall be verified by accredited verification institutions before their submission to the MoEU. The “Greenhouse Gas Monitoring Plan” for the Erzin natural gas CCGT that was prepared within the scope of the Regulations was submitted to and approved by the MoEU. Greenhouse gas emission of Erzin power plant has been monitored and reported (verified by accreditors) monthly in conformity with the Greenhouse Gas Monitoring Plan approved by the Ministry. In Akenerji, the Department of Environment, Quality is responsible for managing the related processes, therefore the related risk. The related risk has been defined, assessed, continuously being monitored and reported within the framework of Akenerji ERM process through risk registers and other risk reports.</p>
Emerging regulation	Relevant, always included	<p>Since the Paris Agreement having entered into force, the global attention is on the implementation. The issue of carbon pricing has gained increased interest as a result of the global agreement. Which is also a subject for Turkey, since Turkey submitted its intended national determined contribution (INDC) in the run-up to the Paris conference pledging intended greenhouse gas (GHG) emissions reductions of up to 21% in 2030 as compared to a business as usual scenario. To support the formulation of Turkey’s low carbon development policies, Turkey received a grant from the World Bank Partnership for Market Readiness (PMR). The projects are implemented by the Ministry of Environment and Urbanization (MoEU) through the Climate Change Department (CCD). 1st Phase of the Project completed, and now the project is at the 2nd Phase. Turkey is considering the use of market based instruments such as carbon pricing to reach its climate change mitigation targets as said in the Project’s report “Roadmap for the Consideration of Establishment and Operation of a Greenhouse Gas Emissions Trading System in Turkey”.</p> <p>Akenerji is closely monitoring the GHG emissions trading system, carbon pricing and other climate-change related regulatory developments such as European Green Deal through consultation with policy makers, attending related events and workshops, etc.. Carbon pricing and such regulatory changes and their impacts on our business are considered in a separate CO2 scenario analysis. The related risk has been defined, assessed, continuously being monitored and</p>

		reported within the framework of Akenerji ERM process through risk registers and other risk reports.
Technology	Relevant, always included	Akenerji considers technology in assessing especially strategic and operational risks within the Akenerji ERM process. The electric utility industry is a key player in climate change mitigation. Akenerji evaluates the existing technology of its power plants and closely monitor the technological developments in the market when analyzing options to mitigate GHG emissions by increased efficiency, fuel switching, GHG capture, etc. and considers adaptation strategies to changing climate conditions which could affect the power generation capacities of its power plants.
Legal	Relevant, always included	Electric utilities sector in Turkey is regulated by the rules created by government/local authorities which the utility companies must adhere to by law. Akenerji ERM system covers compliance assessment to legal risks arising from Akenerji's activities. There are number of regulative arrangements with regards to climate change related legal and regulatory framework, some are already in force (Regulation on the Monitoring of GHG Emissions, The Energy Efficiency Law No. 5627, etc.) and some in the pipeline/ at design stage. Akenerji strictly compliance with laws and regulations, committed to sustaining a strong management and control systems and strategies, closely follows the developments in regulatory environment and adapts its strategies accordingly.
Market	Relevant, always included	Climate change and therefore the low-carbon policies together with the developments in technology highly effecting the electricity market, the electricity prices, the electricity demand, customer and competitor behaviors. Akenerji considers climate change related market risks in its strategy and business plan. As an example, long-term electricity price forecasting study and strategic plan study is made every year. Scenario analysis made for commodity price, carbon price, demand and supply forecasting. Climate change related government policies, customer behaviors, technological developments (ex: higher efficiency power plants, etc.) and other risks and/or opportunities are taken into consideration during scenario analysis.
Reputation	Relevant, always included	Climate change results in negative impacts to society in different ways. Reputation risk to Akenerji brand is assessed for any event including climate change related events (physical: flood, drought, etc. and transitional). As an example to mitigate flood risk impact to the society, we prioritize the safety and security of the local populations residing within the impact zones of our operations through awareness raising and preservation. This is an example to the actions we take with intentions to prevent and mitigate the environmental and social risks. Our company is committed to fulfill its responsibilities towards its

		customers, employees, suppliers and business partners, rivals, and the environment and the society.
Acute physical	Relevant, always included	The climate change is deriving severe weather events such as floods, droughts, temperatures well above the seasonal mean temperatures (heat-waves) etc. These events have a direct impact on Akenerji operations and may result in asset damages, operation cuts, reduced efficiency, etc. Akenerji considers acute physical events in risk assessment. Akenerji manages these risks by; –using tools for weather forecasting to predict hydrology to limit the economic and social damage caused by an increasing frequency and intensity of heavy rains, droughts, etc. –monitoring slope stability at some power plants to be able to mitigate erosion and possible damages to the power plant and/or surrounding environment as a result of heavy rains –managing via diversified energy portfolio (hydro, natural gas, wind PPs in different locations) etc.
Chronic physical	Relevant, always included	Akenerji considers also chronic physical events in risk assessment. For example water scarcity, reduced inflow due to reduced precipitation has negative effects on hydropower generation. Akenerji manages these risks by; –using tools for weather forecasting to predict hydrology to limit the economic loss... –use of historical water inflow data, etc. for modelling (forecasting) –managing via diversified energy portfolio (hydro, natural gas, wind PPs in different locations) etc.

C2.3

(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes

C2.3a

(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation

Carbon pricing mechanisms

Primary potential financial impact

Increased indirect (operating) costs

Company-specific description

Within the framework of approximation to UNFCCC; Turkey submitted its intended national determined contribution (INDC) in the run-up to the Paris conference pledging intended greenhouse gas (GHG) emissions reductions of up to 21% in 2030 as compared to a business as usual scenario.

Two policies can be applied that deliver an explicit price on GHG emissions: a tax on GHG emissions and emissions trading.

Turkey develops national emission reduction plan within the framework of EU-ETS Acquis approximation. If Turkey commits to make mitigation, carbon taxes may be introduced to energy intensive sector at the first attempt and this could adversely affect the operational costs of our thermal power plant.

Turkey is also considering the use of market based instruments such as carbon pricing to reach its climate change mitigation targets. An emissions trading system (ETS), sets a limit (or cap) on greenhouse gas (GHG) emissions from installations covered by the system. Installations covered under the ETS need to surrender emissions allowance to cover the total volume of GHG emitted.

Although the mechanism is not identified yet, Akenerji considers the risk of increase in operating cost, due to carbon pricing, for all of its power plants.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

5,719,005

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Carbon emission of all power plants of Akenerji was 1,384,106 tCO₂e in 2020 and 1,560,466 tCO₂e in 2021 and 1,143,801 tCO₂e in 2022 which depends on the annual generation.

If it is assumed that a carbon tax of 5 US\$/tCO₂e is introduced to the Turkish market, total tax associated with overall emissions of Akenerji would be 5,719,005 US\$ for 2022.

The estimated negative financial impact could be around these values per annum, depending on the price for carbon tax and the annual produced carbon emission.

Cost of response to risk

0

Description of response and explanation of cost calculation

Until the end of 2017, Akenerji has invested around a total of US\$ 700 mio. in renewable energy production.

Akenerji's only thermal power plant of Erzin, which had a total investment cost of US\$ 900 mio., is equipped with high efficiency gas turbines (58%, F type) that is already satisfying European standards.

Akenerji shut-down its low-efficiency old natural gas power plants.

Currently, Akenerji doesn't have any specific cost for the management of this risk.

Akenerji is evaluating the possible emission reduction actions to be taken within the long-term.

Comment

Akenerji closely monitors regulatory changes and seeks ways for adaption before any new regulations get into force.

Akenerji is evaluating emission reduction possibilities for long term plans.

The long term strategy may involve in

- (1) implementing higher efficiency gas turbines,
- (2) phasing out low efficiency/old natural gas power plant,
- (3) carbon sequestration and storage and/or
- (4) investing in renewable energy.
- (5) carbon offsets by Akenerji's renewable power generation.

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation

Enhanced emissions-reporting obligations

Primary potential financial impact

Increased direct costs

Company-specific description

Inline with the studies on National regulation regarding GHG emissions; a law put into force about Mandatory Carbon reporting in Turkey. (Turkish Regulation for Monitoring, Reporting and Verification of Greenhouse Gas Emissions – official journal 28.12.2014 dated and 29219 numbered.)

The purpose of the Regulation is to set forth the principles and procedures for

monitoring and reporting of greenhouse gases arising from the facilities performing the activities listed in Annex 1 of the Regulation, which are using energy intensively (Erzin natural gas power plant of Akenerji is covered under Annex 1).

Pursuant to Article 6 of the Regulation, operators of the Facilities shall monitor the GHG arising from their Facilities according to the principles set forth in the Regulation, and shall prepare a GHG monitoring plan for this purpose.

Furthermore, as per Article 7 of the Regulation, the operators of such Facilities shall submit an annual GHG report prepared in accordance with the monitoring plan to the Ministry of Environment by the end of each April for the GHG emissions observed in the previous calendar year. 1st reports submitted in April 2016.

Any failure on reporting obligations results in penalty.

Time horizon

Short-term

Likelihood

Exceptionally unlikely

Magnitude of impact

Low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

28,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

As a negative financial impact; failure to meet obligations under the Regulation for Monitoring, Reporting and Verification of Greenhouse Gas Emissions could result in a penalty of up to US\$ 28,000 annually per applicable facility according to the regulation and at current rates.

Cost of response to risk

8,500

Description of response and explanation of cost calculation

Akenerji submitted its monitoring plan to the related Ministry. Since the Law for Carbon emissions reporting became mandatory in 2015, Akenerji submits an annual GHG report that is prepared in accordance with the monitoring plan to the Ministry of Environment for the GHG emissions observed in the previous calendar year. Both the GHG monitoring plans and the annual GHG reports are verified by accredited verification institutions before their submission to the Ministry of Environment.

Comment

Akenerji has installed an emission monitoring system to its power plant of Erzin, which is producing electricity from natural gas, to meet with its GHG emissions reporting obligations. The cost of the system was US\$ 814,150.

In addition, Akenerji has to procure services from an accredited verification institution each year to get its monitoring plan and the report verified. As an additional to other operating costs, the cost of such services is ave. US\$ 8,500 per annum.

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Chronic physical

Precipitation and/or hydrological variability

Primary potential financial impact

Decreased revenues due to reduced production capacity

Company-specific description

Climate change is a key driver for hydropower. It will cause increased variability of precipitation events which will result in more severe and frequent floods and droughts, seasonal offsets, changes in seasonality, etc. In this risk, as a result of decrease in average precipitation (due to increase in drought seasons) may cause reduced access to water for electricity generation for Akenerji's hydroelectric power plants.

Time horizon

Long-term

Likelihood

Likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

38,000,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Negative financial implications may change according to the magnitude of the drought, so the effect can not be clearly calculated. The most significant drought happened in year 2014. The revenue loss due to drought for the first 3 months of 2014 was roughly US\$ 38,000,000 when it was compared to the same period of the previous year. (Calculation is based on the differences in hydro generation values for the first three months of 2013 and 2014. The average market price for the first three months is used in the calculation.)

Cost of response to risk

15,000

Description of response and explanation of cost calculation

The management of this risk is currently a part of our daily business. Apart from the supporting tools for weather forecasting, which roughly has a cost of US\$ 15,000 pa, there is no other additional cost on top of the current OPEX. However, considering that the patterns are likely to change more in the future, Akenerji is studying the long-term effects of this risk on Akenerji's current assets, and looking for additional tools. Akenerji is also looking for investment opportunities with different energy sources to balance the generation portfolio and hence the negative effect of reduced hydro generation.

Comment

Energy is a vital source for the development of our country and to maintain the modern life style of human beings. Our prior goal is to provide continuous power supply on that purpose. For that reason, we diversify the electricity generation sources by investing in a state of art natural gas combined cycle power plant, which are considered as base load plants for security of supply. Besides, it provides electricity in high emission efficiency according to most of the natural gas power plants.

Identifier

Risk 4

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical

Other, please specify

Storm, strong rain, flood

Primary potential financial impact

Increased capital expenditures

Company-specific description

Storm, strong wind and strong rain due to climate change may have impacts on all power plants.

As it is explained by the scientists, it is likely that in a warmer climate heavy rainfall will

increase and be produced by fewer more intense events. This could lead to longer dry spells and a higher risk of floods. It can damage power generation units and distribution lines of Hydroelectric Power Plants (HEPPs).

Coastal areas are highly dynamic: storms batter, sea levels rise, and land shifts. This already poses problems for the safety (flooding, loss of power, loss of communications, blockage of evacuation routes and equipment malfunction, etc.) of Erzin natural gas power plant, which is located near by the sea.

Time horizon

Long-term

Likelihood

About as likely as not

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

4,000,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Financial implications have a broad scale of possibilities depending on the impact. Therefore, both the impact and its financial negative implication can differ according to the magnitude of the damage.

In case of such event, heavy damage on power plants, power distribution lines, loss of power generation due to stopped operation, loss from the electricity sales from assets due to market prices, etc. shall be considered for the financial impact calculations.

Although such a case study with exact figures doesn't exist, any cost of such event higher than US\$ 4 mio. can be considered as with high impact.

Cost of response to risk

0

Description of response and explanation of cost calculation

Since we can not have a direct control over the such events, Akenerji improves its emergency response capacities, include severe weather events in the insurance of our power plants, etc. Apart from that all our power plants are designed and built in accordance with the long-term historical data of such extreme weather events which is especially important for the dam design, etc. for hydroelectric power plants for flooding. Apart from the insurances, there are no other costs. The insurance cost for the extreme

weather events cannot be separately given than the full cost of the insurance.
Therefore, the cost is taken as zero.

Comment

We take precautions by evaluating weather forecasts and maximum flow expectations.
Besides; continuous maintenance and repairs are driven in the plants.
We have a diversified production mix, which are located in different regions of Turkey,
which we believe it would diversify the risk.

C2.4

(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes

C2.4a

(C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Opp1

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Development and/or expansion of low emission goods and services

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

With the positive developments in voluntary carbon market in Turkey, the demand and the price for the carbon emission reduction certificates of Akenerji's renewable power plants, may increase, creating an additional revenue for the company.

Turkey develops national emission reduction plan within the framework of EU-ETS Acquis approximation. If Turkey commits to make mitigation, sectoral emission reduction targets may be enforced with a cap system and carbon taxation will be applied. Akenerji's power plants producing renewable energy are in the Carbon registry. Currently, Turkey is in the global voluntary carbon market. The voluntary carbon market relates to transactions in carbon credits that fall outside the compliance schemes

created under the Kyoto Protocol. Demand for carbon credits in this market is driven largely by companies that pursue voluntary greenhouse gas emissions targets and intend to demonstrate climate leadership within the industry. Since the market is voluntary, the demand for carbon offsetting, therefore the sale price of the carbon credits are very low. Cap system and/or carbon taxation will have an increasing effect on the demand and the prices. In this case, Akenerji's income from carbon offsetting activities will increase substantially.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

2,210,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

If we consider that Akenerji sells all its carbon credits produced for each year in the following year, in medium term, we can expect approximately 2,210,000 USD additional income on sale of renewables carbon certificates, assuming that Akenerji renewable plants produce on average per year 400,000 tCO₂e VCS and 30,000 tCO₂e Gold Standard certificates. VCS price is assumed to be 5 USD/t, GS price is assumed to be 7 USD/t in medium term.

Cost to realize opportunity

120,000

Strategy to realize opportunity and explanation of cost calculation

Cost to realize the opportunity includes the verification costs (consultancy&DoE) and the issuance costs for the certificates.

The annual cost, to have 400,000 tCO₂e VCS and 30,000 tCO₂e GS per year, is calculated as 120,000 USD.

Comment

Akenerji's all renewable power plant projects are registered under either VCS or GS. Being a pioneer company in the sector, supporting the development of carbon markets in Turkey, Akenerji is also the first company to register to the National Carbon Registry (2011) that was launched by the Ministry of Environment and Urbanization to establish voluntary carbon markets and register ongoing projects. The carbon assets are sold to customers for offsetting their emissions.

Identifier

Opp2

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Ability to diversify business activities

Primary potential financial impact

Increased revenues through access to new and emerging markets

Company-specific description

With the increased cost of energy, and increased concerns on climate effect of energy generation, energy efficiency became very important. In this context, Akenerji starte to provide "Energy Services" to its customers to increase their efficiency and reduce their electricity consumption, helping them to achieve their energy and environmental goals. "Energy Services" includes such as energy analysis and audits, energy management, maintenance and operation, monitoring and evaluation of savings, etc.

"Energy Services" also provides project design service, turnkey construction and roof top solar power plant installation, operation and maintenance services with the build-operate-transfer model.

Akenerji Energy Services has achieved an average efficiency of 44% in electrical energy and 55% in natural gas, with the projects it has carried out since 2015, without making any additional investments in the businesses.

Within the scope of "Energy Services", studies have also been initiated in the field of Hybrid Power Plant, which is planned to be realized in coming years in the existing power plants owned by Akenerji. In addition, Akenerji Enerji Services provided guidance to its stakeholders so that they are able to optimize their energy costs and own their own production facilities, in light of the support mechanisms provided in the Unlicensed Electricity Generation Regulation published on May 12, 2019. For this purpose, in order to provide services on Solar Power Plant Projects as well, it shared project proposals with a total capacity of approximately 80 Mwp, and took the first steps to initiate contract negotiations.

Time horizon

Medium-term

Likelihood

Very likely

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

360,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Financial impact of the "Energy Services" business line strongly depends on the future market developments such as pricing and tariff structure in the country and also the efficiency supporting incentives of the government.

In medium term, it is assumed that the efficiency investments will be incentivized by the government and the tariff structure for the industrial and commercial customers will also support the efficiency efforts. If on average 20 customers with 1500 USD monthly additional margin is assumed, the potential financial impact figure will be 360,000 USD.

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

Akenerji is currently focused on developing its Energy Services line and expanding the business by increasing the number of contracts awarded, by using only its internal sources; company know-how and experience in the market for more than thirty years in Turkish electricity market.

Comment

C3. Business Strategy

C3.1

(C3.1) Does your organization's strategy include a climate transition plan that aligns with a 1.5°C world?

Row 1

Climate transition plan

Yes, we have a climate transition plan which aligns with a 1.5°C world

Publicly available climate transition plan

Yes

Mechanism by which feedback is collected from shareholders on your climate transition plan

Our climate transition plan is voted on at Annual General Meetings (AGMs)

Attach any relevant documents which detail your climate transition plan (optional)

C3.2

(C3.2) Does your organization use climate-related scenario analysis to inform its strategy?

	Use of climate-related scenario analysis to inform strategy
Row 1	Yes, qualitative

C3.2a

(C3.2a) Provide details of your organization's use of climate-related scenario analysis.

Climate-related scenario	Scenario analysis coverage	Temperature alignment of scenario	Parameters, assumptions, analytical choices
Transition scenarios IEA 2DS	Country/area		<p>Türkiye announced 2053 Net Zero Emission Target on September 27, 2021. By becoming a party to the Paris Agreement, Türkiye has entered a brand-new process in which economic, environmental, and social transformation begins. In this context, Türkiye has initiated the green transformation movement with the net zero emission target defined as the green development revolution. In Türkiye's Nationally Determined Contribution, policies and measures to reduce greenhouse gas emissions in the energy sector have focused particularly on renewable energy production and energy efficiency targets.</p> <p>Being aware of the importance of renewable energy for the future of the world, Akenerji has put the goal of; continuing renewable energy investments in the future, at the top of its main strategic goals. In this context, all activities are carried out by prioritizing</p>

			<p>renewable investments and following a sustainable business model.</p> <p>In line with the company strategic target, the current largest investment for renewable source is planned for the Kemah Dam and hydro power plant project with 198 MW installed capacity.</p> <p>The project has particular importance for the company since it is the largest hydro project in the generation portfolio. The feasibility studies for the project continue.</p> <p>In addition, the hybrid facility implications in Erzin NGPP has also been accelerated in 2022. The installation of 7.8 MW solar powerplant is under development.</p> <p>Also Ayyıldız WPP capacity will be increased by 6.2 MW.</p> <p>In 2021, we prepared our Corporate Sustainability Management handbook and determined our sustainability performance indicators and our sustainability strategies covering the years 2021-2025. We have established our goals in line with the United Nations Sustainable Development Goals. Within the scope of the Corporate Governance Communiqué and Sustainability Principles Harmonization Framework of the Capital Markets Board; A Sustainability Committee composed of Executives was formed by our Board of Directors for Environmental, Social, Corporate Governance (ESG) extensions, collection and monitoring of related policies and documents, the Company's Security Policy was approved, the internet files were also disclosed to the public, and a statement was made on the Public Disclosure Platform (Public Disclosure Platform). Our Sustainability Report has started to be published as an Integrated Annual Report as of 2021 activity year.</p>
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C3.2b

(C3.2b) Provide details of the focal questions your organization seeks to address by using climate-related scenario analysis, and summarize the results with respect to these questions.

Row 1

Focal questions

What climate-related forces and developments have the greatest ability to shape our future performance? What is their likely timing and potential impact?

Results of the climate-related scenario analysis with respect to the focal questions

Being aware of the importance of renewable energy for the future of the world, Akenerji has put the goal of; continuing renewable energy investments in the future, at the top of its main strategic goals. In this context, all activities are carried out by prioritizing renewable investments and following a sustainable business model.

In line with the company strategic target, the current largest investment for renewable source is planned for the Kemah Dam and hydroelectric power plant project with 198 MW installed capacity.

The project has particular importance for the company since it is the largest hydroelectric power plant in the generation portfolio with the installed capacity of 198 MW. The investment studies for the plant, with an anticipated electricity generation figure of 560 GWh per year, are still in progress.

In addition, the hybrid system applications in Erzin NGPP has also been accelerated in 2022. The installation of 7.8 MW solar powerplant, directly affects the internal consumption.

Also Ayyıldız WPP capacity will be increased 6.2 MW.

In 2021, we prepared our Corporate Sustainability Management handbook. We determined our sustainability performance indicators and our sustainability strategies covering the years 2021-2025. We have established our goals in line with the United Nations Sustainable Development Goals. Within the scope of the Corporate Governance Communiqué and Sustainability Principles Harmonization Framework of the Capital Markets Board; A Sustainability Committee composed of Executives was formed by our Board of Directors for Environmental, Social, Corporate Governance (ESG) extensions, collection and monitoring of related policies and documents, the Company's Security Policy was approved, the internet files were also disclosed to the public, and a statement was made on the Public Disclosure Platform (Public Disclosure Platform). Our Sustainability Report has started to be published as an Integrated Annual Report as of the 2021 activity year.

C3.3

(C3.3) Describe where and how climate-related risks and opportunities have influenced your strategy.

Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence

Products and services	Yes	<p>1-The Company focuses on producing new ideas and projects that will enhance energy efficiency for industrial and commercial customers, with energy systems optimization and management services.</p> <p>"Akenerji Energy Services" aims to reduce energy costs and enhance their competitive edge with the wide variety of services on offer, from consultancy to asset management. Proving that efficiency is possible without investments, Akenerji Energy Services has upgraded its innovational service package by offering combined performance security, bringing together research and reporting, analysis and consultancy, project development, financing, maintenance, operation and validation services under a single roof. Energy Services also provides project design service, turnkey construction and solar power plant installation, operation and maintenance services with the build-operate-transfer model.</p> <p>2- In the sector in preventing carbon emission, Akenerji has VCS (Verified Carbon Standard) & Gold Standard & Social Carbon carbon emission reduction certificates in all renewable power plants where emission reduction certification studies are successfully carried out. These certificates, which are of great importance in the transition process to the low carbon economy were issued to the AKENERJİ power plants by international organizations (Verra, Gold Standard) with the approval of independent auditors.</p>
Supply chain and/or value chain	Yes	<p>We continue to contribute to the development of suppliers by actively using the Supplier Performance System. Our targets will include increasing suppliers' resilience to climate-based risks and neutralizing their carbon footprint.</p>
Investment in R&D	Yes	<p>Akenerji monitors the recent technological improvements and low carbon transition in energy sector, both in Turkish market as well as global markets.</p> <p>Renewable generation is the main component of low carbon transition. Having the renewable generation portfolio, in order to be ready for the future, Akenerji, also makes continuous research about the efficiency, future energy trends and new products and services for the decarbonization process.</p> <p>We also monitor the developments in carbon markets.</p>

Operations	Yes	We try to utilize opportunities and optimize the operations in order to reach a balanced generation portfolio in terms of both source and geography.
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C3.4

(C3.4) Describe where and how climate-related risks and opportunities have influenced your financial planning.

	Financial planning elements that have been influenced	Description of influence
Row 1	Revenues Direct costs Capital expenditures	In long term, due to climate-related risks, the inflows coming to hydro power plants are assumed to decrease, hence decreasing the revenues. For the sustainability and optimization of renewable generation, a specific amount of CAPEX has been allocated in the financial planning, to increase the efficiency in the current power plants. and to invest further in new renewable power plants. In the context of climate-related opportunities, we generate revenues and have direct costs for the operations of Energy Services and for the activities in the Voluntary Carbon Offset market.

C3.5

(C3.5) In your organization's financial accounting, do you identify spending/revenue that is aligned with your organization's climate transition?

	Identification of spending/revenue that is aligned with your organization's climate transition
Row 1	Yes, we identify alignment with our climate transition plan

C3.5a

(C3.5a) Quantify the percentage share of your spending/revenue that is aligned with your organization's climate transition.

Financial Metric

OPEX

Type of alignment being reported for this financial metric

Alignment with our climate transition plan

Taxonomy under which information is being reported

Objective under which alignment is being reported

Amount of selected financial metric that is aligned in the reporting year (unit currency as selected in C0.4)

7,415,617

Percentage share of selected financial metric aligned in the reporting year (%)

3

Percentage share of selected financial metric planned to align in 2025 (%)

Percentage share of selected financial metric planned to align in 2030 (%)

Describe the methodology used to identify spending/revenue that is aligned

It is about the GHG monitoring , emission measurement verification studies.

C4. Targets and performance

C4.1

(C4.1) Did you have an emissions target that was active in the reporting year?

Intensity target

C4.1b

(C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s).

Target reference number

Int 1

Is this a science-based target?

No, but we anticipate setting one in the next two years

Target ambition

Year target was set

2018

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

Intensity metric

Metric tons CO₂e per megawatt hour (MWh)

Base year

2017

Intensity figure in base year for Scope 1 (metric tons CO₂e per unit of activity)

1,628,865

Intensity figure in base year for Scope 2 (metric tons CO₂e per unit of activity)

6,995

Intensity figure in base year for Scope 3, Category 1: Purchased goods and services (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 2: Capital goods (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 5: Waste generated in operations (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 6: Business travel (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 7: Employee commuting (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 8: Upstream leased assets (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 10: Processing of sold products (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 11: Use of sold products (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 13: Downstream leased assets (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 14: Franchises (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 15: Investments (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Other (upstream) (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Other (downstream) (metric tons CO2e per unit of activity)

Intensity figure in base year for total Scope 3 (metric tons CO2e per unit of activity)

Intensity figure in base year for all selected Scopes (metric tons CO2e per unit of activity)

1,635,860

% of total base year emissions in Scope 1 covered by this Scope 1 intensity figure

99.57

% of total base year emissions in Scope 2 covered by this Scope 2 intensity figure

0.43

% of total base year emissions in Scope 3, Category 1: Purchased goods and services covered by this Scope 3, Category 1: Purchased goods and services intensity figure

% of total base year emissions in Scope 3, Category 2: Capital goods covered by this Scope 3, Category 2: Capital goods intensity figure

% of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) covered by this Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) intensity figure

% of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution covered by this Scope 3, Category 4: Upstream transportation and distribution intensity figure

% of total base year emissions in Scope 3, Category 5: Waste generated in operations covered by this Scope 3, Category 5: Waste generated in operations intensity figure

% of total base year emissions in Scope 3, Category 6: Business travel covered by this Scope 3, Category 6: Business travel intensity figure

% of total base year emissions in Scope 3, Category 7: Employee commuting covered by this Scope 3, Category 7: Employee commuting intensity figure

% of total base year emissions in Scope 3, Category 8: Upstream leased assets covered by this Scope 3, Category 8: Upstream leased assets intensity figure

% of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution covered by this Scope 3, Category 9: Downstream transportation and distribution intensity figure

% of total base year emissions in Scope 3, Category 10: Processing of sold products covered by this Scope 3, Category 10: Processing of sold products intensity figure

% of total base year emissions in Scope 3, Category 11: Use of sold products covered by this Scope 3, Category 11: Use of sold products intensity figure

% of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products covered by this Scope 3, Category 12: End-of-life treatment of sold products intensity figure

% of total base year emissions in Scope 3, Category 13: Downstream leased assets covered by this Scope 3, Category 13: Downstream leased assets intensity figure

% of total base year emissions in Scope 3, Category 14: Franchises covered by this Scope 3, Category 14: Franchises intensity figure

% of total base year emissions in Scope 3, Category 15: Investments covered by this Scope 3, Category 15: Investments intensity figure

% of total base year emissions in Scope 3, Other (upstream) covered by this Scope 3, Other (upstream) intensity figure

% of total base year emissions in Scope 3, Other (downstream) covered by this Scope 3, Other (downstream) intensity figure

% of total base year emissions in Scope 3 (in all Scope 3 categories) covered by this total Scope 3 intensity figure

% of total base year emissions in all selected Scopes covered by this intensity figure

99.98

Target year

2035

Targeted reduction from base year (%)

50

Intensity figure in target year for all selected Scopes (metric tons CO₂e per unit of activity) [auto-calculated]

817,930

% change anticipated in absolute Scope 1+2 emissions

50

% change anticipated in absolute Scope 3 emissions

0

Intensity figure in reporting year for Scope 1 (metric tons CO₂e per unit of activity)

1,143,801

Intensity figure in reporting year for Scope 2 (metric tons CO₂e per unit of activity)

9,675

Intensity figure in reporting year for Scope 3, Category 1: Purchased goods and services (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 2: Capital goods (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 5: Waste generated in operations (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 6: Business travel (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 7: Employee commuting (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 8: Upstream leased assets (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 10: Processing of sold products (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 11: Use of sold products (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 13: Downstream leased assets (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 14: Franchises (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 15: Investments (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Other (upstream) (metric tons CO2e per unit of activity)

Intensity figure in reporting year for Scope 3, Other (downstream) (metric tons CO2e per unit of activity)

Intensity figure in reporting year for total Scope 3 (metric tons CO2e per unit of activity)

Intensity figure in reporting year for all selected Scopes (metric tons CO₂e per unit of activity)

1,153,476

Does this target cover any land-related emissions?

% of target achieved relative to base year [auto-calculated]

58.976196007

Target status in reporting year

Underway

Please explain target coverage and identify any exclusions

In 2017, Scope 1+2 accounted for 1,635,860 tCO₂e and in 2022, Scope 1+2 accounted for 1,153,476 tCO₂e, it means we have achieved a 58.97 % reduction against the 2017 baseline.

Plan for achieving target, and progress made to the end of the reporting year

In line with the company strategic target, the current largest investment for renewable source is planned for the Kemah Dam and hydroelectric power plant project with 198 MW installed capacity.

The project has particular importance for the company since it is the largest hydroelectric power plant in the generation portfolio with the installed capacity of 198 MW. The investment studies for the plant, with an anticipated electricity generation figure of 560 GWh per year, are still in progress.

In addition, the hybrid system applications in Erzin NGPP has also been accelerated in 2022. The installation of 7.8 MW solar powerplant, which directly affects the internal consumption. Also Ayyıldız WPP capacity will be increased by 6.2 MW.

In 2023, we prepared our Corporate Sustainability Management handbook. We determined our sustainability performance indicators and our sustainability strategies covering the years 2021-2025. We have established our goals in line with the United Nations Sustainable Development Goals.

List the emissions reduction initiatives which contributed most to achieving this target

Target reference number

Int 2

Is this a science-based target?

Target ambition

Year target was set

2022

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

Intensity metric

Metric tons CO2e per unit of production

Base year

2017

Intensity figure in base year for Scope 1 (metric tons CO2e per unit of activity)

1,628,865

Intensity figure in base year for Scope 2 (metric tons CO2e per unit of activity)

6,995

Intensity figure in base year for Scope 3, Category 1: Purchased goods and services (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 2: Capital goods (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 5: Waste generated in operations (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 6: Business travel (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 7: Employee commuting (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 8: Upstream leased assets (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 10: Processing of sold products (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 11: Use of sold products (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 13: Downstream leased assets (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 14: Franchises (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Category 15: Investments (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Other (upstream) (metric tons CO2e per unit of activity)

Intensity figure in base year for Scope 3, Other (downstream) (metric tons CO2e per unit of activity)

Intensity figure in base year for total Scope 3 (metric tons CO2e per unit of activity)

Intensity figure in base year for all selected Scopes (metric tons CO2e per unit of activity)

286.83

% of total base year emissions in Scope 1 covered by this Scope 1 intensity figure

99.54

% of total base year emissions in Scope 2 covered by this Scope 2 intensity figure

0.43

% of total base year emissions in Scope 3, Category 1: Purchased goods and services covered by this Scope 3, Category 1: Purchased goods and services intensity figure

% of total base year emissions in Scope 3, Category 2: Capital goods covered by this Scope 3, Category 2: Capital goods intensity figure

% of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) covered by this Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) intensity figure

% of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution covered by this Scope 3, Category 4: Upstream transportation and distribution intensity figure

% of total base year emissions in Scope 3, Category 5: Waste generated in operations covered by this Scope 3, Category 5: Waste generated in operations intensity figure

% of total base year emissions in Scope 3, Category 6: Business travel covered by this Scope 3, Category 6: Business travel intensity figure

% of total base year emissions in Scope 3, Category 7: Employee commuting covered by this Scope 3, Category 7: Employee commuting intensity figure

% of total base year emissions in Scope 3, Category 8: Upstream leased assets covered by this Scope 3, Category 8: Upstream leased assets intensity figure

% of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution covered by this Scope 3, Category 9: Downstream transportation and distribution intensity figure

% of total base year emissions in Scope 3, Category 10: Processing of sold products covered by this Scope 3, Category 10: Processing of sold products intensity figure

% of total base year emissions in Scope 3, Category 11: Use of sold products covered by this Scope 3, Category 11: Use of sold products intensity figure

% of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products covered by this Scope 3, Category 12: End-of-life treatment of sold products intensity figure

% of total base year emissions in Scope 3, Category 13: Downstream leased assets covered by this Scope 3, Category 13: Downstream leased assets intensity figure

% of total base year emissions in Scope 3, Category 14: Franchises covered by this Scope 3, Category 14: Franchises intensity figure

% of total base year emissions in Scope 3, Category 15: Investments covered by this Scope 3, Category 15: Investments intensity figure

% of total base year emissions in Scope 3, Other (upstream) covered by this Scope 3, Other (upstream) intensity figure

% of total base year emissions in Scope 3, Other (downstream) covered by this Scope 3, Other (downstream) intensity figure

% of total base year emissions in Scope 3 (in all Scope 3 categories) covered by this total Scope 3 intensity figure

% of total base year emissions in all selected Scopes covered by this intensity figure

99.97

Target year

2030

Targeted reduction from base year (%)

50

Intensity figure in target year for all selected Scopes (metric tons CO₂e per unit of activity) [auto-calculated]

143.415

% change anticipated in absolute Scope 1+2 emissions

50

% change anticipated in absolute Scope 3 emissions

0

Intensity figure in reporting year for Scope 1 (metric tons CO₂e per unit of activity)

1,143,801

Intensity figure in reporting year for Scope 2 (metric tons CO₂e per unit of activity)

9,675

Intensity figure in reporting year for Scope 3, Category 1: Purchased goods and services (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 2: Capital goods (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 5: Waste generated in operations (metric tons CO₂e per unit of activity)

**Intensity figure in reporting year for Scope 3, Category 6: Business travel
(metric tons CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Category 7: Employee
commuting (metric tons CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Category 8: Upstream leased
assets (metric tons CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Category 9: Downstream
transportation and distribution (metric tons CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Category 10: Processing of sold
products (metric tons CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Category 11: Use of sold
products (metric tons CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Category 12: End-of-life
treatment of sold products (metric tons CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Category 13: Downstream leased
assets (metric tons CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Category 14: Franchises (metric
tons CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Category 15: Investments
(metric tons CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Other (upstream) (metric tons
CO2e per unit of activity)**

**Intensity figure in reporting year for Scope 3, Other (downstream) (metric tons
CO2e per unit of activity)**

Intensity figure in reporting year for total Scope 3 (metric tons CO2e per unit of activity)

Intensity figure in reporting year for all selected Scopes (metric tons CO2e per unit of activity)

1,153,476

Does this target cover any land-related emissions?

% of target achieved relative to base year [auto-calculated]

-804,092.438029495

Target status in reporting year

Underway

Please explain target coverage and identify any exclusions

In 2017, Scope 1+2 accounted for 1,635,860 tCO2e and in 2022, Scope 1+2 accounted for 1,153,476 tCO2e,

Plan for achieving target, and progress made to the end of the reporting year

In line with the company strategic target, the current largest investment for renewable source is planned for the Kemah Dam and hydroelectric power plant project with 198 MW installed capacity.

The project has particular importance for the company since it is the largest hydroelectric power plant in the generation portfolio with the installed capacity of 198 MW. The investment studies for the plant, with an anticipated electricity generation figure of 560 GWh per year, are still in progress.

In addition, the hybrid system applications in Erzin NGPP has also been accelerated in 2022. The installation of 7.8 MW solar powerplant, which directly affects the internal consumption. Also Ayyıldız WPP capacity will be increased by 6.2 MW.

In 2023, we prepared our Corporate Sustainability Management handbook. We determined our sustainability performance indicators and our sustainability strategies covering the years 2021-2025. We have established our goals in line with the United Nations Sustainable Development Goals. In the 2022 sustainability targets, this target was determined and published within the company.

List the emissions reduction initiatives which contributed most to achieving this target

C4.2

(C4.2) Did you have any other climate-related targets that were active in the reporting year?

Net-zero target(s)

C4.2c

(C4.2c) Provide details of your net-zero target(s).

Target reference number

NZ1

Target coverage

Country/area/region

Absolute/intensity emission target(s) linked to this net-zero target

Int1

Target year for achieving net zero

2053

Is this a science-based target?

No, but we anticipate setting one in the next two years

Please explain target coverage and identify any exclusions

Türkiye announced 2053 Net Zero Emission Target on September 27, 2021. By becoming a party to Paris Agreement, Türkiye has entered a brand-new process in which economic, environmental and social transformation begins. In this context, Türkiye has initiated the green transformation movement with the net zero emission target defined as the green development revolution. In Türkiye's Nationally Determined Contribution, policies and measures to reduce greenhouse gas emissions in the energy sector have focused particularly on renewable energy production and energy efficiency targets.

Being aware of the importance of renewable energy, Akenerji has put the goal of; continuing renewable energy investments in the future, at the top of its main strategic goals. In this context, all activities are carried out by prioritizing renewable investments and following a sustainable business model.

In line with the company strategic target, the current largest investment for renewable source is planned for the Kemah Dam and hydro power plant project with 198 MW installed capacity. The project has particular importance for the company since it is the largest hydro power plant in the portfolio .The feasibility studies for the plant continues. In addition, the hybrid system installations in Erzin NGPP has also been accelerated in 2022. The installation of 7.8 MW solar powerplant, directly affects the internal consumption. Also Ayyıldız WPP capacity will be increased 6.2 MW.

In 2021, we prepared our Corporate Sustainability Management handbook and determined our sustainability performance indicators and sustainability strategies covering the years 2021-2025. We have established our goals in line with the UN Sustainable Development Goals. Within the scope of the Corporate Governance Communiqué and Sustainability Principles Harmonization Framework of the Capital

Markets Board; A Sustainability Committee composed of Executives was formed by our Board of Directors for Environmental, Social, Corporate Governance (ESG) extensions, collection and monitoring of related policies and documents, the Company's Security Policy was approved, the internet files were also disclosed to the public and a statement was made on the Public Disclosure Platform (Public Disclosure Platform). Our Sustainability Report has started to be published as an Integrated Annual Report as of 2021 activity year.

Do you intend to neutralize any unabated emissions with permanent carbon removals at the target year?

Unsure

Planned milestones and/or near-term investments for neutralization at target year

Planned actions to mitigate emissions beyond your value chain (optional)

In line with our 2021-2025 Sustainability strategies, we aim to be a party to the Science-Based Goals and to support carbon neutral studies and to comply with Turkey's 2053 carbon neutral target. We will take actions to neutralize our carbon footprint arising from our transportation, to reduce greenhouse gas emissions at a determined rate until 2025, and to reduce greenhouse gas emissions by 55% compared to the benchmark year determined in 2030.

C4.3

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Yes

C4.3a

(C4.3a) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO₂e savings.

	Number of initiatives	Total estimated annual CO ₂ e savings in metric tonnes CO ₂ e (only for rows marked *)
Under investigation	1	223,658
To be implemented*	2	6,696
Implementation commenced*	1	28,894
Implemented*	9	26.49
Not to be implemented	0	0

C4.3b

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

Initiative category & Initiative type

Energy efficiency in buildings

Lighting

Estimated annual CO2e savings (metric tonnes CO2e)

13.9

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

4-10 years

Estimated lifetime of the initiative

3-5 years

Comment

Akenerji has obtained ISO 50001 certificate.

All our power plants (9 power plant) were converted to LED for energy efficiency. Necessary infrastructure was set up to use solar energy in suitable places, and hot water heating was done with the energy obtained from solar power. Efforts to reduce fuel consumption in vehicles will continue with economical driving training.

We reduced electricity consumption 32,090 kWh with these implementations which means reducing 13.90 tone co2e /year GHG emission in 2022 year

Initiative category & Initiative type

Low-carbon energy generation

Large hydropower (>25 MW)

Estimated annual CO2e savings (metric tonnes CO2e)

223,658

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

Estimated lifetime of the initiative

Comment

Akenerji has a target for 2023 to invest on 198 MW renewable power plant. Kemah Dam and Hydroelectric Power Plant Kemah HEPP project has particular importance for our company because of the fact that it is the largest hydroelectric power plant in our portfolio with its installed capacity of 198 MW. The investment studies for the plant, with an anticipated electricity generation figure of 560 GWh per year, are still in progress and is foreseen to be commissioned in 2023.

Initiative category & Initiative type

Low-carbon energy generation

Wind

Estimated annual CO2e savings (metric tonnes CO2e)

6,500

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

Estimated lifetime of the initiative

Comment

Ayyıldız WPP capacity will be increased 6.2 MW.

Initiative category & Initiative type

Energy efficiency in production processes

Other, please specify

solar electric generation

Estimated annual CO2e savings (metric tonnes CO2e)

28,894

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

Estimated lifetime of the initiative

Comment

The hybrid system applications in Erzin NGCCPP has also been accelerated in 2021.

The installation of 7.8 MW solar powerplant, which directly affects the internal consumption. The process continues in 2022.

C4.3c

(C4.3c) What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Financial optimization calculations	Many emissions reduction activities, especially those related to energy efficiency, (for example, our automatic lighting controls) can have a strong ROI.

Compliance with regulatory requirements/standards	<p>There are increasing numbers of regulations that Akenerji needs to comply with. We have to comply with current MRV Regulation in Turkey (enforced in 2014), which involves monitoring and reporting GHG emissions from our thermal power plant. Also, we are required by Turkish law to recycle waste oil from our power plants.</p> <p>Reporting and verification of the greenhouse gas emissions for years 2017,2018, 2019 ,2020, 2021, 2022 under ISO 14064 was completed.</p>
Employee engagement	Akenerji runs capacity building and awareness raising activities among the employees regarding environmental sustainability, climate change, energy efficiency and energy efficient office practices among all employees every year.
Internal incentives/recognition programs	Monetary based performance evaluations are available for relevant employees in charge of project development, project implementation and corporate environmental sustainability. Also, environmental improvement suggestion system is implemented among the employees, which allow them to have monetary awards for suggestions for increasing environmental performance of the company.
Dedicated budget for energy efficiency	Main source of both our overall and Scope 1 emissions are our Erzin NGCCPP. As Akenerji, we put great importance on energy and emission reduction activities. Therefore, we invested in establishing a state of art high efficient natural gas combined cycle power plant named as Erzin NGCCPP. Even though it has a state of art technology, we are continuously working to improve the efficiency.

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products?

Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products.

Level of aggregation

Group of products or services

Taxonomy used to classify product(s) or service(s) as low-carbon

Other, please specify

Renewable Energy Generation

Type of product(s) or service(s)

Power

Other, please specify

Renewable Energy Generation

Description of product(s) or service(s)

Being aware of the importance of renewable energy for the future of the world, Akenerji has put the goal of; continuing renewable energy investments in the future, at the top of its main strategic goals. In this context, all activities are carried out by prioritizing renewable investments and following a sustainable business model.

One after the other, Akenerji has put 7 hydroelectric plants and 1 wind power plant into operation. As a result, 320 MW, which corresponds to 26% of Akenerji's installed power, is supplied from renewable sources as of 2021 year-end. Akenerji also evaluates the capacity increase opportunities in existing plants, The investment process was initiated in 2016 in order to boost the installed power in Ayyıldız Wind Power Plant to 28.2 MW from 15 MW. This growth of 13.2 MW was achieved and the plant was commissioned in 2017. Also Ayyıldız WPP capacity will be increased 6.2 MW. Akenerji continues to conduct market research on projects with high capacity utilization and profitability for wind and solar energy to include in its portfolio.

The current largest investment for renewable source is planned for the Kemah Dam and hydroelectric power plant project with 198 MW installed capacity. The project has particular importance for the company since it is the largest hydro project in the portfolio. The investment studies for the plant, with an anticipated electricity generation figure of 560 GWh per year, are still in progress.

Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Yes

Methodology used to calculate avoided emissions

Other, please specify

ACM0002: Grid-connected electricity generation from renewable sources

Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Use stage

Functional unit used

Hydroelectric, wind power plants

Reference product/service or baseline scenario used

Not applicable

Life cycle stage(s) covered for the reference product/service or baseline scenario

Use stage

Estimated avoided emissions (metric tons CO₂e per functional unit) compared to reference product/service or baseline scenario

Explain your calculation of avoided emissions, including any assumptions

Akenerji has put 7 hydroelectric plants and 1 wind power plant into operation. We calculated according to ACM0002: Grid-connected electricity generation from renewable sources methodology

Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

Level of aggregation

Product or service

Taxonomy used to classify product(s) or service(s) as low-carbon

Other, please specify

Verified Carbon Standard (VCS), Gold Standard (GS)

Type of product(s) or service(s)

Other

Other, please specify

Verified Carbon Standard (VCS), Gold Standard (GS)

Description of product(s) or service(s)

Carbon-neutral Certifications: We offer internationally-approved emission reduction certifications to customers through our renewable energy investments. These certifications enable companies to become carbon-neutral in terms of the electricity they consume. This solution helps environmentally responsive companies that would like to mitigate or diminish to “zero” carbon footprints resulting from electricity consumption and other processes.

Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Yes

Methodology used to calculate avoided emissions

Other, please specify

ACM0002: Grid-connected electricity generation from renewable sources

Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Use stage

Functional unit used

Hydroelectric, wind power plants

Reference product/service or baseline scenario used

Not applicable

Life cycle stage(s) covered for the reference product/service or baseline scenario

Use stage

Estimated avoided emissions (metric tons CO₂e per functional unit) compared to reference product/service or baseline scenario

430,000

Explain your calculation of avoided emissions, including any assumptions

Akenerji has put 7 hydroelectric plants and 1 wind power plant into operation. We calculated according to ACM0002: Grid-connected electricity generation from renewable sources methodology

Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

0.01

Level of aggregation

Product or service

Taxonomy used to classify product(s) or service(s) as low-carbon

Other, please specify

Energy Services for Efficiency

Type of product(s) or service(s)

Other

Other, please specify

Energy Services for Efficiency

Description of product(s) or service(s)

Energy Services: Akenerji Energy Services aims to reduce energy costs and enhance their competitive edge with the wide variety of services on offer, from consultancy to asset management. Along with the efficiency-enhancing project consultancy and turnkey application projects offered to industrial facilities, the investment-free and guaranteed energy efficiency services offered to commercial buildings, presents guaranteed working models that are suitable for the structure of the enterprise and that will provide maximum profit for both parties. Akenerji Energy Services continued to provide the highest energy efficiency in its sector in 2021 with an average energy efficiency of 35% in electric energy and an average of 55% in natural gas. This was achieved with the projects it carried out since 2015 without incurring any additional investment. In addition to our efficiency, we have also added value to the plants in which we are active by extending the longevity of equipment and lowering operational maintenance costs.

Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Methodology used to calculate avoided emissions

Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Functional unit used

Reference product/service or baseline scenario used

Life cycle stage(s) covered for the reference product/service or baseline scenario

Estimated avoided emissions (metric tons CO₂e per functional unit) compared to reference product/service or baseline scenario

Explain your calculation of avoided emissions, including any assumptions

Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

C-EU4.6

(C-EU4.6) Describe your organization's efforts to reduce methane emissions from your activities.

in Erzin NGCCGT, as a preventive maintenance, we checked the leaks in the pipelines with an ultrasonic detector and we have not detected any leaks until now so we control methane leak monthly checks.

Our methane emission sources are;

- LPG cylinder at kitchen to cook
- Gas detector instrument
- Chromatograph calibration instrument

As we look purchasing invoices to find the amount of the CH₄ we used, we do not buy any CH₄ sources so we do not use it in our power plants in 2022.

For example, we do not cook ourselves because we have a contract with the contractor food company. We have LPG in kitchen for emergency situations as if the contractor firm could not manage to get meal.

C5. Emissions methodology

C5.1

(C5.1) Is this your first year of reporting emissions data to CDP?

No

C5.1a

(C5.1a) Has your organization undergone any structural changes in the reporting year, or are any previous structural changes being accounted for in this disclosure of emissions data?

Row 1

Has there been a structural change?

No

C5.1b

(C5.1b) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?

	Change(s) in methodology, boundary, and/or reporting year definition?
Row 1	No

C5.2

(C5.2) Provide your base year and base year emissions.

Scope 1

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO₂e)

1,143,801

Comment

We are an electricity generation company which operates both thermal and renewable power plants. Our 99% of our overall emissions are sourced from Scope 1 emissions from thermal power plants.

Scope 2 (location-based)

Base year start

June 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

9,675

Comment

We use electricity from the grid, other than the electricity we generate.

Scope 2 (market-based)

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

0

Comment

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

Scope 3 category 1: Purchased goods and services

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

0.1

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 2: Capital goods

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

0

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scope 1 or 2)

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO₂e)

186,806.88

Comment

We calculated the GHGs sourced from the RMS (Station to regulate the pressure of Natural Gas during NG supply to Erzin NGCCPP), natural gas for generation, gasoline and diesel (generator, fire pump, vehicles), well to tank (wtt)

Scope 3 category 4: Upstream transportation and distribution

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO₂e)

2,291.6

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 5: Waste generated in operations

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO₂e)

3.28

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard, Waste and waste transport indirect emissions.

Scope 3 category 6: Business travel

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO₂e)

11.6

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 7: Employee commuting

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO₂e)

256.89

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard, Employee commuting and coming visitors

Scope 3 category 8: Upstream leased assets

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO₂e)

0

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 9: Downstream transportation and distribution

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO₂e)

373.15

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 10: Processing of sold products

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

0

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 11: Use of sold products

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

911,055.69

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 12: End of life treatment of sold products

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

0

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 13: Downstream leased assets

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

0

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 14: Franchises

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

0

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3 category 15: Investments

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

0

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3: Other (upstream)

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO2e)

0

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

Scope 3: Other (downstream)

Base year start

January 1, 2022

Base year end

December 31, 2022

Base year emissions (metric tons CO₂e)

0

Comment

According to ISO 14064:2018 GHG Reporting and Verification Standard,

C5.3

(C5.3) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

Defra Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance, 2019

IPCC Guidelines for National Greenhouse Gas Inventories, 2006

ISO 14064-1

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

Other, please specify

ICCT Policy update used for calculation of Scope 3 : category 5 employee shuttle

C6. Emissions data

C6.1

(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO₂e?

Reporting year

Gross global Scope 1 emissions (metric tons CO₂e)

1,143,801

Start date

January 1, 2022

End date

December 31, 2022

Comment

The data covers the GHG emissions of all the facilities located in İstanbul, Adana, Adıyaman, Bursa, Hatay and Balıkesir.

Past year 1

Gross global Scope 1 emissions (metric tons CO2e)

1,560,466

Start date

January 1, 2021

End date

December 31, 2021

Comment

The data covers the GHG emissions of all the facilities located in İstanbul, Adana, Adıyaman, Bursa, Hatay and Balıkesir.

Past year 2

Gross global Scope 1 emissions (metric tons CO2e)

1,384,106

Start date

January 1, 2020

End date

December 31, 2020

Comment

The data covers the GHG emissions of all the facilities located in İstanbul, Adana, Adıyaman, Bursa, Hatay and Balıkesir.

C6.2

(C6.2) Describe your organization's approach to reporting Scope 2 emissions.

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

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

Comment

We use electricity from the grid, other than the electricity we generate. Scope 2 emissions are derived from the electricity used in the Head Quarters in Istanbul and from the electricity purchased from the outside, which is consumed in the plants.

C6.3

(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?

Reporting year

Scope 2, location-based

9,675

Start date

January 1, 2022

End date

December 31, 2022

Comment

We use electricity from the grid, other than the electricity we generate. Scope 2 emissions are derived from the electricity used in the Head Quarters in Istanbul and from the electricity purchased from the outside, which is consumed in the plants. The increase in the Scope 2 emissions is resulting from the increase in the amount of electricity purchased in 2022 due to the low generation at Erzin natural gas plant.

Past year 1

Scope 2, location-based

6,548

Start date

January 1, 2021

End date

December 31, 2021

Comment

We use electricity from the grid, other than the electricity we generate. Scope 2 emissions are derived from the electricity used in the Head Quarters in Istanbul and from the electricity purchased from the outside, which is consumed in the plants. The decrease in the Scope 2 emissions is resulting from the decrease in the amount of electricity purchased in 2021 due to more generation than last year at Erzin natural gas plant.

Past year 2

Scope 2, location-based

9,571

Start date

January 1, 2020

End date

December 31, 2020

Comment

We use electricity from the grid, other than the electricity we generate. Scope 2 emissions are derived from the electricity used in the Head Quarters in Istanbul and from the electricity purchased from the outside, which is consumed in the plants. The decrease in the Scope 2 emissions is resulting from the decrease in the amount of electricity purchased in 2020 due to more generation than last year at Erzin natural gas plant.

C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1, Scope 2 or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure?

Yes

C6.4a

(C6.4a) Provide details of the sources of Scope 1, Scope 2, or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure.

Source of excluded emissions

Fugitive refrigerant GHGs from cooling systems.

Scope(s) or Scope 3 category(ies)

Scope 1

Scope 2 (market-based)

Relevance of Scope 1 emissions from this source

Emissions are relevant and calculated, but not disclosed

Relevance of location-based Scope 2 emissions from this source

Relevance of market-based Scope 2 emissions from this source

Emissions are not relevant

Relevance of Scope 3 emissions from this source

Date of completion of acquisition or merger

Estimated percentage of total Scope 1+2 emissions this excluded source represents

0

Estimated percentage of total Scope 3 emissions this excluded source represents

Explain why this source is excluded

We included the refrigerant GHGs from cooling systems at our Erzin NGCCPP. Emissions sourcing from refrigerants of cooling systems at our other premises are excluded for three reasons: (1) they are not likely to be a significant source of total scope 1 emissions (less than 1%), (2) there is no reliable method for accurate activity data, and (3) estimation of this source is considered inaccurate

Explain how you estimated the percentage of emissions this excluded source represents

Fugitive refrigerant GHGs from cooling systems (Scope 1+2) are 320 ton CO₂/year . Total Scope 1+2 is 1,153,476 ton CO₂/year. Percentage of total Scope 1+2 emissions this excluded source represents 0.028

C6.5

(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

0.1

Emissions calculation methodology

Spend-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

Calculated from purchased chemicals in 2021

Capital goods

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any capital goods, so this category is not relevant to our organization.

Fuel-and-energy-related activities (not included in Scope 1 or 2)

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

186,806.88

Emissions calculation methodology

Fuel-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

We calculated the GHGs sourced from the RMS (Station to regulate the pressure of Natural Gas during NG supply to Erzin NGCCPP), natural gas for generation, gasoline and diesel (generator, fire pump, vehicles), well to tank (wtt)

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

2,291.6

Emissions calculation methodology

Spend-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

We calculated the GHGs sourced from Erzin NGCCPP WTT electric generation, WTT electric transportation and distribution,

Waste generated in operations

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

3.28

Emissions calculation methodology

Waste-type-specific method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

According to ISO 14064:2018 GHG Reporting and Verification Standard, Waste and waste transport indirect emissions.

Business travel

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

11.6

Emissions calculation methodology

Distance-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

We calculated the GHGs sourced from employee flight travels, flight distances.

Employee commuting

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

56.89

Emissions calculation methodology

Distance-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

According to ISO 14064:2018 GHG Reporting and Verification Standard, Employee commuting and coming visitors

Upstream leased assets

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any upstream leased assets, so this category is not relevant to our organization

Downstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

373.15

Emissions calculation methodology

Spend-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

We calculated the GHGs sourced from Erzin NGCCPP electric transportation and distribution,

Processing of sold products

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any processing of sold products, so this category is not relevant to our organization.

Use of sold products

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

911,055.69

Emissions calculation methodology

Spend-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

According to ISO 14064:2018 GHG Reporting and Verification Standard, Use of sold electricity

End of life treatment of sold products

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any end of life treatment of sold products, so this category is not relevant to our organization.

Downstream leased assets

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any downstream leased assets, so this category is not relevant to our organization.

Franchises

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any franchises, so this category is not relevant to our organization

Investments

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any investments so this category is not relevant to our organization

Other (upstream)

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any other (upstream) so this category is not relevant to our organization.

Other (downstream)

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any other (downstream) so this category is not relevant to our organization.

C6.5a

(C6.5a) Disclose or restate your Scope 3 emissions data for previous years.

Past year 1

Start date

January 1, 2021

End date

December 31, 2021

Scope 3: Purchased goods and services (metric tons CO2e)

0.11

Scope 3: Capital goods (metric tons CO2e)

0

**Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)
(metric tons CO2e)**

252,233.6

Scope 3: Upstream transportation and distribution (metric tons CO2e)

1,209.98

Scope 3: Waste generated in operations (metric tons CO2e)

5.49

Scope 3: Business travel (metric tons CO2e)

0

Scope 3: Employee commuting (metric tons CO2e)

296.79

Scope 3: Upstream leased assets (metric tons CO2e)

0

Scope 3: Downstream transportation and distribution (metric tons CO2e)

0

Scope 3: Processing of sold products (metric tons CO2e)

0

Scope 3: Use of sold products (metric tons CO2e)

1,527,813.21

Scope 3: End of life treatment of sold products (metric tons CO2e)

0

Scope 3: Downstream leased assets (metric tons CO2e)

0

Scope 3: Franchises (metric tons CO2e)

0

Scope 3: Investments (metric tons CO2e)

0

Scope 3: Other (upstream) (metric tons CO2e)

0

Scope 3: Other (downstream) (metric tons CO2e)

0

Comment

We have calculated our scope 3 emissions from 2021 according to the 14064 :2018 standard.

Past year 2

Start date

January 1, 2020

End date

December 31, 2020

Scope 3: Purchased goods and services (metric tons CO2e)

0

Scope 3: Capital goods (metric tons CO2e)

0

**Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)
(metric tons CO2e)**

319

Scope 3: Upstream transportation and distribution (metric tons CO2e)

0

Scope 3: Waste generated in operations (metric tons CO2e)

0

Scope 3: Business travel (metric tons CO2e)

0

Scope 3: Employee commuting (metric tons CO2e)

0

Scope 3: Upstream leased assets (metric tons CO2e)

0

Scope 3: Downstream transportation and distribution (metric tons CO2e)

0

Scope 3: Processing of sold products (metric tons CO2e)

0

Scope 3: Use of sold products (metric tons CO2e)

0

Scope 3: End of life treatment of sold products (metric tons CO2e)

0

Scope 3: Downstream leased assets (metric tons CO2e)

0

Scope 3: Franchises (metric tons CO2e)

0

Scope 3: Investments (metric tons CO2e)

0

Scope 3: Other (upstream) (metric tons CO2e)

0

Scope 3: Other (downstream) (metric tons CO2e)

0

Comment

We calculated the GHGs sourced from the RMS (Station to regulate the pressure of Natural Gas during NG supply to Erzin NGCCPP.

C6.7

(C6.7) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

Yes

C6.7a

(C6.7a) Provide the emissions from biogenic carbon relevant to your organization in metric tons CO2.

	CO2 emissions from biogenic carbon (metric tons CO2)	Comment
Row 1	2,252,223	Anthropogenic biogenic GHG emissions

C6.10

(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Intensity figure

0.4

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

1,153,476.47

Metric denominator

megawatt hour generated (MWh)

Metric denominator: Unit total

3,904,596

Scope 2 figure used

Location-based

% change from previous year

35.15

Direction of change

Increased

Reason(s) for change

Other, please specify
decreasing the electricity generation

Please explain

Our emissions were 1,567,014.35 metric tons CO2e for Scope 1+2 in 2021 and 1,153,476.47 metric tons CO2e for Scope 1+2 in 2022, because of decreasing the electricity generation in comparison to the last year. If we calculate our intensity which is 0.40 tCO2e/MWh in 2022 and 0.31 tCO2e/MWh in 2021 which means 35.15 % increased in the comparison with the previous year.

Intensity figure

0.0011

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

1,153,476.47

Metric denominator

unit total revenue

Metric denominator: Unit total

1,003,392,591.38

Scope 2 figure used

Location-based

% change from previous year

68

Direction of change

Decreased

Reason(s) for change

Please explain

Although the gross global combined Scope 1 and 2 emissions increased by %26.4 in 2022 compared to 2021, the total revenue of Akenerji increased by 126.50 %. So, the intensity decreased 68%.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?

Yes

C7.1a

(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).

Greenhouse gas	Scope 1 emissions (metric tons of CO ₂ e)	GWP Reference
CO ₂	1,142,669.91	IPCC Fifth Assessment Report (AR5 – 100 year)
CH ₄	579.536	IPCC Fifth Assessment Report (AR5 – 100 year)
N ₂ O	551.608	IPCC Fifth Assessment Report (AR5 – 100 year)

C-EU7.1b

(C-EU7.1b) Break down your total gross global Scope 1 emissions from electric utilities value chain activities by greenhouse gas type.

	Gross Scope 1 CO ₂ emissions (metric tons CO ₂)	Gross Scope 1 methane emissions (metric tons CH ₄)	Gross Scope 1 SF ₆ emissions (metric tons SF ₆)	Total gross Scope 1 emissions (metric tons CO ₂ e)	Comment

Fugitives	319.59	0	0	319.59	Fugitives releases : CO2
Combustion (Electric utilities)	1,142,749	0	0	1,142,749	combustion within the company's boundary : CO2 and CH4
Combustion (Gas utilities)	0	0	0	0	We do not have gas utilities under our control. It is calculated at our Scope 3 emissions.
Combustion (Other)	178.9	2.15	0	181.03	Vehicle-based combustion
Emissions not elsewhere classified	0	0	0	0	There is no other emissions

C7.2

(C7.2) Break down your total gross global Scope 1 emissions by country/area/region.

Country/area/region	Scope 1 emissions (metric tons CO2e)
Turkey	1,143,801

C7.3

(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

- By facility
- By activity

C7.3b

(C7.3b) Break down your total gross global Scope 1 emissions by business facility.

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Erzin NGCCPP	1,143,602.74	36	36
Bulam HEPP	7.13	43	42
Burç HEPP	9.92	38	38
Feke 1 HEPP	5.31	37	35
Feke 2 HEPP	4.05	37	35
Gökkaya HEPP	9.27	37	36

Himmetli HEPP	3.79	37	35
Uluabat HEPP	10.5	40	28
Ayyıldız WPP	7.12	40	27
Akhan Head Office	75.74	41	28

C7.3c

(C7.3c) Break down your total gross global Scope 1 emissions by business activity.

Activity	Scope 1 emissions (metric tons CO2e)
Combustion at Power Plants	1,142,749
Combustion at offices	0
Vehicle-based combustion	181.03
Fugitive gases	319.59

C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4

(C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4) Break down your organization's total gross global Scope 1 emissions by sector production activity in metric tons CO2e.

	Gross Scope 1 emissions, metric tons CO2e	Comment
Electric utility activities	1,143,801	Our 99% of our overall emissions are sourced from Scope 1 emissions from thermal power plant Erzin NGCCPP

C7.7

(C7.7) Is your organization able to break down your emissions data for any of the subsidiaries included in your CDP response?

No

C7.9

(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Decreased

C7.9a

(C7.9a) 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.

	Change in emissions (metric tons CO ₂ e)	Direction of change in emissions	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	150.6	Decreased	9.29	For our renewable energy consumption, last year 150.60 tCO ₂ e were decreased and our total scope 1 and location based scope 2 emissions in the previous year was 1,621.08 therefore we arrived at 9.29% through $(150.60/1,621.08)*100=9.29\%$
Other emissions reduction activities	0	No change	0	We do not have other emissions reduction activities
Divestment	0	No change	0	No divestments are made in 2022
Acquisitions	0		0	No Acquisitions are made in 2022
Mergers	0	No change	0	No mergers are made in 2022
Change in output	413,537.89	Decreased	26.4	The total scope 1 and scope 2 emissions was decreased -413,537.89 metric tons CO ₂ e according to the previous year, total scope 1 and scope 2 is 1,153,476.47 metric tons CO ₂ e for 2022, therefore we arrived at 11.1% $(413,537.89/1,153,476.47)*100=26.4$
Change in methodology	0	No change	0	The same methodology (ISO 14064-1) has been used for three years.
Change in boundary	0	No change	0	there is no change in boundary.
Change in physical operating conditions	0	No change	0	No change is resulted from change in physical operating conditions.
Unidentified	0	No change	0	There is no unidentified reason for change.
Other	0	No change	0	There is no other reason for change.

C7.9b

(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Location-based

C8. Energy

C8.1

(C8.1) What percentage of your total operational spend in the reporting year was on energy?

More than 95% but less than or equal to 100%

C8.2

(C8.2) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	Yes

C8.2a

(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh

Consumption of fuel (excluding feedstock)	LHV (lower heating value)	0	854.58	854.58
Consumption of purchased or acquired electricity		0	19,864.9	19,864.9
Consumption of self-generated non-fuel renewable energy		1,001.67		1,001.67
Total energy consumption		1,001.67	20,719.48	21,721.15

C8.2b

(C8.2b) Select the applications of your organization's consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	Yes
Consumption of fuel for the generation of heat	No
Consumption of fuel for the generation of steam	No
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

C8.2c

(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Sustainable biomass

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

Our organisation has not consumed Sustainable biomass

Other biomass

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

Our organisation has not consumed other biomass

Other renewable fuels (e.g. renewable hydrogen)

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

Our organisation has not consumed other renewable fuels (e.g. renewable hydrogen)

Coal

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

Our organisation has not consumed coal

Oil

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

Our organisation has not consumed oil

Gas

Heating value

LHV

Total fuel MWh consumed by the organization

3,153,251

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

Our organisation has consumed natural gas at Erzin NGCCPP

Other non-renewable fuels (e.g. non-renewable hydrogen)

Heating value

LHV

Total fuel MWh consumed by the organization

854.58

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

LHV is used from the regulation. This is IPCC 2006 3.2.1 factor and 2.2 factor and we used it in our verification for ISO 14064

Total fuel

Heating value

LHV

Total fuel MWh consumed by the organization

854.58

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

LHV is used from the regulation. This is IPCC 2006 3.2.1 factor and 2.2 factor and we used it in our verification for ISO 14064. It is come from motor gasoline and diesel consumption.

C-EU8.2d

(C-EU8.2d) For your electric utility activities, provide a breakdown of your total power plant capacity, generation, and related emissions during the reporting year by source.

Coal – hard

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO₂e)

0

Scope 1 emissions intensity (metric tons CO₂e per GWh)

0

Comment

We do not have operations with coal

Lignite

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

We do not have operations with Lignite

Oil

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

We do not have operations with Lignite

Gas

Nameplate capacity (MW)

904

Gross electricity generation (GWh)

3,153.25

Net electricity generation (GWh)

3,088.3

Absolute scope 1 emissions (metric tons CO2e)

1,143,602.74

Scope 1 emissions intensity (metric tons CO2e per GWh)

362.67

Comment

The emission performance from Erzin NGCCPP, which is the only natural gas power plant operating in 2022 and which constitutes almost all of the Scope 1 emissions, is satisfactory. Our emissions were 1,143,801.05 metric tons CO₂e for Scope 1 in 2022 and 1,559,975.47 metric tons CO₂e for Scope 1 in 2021, because of decreasing the electricity generation by %27.66 in comparison to the last year. So we decreased our emissions 416,630.41 metric tons CO₂e for Scope 1 in the comparison with the previous year.

Sustainable biomass

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO₂e)

0

Scope 1 emissions intensity (metric tons CO₂e per GWh)

0

Comment

We do not have operations with Sustainable biomass

Other biomass

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO₂e)

0

Scope 1 emissions intensity (metric tons CO₂e per GWh)

0

Comment

We do not have operations with other biomass

Waste (non-biomass)

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

Comment

We do not have operations with Waste (non-biomass)

Nuclear

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

We do not have operations with nuclear

Fossil-fuel plants fitted with CCS

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

We do not have operations with Fossil-fuel plants fitted with CCS

Geothermal

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

We do not have operations with Geothermal

Hydropower

Nameplate capacity (MW)

292

Gross electricity generation (GWh)

668.36

Net electricity generation (GWh)

658.14

Absolute scope 1 emissions (metric tons CO2e)

70.26

Scope 1 emissions intensity (metric tons CO2e per GWh)

0.11

Comment

Our Scope 1 emissions intensity was 0.08 in 2021 and is increased 0.11 in 2022.

Wind

Nameplate capacity (MW)

28.2

Gross electricity generation (GWh)

82.98

Net electricity generation (GWh)

81.53

Absolute scope 1 emissions (metric tons CO2e)

7.12

Scope 1 emissions intensity (metric tons CO2e per GWh)

0.09

Comment

Our Scope 1 emissions intensity was 0.11 in 2021 and is 0.09 in 2022

Solar

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

We do not have operations with solar

Marine

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

We do not have operations with marine

Other renewable

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

We do not have operations with Other renewable

Other non-renewable

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

We do not have operations with Other nonrenewable

Total

Nameplate capacity (MW)

1,224

Gross electricity generation (GWh)

3,904.6

Net electricity generation (GWh)

3,827.9

Absolute scope 1 emissions (metric tons CO₂e)

1,143,801.05

Scope 1 emissions intensity (metric tons CO₂e per GWh)

Comment

For all of our power plants our emissions were 1,143,801.05 metric tons CO₂e for Scope 1 in 2022 and 1,560,465.96 tons CO₂e for Scope 1 in 2021, because of decreasing the electricity generation by 9.10 % in comparison to the last year. So we increased our emissions 176,359.68 metric tons CO₂e for Scope 1 in the comparison with the previous year. If we calculate our scope 1 intensity which is 0,29 tCO₂e/MWh for all facilities.

C8.2g

(C8.2g) Provide a breakdown by country/area of your non-fuel energy consumption in the reporting year.

Country/area

Turkey

Consumption of purchased electricity (MWh)

19,864.8

Consumption of self-generated electricity (MWh)

36,347.36

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

56,212.16

C-EU8.4

(C-EU8.4) Does your electric utility organization have a transmission and distribution business?

No

C9. Additional metrics

C9.1

(C9.1) Provide any additional climate-related metrics relevant to your business.

C-EU9.5a

(C-EU9.5a) Break down, by source, your organization's CAPEX in the reporting year and CAPEX planned over the next 5 years.

Coal – hard

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

Akenerji doesn't plan to invest in power generation from coal for the next 5 years.

Lignite

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

Akenerji doesn't plan to invest in power generation from lignite for the next 5 years.

Oil

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

Akenerji doesn't plan to invest in power generation from oil for the next 5 years.

Gas

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

4,000,000

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

60

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

60

Most recent year in which a new power plant using this source was approved for development

2009

Explain your CAPEX calculations, including any assumptions

Capex investment calculation is assumed for the current natural gas power plant, Erzin CCGT, related with investments for increasing efficiency, optimization of operations, digitalization, etc.

Sustainable biomass

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

n/a

Other biomass

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

n/a

Waste (non-biomass)

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

n/a

Nuclear

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

Geothermal

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

n/a

Hydropower

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

800,000

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

12

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

11

Most recent year in which a new power plant using this source was approved for development

2010

Explain your CAPEX calculations, including any assumptions

Capex assumptions for hydro, includes the investments for current power plants, including the efficiency increases and optimization investments, also the potential capacity increases in current power plants.

Wind

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

1,300,000

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

20

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

11

Most recent year in which a new power plant using this source was approved for development

2008

Explain your CAPEX calculations, including any assumptions

Capex assumptions for wind includes the investments for current wind power plant, for the efficiency increases and optimization investments, also the potential capacity increase.

Solar

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

11

Most recent year in which a new power plant using this source was approved for development

2023

Explain your CAPEX calculations, including any assumptions

Akenerji does not currently have a solar power plant, but it plans to invest in hybrid solar capacity, in its current power plants, where applicable. The investment efforts for the hybrid solar plant in Erzin NGPP has been accelerated in 2022 and it is planned to be developed in 2023.

Marine

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

n/a

Fossil-fuel plants fitted with CCS

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

n/a

Other renewable (e.g. renewable hydrogen)

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

3

Most recent year in which a new power plant using this source was approved for development

Explain your CAPEX calculations, including any assumptions

We monitor market developments and search for the investment opportunities in different renewable generation sources, including the renewable hydrogen.

Other non-renewable (e.g. non-renewable hydrogen)

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

0

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

Explain your CAPEX calculations, including any assumptions

C-EU9.5b

(C-EU9.5b) Break down your total planned CAPEX in your current CAPEX plan for products and services (e.g. smart grids, digitalization, etc.).

Products and services	Description of product/service	CAPEX planned for product/service	Percentage of total CAPEX planned products and services	End of year CAPEX plan
Energy audits	ISO 50001 Energy management system audits	3,000	0.01	2023
Audits	ISO 14064:2018 audits	6,000	0.02	2023
Other, please specify General Environmental Issues	Environmental legislation laws issues (waste management, waste water management, GHG verification, emission measurements) etc.	65,000	0.21	2023
Other, please specify REnewable Investment	Renewable investment including hydro, wind, solar, renewable hydrogen.	10,000,000	33	2027
Other, please specify	Natural gas efficiency improvement etc	19,000,000	63	2027

Natural gas efficiency improvement etc				
Other, please specify Other generation sources	We monitor market developments and search for the investment opportunities in different generation sources	1,000,000	4	2027

C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6

(C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

	Investment in low-carbon R&D	Comment
Row 1	Yes	Akenerji monitors the recent technological improvements and low carbon transition in energy sector, both in Turkish market as well as global markets. Renewable generation is the main component of low carbon transition. Having the renewable generation portfolio, in order to be ready for the future, Akenerji also makes research about the efficiency, future energy trends and new products and services for the decarbonization process.

C-CO9.6a/C-EU9.6a/C-OG9.6a

(C-CO9.6a/C-EU9.6a/C-OG9.6a) Provide details of your organization's investments in low-carbon R&D for your sector activities over the last three years.

Technology area	Stage of development in the reporting year	Average % of total R&D investment over the last 3 years	R&D investment figure in the reporting year (unit currency as selected in C0.4) (optional)	Average % of total R&D investment planned over the next 5 years	Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan
Other, please specify Digital technology	Small scale commercial deployment	20		20	In 2021, asset management and maintenance processes were reviewed in order to improve the operational

					performance and reduce operational downtime and costs. With the implementation of digitalization and data analysis projects, lower production costs were achieved by closely monitoring the competencies and performance indicators of the power plants.
Battery storage	Applied research and development	0		20	Akenerji follows the recent developments in energy storage in Turkey and in global markets and studies the opportunities in the current power plant areas.
Other, please specify Akenerji Energy Services Activities	Small scale commercial deployment	20		20	In 2015, Energy Services, a pioneering venture in the energy sector, proved that Akenerji merits the added value and recognition it has achieved through the realization of projects, and demonstrated our aptitude for taking rapid, innovative and competitive steps. Along with the efficiency-enhancing

					<p>project consultancy and turnkey application projects offered to industrial facilities, the investment-free and guaranteed energy efficiency services offered to commercial buildings, presents guaranteed working models that are suitable for the structure of the enterprise and that will provide maximum profit for both parties.</p> <p>Issues such as economic stagnation and global warming caused by the process involved have made it a necessity to take action on energy efficiency and alternative energy sources.</p> <p>Thanks to the special solutions it offers for various sectors and structures, Akenerji Energy Services not only provides added value to its stakeholders financially, but also has led to positive</p>
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					<p>environmental impacts by reducing carbon emissions.</p> <p>Akenerji has assumed an encouraging role in protecting our country's own resources and using them efficiently with its studies on alternative energy resources in this period when the use of energy resources is becoming more and more prudent.</p>
Other, please specify Hybrid Power Plant Projects	Applied research and development	20		20	<p>Within the scope of Energy Efficiency, studies have also been initiated in the field of Hybrid Power Plant projects in the existing power plants owned by Akenerji. The main important factor in this investment is the legal framework, which is still under progress by the authorities. Akenerji monitors closely the legal framework improvements, as well as the applicable technology.</p>

C10. Verification

C10.1

(C10.1) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	
Scope 3	Third-party verification or assurance process in place

C10.1a

(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Third party verification/assurance underway

Attach the statement

 Akenerji_VOS FINAL_for 2022.pdf

Page/ section reference

all pages

Relevant standard

ISO14064-1

Proportion of reported emissions verified (%)

99

C10.1c

(C10.1c) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.

Scope 3 category

Scope 3: Purchased goods and services

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Third party verification/ assurance underway

Attach the statement

 Akenerji_VOS FINAL_for 2022.pdf

Page/section reference

all pages

Relevant standard

Other, please specify
ISO 14064-1:2018

Proportion of reported emissions verified (%)

100

Scope 3 category

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Third party verification/ assurance underway

Attach the statement

 Akenerji_VOS FINAL_for 2022.pdf

Page/section reference

all pages

Relevant standard

Other, please specify
ISO 14064-1:2018

Proportion of reported emissions verified (%)

100

Scope 3 category

Scope 3: Upstream transportation and distribution

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Third party verification/ assurance underway

Attach the statement

 Akenerji_VOS FINAL_for 2022.pdf

Page/section reference

all pages

Relevant standard

Other, please specify
ISO 14064-1:2018

Proportion of reported emissions verified (%)

100

Scope 3 category

Scope 3: Waste generated in operations

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Third party verification/ assurance underway

Attach the statement

 Akenerji_VOS FINAL_for 2022.pdf

Page/section reference

all pages

Relevant standard

Other, please specify
ISO 14064-1:2018

Proportion of reported emissions verified (%)

100

Scope 3 category

Scope 3: Business travel
Scope 3: Employee commuting
Scope 3: Downstream transportation and distribution
Scope 3: Use of sold products

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Third party verification/ assurance underway

Attach the statement

 Akenerji_VOS FINAL_for 2022.pdf

Page/section reference

all pages

Relevant standard

Other, please specify
ISO 14064-1:2018

Proportion of reported emissions verified (%)

100

C10.2

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?

No, we do not verify any other climate-related information reported in our CDP disclosure

C11. Carbon pricing

C11.1

(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?

No, but we anticipate being regulated in the next three years

C11.1d

(C11.1d) What is your strategy for complying with the systems you are regulated by or anticipate being regulated by?

Turkey received a grant from the World Bank Partnership for Market Readiness (PMR). The projects are implemented by the Ministry of Environment and Urbanization (MoEU) through the Climate Change Department (CCD). 1st Phase of the Project completed, and now the project is at the 2nd Phase. Turkey is considering the use of market based instruments such as carbon pricing to reach its climate change mitigation targets as said in the Project's report "Roadmap for the Consideration of Establishment and Operation of a Greenhouse Gas Emissions Trading System in Turkey". In 2020 meetings for the "Development of Software Registry System for Pilot ETS" were conducted and steering meeting for the "Assessment of Article 6 market mechanisms of the Paris Agreement and options for Turkey" was conducted. The first draft of the Communication Strategy for Carbon Pricing in Turkey was completed and presented at the Planning Carbon Pricing Communications Workshop in Istanbul. "GAP Report" that analyses the Turkish legal system and discuss the best case studies was submitted. Akenerji attended and actively participated in all of these meetings to keep up to date with the developments. New set of policy initiatives European Green Deal of European Commission are followed carefully. Developments in the Carbon Border Adjustment Mechanism (CBAM) by European Union are also tracked by Akenerji. Turkish Ministry of Trade has published a Green Deal Action Plan in July 2021.

Akenerji will internally lay out necessary action plans according to the new developments in medium term.

C11.2

(C11.2) Has your organization canceled any project-based carbon credits within the reporting year?

No

C11.3

(C11.3) Does your organization use an internal price on carbon?

No, and we do not currently anticipate doing so in the next two years

C12. Engagement

C12.1

(C12.1) Do you engage with your value chain on climate-related issues?

Yes, our customers/clients

Yes, other partners in the value chain

C12.1b

(C12.1b) Give details of your climate-related engagement strategy with your customers.

Type of engagement & Details of engagement

Education/information sharing

Run an engagement campaign to education customers about your climate change performance and strategy

% of customers by number

100

% of customer - related Scope 3 emissions as reported in C6.5

0

Please explain the rationale for selecting this group of customers and scope of engagement

We planned that reduce of enviromental impact of our suppliers with education about climate-related in our sustainable strategical plan until the end of the 2025

Impact of engagement, including measures of success

Our success measures;

- Increased awareness and understanding of potential/existing suppliers about climate-related issues.
- supplier audits

Type of engagement & Details of engagement

Collaboration & innovation

Other, please specify

Energy management services

% of customers by number

100

% of customer - related Scope 3 emissions as reported in C6.5

0

Please explain the rationale for selecting this group of customers and scope of engagement

Akenerji is providing energy services to its customers (retail-commercial) to reduce their electricity consumption which helps them to achieve their energy and environmental goals. Services includes such as energy analysis and audits, energy management, maintenance and operation, monitoring and evaluation of savings, etc. As Akenerji Energy Services, we visit target potential/existing commercial customers to provide information and so raise awareness about energy efficiency and try to get their interest on the matter . We see that there is a lack of knowledge among most of the energy consumers about the economic potential. We aim to increase the awareness and understanding of energy efficiency projects by explaining how they can benefit through cost-effective and easy-to-achieve non-technological measures in energy use. In return, while we support on reducing wasted energy consumption therefore the carbon emission, we benefit from improved revenue of Akenerji Energy Services business.

Impact of engagement, including measures of success

Our success measures; - Increased awareness and understanding of potential/existing Customers in energy efficiency - Achieved up to mean efficiency values of 35% in electrical energy and 55% in natural gas consumptions by energy management projects we have executed since 2015

Type of engagement & Details of engagement

Collaboration & innovation

Run a campaign to encourage innovation to reduce climate change impacts

% of customers by number

100

% of customer - related Scope 3 emissions as reported in C6.5

0

Please explain the rationale for selecting this group of customers and scope of engagement

We took part as a speaker in the webinar titled “The Effects of the Energy Sector on Climate Change and Energy Transformation” organized in cooperation with BAU ENERGY CLUB. Our Sustainability Manager informed the participants about energy, climate, its effects and sustainability.

Impact of engagement, including measures of success

Our success measures;

- Increased awareness and understanding of potential/existing suppliers about climate-related issues.

Type of engagement & Details of engagement

Collaboration & innovation

Other, please specify

TÜSİAD

% of customers by number

100

% of customer - related Scope 3 emissions as reported in C6.5

0

Please explain the rationale for selecting this group of customers and scope of engagement

TÜSİAD is a voluntary based civil society organization established by Turkish industrialists and business owners in 1971 in order to represent the business world. TÜSİAD aims to contribute to the formation and development of a social order based on the adoption of the universal principles of human rights, freedom of thought, belief and action, a secular state of law, as well as the concepts of participatory democracy, a liberal economy, the rules and regulations of a competitive market economy and environmental sustainability.

All of TÜSİAD's work is essentially carried out through committees made up of TÜSİAD members. TÜSİAD's positions are formed through the work of different committees and working groups under the umbrella of these committees, and special purpose ad-hoc "task force" groups, all of which meet regularly.

Akenerji, being a member of the Environment Working Group and Energy Working Group, takes part in the formation of the association's position. Environment & Energy Working Groups aims to contribute to embedding sustainable development principles and to the environmental protection and spreading out the principles of low carbon economy into the business practices. Akenerji actively attends the working group meetings, involves in preparation of reports, provides opinion on the existing legislation and required developments/changes towards the sustainable electricity sector, participates in commenting on draft regulations, etc. The output of the studies are shared with the related government organizations, public authorities, public, etc. As an example, Akenerji contributed in preparation of "Sustainable Energy for Sustainable Future" report prepared by the TÜSİAD Energy Group. The report includes detailed analysis, roadmap and 10 tangible policy proposals for ecological effectiveness, financial efficiency, global competitiveness, social progress of the energy sector. The report is publicly available: <https://tusiad.org/tr/yayinlar/raporlar/item/9978-surdurulebilir-gelecek-icin-surdurulebilir-enerji-raporu>

Impact of engagement, including measures of success

Our success measures;

- Increased awareness and understanding of potential/existing suppliers about climate-related issues.

C12.1d

(C12.1d) Give details of your climate-related engagement strategy with other partners in the value chain.

In locations where Akenerji power plants operate, we aim to raise awareness and provide information to local communities about our operations. Through our video training on electricity generation, environmental and OHS regulations, we inform contractors, visitors, or interns who come to visit our power plants. We have informed about the operation of Burç and Bulam HEPP operating in Adıyaman, Uluabat HEPP operating in Bursa and Feke I, Feke II, Himmetli and Gökkaya HEPP operating in Adana and the personal security measures to be taken by the public regarding hydropower plants in general and about renewable energy and electricity production. Since 2013, a total of 10,350 students and 669 teachers have been provided with our information presentations. 303 posters and 3624 brochures were delivered to villages and schools, while awareness activities concerning the dangers of hydroelectric power plants continued to take place. In 2022, 526 students and 73 teachers were trained. Awareness activities concerning the dangers of hydroelectric power plants continued to take place.

C12.2

(C12.2) Do your suppliers have to meet climate-related requirements as part of your organization's purchasing process?

Yes, climate-related requirements are included in our supplier contracts

C12.2a

(C12.2a) Provide details of the climate-related requirements that suppliers have to meet as part of your organization's purchasing process and the compliance mechanisms in place.

Climate-related requirement

Complying with regulatory requirements

Description of this climate related requirement

We demand supplier documentation, environmental requirements (waste management, company procedures) that suppliers must comply with while working on site, 14001 certificate from suppliers with our supplier contract.

% suppliers by procurement spend that have to comply with this climate-related requirement

100

% suppliers by procurement spend in compliance with this climate-related requirement

100

Mechanisms for monitoring compliance with this climate-related requirement

Certification

Supplier scorecard or rating

Response to supplier non-compliance with this climate-related requirement

Suspend and engage

C12.3

(C12.3) Does your organization engage in activities that could either directly or indirectly influence policy, law, or regulation that may impact the climate?

Row 1

External engagement activities that could directly or indirectly influence policy, law, or regulation that may impact the climate

Yes, we engage directly with policy makers

Yes, our membership of/engagement with trade associations could influence policy, law, or regulation that may impact the climate

Does your organization have a public commitment or position statement to conduct your engagement activities in line with the goals of the Paris Agreement?

No, but we plan to have one in the next two years

Describe the process(es) your organization has in place to ensure that your external engagement activities are consistent with your climate commitments and/or climate transition plan

Inline with the studies on National regulation regarding GHG emissions; a law put into force about Mandatory Carbon reporting in Turkey. As Akenerji, we supported the law with minor exceptions. According to law Carbon reporting became mandatory since 2015 and we fulfilled the requirements. The details of the implementation phase will be clarified until 2021 and the report mentioned above will be used as the base of implementation procedures. In 2022, implementation Details have not yet been clarified.

C12.3a

(C12.3a) On what policy, law, or regulation that may impact the climate has your organization been engaging directly with policy makers in the reporting year?

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Within the scope of Greenhouse Gas Legislation and ISO 14064:1 Greenhouse Gas Verification Standard, verified Greenhouse Gas emission values for 2022 emissions.

We strictly follow the obligations of the regulations within our scope created by the Ministry and fulfill our obligations

example:

UN framework convention on climate change

Kyoto protocol

Paris agreement

Energy Efficiency Law

Law on the Use of Renewable Energy Resources for the Purpose of Electricity

Generation Environmental Law,

Regulation on Substances that Deplete the Ozone Layer

Regulation on the Monitoring of Greenhouse Gas Emissions

Regulation on Fluorinated Greenhouse Gases

Category of policy, law, or regulation that may impact the climate

Climate change mitigation

Focus area of policy, law, or regulation that may impact the climate

Climate-related reporting

Climate-related targets

Emissions – CO₂

Emissions – methane

Emissions – other GHGs

International agreement related to climate change mitigation

Low-carbon, non-renewable energy generation

Verification and audits

Policy, law, or regulation geographic coverage

Global

Country/area/region the policy, law, or regulation applies to

Your organization's position on the policy, law, or regulation

Support with no exceptions

Description of engagement with policy makers

We strictly follow the obligations of the regulations within our scope created by the Ministry and fulfill our obligations and we monitor emissions as greenhouse gas emissions and other emissions.

In line with our 2021-2025 Sustainability strategies, we aim to be a party to the Science-Based Goals and to support carbon neutral studies and to comply with Turkey's 2053 carbon neutral target. We will take actions to neutralize our carbon footprint arising from our transportation, to reduce greenhouse gas emissions at a determined rate until 2025, and to reduce greenhouse gas emissions by 55% compared to the benchmark year

determined in 2030.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

Have you evaluated whether your organization's engagement on this policy, law, or regulation is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Please explain whether this policy, law or regulation is central to the achievement of your climate transition plan and, if so, how?

According to the ISO 14064 standard, our company carries out its compliance and history on a voluntary basis. The outputs of this standard are used in the reporting reports. In addition, the calculation lists of greenhouse gases included in the national legislation and our verification rules are available. These are servers. ISO 14064 is broader in scope.

C12.3b

(C12.3b) Provide details of the trade associations your organization is a member of, or engages with, which are likely to take a position on any policy, law or regulation that may impact the climate.

Trade association

Other, please specify

TUSIAD (Turkish Industry & Business Association)

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

No, we did not attempt to influence their position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

TÜSİAD is a voluntary based civil society organization established by Turkish industrialists and business owners in 1971 in order to represent the business world. TÜSİAD aims to contribute to the formation and development of a social order based on the adoption of the universal principles of human rights, freedom of thought, belief and action, a secular state of law, as well as the concepts of participatory democracy, a liberal economy, the rules and regulations of a competitive market economy and

environmental sustainability.

All of TÜSİAD's work is essentially carried out through committees made up of TÜSİAD members. TÜSİAD's positions are formed through the work of different committees and working groups under the umbrella of these committees, and special purpose ad-hoc "task force" groups, all of which meet regularly.

Akenerji, being a member of the Environment Working Group and Energy Working Group, takes part in the formation of the association's position. Environment & Energy Working Groups aims to contribute to embedding sustainable development principles and to the environmental protection and spreading out the principles of low carbon economy into the business practices. Akenerji actively attends the working group meetings, involves in preparation of reports, provides opinion on the existing legislation and required developments/changes towards the sustainable electricity sector, participates in commenting on draft regulations, etc. The output of the studies are shared with the related government organizations, public authorities, public, etc. As an example, Akenerji contributed in preparation of "Sustainable Energy for Sustainable Future" report prepared by the TÜSİAD Energy Group. The report includes detailed analysis, roadmap and 10 tangible policy proposals for ecological effectiveness, financial efficiency, global competitiveness, social progress of the energy sector. The report is publicly available:

<https://tusiad.org/tr/yayinlar/raporlar/item/9978-surdurulebilir-gelecek-icin-surdurulebilir-enerji-raporu>

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

0

Describe the aim of your organization's funding

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Trade association

Other, please specify

YASED (International Investor Association)

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

No, we did not attempt to influence their position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

Akenerji is a member of YASED (International Investor Association and participates in meetings and organizations to follow market developments (energy transition, tariffs, regulations, government policies, etc.), exchange of information, and be part of the development of the sector. Akenerji rises any point relevant to the concerns of these associations, debate and also convey it to policy makers.

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

0

Describe the aim of your organization's funding

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Trade association

Other, please specify
TESAB

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

No, we did not attempt to influence their position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

The Association of Turkish Electricity Industry (shortly called TESAB) is ruled by Law on Associations, being allowed to participate, actively in international activities related to the development and competitiveness of the electricity; as well as to be the member of EURELECTRIC. The Association expands the studies and researches, on technical, economic, legal and restructuring issues related to the energy policy and strategies and to collect statistical information. TESAB prepares and disseminates widely the reports, books, bulletins, brochures, periodicals and electronic- bulletins to inform the public as well as its members, of the findings and results of these studies. The publication "Coal

Policies” was shared this year. It is prepared by a group of experts (one of them was from Akenerji) from the Environmental Protection Working Group under the umbrella of TESAB. <https://tesab.org.tr/attachments/article/133/komur~.pdf>

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

0

Describe the aim of your organization’s funding

Have you evaluated whether your organization’s engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

C12.4

(C12.4) 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

Other, please specify
Integrated Annual Report

Status

Complete

Attach the document

 Akenerji_Integrated_2022_20.02.pdf

Page/Section reference

You can see the following titles from the content list. on page 2

Content elements

Governance
Strategy
Risks & opportunities
Emissions figures
Emission targets
Other metrics
Other, please specify

Comment

We share our climate change and GHG emissions performance with our stakeholders by Integrated Annual Report .

C12.5

(C12.5) Indicate the collaborative frameworks, initiatives and/or commitments related to environmental issues for which you are a signatory/member.

	Environmental collaborative framework, initiative and/or commitment	Describe your organization's role within each framework, initiative and/or commitment
Row 1	UN Global Compact Other, please specify ERTA Integrated Reporting Türkiye	Memberships to UN Global Compact, ERTA Integrated Reporting Türkiye. Akenerji has signed the United Nations Global Compact and became a member of the world's largest sustainability initiative "UN Global Compact" in 2022. Membership to Integrated Reporting Türkiye Network (ERTA) has started in 2022

C15. Biodiversity

C15.1

(C15.1) Is there board-level oversight and/or executive management-level responsibility for biodiversity-related issues within your organization?

	Board-level oversight and/or executive management-level responsibility for biodiversity-related issues	Description of oversight and objectives relating to biodiversity
Row 1	Yes, both board-level oversight and executive management-level responsibility	We share our climate change, biodiversity and GHG emissions performance with our stakeholders by Financial Report. https://www.akenerji.com.tr/Dosya/Dokuman/Akenerji-Entegre-2022-Small-Compressed.pdf We committed; • Developing business models compatible with nature for the protection of biodiversity. https://www.akenerji.com.tr/Dosya/Dokuman/sustainability%20policy.pdf

C15.2

(C15.2) Has your organization made a public commitment and/or endorsed any initiatives related to biodiversity?

	Indicate whether your organization made a public commitment or endorsed any initiatives related to biodiversity	Biodiversity-related public commitments	Initiatives endorsed
Row 1	Yes, we have made public commitments and publicly endorsed initiatives related to biodiversity	Other, please specify commitment of company	Other, please specify commitment of company

C15.3

(C15.3) Does your organization assess the impacts and dependencies of its value chain on biodiversity?

Impacts on biodiversity

Indicate whether your organization undertakes this type of assessment

No and we don't plan to within the next two years

Dependencies on biodiversity

Indicate whether your organization undertakes this type of assessment

No and we don't plan to within the next two years

C15.4

(C15.4) Does your organization have activities located in or near to biodiversity-sensitive areas in the reporting year?

No

C15.5

(C15.5) What actions has your organization taken in the reporting year to progress your biodiversity-related commitments?

	Have you taken any actions in the reporting period to progress your biodiversity-related commitments?	Type of action taken to progress biodiversity-related commitments
Row 1	Yes, we are taking actions to progress our biodiversity-related commitments	Land/water protection Land/water management Education & awareness Livelihood, economic & other incentives


C15.6

(C15.6) Does your organization use biodiversity indicators to monitor performance across its activities?

	Does your organization use indicators to monitor biodiversity performance?	Indicators used to monitor biodiversity performance
Row 1	No, we do not use indicators, but plan to within the next two years	Other, please specify monitoring with experts who prepares reports

C15.7

(C15.7) Have you published information about your organization's response to biodiversity-related issues for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Report type	Content elements	Attach the document and indicate where in the document the relevant biodiversity information is located
Other, please specify Integrated Annual Report	Content of biodiversity-related policies or commitments Impacts on biodiversity	We share our climate change, biodiversity and GHG emissions performance with our stakeholders by Integrated Annual Report  1

 1Akenerji_Integrated_2022_20.02.pdf

C16. Signoff

C-FI

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

According to SBTi fossil fuel policy we cannot give commitment according to categories 1.1 and 2.1.

C16.1

(C16.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	Chief Executive Officer	Chief Executive Officer (CEO)

Submit your response

In which language are you submitting your response?

Please confirm how your response should be handled by CDP

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

Please confirm below