



ACWA Power Company

2024 CDP Corporate Questionnaire 2024

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C1. Introduction

(1.1) In which language are you submitting your response?

Select from:

English

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

Select from:

SAR

(1.3) Provide an overview and introduction to your organization.

(1.3.2) Organization type

Select from:

Publicly traded organization

(1.3.3) Description of organization

We are a developer, investor and operator of power generation and desalinated water plants with 90 assets in operation, construction or advanced development across 13 countries.

[Fixed row]

(1.4) State the end date of the year for which you are reporting data. For emissions data, indicate whether you will be providing emissions data for past reporting years.

(1.4.1) End date of reporting year

12/31/2023

(1.4.2) Alignment of this reporting period with your financial reporting period

Select from:

Yes

(1.4.3) Indicate if you are providing emissions data for past reporting years

Select from:

Yes

(1.4.4) Number of past reporting years you will be providing Scope 1 emissions data for

Select from:

4 years

(1.4.5) Number of past reporting years you will be providing Scope 2 emissions data for

Select from:

4 years

(1.4.6) Number of past reporting years you will be providing Scope 3 emissions data for

Select from:

Not providing past emissions data for Scope 3

[Fixed row]

(1.4.1) What is your organization's annual revenue for the reporting period?

6095010000

(1.5) Provide details on your reporting boundary.

	<p>Is your reporting boundary for your CDP disclosure the same as that used in your financial statements?</p>
	<p>Select from:</p> <p><input checked="" type="checkbox"/> Yes</p>

[Fixed row]

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

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

Yes

(1.6.2) Provide your unique identifier

SA15CGS10H12

ISIN code - equity

(1.6.1) Does your organization use this unique identifier?

Select from:

Yes

(1.6.2) Provide your unique identifier

SA15CGS10H12

CUSIP number

(1.6.1) Does your organization use this unique identifier?

Select from:

No

Ticker symbol

(1.6.1) Does your organization use this unique identifier?

Select from:

Yes

(1.6.2) Provide your unique identifier

2082

SEDOL code

(1.6.1) Does your organization use this unique identifier?

Select from:

No

LEI number

(1.6.1) Does your organization use this unique identifier?

Select from:

Yes

(1.6.2) Provide your unique identifier

D-U-N-S number

(1.6.1) Does your organization use this unique identifier?

Select from:

No

Other unique identifier

(1.6.1) Does your organization use this unique identifier?

Select from:

No

[Add row]

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

Select all that apply

Oman

Egypt

Jordan

Turkey

Bahrain

United Arab Emirates

Morocco

Azerbaijan

Uzbekistan

Saudi Arabia

South Africa

(1.16) In which part of the electric utilities value chain does your organization operate?

Electric utilities value chain

Electricity generation

(1.16.1) For your electricity generation activities, provide details of your nameplate capacity and electricity generation specifics for each technology employed.

Coal - Hard

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Lignite

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Oil

(1.16.1.1) Own or control operations which use this power generation source

Select from:

Yes

(1.16.1.2) Nameplate capacity (MW)

6424

(1.16.1.3) Gross electricity generation (GWh)

10415

(1.16.1.4) Net electricity generation (GWh)

9071

(1.16.1.5) Comment

Some of these plants are desalination plants rather than electricity generators; Only disclosed for operating assets; excluding under-construction and advanced development. For Oil assets: Under-construction - 0 MW Advanced development - 0 MW

Gas

(1.16.1.1) Own or control operations which use this power generation source

Select from:

Yes

(1.16.1.2) Nameplate capacity (MW)

18796

(1.16.1.3) Gross electricity generation (GWh)

34814

(1.16.1.4) Net electricity generation (GWh)

33719

(1.16.1.5) Comment

Some of these plants are desalination plants rather than electricity generators; For gas assets: Under-construction - 1500 MW Advanced development - 3830 MW

Sustainable biomass

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Other biomass

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Waste (non-biomass)

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Nuclear

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Fossil-fuel plants fitted with carbon capture and storage

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Geothermal

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Hydropower

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Wind

(1.16.1.1) Own or control operations which use this power generation source

Select from:

Yes

(1.16.1.2) Nameplate capacity (MW)

120

(1.16.1.3) Gross electricity generation (GWh)

84.6

(1.16.1.4) Net electricity generation (GWh)

84.5

(1.16.1.5) Comment

For wind assets: Under-construction - 1340 MW Advanced development - 3652 MW

Solar

(1.16.1.1) Own or control operations which use this power generation source

Select from:

Yes

(1.16.1.2) Nameplate capacity (MW)

1915

(1.16.1.3) Gross electricity generation (GWh)

4107

(1.16.1.4) Net electricity generation (GWh)

3931

(1.16.1.5) Comment

Only operating plants are included in column 3. For solar assets: Under-construction - 15834 MW Advanced development - 1660 MW

Marine

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Other renewable

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

We also have green hydrogen plants but they are under construction and partial operations, it has not yet reached full commercial operation date, which is not part of the reporting boundary.

Other non-renewable

(1.16.1.1) Own or control operations which use this power generation source

Select from:

No

(1.16.1.5) Comment

N/A

Total

(1.16.1.1) Own or control operations which use this power generation source

Select from:

Yes

(1.16.1.2) Nameplate capacity (MW)

27255

(1.16.1.3) Gross electricity generation (GWh)

49422

(1.16.1.4) Net electricity generation (GWh)

(1.16.1.5) Comment

*The total data only includes operating plants, excluding under-construction & advanced development.
[Fixed row]*

(1.24) Has your organization mapped its value chain?

(1.24.1) Value chain mapped

Select from:

Yes, we have mapped or are currently in the process of mapping our value chain

(1.24.2) Value chain stages covered in mapping

Select all that apply

Upstream value chain

(1.24.3) Highest supplier tier mapped

Select from:

Tier 1 suppliers

(1.24.4) Highest supplier tier known but not mapped

Select from:

All supplier tiers known have been mapped

(1.24.7) Description of mapping process and coverage

At least once per year, the O&M Procurement Leadership Team will undertake a review of all relevant stakeholders within the organization. These stakeholders will all be based within the regions at an operating plant level for O&M requirements. As the first step in this process, the Regional Supply Chain Heads will map out the stakeholders that they and their teams are in contact with within each region. The Regional Supply Chain Heads will then map the outputs of their findings by categorizing in the matrix. The significance is determined by the level of power and the interest.

[Fixed row]

(1.24.1) Have you mapped where in your direct operations or elsewhere in your value chain plastics are produced, commercialized, used, and/or disposed of?

(1.24.1.1) Plastics mapping

Select from:

No, and we do not plan to within the next two years

(1.24.1.5) Primary reason for not mapping plastics in your value chain

Select from:

Judged to be unimportant or not relevant

(1.24.1.6) Explain why your organization has not mapped plastics in your value chain

ACWA Power's primary business revolves around generating power through renewable sources and flexible generation, as well as water desalination. These operations do not directly involve the production, use, or disposal of significant amounts of plastic materials as might be seen in manufacturing, packaging, or consumer goods industries. The infrastructure for renewable energy, such as solar panels, wind turbines, and related components, does contain some plastics. However, these plastics are integrated into the products and are not a principal material or a waste by-product that requires ongoing management. The life-cycle of these components is long, and end-of-life disposal is managed through specific recycling and waste management practices that focus more broadly on electronic waste rather than just plastics. Through our materiality assessment, plastic management ranked very low and deemed to be insignificant comparing to other environmental topics such as emissions, waste and air pollutions that are directly link to our business operations.

[Fixed row]

C2. Identification, assessment, and management of dependencies, impacts, risks, and opportunities

(2.1) How does your organization define short-, medium-, and long-term time horizons in relation to the identification, assessment, and management of your environmental dependencies, impacts, risks, and opportunities?

Short-term

(2.1.1) From (years)

0

(2.1.3) To (years)

3

(2.1.4) How this time horizon is linked to strategic and/or financial planning

The short-term time horizon is where we assessed our near-term activities that can impact our mid-term goals. It acts as enablers for us to achieve our targets set in 2030.

Medium-term

(2.1.1) From (years)

3

(2.1.3) To (years)

10

(2.1.4) How this time horizon is linked to strategic and/or financial planning

Most of our targets set for 2030, which will be a milestone year for ACWA Power.

Long-term

(2.1.1) From (years)

10

(2.1.2) Is your long-term time horizon open ended?

Select from:

Yes

(2.1.4) How this time horizon is linked to strategic and/or financial planning

Long term time horizon is crucial when assessing our risks and opportunities up to 2050 and 2100 for physical risk.

[Fixed row]

(2.2) Does your organization have a process for identifying, assessing, and managing environmental dependencies and/or impacts?

	Process in place	Dependencies and/or impacts evaluated in this process
	Select from: <input checked="" type="checkbox"/> Yes	Select from: <input checked="" type="checkbox"/> Both dependencies and impacts

[Fixed row]

(2.2.1) Does your organization have a process for identifying, assessing, and managing environmental risks and/or opportunities?

	Process in place	Risks and/or opportunities evaluated in this process	Is this process informed by the dependencies and/or impacts process?
	<i>Select from:</i> <input checked="" type="checkbox"/> Yes	<i>Select from:</i> <input checked="" type="checkbox"/> Both risks and opportunities	<i>Select from:</i> <input checked="" type="checkbox"/> Yes

[Fixed row]

(2.2.2) Provide details of your organization’s process for identifying, assessing, and managing environmental dependencies, impacts, risks, and/or opportunities.

Row 1

(2.2.2.1) Environmental issue

Select all that apply

- Climate change

(2.2.2.2) Indicate which of dependencies, impacts, risks, and opportunities are covered by the process for this environmental issue

Select all that apply

- Dependencies
- Impacts
- Risks
- Opportunities

(2.2.2.3) Value chain stages covered

Select all that apply

- Direct operations

(2.2.2.4) Coverage

Select from:

- Full

(2.2.2.7) Type of assessment

Select from:

- Qualitative only

(2.2.2.8) Frequency of assessment

Select from:

- Every three years or more

(2.2.2.9) Time horizons covered

Select all that apply

- Long-term

(2.2.2.10) Integration of risk management process

Select from:

- A specific environmental risk management process

(2.2.2.11) Location-specificity used

Select all that apply

- Site-specific
- National

(2.2.2.12) Tools and methods used

Enterprise Risk Management

- ✓ Enterprise Risk Management

International methodologies and standards

- ✓ Environmental Impact Assessment
- ✓ IPCC Climate Change Projections

Other

- ✓ Desk-based research
- ✓ External consultants
- ✓ Materiality assessment
- ✓ Scenario analysis

(2.2.2.13) Risk types and criteria considered

Acute physical

- ✓ Drought
- ✓ Tornado
- ✓ Wildfires
- ✓ Heat waves
- ✓ Cold wave/frost

Chronic physical

- ✓ Heat stress
- ✓ Water stress
- ✓ Sea level rise
- ✓ Coastal erosion
- ✓ Permafrost thawing
- ✓ Water availability at a basin/catchment level
- ✓ Changing temperature (air, freshwater, marine water)
- ✓ Changing precipitation patterns and types (rain, hail, snow/ice)

- ✓ Cyclones, hurricanes, typhoons
- ✓ Heavy precipitation (rain, hail, snow/ice)
- ✓ Flood (coastal, fluvial, pluvial, ground water)
- ✓ Storm (including blizzards, dust, and sandstorms)

- ✓ Changing wind patterns
- ✓ Temperature variability
- ✓ Water quality at a basin/catchment level
- ✓ Precipitation or hydrological variability
- ✓ Increased severity of extreme weather events

Technology

- Transition to lower emissions technology and products

(2.2.2.14) Partners and stakeholders considered

Select all that apply

- Customers
- Employees
- Investors
- Local communities

(2.2.2.15) Has this process changed since the previous reporting year?

Select from:

- No

(2.2.2.16) Further details of process

We have conducted physical climate risk assessment by engaging with external consultant. It assessed mainly our operational sites' vulnerability to the future forecast climate scenarios. We mainly focused on RCP 8.5 scenario for our assessment as it portrays a "worst case scenario" for climate. The assessment focuses on the technologies as well as the location of the sites. Threats and opportunities are then identified.

Row 2

(2.2.2.1) Environmental issue

Select all that apply

- Water

(2.2.2.2) Indicate which of dependencies, impacts, risks, and opportunities are covered by the process for this environmental issue

Select all that apply

- Dependencies
- Impacts
- Risks
- Opportunities

(2.2.2.3) Value chain stages covered

Select all that apply

- Direct operations

(2.2.2.4) Coverage

Select from:

- Full

(2.2.2.7) Type of assessment

Select from:

- Qualitative and quantitative

(2.2.2.8) Frequency of assessment

Select from:

- Every three years or more

(2.2.2.9) Time horizons covered

Select all that apply

- Short-term
- Medium-term
- Long-term

(2.2.2.10) Integration of risk management process

Select from:

- A specific environmental risk management process

(2.2.2.11) Location-specificity used

Select all that apply

- Site-specific
- Local

(2.2.2.12) Tools and methods used

Commercially/publicly available tools

- WRI Aqueduct

Enterprise Risk Management

- Enterprise Risk Management
- ISO 31000 Risk Management Standard
- Risk models

International methodologies and standards

- Environmental Impact Assessment
- ISO 14001 Environmental Management Standard
- ISO 14046 Environmental Management – Water Footprint

Databases

- FAO/AQUASTAT
- Regional government databases

Other

- Desk-based research
- Materiality assessment
- Partner and stakeholder consultation/analysis

(2.2.2.13) Risk types and criteria considered

Acute physical

- Drought
- Heat waves
- Toxic spills
- Pollution incident
- Heavy precipitation (rain, hail, snow/ice)
- Flood (coastal, fluvial, pluvial, ground water)
- Storm (including blizzards, dust, and sandstorms)

Chronic physical

- Water stress
- Sea level rise
- Soil degradation
- Change in land-use
- Groundwater depletion
- Increased levels of environmental pollutants in freshwater bodies
- Declining water quality
- Increased ecosystem vulnerability
- Water quality at a basin/catchment level
- Water availability at a basin/catchment level
- Changing temperature (air, freshwater, marine water)

Policy

- Increased difficulty in obtaining operations permits
- Increased difficulty in obtaining water withdrawals permit

Reputation

- Impact on human health
- Stakeholder conflicts concerning water resources at a basin/catchment level

(2.2.2.14) Partners and stakeholders considered

Select all that apply

- Customers
- Employees
- Investors

Local communities

(2.2.2.15) Has this process changed since the previous reporting year?

Select from:

No

(2.2.2.16) Further details of process

As most of our operations are located in the middle east regions and central asia, water availability is crucial for the operations. ACWA Power has mainly power plants and water desalination plant. The freshwater consumption is mainly only used for power plants as seawater is utilised for water desalination facilities. Throughout our operations, we only withdraw 0.6% of freshwater out of total water withdrawal. 99.4% comes from seawater. The water risk assessment for each project is covered under ESIA which is published on our website. We have also conducted an overall corporate wide water impact assessment and found out that the freshwater exported from ACWA Power to the consumers in the water stress region, is 213 times more than the total freshwater consumed by the whole company. It shows a significant positive impact that ACWA power is contributing to the region.

[Add row]

(2.2.7) Are the interconnections between environmental dependencies, impacts, risks and/or opportunities assessed?

	Interconnections between environmental dependencies, impacts, risks and/or opportunities assessed	Description of how interconnections are assessed
	Select from: <input checked="" type="checkbox"/> Yes	part of a formal risk and impact assessment process

[Fixed row]

(2.3) Have you identified priority locations across your value chain?

(2.3.1) Identification of priority locations

Select from:

- Yes, we have identified priority locations

(2.3.2) Value chain stages where priority locations have been identified

Select all that apply

- Direct operations

(2.3.3) Types of priority locations identified

Sensitive locations

- Areas important for biodiversity
- Areas of high ecosystem integrity
- Areas of rapid decline in ecosystem integrity
- Areas of limited water availability, flooding, and/or poor quality of water
- Areas of importance for ecosystem service provision

(2.3.4) Description of process to identify priority locations

ESIA baseline studies and impact analysis

(2.3.5) Will you be disclosing a list/spatial map of priority locations?

Select from:

- No, we have a list/geospatial map of priority locations, but we will not be disclosing it

[Fixed row]

(2.4) How does your organization define substantive effects on your organization?

Risks

(2.4.1) Type of definition

Select all that apply

- Qualitative

(2.4.6) Metrics considered in definition

Select all that apply

- Likelihood of effect occurring
- Other, please specify :Impact scoring

(2.4.7) Application of definition

We are using a matrix approach where a risk is assessed by impact scoring (from negligible to catastrophic) and livelihood (from remote (probability is 50%)). Moreover, Risk velocity is a criterion used in risk assessments in conjunction with risk impact and likelihood. Velocity is a measure of how quickly the estimated impact of a specific risk once the risk event has occurred (Time to Impact approach).

Opportunities

(2.4.1) Type of definition

Select all that apply

- Qualitative

(2.4.6) Metrics considered in definition

Select all that apply

- Other, please specify :Current control effectiveness

(2.4.7) Application of definition

The degree to which existing controls mitigates the risk. It is evaluated against 1 to 7 scale. 1 being fully managed (best-in-class) while 7 being ineffective (no mitigation). This is used to identify opportunities in place to reduce the risks.

[Add row]

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

	Identification and classification of potential water pollutants	How potential water pollutants are identified and classified
	<i>Select from:</i> <input checked="" type="checkbox"/> Yes, we identify and classify our potential water pollutants	<i>comprehensive risk assessment, impact assessment and management plan that include material safety data.</i>

[Fixed row]

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

Row 1

(2.5.1.1) Water pollutant category

Select from:

- Inorganic pollutants

(2.5.1.2) Description of water pollutant and potential impacts

One of the important water pollutants from water desalination operations is brine discharge. It consists of highly concentrated salt water that is discharge back to the ocean.

(2.5.1.3) Value chain stage

Select all that apply

- Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

- Water recycling
- Resource recovery
- Provision of best practice instructions on product use
- Implementation of integrated solid waste management systems
- Discharge treatment using sector-specific processes to ensure compliance with regulatory requirements
- Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

(2.5.1.5) Please explain

We rigorously monitor and manage key water quality metrics related to discharge, such as Temperature and Total Dissolved Solids (TDS) within the designated mixing zone, to ensure compliance with local regulations. In addition, continuous monitoring of biodiversity and aquatic life is conducted to identify and avoid any potential negative impacts. Other measures:

- *Early site selection to avoid sensitive habitats.*
- *High-efficiency multiport diffusers to ensure optimal initial dilution of brine.*
- *Advanced hydrodynamic modelling to maximise brine dilution and minimise environmental impact.*
- *Real-time monitoring and extensive marine surveys during both construction and operation phases. We have made significant strides in increasing the efficiency of the reverse osmosis (RO) process, enhancing water recovery rates from 37% to 45%, moving closer to the thermodynamic limit of 60% at 70 bar. This high recovery rate reduces the volume of brine discharge and minimises the intake of juvenile fish and larvae. Our plants also optimise chemical usage, further reducing environmental impacts.*

Row 2

(2.5.1.1) Water pollutant category

Select from:

- Oil

(2.5.1.2) Description of water pollutant and potential impacts

used in mobile plant and many large installations; trace amounts can significantly impact aquatic systems

(2.5.1.3) Value chain stage

Select all that apply

- Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

- Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience
- Resource recovery
- Implementation of integrated solid waste management systems

(2.5.1.5) Please explain

environmental management plans included in procedures for all operations

[Add row]

C3. Disclosure of risks and opportunities

(3.1) Have you identified any environmental risks which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future?

Climate change

(3.1.1) Environmental risks identified

Select from:

Yes, both in direct operations and upstream/downstream value chain

Water

(3.1.1) Environmental risks identified

Select from:

Yes, both in direct operations and upstream/downstream value chain

Plastics

(3.1.1) Environmental risks identified

Select from:

No

(3.1.2) Primary reason why your organization does not consider itself to have environmental risks in your direct operations and/or upstream/downstream value chain

Select from:

Not an immediate strategic priority

(3.1.3) Please explain

Plastics are recognised as an environmental hazard within our organisation, but are of relatively lower significance (relative to water, climate change and biodiversity loss) and have thus not yet been prioritised.

[Fixed row]

(3.1.1) Provide details of the environmental risks identified which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future.

Climate change

(3.1.1.1) Risk identifier

Select from:

Risk1

(3.1.1.3) Risk types and primary environmental risk driver

Policy

Changes to national legislation

(3.1.1.4) Value chain stage where the risk occurs

Select from:

Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

Oman

Egypt

Jordan

Morocco

Azerbaijan

Uzbekistan

- Turkey
- Bahrain
- United Arab Emirates

- Saudi Arabia
- South Africa

(3.1.1.9) Organization-specific description of risk

novel regulatory regimes: changes in climate-related performance criteria for projects may adversely affect compliance

(3.1.1.11) Primary financial effect of the risk

Select from:

- Constraint to growth

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

- Medium-term
- Long-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

- About as likely as not

(3.1.1.14) Magnitude

Select from:

- Medium

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

Minimum effect on financial performance as we have internal control and management system to mitigate the risk.

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

No

(3.1.1.26) Primary response to risk

Diversification

Develop new products, services and/or markets

(3.1.1.27) Cost of response to risk

0

(3.1.1.28) Explanation of cost calculation

Not able to quantify

(3.1.1.29) Description of response

We have continuously increasing our renewable portfolio and have set a corporate wide target relating to the percentage of renewable portfolio (50% by 2030). With the new strategy, more than 75% power additions will come from renewable energy. We are also the first mover in building a large scale green hydrogen plant.

Water

(3.1.1.1) Risk identifier

Select from:

Risk1

(3.1.1.3) Risk types and primary environmental risk driver

Liability

Non-compliance with legislation

(3.1.1.4) Value chain stage where the risk occurs

Select from:

- Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

- | | |
|--|--|
| <input checked="" type="checkbox"/> Oman | <input checked="" type="checkbox"/> Morocco |
| <input checked="" type="checkbox"/> Egypt | <input checked="" type="checkbox"/> Azerbaijan |
| <input checked="" type="checkbox"/> Jordan | <input checked="" type="checkbox"/> Uzbekistan |
| <input checked="" type="checkbox"/> Turkey | <input checked="" type="checkbox"/> Saudi Arabia |
| <input checked="" type="checkbox"/> Bahrain | <input checked="" type="checkbox"/> South Africa |
| <input checked="" type="checkbox"/> United Arab Emirates | |

(3.1.1.7) River basin where the risk occurs

Select all that apply

- Other, please specify :We have 0.06% freshwater withdrawal out of total water withdrawal. Majority of our water withdrawal comes from sea. The freshwater sources are coming from third-party, or local water well.

(3.1.1.9) Organization-specific description of risk

chemical or fuel spills on site or on transport routes to sites and discharge of brine may potentially occur and could exceed regulatory limits in the case of an accident

(3.1.1.11) Primary financial effect of the risk

Select from:

- Fines, penalties or enforcement orders

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

- Short-term
- Medium-term
- Long-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

- About as likely as not

(3.1.1.14) Magnitude

Select from:

- Medium-low

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

Minimum effect on financial performance as we have internal control and management system to mitigate the risk.

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

- No

(3.1.1.26) Primary response to risk

Compliance, monitoring and targets

- Implementation of environmental best practices in direct operations

(3.1.1.27) Cost of response to risk

0

(3.1.1.28) Explanation of cost calculation

Not able to quantify

(3.1.1.29) Description of response

Minimising the environmental impact of brine discharges, requires an integrated project development approach. • Early site selection to avoid sensitive habitats. • High-efficiency multiport diffusers to ensure optimal initial dilution of brine. • Advanced hydrodynamic modelling to maximise brine dilution and minimise environmental impact. • Real-time monitoring and extensive marine surveys during both construction and operation phases. We have made significant strides in increasing the efficiency of the reverse osmosis (RO) process, enhancing water recovery rates from 37% to 45%, moving closer to the thermodynamic limit of 60% at 70 bar. This high recovery rate reduces the volume of brine discharge and minimises the intake of juvenile fish and larvae. Our plants also optimise chemical usage, further reducing environmental impacts. A key achievement in our operational strategy is the transition from thermal desalination to more sustainable SWRO technologies. For instance, the Taweelah IWP in UAE, the world's largest SWRO plant, derives a third of its energy from on-site PV, while our Red Sea Global RO units are powered entirely by renewable energy. This shift significantly reduces both the thermal impact on marine environment and our carbon footprint. Looking forward, we are exploring innovative solutions such as brine mining and the potential for Zero Liquid Discharge systems to further reduce environmental impacts. Our long-term collaboration with renowned marine consultants ensures continuous improvement in our operational processes and environmental strategies.

Climate change

(3.1.1.1) Risk identifier

Select from:

Risk2

(3.1.1.3) Risk types and primary environmental risk driver

Chronic physical

Temperature variability

(3.1.1.4) Value chain stage where the risk occurs

Select from:

Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

- Egypt
- Jordan
- Turkey
- Bahrain
- Morocco
- Azerbaijan
- Uzbekistan
- Saudi Arabia
- South Africa
- United Arab Emirates

(3.1.1.9) Organization-specific description of risk

increasing maximum temperatures may have impacts ranging from decreased plant efficiencies to worker heat stress and reduced outdoor working hours

(3.1.1.11) Primary financial effect of the risk

Select from:

- Decreased revenues due to reduced production capacity

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

- Short-term
- Medium-term
- Long-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

- Likely

(3.1.1.14) Magnitude

Select from:

- Medium

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

The temperature variation is longer term effect that might impact the operational efficiency. However, the impact is estimated to be very minimal as the current equipment in operations are able to withstand the temperature variations. Regular maintenance to ensure the physical risk impact is minimized.

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

No

(3.1.1.26) Primary response to risk

Infrastructure, technology and spending

Increase investment in R&D

(3.1.1.27) Cost of response to risk

0

(3.1.1.28) Explanation of cost calculation

Not able to quantify

(3.1.1.29) Description of response

In 2023, we have filed 15 patents and 36 live projects including pilot and demo plants to continuously innovate in improving our operations efficiency. ACWA Power's strategy for technology innovation and R&D emphasizes collaboration and involves partnerships with R&D partners, original equipment manufacturers (OEMs) and start-ups, rather than relying solely on an in-house R&D unit. We partner with leading universities in the Kingdom, technology companies, and strategic partners through an open innovation system.

[Add row]

(3.1.2) Provide the amount and proportion of your financial metrics from the reporting year that are vulnerable to the substantive effects of environmental risks.

Climate change

(3.1.2.1) Financial metric

Select from:

Assets

(3.1.2.2) Amount of financial metric vulnerable to transition risks for this environmental issue (unit currency as selected in 1.2)

5

(3.1.2.3) % of total financial metric vulnerable to transition risks for this environmental issue

Select from:

1-10%

(3.1.2.4) Amount of financial metric vulnerable to physical risks for this environmental issue (unit currency as selected in 1.2)

0

(3.1.2.5) % of total financial metric vulnerable to physical risks for this environmental issue

Select from:

Less than 1%

(3.1.2.7) Explanation of financial figures

Considering using oil as one of the transition risks in the future climate scenario (gas is excluded as it is considered as transition fossil fuel), we have 5 assets out of 90 that are currently still using oil as energy source.

Water

(3.1.2.1) Financial metric

Select from:

Assets

(3.1.2.2) Amount of financial metric vulnerable to transition risks for this environmental issue (unit currency as selected in 1.2)

2

(3.1.2.3) % of total financial metric vulnerable to transition risks for this environmental issue

Select from:

Less than 1%

(3.1.2.4) Amount of financial metric vulnerable to physical risks for this environmental issue (unit currency as selected in 1.2)

16

(3.1.2.5) % of total financial metric vulnerable to physical risks for this environmental issue

Select from:

21-30%

(3.1.2.7) Explanation of financial figures

32% of our assets situated in water stress region and consumed of freshwater. However, the amount is only 0.06% of the total water withdrawal. Our desalination plants exported freshwater 213 times more than the water withdrawal for operations.

[Add row]

(3.2) Within each river basin, how many facilities are exposed to substantive effects of water-related risks, and what percentage of your total number of facilities does this represent?

Row 1

(3.2.1) Country/Area & River basin

South Africa

Orange

(3.2.2) Value chain stages where facilities at risk have been identified in this river basin

Select all that apply

Direct operations

(3.2.3) Number of facilities within direct operations exposed to water-related risk in this river basin

1

(3.2.4) % of your organization's total facilities within direct operations exposed to water-related risk in this river basin

Select from:

Less than 1%

(3.2.8) % organization's annual electricity generation that could be affected by these facilities

Select from:

Less than 1%

(3.2.10) % organization's total global revenue that could be affected

Select from:

Less than 1%

(3.2.11) Please explain

We have one CSP solar plant located in this area and utilize the river as freshwater source for day-to-day maintenance activities. Without the access of the water, it still would not have a significant impact to the operations as the solar plant doesn't rely on the water for its production.

Row 2

(3.2.1) Country/Area & River basin

Turkey

Kizilirmak

(3.2.2) Value chain stages where facilities at risk have been identified in this river basin

Select all that apply

Direct operations

(3.2.3) Number of facilities within direct operations exposed to water-related risk in this river basin

1

(3.2.4) % of your organization's total facilities within direct operations exposed to water-related risk in this river basin

Select from:

Less than 1%

(3.2.8) % organization's annual electricity generation that could be affected by these facilities

Select from:

Less than 1%

(3.2.10) % organization's total global revenue that could be affected

Select from:

Less than 1%

(3.2.11) Please explain

We have one CCGT located in the area, uses the river as one of the water sources for the cooling of the operation.

[Add row]

(3.3) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

	Water-related regulatory violations	Comment
	Select from: <input checked="" type="checkbox"/> No	no fines reported during the period

[Fixed row]

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

Select from:

No, and we do not anticipate being regulated in the next three years

(3.6) Have you identified any environmental opportunities which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future?

	Environmental opportunities identified
Climate change	<i>Select from:</i> <input checked="" type="checkbox"/> Yes, we have identified opportunities, and some/all are being realized
Water	<i>Select from:</i> <input checked="" type="checkbox"/> Yes, we have identified opportunities, and some/all are being realized

[Fixed row]

(3.6.1) Provide details of the environmental opportunities identified which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

Opp1

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Energy source

Use of low-carbon energy sources

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

Direct operations

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

- United Arab Emirates

(3.6.1.8) Organization specific description

Switched a power plant from coal to natural gas

(3.6.1.9) Primary financial effect of the opportunity

Select from:

- Returns on investment in low-emission technology

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

- Medium-term
- Long-term
- The opportunity has already had a substantive effect on our organization in the reporting year

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

- Virtually certain (99–100%)

(3.6.1.12) Magnitude

Select from:

- Medium

(3.6.1.13) Effect of the opportunity on the financial position, financial performance and cash flows of the organization in the reporting period

ACWA Power is converting this oil-fired thermal IWPP into a energy efficient 600,000 m3/day SWRO project by integrating 65 MWp PV replacing boilers and MSF technology. This will lead to an 87% reduction in power consumption and a saving of nine million tonnes of CO2/year by avoiding fuel consumption of 22 million barrels/year. The plant will be operational in 2025.

(3.6.1.14) Anticipated effect of the opportunity on the financial position, financial performance and cash flows of the organization in the selected future time horizons

Positive

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

No

(3.6.1.24) Cost to realize opportunity

0

(3.6.1.25) Explanation of cost calculation

Unknown

(3.6.1.26) Strategy to realize opportunity

Converting to lower carbon energy source

Water

(3.6.1.1) Opportunity identifier

Select from:

Opp2

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Resource efficiency

- Use of new technologies

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

- Direct operations

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

- Saudi Arabia

(3.6.1.6) River basin where the opportunity occurs

Select all that apply

- Other, please specify :Water desalination plant does not utilize river as water source. Seawater is used.

(3.6.1.8) Organization specific description

desalination plant switched from HFO thermal water desalination plant to SWRO desalination plant.

(3.6.1.9) Primary financial effect of the opportunity

Select from:

- Returns on investment in low-emission technology

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

- Medium-term
- Long-term
- The opportunity has already had a substantive effect on our organization in the reporting year

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

Virtually certain (99–100%)

(3.6.1.12) Magnitude

Select from:

Medium

(3.6.1.13) Effect of the opportunity on the financial position, financial performance and cash flows of the organization in the reporting period

The effect on financial position will be positive as it highly improves the energy efficiency. The estimation specific power consumption will be reduced by 87%.

(3.6.1.14) Anticipated effect of the opportunity on the financial position, financial performance and cash flows of the organization in the selected future time horizons

Positive

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

No

(3.6.1.24) Cost to realize opportunity

3100000000

(3.6.1.25) Explanation of cost calculation

The conversion cost is SAR 3.1 billion

(3.6.1.26) Strategy to realize opportunity

Climate change

(3.6.1.1) Opportunity identifier

Select from:

- Opp3

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Resource efficiency

- Use of new technologies

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

- Direct operations

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

- Saudi Arabia
- Uzbekistan

(3.6.1.8) Organization specific description

Large scale green hydrogen plants

(3.6.1.9) Primary financial effect of the opportunity

Select from:

- Increased revenues through access to new and emerging markets

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

- Short-term
- Medium-term
- Long-term
- The opportunity has already had a substantive effect on our organization in the reporting year

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

- Virtually certain (99–100%)

(3.6.1.12) Magnitude

Select from:

- High

(3.6.1.13) Effect of the opportunity on the financial position, financial performance and cash flows of the organization in the reporting period

Green hydrogen and its derivatives are the new renewables. The electrolysis process passes a strong electrical current through a tank of water (H₂O), to split the molecules into its two constituent elements, and then converts the hydrogen into ammonia for ease of transport. ACWA Power is first mover in at-scale green hydrogen and is constructing the world's biggest green hydrogen project in the NEOM region. This makes us, along with our partners, the largest player in green ammonia, with the NEOM Green Hydrogen Project and our second project in Uzbekistan, catering to fertilisers locally and for export in the future. Several MoUs have been signed to develop green hydrogen projects in Indonesia, Thailand, Egypt, and Uzbekistan.

(3.6.1.14) Anticipated effect of the opportunity on the financial position, financial performance and cash flows of the organization in the selected future time horizons

Positive

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

No

(3.6.1.24) Cost to realize opportunity

33000000000

(3.6.1.25) Explanation of cost calculation

Total investment cost has been SAR 33,000 million for Neom green hydrogen and Uzbekistan green hydrogen plants

(3.6.1.26) Strategy to realize opportunity

First mover in an emerging market that are crucial for combating climate change

Climate change

(3.6.1.1) Opportunity identifier

Select from:

Opp4

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Energy source

Use of renewable energy sources

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

Direct operations

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

- Oman
- Egypt
- Jordan
- Bahrain
- Morocco
- United Arab Emirates
- Indonesia
- Azerbaijan
- Uzbekistan
- Saudi Arabia
- South Africa

(3.6.1.6) River basin where the opportunity occurs

Select all that apply

- Other, please specify :Not utilizing river basin

(3.6.1.8) Organization specific description

Renewable energy plants rapidly expansion in these regions that include, solar and wind.

(3.6.1.9) Primary financial effect of the opportunity

Select from:

- Increased revenues resulting from increased demand for products and services

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

- Short-term
- Medium-term
- Long-term
- The opportunity has already had a substantive effect on our organization in the reporting year

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

- Virtually certain (99–100%)

(3.6.1.12) Magnitude

Select from:

High

(3.6.1.13) Effect of the opportunity on the financial position, financial performance and cash flows of the organization in the reporting period

In 2023, ACWA Power has achieved 44.5% of total renewable power capacity. We have set a target of reaching 50% green and brown ratio by 2030 and it is very likely to achieve this in 2024. Our strategy calls for more than 75% of power additions comes from renewable. This will continuously increase financial performance as the cost is further reduced. And in the future climate scenarios, where renewable energy is much needed.

(3.6.1.14) Anticipated effect of the opportunity on the financial position, financial performance and cash flows of the organization in the selected future time horizons

Positive

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

No

(3.6.1.24) Cost to realize opportunity

143213000000

(3.6.1.25) Explanation of cost calculation

Total investment cost for all the renewable energy portfolio is 143,243 million SAR. This includes operating, under constructions and advanced development.

(3.6.1.26) Strategy to realize opportunity

Increase sustainable electricity generation

[Add row]

(3.6.2) Provide the amount and proportion of your financial metrics in the reporting year that are aligned with the substantive effects of environmental opportunities.

Climate change

(3.6.2.1) Financial metric

Select from:

Assets

(3.6.2.2) Amount of financial metric aligned with opportunities for this environmental issue (unit currency as selected in 1.2)

48

(3.6.2.3) % of total financial metric aligned with opportunities for this environmental issue

Select from:

51-60%

(3.6.2.4) Explanation of financial figures

In 2023, we have a total of 81 assets covering renewables, green hydrogen, water desalination and flexible generations. 48 of the assets are renewable assets; while the rest are flexible generations and water desalination facility.

Water

(3.6.2.1) Financial metric

Select from:

Assets

(3.6.2.2) Amount of financial metric aligned with opportunities for this environmental issue (unit currency as selected in 1.2)

(3.6.2.3) % of total financial metric aligned with opportunities for this environmental issue

Select from:

11-20%

(3.6.2.4) Explanation of financial figures

In 2023, we have a total of 15 SWRO assets. SWRO is the most energy efficiency technology used in water desalination industry and throughout the years, Acwa Power has been switching from traditional thermal desalination to SWRO.

[Add row]

C4. Governance

(4.1) Does your organization have a board of directors or an equivalent governing body?

(4.1.1) Board of directors or equivalent governing body

Select from:

Yes

(4.1.2) Frequency with which the board or equivalent meets

Select from:

More frequently than quarterly

(4.1.3) Types of directors your board or equivalent is comprised of

Select all that apply

Executive directors or equivalent

Non-executive directors or equivalent

Independent non-executive directors or equivalent

(4.1.4) Board diversity and inclusion policy

Select from:

No

[Fixed row]

(4.1.1) Is there board-level oversight of environmental issues within your organization?

	Board-level oversight of this environmental issue	Primary reason for no board-level oversight of this environmental issue	Explain why your organization does not have board-level oversight of this environmental issue
Climate change	Select from: <input checked="" type="checkbox"/> Yes	Select from:	Rich text input [must be under 2500 characters]
Water	Select from: <input checked="" type="checkbox"/> Yes	Select from:	Rich text input [must be under 2500 characters]
Biodiversity	Select from: <input checked="" type="checkbox"/> No, but we plan to within the next two years	Select from: <input checked="" type="checkbox"/> Not an immediate strategic priority	Headline ESG issues are climate change and water. biodiversity is an issue of emerging importance for the company

[Fixed row]

(4.1.2) Identify the positions (do not include any names) of the individuals or committees on the board with accountability for environmental issues and provide details of the board's oversight of environmental issues.

Climate change

(4.1.2.1) Positions of individuals or committees with accountability for this environmental issue

Select all that apply

- Board-level committee
- Chief Risk Officer (CRO)
- Chief Executive Officer (CEO)
- Chief Operating Officer (COO)
- Chief Compliance Officer (CCO)
- Chief Sustainability Officer (CSO)
- Other, please specify :**Chief Health, Safety, Security and Environment**

(4.1.2.2) Positions' accountability for this environmental issue is outlined in policies applicable to the board

Select from:

Yes

(4.1.2.3) Policies which outline the positions' accountability for this environmental issue

Select all that apply

Other policy applicable to the board, please specify :All Board committees have independent committee charters that stipulate their respective structure, authorities, role and responsibilities, within the context of their specific remits.

(4.1.2.4) Frequency with which this environmental issue is a scheduled agenda item

Select from:

Scheduled agenda item in every board meeting (standing agenda item)

(4.1.2.5) Governance mechanisms into which this environmental issue is integrated

Select all that apply

Reviewing and guiding annual budgets

Approving corporate policies and/or commitments

Reviewing and guiding innovation/R&D priorities

Overseeing and guiding major capital expenditures

Monitoring the implementation of the business strategy

Overseeing reporting, audit, and verification processes

Overseeing and guiding the development of a business strategy

Monitoring compliance with corporate policies and/or commitments

Reviewing and guiding the assessment process for dependencies, impacts, risks, and opportunities

(4.1.2.7) Please explain

Boards and executives are responsible for integrating climate change management into the broader business strategy, ensuring sustainability aligns with the company's long-term goals. They oversee the assessment and integration of climate-related into the company's overall risk management processes. This includes evaluating potential financial impacts, operational disruptions, and compliance risks due to evolving regulations. Overseeing investments in sustainable technologies and practices that reduce the environmental impact, such as renewable energy technologies.

Water

(4.1.2.1) Positions of individuals or committees with accountability for this environmental issue

Select all that apply

- Board-level committee
- Chief Risk Officer (CRO)
- Chief Executive Officer (CEO)
- Chief Operating Officer (COO)
- Chief Compliance Officer (CCO)
- Chief Sustainability Officer (CSO)
- Other, please specify :**Chief Health, Safety, Security and Environment**

(4.1.2.2) Positions' accountability for this environmental issue is outlined in policies applicable to the board

Select from:

- Yes

(4.1.2.3) Policies which outline the positions' accountability for this environmental issue

Select all that apply

- Other policy applicable to the board, please specify :All Board committees have independent committee charters that stipulate their respective structure, authorities, role and responsibilities, within the context of their specific remits.

(4.1.2.4) Frequency with which this environmental issue is a scheduled agenda item

Select from:

- Scheduled agenda item in some board meetings – at least annually

(4.1.2.5) Governance mechanisms into which this environmental issue is integrated

Select all that apply

- Reviewing and guiding annual budgets
- Approving corporate policies and/or commitments
- Reviewing and guiding innovation/R&D priorities
- Overseeing and guiding major capital expenditures
- Monitoring the implementation of the business strategy

- Overseeing reporting, audit, and verification processes
- Overseeing and guiding the development of a business strategy
- Monitoring compliance with corporate policies and/or commitments
- Reviewing and guiding the assessment process for dependencies, impacts, risks, and opportunities

(4.1.2.7) Please explain

Boards and executives are responsible for integrating water management into the broader business strategy, ensuring sustainability aligns with the company's long-term goals. Ensuring compliance with national and international environmental regulations, and overseeing the preparation and accuracy of sustainability reports that disclose the company's environmental impact and performance. They monitor and evaluate the company's engagement with stakeholders on environmental matters, ensuring that stakeholder concerns are considered in decision-making processes.

[Fixed row]

(4.2) Does your organization's board have competency on environmental issues?

Climate change

(4.2.1) Board-level competency on this environmental issue

Select from:

- Yes

(4.2.2) Mechanisms to maintain an environmentally competent board

Select all that apply

- Engaging regularly with external stakeholders and experts on environmental issues
- Having at least one board member with expertise on this environmental issue

(4.2.3) Environmental expertise of the board member

Academic

- Postgraduate education (e.g., MSc/MA/PhD in environment and sustainability, climate science, environmental science, water resources management, forestry, etc.), please specify :Master's Degree in Climate Change and Environment

Water

(4.2.1) Board-level competency on this environmental issue

Select from:

Yes

(4.2.2) Mechanisms to maintain an environmentally competent board

Select all that apply

Engaging regularly with external stakeholders and experts on environmental issues

Having at least one board member with expertise on this environmental issue

(4.2.3) Environmental expertise of the board member

Academic

Postgraduate education (e.g., MSc/MA/PhD in environment and sustainability, climate science, environmental science, water resources management, forestry, etc.), please specify :Master's Degree in Climate Change and Environment

[Fixed row]

(4.3) Is there management-level responsibility for environmental issues within your organization?

	Management-level responsibility for this environmental issue
Climate change	Select from: <input checked="" type="checkbox"/> Yes
Water	Select from: <input checked="" type="checkbox"/> Yes

	Management-level responsibility for this environmental issue
Biodiversity	Select from: <input checked="" type="checkbox"/> Yes

[Fixed row]

(4.3.1) Provide the highest senior management-level positions or committees with responsibility for environmental issues (do not include the names of individuals).

Climate change

(4.3.1.1) Position of individual or committee with responsibility

Committee

- Other committee, please specify :Board Executive Committee

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

- Assessing environmental dependencies, impacts, risks, and opportunities
- Assessing future trends in environmental dependencies, impacts, risks, and opportunities

Policies, commitments, and targets

- Monitoring compliance with corporate environmental policies and/or commitments
- Measuring progress towards environmental corporate targets
- Setting corporate environmental policies and/or commitments

Strategy and financial planning

- Developing a business strategy which considers environmental issues
- Developing a climate transition plan
- Managing environmental reporting, audit, and verification processes

(4.3.1.4) Reporting line

Select from:

- Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

- More frequently than quarterly

(4.3.1.6) Please explain

The Board is the highest governing authority in the Company and is responsible for reviewing and approving its overall direction. This includes the review and approval of strategies and plans including, but not limited to, vision and corporate strategy, operations, ESG, funding, investments, and divestments. The governance structure includes four respective Board Committees, established to assist the Board in fulfilling its fiduciary responsibilities by providing independent advice, guidance, and oversight with respect to their respective areas of expertise. Underpinning our commitment to environmental stewardship, the Board has established ambitious climate objectives, aiming for carbon net zero by 2050 and a 50% reduction in Specific Emissions Intensity (t CO₂e/MWh) by 2030, relative to 2020 levels, the baseline year. For each project, ACWA Power conducts an analysis of its emissions and includes the project's impact on overall portfolio emissions in an Investment Memo, based on which the Board Executive Committee makes investment decisions. We therefore ensure that ESG factors are integrated into our capital allocation process. The Board receives regular updates, at least once per year (sometimes more frequently) with the forecast emissions for the Company up to 2050, inclusive of planned growth. The Board conducts annual reviews of performance relative to long-term targets and regularly evaluates ESG strategy, performance and targets. Members of the Board are proficient in sustainability practices and have the necessary skills to address risks related to sustainability issues. Recognising that sustainability is dynamic, the Board is considering setting up a dedicated Committee to steer our ESG strategy, with provisions for quarterly reporting. Furthermore, a series of focused sessions on 'Sustainability' are scheduled for 2024, demonstrating our ongoing commitment to this critical agenda.

Water

(4.3.1.1) Position of individual or committee with responsibility

Executive level

- Other C-Suite Officer, please specify :Chief Health, Safety, Security and Environment

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

- Assessing environmental dependencies, impacts, risks, and opportunities
- Assessing future trends in environmental dependencies, impacts, risks, and opportunities

Engagement

- Managing public policy engagement related to environmental issues

Policies, commitments, and targets

- Monitoring compliance with corporate environmental policies and/or commitments
- Measuring progress towards environmental corporate targets
- Setting corporate environmental policies and/or commitments

Strategy and financial planning

- Developing a business strategy which considers environmental issues
- Managing acquisitions, mergers, and divestitures related to environmental issues
- Managing environmental reporting, audit, and verification processes

(4.3.1.4) Reporting line

Select from:

- Reports to the Chief Executive Officer (CEO)

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

- Quarterly

(4.3.1.6) Please explain

The oversight of water management is under the purview of HSSE department, led by Chief Health, Safety, Security and Environment. The critical issues will be able to escalate up to Board level as CEO and Chief Health, Safety, Security and Environment are both in Board Executive Committee.

Biodiversity

(4.3.1.1) Position of individual or committee with responsibility

Executive level

- Other C-Suite Officer, please specify :Chief Health, Safety, Security and Environment

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

- Assessing environmental dependencies, impacts, risks, and opportunities

Engagement

- Managing public policy engagement related to environmental issues
- Managing value chain engagement related to environmental issues

Policies, commitments, and targets

- Setting corporate environmental policies and/or commitments

(4.3.1.4) Reporting line

Select from:

- Reports to the Chief Executive Officer (CEO)

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

- Quarterly

(4.3.1.6) Please explain

The oversight of biodiversity is under the purview of HSSE department, led by Chief Health, Safety, Security and Environment. The critical issues will be able to escalate up to Board level as CEO and Chief Health, Safety, Security and Environment are both in Board Executive Committee.

[Add row]

(4.5) Do you provide monetary incentives for the management of environmental issues, including the attainment of targets?

	Provision of monetary incentives related to this environmental issue	Please explain
Climate change	<i>Select from:</i> <input checked="" type="checkbox"/> No, and we do not plan to introduce them in the next two years	<i>We do not disclose the remuneration of senior management performance.</i>
Water	<i>Select from:</i> <input checked="" type="checkbox"/> No, and we do not plan to introduce them in the next two years	<i>We do not disclose the remuneration of senior management performance.</i>

[Fixed row]

(4.6) Does your organization have an environmental policy that addresses environmental issues?

	Does your organization have any environmental policies?
	<i>Select from:</i>

	Does your organization have any environmental policies?
	<input checked="" type="checkbox"/> Yes

[Fixed row]

(4.6.1) Provide details of your environmental policies.

Row 1

(4.6.1.1) Environmental issues covered

Select all that apply

Climate change

(4.6.1.2) Level of coverage

Select from:

Organization-wide

(4.6.1.3) Value chain stages covered

Select all that apply

Direct operations

Portfolio

(4.6.1.4) Explain the coverage

We are committed to reaching net zero emissions from our portfolio by 2050. We aim to meet our target by focusing our investments on renewables and transitional low CO2 emitting assets, including capturing viable fuel-switch opportunities and increasing and optimising the energy efficiency of our portfolio. We are committed to accelerate the transition to renewable energy sources, optimise resource utilisation, and enhance energy efficiency to mitigate climate change. It also includes the

aspect of identifying the environmental impact of the organization's business activities and implementing proper measures to mitigate such impacts including reduction of natural resource consumption and minimizing emissions.

(4.6.1.5) Environmental policy content

Environmental commitments

- Commitment to a circular economy strategy
- Commitment to comply with regulations and mandatory standards
- Commitment to stakeholder engagement and capacity building on environmental issues

Climate-specific commitments

- Commitment to net-zero emissions

Social commitments

- Adoption of the UN International Labour Organization principles
- Commitment to respect internationally recognized human rights

(4.6.1.6) Indicate whether your environmental policy is in line with global environmental treaties or policy goals

Select all that apply

- Yes, in line with another global environmental treaty or policy goal, please specify :SDG Goal 13 - Climate Action

(4.6.1.7) Public availability

Select from:

- Publicly available

(4.6.1.8) Attach the policy

ncimspo-03-environment-policy-docx.pdf

Row 2

(4.6.1.1) Environmental issues covered

Select all that apply

- Water

(4.6.1.2) Level of coverage

Select from:

- Organization-wide

(4.6.1.3) Value chain stages covered

Select all that apply

- Direct operations
- Portfolio

(4.6.1.4) Explain the coverage

Identifying the environmental impact of the organization's business activities and implementing proper measures to mitigate such impacts including reduction of natural resource consumption such as freshwater.

(4.6.1.5) Environmental policy content

Environmental commitments

- Commitment to comply with regulations and mandatory standards
- Commitment to respect legally designated protected areas
- Commitment to stakeholder engagement and capacity building on environmental issues

Water-specific commitments

- Commitment to control/reduce/eliminate water pollution
- Commitment to water stewardship and/or collective action

(4.6.1.6) Indicate whether your environmental policy is in line with global environmental treaties or policy goals

Select all that apply

- Yes, in line with Sustainable Development Goal 6 on Clean Water and Sanitation

(4.6.1.7) Public availability

Select from:

- Publicly available

(4.6.1.8) Attach the policy

ncimspo-03-environment-policy-docx.pdf

Row 3

(4.6.1.1) Environmental issues covered

Select all that apply

- Biodiversity

(4.6.1.2) Level of coverage

Select from:

- Organization-wide

(4.6.1.3) Value chain stages covered

Select all that apply

- Direct operations
- Portfolio

(4.6.1.4) Explain the coverage

While we are expanding our assets, we ensure to protect the ecosystems and avoid, minimise or restore biodiversity loss.

(4.6.1.5) Environmental policy content

Environmental commitments

- Commitment to avoidance of negative impacts on threatened and protected species

- Commitment to comply with regulations and mandatory standards
- Commitment to stakeholder engagement and capacity building on environmental issues

(4.6.1.6) Indicate whether your environmental policy is in line with global environmental treaties or policy goals

Select all that apply

- No, and we do not plan to align in the next two years

(4.6.1.7) Public availability

Select from:

- Publicly available

(4.6.1.8) Attach the policy

Sustainability Statement 2024.pdf

[Add row]

(4.10) Are you a signatory or member of any environmental collaborative frameworks or initiatives?

(4.10.1) Are you a signatory or member of any environmental collaborative frameworks or initiatives?

Select from:

- Yes

(4.10.2) Collaborative framework or initiative

Select all that apply

- UN Global Compact

(4.10.3) Describe your organization's role within each framework or initiative

We are a signatory member of UNGC where we: - Make the UN Global Compact and its principles an integral part of your business strategy, day-to-day operations and organizational culture. - Incorporate the UN Global Compact and its principles in decision-making processes at the highest levels. - Engage in partnerships that advance the UN Global Compact's principles and support broader UN goals, such as the UN Sustainable Development Goals. - Advance the UN Global Compact and the case for responsible business practices through advocacy and outreach to peers, partners, clients, consumers and the public at large.
[Fixed row]

(4.11) In the reporting year, did your organization engage in activities that could directly or indirectly influence policy, law, or regulation that may (positively or negatively) impact the environment?

(4.11.1) External engagement activities that could directly or indirectly influence policy, law, or regulation that may impact the environment

Select all that apply

Not assessed

(4.11.2) Indicate whether your organization has a public commitment or position statement to conduct your engagement activities in line with global environmental treaties or policy goals

Select from:

No, and we do not plan to have one in the next two years

(4.11.5) Indicate whether your organization is registered on a transparency register

Select from:

Unknown

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

As ACWA Power is the leading renewable energy developer in Saudi Arabia, we are the key force in helping the nation in its transition to low carbon economy. ACWA Power has to actively engage with governmental bodies in the countries we operate due to the nature of business. We interact with governments at all levels ethically and transparently, and in full compliance with the law. Much of its business is regulated by local and state governments. Many countries place strict legal requirements on companies that do business with the government. When selling to, negotiating with, or working with government customers, it is critical that ACWA Power Employees abide by these requirements. As government entities are also some of ACWA Power's biggest and most important customers, how its Employees

interact with Government Officials has a significant impact on ACWA Power's credibility, reputation and success. We have the responsibility to: i. Ensure compliance with all applicable laws and regulations when a government entity is a customer. ii. Exercise special care when doing business, or interacting with the government, or third parties that interact with the Government Officials on Company's behalf. iii. Provide timely, responsive, and accurate information in connection with any regulatory reporting requirements or proceedings. iv. Never offer, promise, or give any undue monetary or other advantage, whether directly or through intermediaries, to a foreign public official for that official or for a third party. v. Do get prior, written approval from Compliance Department if you want to make any kind of promotional payment to, or receive reimbursement for, any public official's (any Government Official, political party, party official or political candidate) travel, meal or entertainment purpose. vi. Cooperate fully and honestly with any government or law enforcement inquiry or investigation. vii. Do report any violations of the Policy to the Compliance Department.

[Fixed row]

(4.12) Have you published information about your organization's response to environmental issues for this reporting year in places other than your CDP response?

Select from:

Yes

(4.12.1) Provide details on the information published about your organization's response to environmental issues for this reporting year in places other than your CDP response. Please attach the publication.

Row 1

(4.12.1.1) Publication

Select from:

In mainstream reports, in line with environmental disclosure standards or frameworks

(4.12.1.2) Standard or framework the report is in line with

Select all that apply

GRI

TCFD

(4.12.1.3) Environmental issues covered in publication

Select all that apply

- Climate change
- Water
- Biodiversity

(4.12.1.4) Status of the publication

Select from:

- Complete

(4.12.1.5) Content elements

Select all that apply

- | | |
|---|---|
| <input checked="" type="checkbox"/> Strategy | <input checked="" type="checkbox"/> Dependencies & Impacts |
| <input checked="" type="checkbox"/> Governance | <input checked="" type="checkbox"/> Water accounting figures |
| <input checked="" type="checkbox"/> Emission targets | <input checked="" type="checkbox"/> Water pollution indicators |
| <input checked="" type="checkbox"/> Emissions figures | <input checked="" type="checkbox"/> Content of environmental policies |
| <input checked="" type="checkbox"/> Risks & Opportunities | |

(4.12.1.6) Page/section reference

86-117

(4.12.1.7) Attach the relevant publication

acwa-power-integrated-annual-report-2023-en.pdf

(4.12.1.8) Comment

*We also align with the recommendations and frameworks provided by other globally respected organisations, including Sustainability Accounting Standards Board (SASB), the Taskforce on Climate-related Financial Disclosures (TCFD), the World Economic Forum (WEF) and the United Nations Global Compact (UNGC). Failed to upload the document, hence please find the link here: <https://acwapower.com/media/342175/acwa-power-integrated-annual-report-2023-en.pdf>
[Add row]*

C5. Business strategy

(5.1) Does your organization use scenario analysis to identify environmental outcomes?

Climate change

(5.1.1) Use of scenario analysis

Select from:

Yes

(5.1.2) Frequency of analysis

Select from:

Every three years or less frequently

Water

(5.1.1) Use of scenario analysis

Select from:

Yes

(5.1.2) Frequency of analysis

Select from:

Every three years or less frequently

[Fixed row]

(5.1.1) Provide details of the scenarios used in your organization's scenario analysis.

Climate change

(5.1.1.1) Scenario used

Physical climate scenarios

RCP 8.5

(5.1.1.2) Scenario used SSPs used in conjunction with scenario

Select from:

No SSP used

(5.1.1.3) Approach to scenario

Select from:

Qualitative

(5.1.1.4) Scenario coverage

Select from:

Facility

(5.1.1.5) Risk types considered in scenario

Select all that apply

Chronic physical

(5.1.1.6) Temperature alignment of scenario

Select from:

4.0°C and above

(5.1.1.7) Reference year

2021

(5.1.1.8) Timeframes covered

Select all that apply

- 2100

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

- Changes to the state of nature
- Number of ecosystems impacted
- Changes in ecosystem services provision
- Speed of change (to state of nature and/or ecosystem services)
- Climate change (one of five drivers of nature change)

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

The assessment was conducted by examining the threats to our operations, primarily focusing on various technologies, posed by climate risk elements such as extreme heat and cold. The limitations are associated with the accuracy of the actual impact, as the study was qualitative and based on the best knowledge available.

(5.1.1.11) Rationale for choice of scenario

The worst-case scenario, RCP8.5, has been selected for the physical risk assessment because physical risks are typically realized only in the long term. This approach ensures that we account for the most severe potential impacts, allowing for comprehensive risk planning and mitigation strategies.

Water

(5.1.1.1) Scenario used

Water scenarios

- WRI Aqueduct

(5.1.1.3) Approach to scenario

Select from:

- Qualitative

(5.1.1.4) Scenario coverage

Select from:

- Facility

(5.1.1.5) Risk types considered in scenario

Select all that apply

- Chronic physical

(5.1.1.7) Reference year

2023

(5.1.1.8) Timeframes covered

Select all that apply

- 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

- Changes to the state of nature
- Changes in ecosystem services provision

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

The assessment primarily focuses on water stress region where our operations located. The overall water stress map was used for the assessment, in which it might not be accurate enough to the specific site location.

(5.1.1.11) Rationale for choice of scenario

Comprehensive set of data available on Aqueduct website for the assessment

[Add row]

(5.1.2) Provide details of the outcomes of your organization's scenario analysis.

Climate change

(5.1.2.1) Business processes influenced by your analysis of the reported scenarios

Select all that apply

Risk and opportunities identification, assessment and management

Capacity building

(5.1.2.2) Coverage of analysis

Select from:

Facility

(5.1.2.3) Summarize the outcomes of the scenario analysis and any implications for other environmental issues

Through the physical climate risk assessment, risks and opportunities have been identified for each technology that ACWA Power possesses. Responses to these risks and opportunities have been formulated by the company. This approach will also enhance the climate risk assessments for future projects.

Water

(5.1.2.1) Business processes influenced by your analysis of the reported scenarios

Select all that apply

Scenario analysis has not influenced our business processes

[Fixed row]

(5.2) Does your organization's strategy include a climate transition plan?

(5.2.1) Transition plan

Select from:

- No, but we are developing a climate transition plan within the next two years

(5.2.15) Primary reason for not having a climate transition plan that aligns with a 1.5°C world

Select from:

- No standardized procedure

(5.2.16) Explain why your organization does not have a climate transition plan that aligns with a 1.5°C world

The company has set a climate target of reducing 50% of emission intensity by 2030 and net zero by 2050. Emission intensity reduction might not directly reflect on the absolute emissions, that is required to be reduced 45% by 2030 under the Paris Agreement.

[Fixed row]

(5.3) Have environmental risks and opportunities affected your strategy and/or financial planning?

(5.3.1) Environmental risks and/or opportunities have affected your strategy and/or financial planning

Select from:

- Yes, both strategy and financial planning

(5.3.2) Business areas where environmental risks and/or opportunities have affected your strategy

Select all that apply

- Products and services
- Investment in R&D

[Fixed row]

(5.3.1) Describe where and how environmental risks and opportunities have affected your strategy.

Products and services

(5.3.1.1) Effect type

Select all that apply

- Risks
- Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

- Climate change
- Water

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

ACWA Power understands the urgency of climate risk that will hugely impact the world in the coming future. We have announced our new strategy 2.0, which focuses primarily on renewable, green hydrogen, water desalination and flexible generation. Under this strategy, more than 75% of power additions will come from renewables. As a result, capital allocation and financial planning are adjusted based on this strategy. We have been switching high carbon intensive assets to lower carbon intensive assets such as switching thermal desalination to seawater reverse osmosis technology, which is able to reduce 87% specific power consumption. In addition, we have also identified the opportunities of integrating renewable energy with our desalination facility to further reduce the carbon footprint.

Investment in R&D

(5.3.1.1) Effect type

Select all that apply

- Risks
- Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

- Climate change

- Water

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

We have invested into the renewable technologies and water desalination technologies with the aim to reduce the carbon footprint of the operations, as well as improve the energy efficiency of the facilities. This will drive the cost of operations down, which indirectly will reduce the power and water tariff. Throughout 2023, we forged 24 MoUs with leading technology firms and organisations worldwide, focusing on desalination, solar PV, hydrogen, and BESS. An additional nine MoUs were secured in the first quarter of 2024. By the end of 2023, we had filed a total of 15 patents, primarily in desalination but also in green hydrogen and solar PV. Furthermore, we registered three trademarks and completed three IP sprints in the Kingdom.

[Add row]

(5.3.2) Describe where and how environmental risks and opportunities have affected your financial planning.

Row 1

(5.3.2.1) Financial planning elements that have been affected

Select all that apply

- Capital expenditures
- Capital allocation
- Acquisitions and divestments
- Assets

(5.3.2.2) Effect type

Select all that apply

- Risks
- Opportunities

(5.3.2.3) Environmental issues relevant to the risks and/or opportunities that have affected these financial planning elements

Select all that apply

Climate change

(5.3.2.4) Describe how environmental risks and/or opportunities have affected these financial planning elements

ACWA Power understands the urgency of climate risk that will hugely impact the world in the coming future. We have announced our new strategy 2.0, which focuses primarily on renewable, green hydrogen, water desalination and flexible generation. Under this strategy, more than 75% of power additions will come from renewables. As a result, capital allocation and financial planning are adjusted based on this strategy. In 2023, we have achieved 44.5% of renewable gross power capacity, aiming to reach 50% of green-brown ratio by 2030.

[Add row]

(5.4) 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
	Select from: <input checked="" type="checkbox"/> No, but we plan to in the next two years

[Fixed row]

(5.5) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

(5.5.1) Investment in low-carbon R&D

Select from:

Yes

(5.5.2) Comment

Throughout 2023, we forged 24 MoUs with leading technology firms and organisations worldwide, focusing on desalination, solar PV, hydrogen, and BESS. An additional nine MoUs were secured in the first quarter of 2024. By the end of 2023, we had filed a total of 15 patents, primarily in desalination but also in green hydrogen and solar PV. Furthermore, we registered three trademarks and completed three IP sprints in the Kingdom. In 2023, we conducted three internal innovation challenges and IP sprints, receiving and evaluating around 150 potential ideas. Additionally, we are committed to promoting innovation globally and organised four external engagements, which yielded over 100 potential ideas. We are contributing to the strategic research agenda in the Kingdom through the Ministry of Energy Innovation Programme and Research Development and Investment Authority (RDIA), which oversees research and development funding in the country. Our successful collaboration with King Abdullah University for Science and Technology (KAUST) in desalination, solar PV and hydrogen will expand to new areas, culminating in the establishment of a joint Clean Energy and Water Desalination Technologies Development Centre.

[Fixed row]

(5.5.7) Provide details of your organization's investments in low-carbon R&D for your sector activities over the last three years.

Row 1

(5.5.7.1) Technology area

Select from:

Solar energy generation

(5.5.7.2) Stage of development in the reporting year

Select from:

Large scale commercial deployment

(5.5.7.6) Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

The R&D investment cost is deemed as sensitive information that we don't disclose to public. We focused mainly on renewable technologies as well as water desalination technologies to further advance the operational efficiency, which will reduce the resource consumption and emissions.

[Add row]

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

Coal – hard

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

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

0

(5.7.3) 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

(5.7.5) Explain your CAPEX calculations, including any assumptions

No plan to invest this power generation

Lignite

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

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

0

(5.7.3) 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

(5.7.5) Explain your CAPEX calculations, including any assumptions

No plan to invest this power generation

Oil

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

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

0

(5.7.3) 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

(5.7.5) Explain your CAPEX calculations, including any assumptions

No further investment in oil

Gas

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

25

(5.7.3) 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

25

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

2023

(5.7.5) Explain your CAPEX calculations, including any assumptions

Under our new strategy, 75% power additions will be in renewables; 25% for flexible generation.

Sustainable biomass

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

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

0

(5.7.3) 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

(5.7.5) Explain your CAPEX calculations, including any assumptions

No plan to invest this power generation

Other biomass

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

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

0

(5.7.3) 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

(5.7.5) Explain your CAPEX calculations, including any assumptions

No plan to invest this power generation

Waste (non-biomass)

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

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

0

(5.7.3) 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

(5.7.5) Explain your CAPEX calculations, including any assumptions

No plan to invest this power generation

Nuclear

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

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

0

(5.7.3) 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

(5.7.5) Explain your CAPEX calculations, including any assumptions

No plan to invest this power generation

Geothermal

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

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

0

(5.7.3) 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

(5.7.5) Explain your CAPEX calculations, including any assumptions

No plan to invest this power generation

Hydropower

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

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

0

(5.7.3) 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

(5.7.5) Explain your CAPEX calculations, including any assumptions

No plan to invest this power generation

[Fixed row]

(5.7.1) Break down your total planned CAPEX in your current CAPEX plan for products and services (e.g. smart grids, digitalization, etc.).

Row 1

(5.7.1.1) Products and services

Select from:

Large-scale storage

(5.7.1.2) Description of product/service

Battery Energy Storage Systems (BESS) are rechargeable batteries that can store energy from different sources and discharge it when needed.

[Add row]

(5.9) What is the trend in your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?

	Please explain
	<i>Not able to quantify it</i>

[Fixed row]

(5.10) Does your organization use an internal price on environmental externalities?

	Use of internal pricing of environmental externalities	Primary reason for not pricing environmental externalities	Explain why your organization does not price environmental externalities
	Select from: <input checked="" type="checkbox"/> No, but we plan to in the next two years	Select from: <input checked="" type="checkbox"/> No standardized procedure	<i>Lack of standardized methodology. Too many uncertainties in quantifying the internal price for environmental externalities.</i>

[Fixed row]

(5.11) Do you engage with your value chain on environmental issues?

Suppliers

(5.11.1) Engaging with this stakeholder on environmental issues

Select from:

No, but we plan to within the next two years

(5.11.3) Primary reason for not engaging with this stakeholder on environmental issues

Select from:

Not an immediate strategic priority

(5.11.4) Explain why you do not engage with this stakeholder on environmental issues

We mainly focus on our own operating control facilities with the limited resources we have.

Customers

(5.11.1) Engaging with this stakeholder on environmental issues

Select from:

- No, but we plan to within the next two years

(5.11.3) Primary reason for not engaging with this stakeholder on environmental issues

Select from:

- Not an immediate strategic priority

(5.11.4) Explain why you do not engage with this stakeholder on environmental issues

We mainly focus on our own operating control facilities with the limited resources we have.

Investors and shareholders

(5.11.1) Engaging with this stakeholder on environmental issues

Select from:

- Yes

(5.11.2) Environmental issues covered

Select all that apply

- Climate change
- Water

Other value chain stakeholders

(5.11.1) Engaging with this stakeholder on environmental issues

Select from:

- No, but we plan to within the next two years

(5.11.3) Primary reason for not engaging with this stakeholder on environmental issues

Select from:

- Not an immediate strategic priority

(5.11.4) Explain why you do not engage with this stakeholder on environmental issues

We mainly focus on our own operating control facilities with the limited resources we have.

[Fixed row]

(5.11.9) Provide details of any environmental engagement activity with other stakeholders in the value chain.

Climate change

(5.11.9.1) Type of stakeholder

Select from:

- Investors and shareholders

(5.11.9.2) Type and details of engagement

Education/Information sharing

- Educate and work with stakeholders on understanding and measuring exposure to environmental risks
- Share information about your products and relevant certification schemes
- Share information on environmental initiatives, progress and achievements

(5.11.9.3) % of stakeholder type engaged

Select from:

- Unknown

(5.11.9.4) % stakeholder-associated scope 3 emissions

Select from:

- None

(5.11.9.5) Rationale for engaging these stakeholders and scope of engagement

To allow investors and shareholders to further understand the on-going initiatives and to be transparent which is fundamental for trust building.

(5.11.9.6) Effect of engagement and measures of success

Frequency of engagement

Water

(5.11.9.1) Type of stakeholder

Select from:

- Investors and shareholders

(5.11.9.2) Type and details of engagement

Education/Information sharing

- Educate and work with stakeholders on understanding and measuring exposure to environmental risks
- Share information about your products and relevant certification schemes
- Share information on environmental initiatives, progress and achievements

(5.11.9.3) % of stakeholder type engaged

Select from:

- Unknown

(5.11.9.5) Rationale for engaging these stakeholders and scope of engagement

To allow investors and shareholders to further understand the on-going initiatives and to be transparent which is fundamental for trust building.

(5.11.9.6) Effect of engagement and measures of success

Frequency of engagement

[Add row]

C6. Environmental Performance - Consolidation Approach

(6.1) Provide details on your chosen consolidation approach for the calculation of environmental performance data.

Climate change

(6.1.1) Consolidation approach used

Select from:

Equity share

(6.1.2) Provide the rationale for the choice of consolidation approach

We monitor, measure and report on our portfolio's absolute Scope 1 and Scope 2 emissions and the emission intensity. While our targets are based on ACWA Power's equity share in our projects, we also report total portfolio metrics.

Water

(6.1.1) Consolidation approach used

Select from:

Equity share

(6.1.2) Provide the rationale for the choice of consolidation approach

The boundary is the operational assets in which ACWA Power has equity shares and which have reached full plant Commercial Operation Date (COD).

Plastics

(6.1.1) Consolidation approach used

Select from:

Equity share

(6.1.2) Provide the rationale for the choice of consolidation approach

plastics are not currently reported as a separate waste management category

Biodiversity

(6.1.1) Consolidation approach used

Select from:

Equity share

(6.1.2) Provide the rationale for the choice of consolidation approach

*All our projects are subject to an environmental and social impact assessment (ESIA) to identify and mitigate any potential negative impacts to biodiversity and adhere to international good practice standards,
[Fixed row]*

C7. Environmental performance - Climate Change

(7.1) Is this your first year of reporting emissions data to CDP?

Select from:

Yes

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

Select all that apply

IPCC Guidelines for National Greenhouse Gas Inventories, 2006

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

The Greenhouse Gas Protocol: Scope 2 Guidance

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

	Scope 2, location-based	Scope 2, market-based	Comment
	<p>Select from:</p> <p><input checked="" type="checkbox"/> We are reporting a Scope 2, location-based figure</p>	<p>Select from:</p> <p><input checked="" type="checkbox"/> We have operations where we are able to access electricity supplier emission factors or residual emissions factors, but are unable to report a Scope 2, market-based figure</p>	<p>Scope 2 emissions covers ACWA Power's indirect emissions, for example due to purchases of steam and electricity from the grid.</p>

[Fixed row]

(7.4) 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?

Select from:

No

(7.5) Provide your base year and base year emissions.

Scope 1

(7.5.1) Base year end

12/30/2020

(7.5.2) Base year emissions (metric tons CO2e)

26800000

(7.5.3) Methodological details

We exclude the Scope 1 emissions from the owned transportation fleet (mobile fuel combustion emissions). Such emissions are not material or significant.

Scope 2 (location-based)

(7.5.1) Base year end

12/30/2020

(7.5.2) Base year emissions (metric tons CO2e)

250000

(7.5.3) Methodological details

We exclude the Scope 2 emissions from grid-supplied electricity and district heating/cooling consumption, associated with owned offices. Such emissions are not material or significant.

Scope 2 (market-based)

(7.5.3) Methodological details

Not disclosed

Scope 3 category 1: Purchased goods and services

(7.5.3) Methodological details

Not disclosed

Scope 3 category 2: Capital goods

(7.5.3) Methodological details

Not disclosed

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

(7.5.3) Methodological details

Not disclosed

Scope 3 category 4: Upstream transportation and distribution

(7.5.3) Methodological details

Not disclosed

Scope 3 category 5: Waste generated in operations

(7.5.3) Methodological details

Not disclosed

Scope 3 category 6: Business travel

(7.5.3) Methodological details

Not disclosed

Scope 3 category 7: Employee commuting

(7.5.3) Methodological details

Not disclosed

[Fixed row]

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

	Gross global Scope 1 emissions (metric tons CO2e)	End date	Methodological details
Reporting year	27790000	Date input [must be between [10/01/2015 - 10/01/2023]	Equity share basis (rounded to two decimal places in million metric tonnes)
Past year 1	26190000	12/30/2022	Equity share basis (rounded to two decimal places in million metric tonnes)
Past year 2	28000000	12/30/2021	Equity share basis (rounded to two decimal places in million metric tonnes)
Past year 3	26800000	12/30/2020	Equity share basis (rounded to two decimal places in million metric tonnes)

[Fixed row]

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

	Gross global Scope 2, location-based emissions (metric tons CO2e)	End date	Methodological details
Reporting year	530000	Date input [must be between [10/01/2015 - 10/01/2023]	Equity share basis (rounded to two decimal places in million metric tonnes)
Past year 1	280000	12/30/2022	Equity share basis (rounded to two decimal places in million metric tonnes)
Past year 2	260000	12/30/2021	Equity share basis (rounded to two decimal places in million metric tonnes)
Past year 3	250000	12/30/2020	Equity share basis (rounded to two decimal places in million metric tonnes)

[Fixed row]

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

Purchased goods and services

(7.8.1) Evaluation status

Select from:

Relevant, not yet calculated

(7.8.5) Please explain

Scope three emissions are not yet reported

Capital goods

(7.8.1) Evaluation status

Select from:

Relevant, not yet calculated

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

(7.8.1) Evaluation status

Select from:

Relevant, not yet calculated

Upstream transportation and distribution

(7.8.1) Evaluation status

Select from:

Relevant, not yet calculated

Waste generated in operations

(7.8.1) Evaluation status

Select from:

Relevant, not yet calculated

Business travel

(7.8.1) Evaluation status

Select from:

Relevant, not yet calculated

Employee commuting

(7.8.1) Evaluation status

Select from:

Relevant, not yet calculated

Upstream leased assets

(7.8.1) Evaluation status

Select from:

Not evaluated

Downstream transportation and distribution

(7.8.1) Evaluation status

Select from:

Not evaluated

Processing of sold products

(7.8.1) Evaluation status

Select from:

Not evaluated

[Fixed row]

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

	Verification/assurance status
Scope 1	<i>Select from:</i> <input checked="" type="checkbox"/> Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	<i>Select from:</i> <input checked="" type="checkbox"/> Third-party verification or assurance process in place
Scope 3	<i>Select from:</i> <input checked="" type="checkbox"/> No emissions data provided

[Fixed row]

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

Row 1

(7.9.1.1) Verification or assurance cycle in place

Select from:

Annual process

(7.9.1.2) Status in the current reporting year

Select from:

Complete

(7.9.1.3) Type of verification or assurance

Select from:

Limited assurance

(7.9.1.4) Attach the statement

acwa-power-integrated-annual-report-2023-en.pdf

(7.9.1.5) Page/section reference

See integrated annual report pp 244-253

(7.9.1.6) Relevant standard

Select from:

ISAE 3410

(7.9.1.7) Proportion of reported emissions verified (%)

100

Row 2

(7.9.1.1) Verification or assurance cycle in place

Select from:

Annual process

(7.9.1.2) Status in the current reporting year

Select from:

Complete

(7.9.1.3) Type of verification or assurance

Select from:

Limited assurance

(7.9.1.4) Attach the statement

(7.9.1.5) Page/section reference

Integrated annual report – page 244 - 253

(7.9.1.6) Relevant standard

Select from:

ISAE3000

(7.9.1.7) Proportion of reported emissions verified (%)

100

[Add row]

(7.9.2) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.

Row 1

(7.9.2.1) Scope 2 approach

Select from:

Scope 2 location-based

(7.9.2.2) Verification or assurance cycle in place

Select from:

Annual process

(7.9.2.3) Status in the current reporting year

Select from:

Complete

(7.9.2.4) Type of verification or assurance

Select from:

Limited assurance

(7.9.2.5) Attach the statement

acwa-power-integrated-annual-report-2023-en.pdf

(7.9.2.6) Page/ section reference

Integrated annual report – page 244 - 253

(7.9.2.7) Relevant standard

Select from:

ISAE3000

(7.9.2.8) Proportion of reported emissions verified (%)

100

Row 2

(7.9.2.1) Scope 2 approach

Select from:

Scope 2 location-based

(7.9.2.2) Verification or assurance cycle in place

Select from:

Annual process

(7.9.2.3) Status in the current reporting year

Select from:

Complete

(7.9.2.4) Type of verification or assurance

Select from:

Limited assurance

(7.9.2.5) Attach the statement

acwa-power-integrated-annual-report-2023-en.pdf

(7.9.2.6) Page/ section reference

Integrated annual report – page 244 - 253

(7.9.2.7) Relevant standard

Select from:

ISAE 3410

(7.9.2.8) Proportion of reported emissions verified (%)

100

[Add row]

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

Select from:

Increased

(7.10.1) 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 output

(7.10.1.1) Change in emissions (metric tons CO2e)

4818595

(7.10.1.2) Direction of change in emissions

Select from:

Increased

(7.10.1.3) Emissions value (percentage)

6

(7.10.1.4) Please explain calculation

electricity gross generation in 2022 45,248,063 MWh. In 2023 this increased to 50,066,658 MWh. Total emissions increased from 26.19 Mt CO2e to 27.79 Mt CO2e (a 6% on the 2022 emissions).

[Fixed row]

(7.10.2) Are your emissions performance calculations in 7.10 and 7.10.1 based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Select from:

Location-based

(7.12) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

Select from:

No

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

Select from:

Yes

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

Row 1

(7.15.1.1) Greenhouse gas

Select from:

CO2

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

27200000

(7.15.1.3) GWP Reference

Select from:

IPCC Sixth Assessment Report (AR6 - 100 year)

Row 2

(7.15.1.1) Greenhouse gas

Select from:

CH4

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

765.54

(7.15.1.3) GWP Reference

Select from:

IPCC Sixth Assessment Report (AR6 - 100 year)

Row 3

(7.15.1.1) Greenhouse gas

Select from:

N2O

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

128.51

(7.15.1.3) GWP Reference

Select from:

IPCC Sixth Assessment Report (AR6 - 100 year)

[Add row]

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

Fugitives

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

0

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

0

(7.15.3.3) Gross Scope 1 SF6 emissions (metric tons SF6)

0

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

0

(7.15.3.5) Comment

Not included as it is not significant

Combustion (Electric utilities)

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

0

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

0

(7.15.3.3) Gross Scope 1 SF6 emissions (metric tons SF6)

0

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

0

(7.15.3.5) Comment

No import of grid for scope 1

Combustion (Gas utilities)

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

13800000

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

246

(7.15.3.3) Gross Scope 1 SF6 emissions (metric tons SF6)

0

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

13810000

(7.15.3.5) Comment

Natural gas combustion

Combustion (Other)

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

13400000

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

519.6

(7.15.3.3) Gross Scope 1 SF6 emissions (metric tons SF6)

0

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

13450000

(7.15.3.5) Comment

Fuel oil combustion for electricity

Emissions not elsewhere classified

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

0

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

0

(7.15.3.3) Gross Scope 1 SF6 emissions (metric tons SF6)

0

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

0

(7.15.3.5) Comment

N/A

[Fixed row]

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

Azerbaijan

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

Bahrain

(7.16.1) Scope 1 emissions (metric tons CO2e)

1700000

Egypt

(7.16.1) Scope 1 emissions (metric tons CO2e)

434

Jordan

(7.16.1) Scope 1 emissions (metric tons CO2e)

800000

Morocco

(7.16.1) Scope 1 emissions (metric tons CO2e)

1186

Oman

(7.16.1) Scope 1 emissions (metric tons CO2e)

2798759

Saudi Arabia

(7.16.1) Scope 1 emissions (metric tons CO2e)

20944961

South Africa

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

Turkey

(7.16.1) Scope 1 emissions (metric tons CO2e)

886135

United Arab Emirates

(7.16.1) Scope 1 emissions (metric tons CO2e)

662875

Uzbekistan

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

[Fixed row]

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

Select all that apply

By activity

(7.17.3) Break down your total gross global Scope 1 emissions by business activity.

	Activity	Scope 1 emissions (metric tons CO2e)
Row 1	<i>electricity production</i>	24889660
Row 2	<i>water desalination (thermal desalination)</i>	1888770
Row 3	<i>steam production</i>	483760

[Add row]

(7.19) 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	24889660	<i>includes emissions from combustion of natural gas, fuel oil (no coal as this has been stopped).</i>

[Fixed row]

(7.22) Break down your gross Scope 1 and Scope 2 emissions between your consolidated accounting group and other entities included in your response.

	Scope 1 emissions (metric tons CO2e)	Scope 2, location-based emissions (metric tons CO2e)	Please explain
Consolidated accounting group	27262196	530000	<i>This includes all the assets included in the financial reporting based on IFRS.</i>
All other entities	0	0	<i>All assets have been included in the emission calculation.</i>

[Fixed row]

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

Select from:

No

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

Select from:

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

(7.30) 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)	Select from: <input checked="" type="checkbox"/> Yes
Consumption of purchased or acquired electricity	Select from:

	Indicate whether your organization undertook this energy-related activity in the reporting year
	<input checked="" type="checkbox"/> Yes
Consumption of purchased or acquired heat	Select from: <input checked="" type="checkbox"/> No
Consumption of purchased or acquired steam	Select from: <input checked="" type="checkbox"/> No
Consumption of purchased or acquired cooling	Select from: <input checked="" type="checkbox"/> No
Generation of electricity, heat, steam, or cooling	Select from: <input checked="" type="checkbox"/> Yes

[Fixed row]

(7.30.1) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

Consumption of fuel (excluding feedstock)

(7.30.1.1) Heating value

Select from:

HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

0

(7.30.1.3) MWh from non-renewable sources

116436091

(7.30.1.4) Total (renewable and non-renewable) MWh

116436091

Consumption of purchased or acquired electricity

(7.30.1.1) Heating value

Select from:

Unable to confirm heating value

(7.30.1.2) MWh from renewable sources

0

(7.30.1.3) MWh from non-renewable sources

953493.51

(7.30.1.4) Total (renewable and non-renewable) MWh

953493.51

Consumption of self-generated non-fuel renewable energy

(7.30.1.1) Heating value

Select from:

Unable to confirm heating value

(7.30.1.2) MWh from renewable sources

176205

(7.30.1.4) Total (renewable and non-renewable) MWh

176205

Total energy consumption

(7.30.1.1) Heating value

Select from:

HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

176205

(7.30.1.3) MWh from non-renewable sources

117389584

(7.30.1.4) Total (renewable and non-renewable) MWh

117565790

[Fixed row]

(7.30.6) 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	Select from: <input checked="" type="checkbox"/> Yes

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of heat	Select from: <input checked="" type="checkbox"/> No
Consumption of fuel for the generation of steam	Select from: <input checked="" type="checkbox"/> Yes
Consumption of fuel for the generation of cooling	Select from: <input checked="" type="checkbox"/> No
Consumption of fuel for co-generation or tri-generation	Select from: <input checked="" type="checkbox"/> No

[Fixed row]

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

Sustainable biomass

(7.30.7.2) Total fuel MWh consumed by the organization

0

Other biomass

(7.30.7.2) Total fuel MWh consumed by the organization

0

Other renewable fuels (e.g. renewable hydrogen)

(7.30.7.2) Total fuel MWh consumed by the organization

0

Coal

(7.30.7.2) Total fuel MWh consumed by the organization

0

Oil

(7.30.7.1) Heating value

Select from:

HHV

(7.30.7.2) Total fuel MWh consumed by the organization

48107571

(7.30.7.8) Comment

We do not know the breakdown

Gas

(7.30.7.1) Heating value

Select from:

HHV

(7.30.7.2) Total fuel MWh consumed by the organization

68328519

(7.30.7.8) Comment

We do not know the breakdown

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

(7.30.7.2) Total fuel MWh consumed by the organization

0

Total fuel

(7.30.7.1) Heating value

Select from:

HHV

(7.30.7.2) Total fuel MWh consumed by the organization

116436091

[Fixed row]

(7.30.16) Provide a breakdown by country/area of your electricity/heat/steam/cooling consumption in the reporting year.

Azerbaijan

(7.30.16.1) Consumption of purchased electricity (MWh)

0

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

0.00

Bahrain

(7.30.16.1) Consumption of purchased electricity (MWh)

0

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

0.00

Egypt

(7.30.16.1) Consumption of purchased electricity (MWh)

2612

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

2612.00

Jordan

(7.30.16.1) Consumption of purchased electricity (MWh)

1399

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

1399.00

Morocco

(7.30.16.1) Consumption of purchased electricity (MWh)

2647

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

2647.00

Oman

(7.30.16.1) Consumption of purchased electricity (MWh)

203469

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

203469.00

Saudi Arabi

(7.30.16.1) Consumption of purchased electricity (MWh)

1063714

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

1063714.00

South Africa

(7.30.16.1) Consumption of purchased electricity (MWh)

0

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

0.00

Turkey

(7.30.16.1) Consumption of purchased electricity (MWh)

0

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

0.00

United Arab Emirates

(7.30.16.1) Consumption of purchased electricity (MWh)

644804

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

644804.00

Uzbekistan

(7.30.16.1) Consumption of purchased electricity (MWh)

0

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

0.00

[Fixed row]

(7.33) Does your electric utility organization have a transmission and distribution business?

Select from:

No

(7.45) 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.

Row 1

(7.45.1) Intensity figure

0.00456

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

27790000

(7.45.3) Metric denominator

Select from:

unit total revenue

(7.45.4) Metric denominator: Unit total

6095010000

(7.45.5) Scope 2 figure used

Select from:

Location-based

(7.45.6) % change from previous year

8.06

(7.45.7) Direction of change

Select from:

Decreased

(7.45.8) Reasons for change

Select all that apply

Change in revenue

(7.45.9) Please explain

absolute CO₂e emissions increased from 26.19 Mt in 2022 to 27.79 Mt in 2023 (6% increase) while revenue increased from 5,275,930 thousand SAR in 2022 to 6,095,101 thousand SAR in 2023 (15.5% increase)

[Add row]

(7.46) For your electric utility activities, provide a breakdown of your Scope 1 emissions and emissions intensity relating to your total power plant capacity and generation during the reporting year by source.

Oil

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

13448534

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

Gross

(7.46.3) Scope 1 emissions intensity (Gross generation)

1291.27

(7.46.4) Scope 1 emissions intensity (Net generation)

1482.59

Gas

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

13813662

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

Gross

(7.46.3) Scope 1 emissions intensity (Gross generation)

396.78

(7.46.4) Scope 1 emissions intensity (Net generation)

409.67

Wind

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

0

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

Gross

(7.46.3) Scope 1 emissions intensity (Gross generation)

0.00

(7.46.4) Scope 1 emissions intensity (Net generation)

0.00

Solar

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

0

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

Gross

(7.46.3) Scope 1 emissions intensity (Gross generation)

0.00

(7.46.4) Scope 1 emissions intensity (Net generation)

0.00

Total

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

27262196

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

Gross

(7.46.3) Scope 1 emissions intensity (Gross generation)

551.62

[Fixed row]

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

Row 1

(7.52.1) Description

Select from:

Waste

(7.52.2) Metric value

29

(7.52.3) Metric numerator

Recycled and reused waste (%)

(7.52.4) Metric denominator (intensity metric only)

Waste generation

(7.52.5) % change from previous year

11

(7.52.6) Direction of change

Select from:

Decreased

(7.52.7) Please explain

While ACWA Power kept recycling levels stable, with no significant change in quantity, there was a notable increase in non-hazardous material compared to last year that led to lowering the overall recycle percentage, attributed to new plants entering operation.

Row 2

(7.52.1) Description

Select from:

Other, please specify :Total portfolio gross renewable capacity

(7.52.2) Metric value

44.5

(7.52.3) Metric numerator

Renewable capacity

(7.52.4) Metric denominator (intensity metric only)

Total power capacity

(7.52.5) % change from previous year

5.5

(7.52.6) Direction of change

Select from:

Increased

(7.52.7) Please explain

The renewable power capacity in 2022 was 39%, it has increased to 44.5% in 2023.

[Add row]

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

Select all that apply

Intensity target

(7.53.2) Provide details of your emissions intensity targets and progress made against those targets.

Row 1

(7.53.2.1) Target reference number

Select from:

Int 1

(7.53.2.2) Is this a science-based target?

Select from:

No, and we do not anticipate setting one in the next two years

(7.53.2.5) Date target was set

12/30/2022

(7.53.2.6) Target coverage

Select from:

Business activity

(7.53.2.7) Greenhouse gases covered by target

Select all that apply

Carbon dioxide (CO2)

Methane (CH4)

Nitrous oxide (N2O)

(7.53.2.8) Scopes

Select all that apply

Scope 1

Scope 2

(7.53.2.9) Scope 2 accounting method

Select from:

Location-based

(7.53.2.11) Intensity metric

Select from:

Metric tons CO2e per megawatt hour (MWh)

(7.53.2.12) End date of base year

12/30/2020

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

0.533821

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

0.000043

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

0.5338640000

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

92

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

1

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

91

(7.53.2.55) End date of target

12/30/2030

(7.53.2.56) Targeted reduction from base year (%)

50

(7.53.2.57) Intensity figure at end date of target for all selected Scopes (metric tons CO2e per unit of activity)

0.2669320000

(7.53.2.58) % change anticipated in absolute Scope 1+2 emissions

40

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

0.49713

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

0.00012

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

0.4972500000

(7.53.2.81) Land-related emissions covered by target

Select from:

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.2.82) % of target achieved relative to base year

13.72

(7.53.2.83) Target status in reporting year

Select from:

Underway

(7.53.2.85) Explain target coverage and identify any exclusions

The target is relating to the emissions relevant to power generation. Water desalination which accounts roughly

(7.53.2.86) Target objective

To ensure we continuously improve our efficiency and reducing our product's carbon footprint.

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

Initiatives to reduce emissions from our assets are undertaken in two key areas: (i) reducing fuel consumption by lowering the heat rate of our thermal plants and the specific consumption at our desalination plants, and (ii) increasing renewable energy production. Our key initiatives include: • Convert the oil-fired Shuaibah IWPP project, which is one of our largest CO2 emitters, to a new plant that will be powered by a mix of electricity from the grid and 53 MW of captive renewable power. This will be operational in 2025. • We are engaging with the offtaker to convert one of our three other ACWA Power oil-fired projects to gas. The other two are integrated with oil-refining complexes and this makes such a conversion challenging at this stage. ACWA Power will continue to monitor all possible solutions to efficiently reduce the environmental impact of these plants.

(7.53.2.88) Target derived using a sectoral decarbonization approach

Select from:

No

[Add row]

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

Select all that apply

Net-zero targets

Other climate-related targets

(7.54.2) Provide details of any other climate-related targets, including methane reduction targets.

Row 1

(7.54.2.1) Target reference number

Select from:

Oth 1

(7.54.2.2) Date target was set

12/30/2022

(7.54.2.3) Target coverage

Select from:

Organization-wide

(7.54.2.4) Target type: absolute or intensity

Select from:

Absolute

(7.54.2.5) Target type: category & Metric (target numerator if reporting an intensity target)

Energy productivity

Other, energy productivity, please specify :Renewable capacity

(7.54.2.7) End date of base year

12/30/2020

(7.54.2.8) Figure or percentage in base year

28

(7.54.2.9) End date of target

12/30/2030

(7.54.2.10) Figure or percentage at end of date of target

50

(7.54.2.11) Figure or percentage in reporting year

44.5

(7.54.2.12) % of target achieved relative to base year

75.0000000000

(7.54.2.13) Target status in reporting year

Select from:

Underway

(7.54.2.15) Is this target part of an emissions target?

This can contribute to reducing the overall carbon footprint of portfolios.

(7.54.2.16) Is this target part of an overarching initiative?

Select all that apply

No, it's not part of an overarching initiative

(7.54.2.18) Please explain target coverage and identify any exclusions

The target covers all renewable power portfolio in operations, under construction and advanced development.

(7.54.2.19) Target objective

To expand renewable business and diversify fossil fuel investments

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

In the reporting year 2023 alone, we have added 7.1 GW renewable power into our portfolio, which is an increase of 40% from 2022. The total renewable capacity is shown below: 2020: 11.5 GW 2021: 14.8 GW 2022: 17.4 GW 2023: 24.5 GW

[Add row]

(7.54.3) Provide details of your net-zero target(s).

Row 1

(7.54.3.1) Target reference number

Select from:

NZ1

(7.54.3.2) Date target was set

12/30/2022

(7.54.3.3) Target Coverage

Select from:

Business activity

(7.54.3.4) Targets linked to this net zero target

Select all that apply

Abs1

Abs2

(7.54.3.5) End date of target for achieving net zero

12/30/2050

(7.54.3.6) Is this a science-based target?

Select from:

No, and we do not anticipate setting one in the next two years

(7.54.3.8) Scopes

Select all that apply

- Scope 1
- Scope 2

(7.54.3.9) Greenhouse gases covered by target

Select all that apply

- Carbon dioxide (CO2)
- Methane (CH4)
- Nitrous oxide (N2O)

(7.54.3.10) Explain target coverage and identify any exclusions

The target is to reduce 100% of our owned Scope 1 and Scope 2 emissions. Scope 3 emissions are excluded in this target.

(7.54.3.11) Target objective

To reduce absolute emissions and be in line with Paris Agreement.

(7.54.3.12) Do you intend to neutralize any residual emissions with permanent carbon removals at the end of the target?

Select from:

- Unsure

(7.54.3.13) Do you plan to mitigate emissions beyond your value chain?

Select from:

- No, and we do not plan to within the next two years

(7.54.3.17) Target status in reporting year

Select from:

- Underway

(7.54.3.19) Process for reviewing target

This long term target will determine our corporate strategy moving towards 2050. Due to this, we have revised our strategy 2.0, under this plan, more than 75% of power additions will be from renewable. This will slowly increase towards 2050.

[Add row]

(7.55) 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.

Select from:

Yes

(7.55.1) 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
Under investigation	0
To be implemented	0
Implementation commenced	2
Implemented	2
Not to be implemented	0

[Fixed row]

(7.55.2) Provide details on the initiatives implemented in the reporting year in the table below.

Row 1

(7.55.2.1) Initiative category & Initiative type

Low-carbon energy consumption

- Solar PV

(7.55.2.2) Estimated annual CO2e savings (metric tonnes CO2e)

196306

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

Select all that apply

- Scope 1

(7.55.2.4) Voluntary/Mandatory

Select from:

- Voluntary

(7.55.2.8) Estimated lifetime of the initiative

Select from:

- 16-20 years

(7.55.2.9) Comment

The initiative is to integrate solar PV within SWRO facilities to cut net carbon emissions. Since water desalination is an energy intensive process, it is not feasible to replace energy source completely with renewable energy. However, we have integrated captive renewable power to substitute a portion of the energy consumption. These initiatives have implemented in four desalination plants. And it is used to test the robustness and reliability for the potential future scale up. We have not been able to calculate exact cost of saving, however, Solar PV panels generate electricity at a lower cost compared to grid-supplied electricity cost. This should contribute to a positive return, but the cost of investment is excluded in this analysis.

Row 2

(7.55.2.1) Initiative category & Initiative type

Low-carbon energy consumption

Other, please specify :Conversion from coal to gas

(7.55.2.2) Estimated annual CO2e savings (metric tonnes CO2e)

3000000

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

Select all that apply

Scope 1

(7.55.2.4) Voluntary/Mandatory

Select from:

Voluntary

(7.55.2.8) Estimated lifetime of the initiative

Select from:

16-20 years

(7.55.2.9) Comment

Hassyan IPP, UAE, saving 30 million tonnes of CO2 by 2030, by converting from coal to gas.

Row 3

(7.55.2.1) Initiative category & Initiative type

Non-energy industrial process emissions reductions

Process equipment replacement

(7.55.2.2) Estimated annual CO2e savings (metric tonnes CO2e)

9000000

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

Select all that apply

Scope 1

(7.55.2.4) Voluntary/Mandatory

Select from:

Voluntary

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

3000000000

(7.55.2.8) Estimated lifetime of the initiative

Select from:

16-20 years

(7.55.2.9) Comment

ACWA Power is converting this oil-fired thermal IWPP into a energy efficient 600,000 m3/day SWRO project by integrating 65 MWp PV replacing boilers and MSF technology. This will lead to an 87% reduction in power consumption and a saving of nine million tonnes of CO2/year by avoiding fuel consumption of 22 million barrels/year. The plant will be operational in 2025.

[Add row]

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

Row 1

(7.55.3.1) Method

Select from:

- Financial optimization calculations

(7.55.3.2) Comment

The initiative will undergo a series of studies to assess the feasibility and implementation difficulties. Once reviewed, it will be included in the plan. Stakeholder engagement is crucial, as we are project developers and operators, but the products will be sent to off-takers. We will need to discuss all necessary initiatives with the off-takers.

[Add row]

(7.58) Describe your organization's efforts to reduce methane emissions from your activities.

Initiative 1: Increasing our investment in renewable energy which do not produce methane. Initiative 2: Enhancing the efficiency of existing thermal power plants to reduce the amount of natural gas used per unit of electricity generated, thereby reducing methane emissions associated with gas extraction and transport.

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

Select from:

- Yes

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

Row 1

(7.74.1.1) Level of aggregation

Select from:

- Group of products or services

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

Select from:

(7.74.1.3) Type of product(s) or service(s)

Power

- Solar PV

(7.74.1.4) Description of product(s) or service(s)

Photovoltaic (PV) solar panels convert sunlight directly into electricity using semiconducting materials such as silicon. When sunlight hits the solar cells, it excites electrons, creating an electric current. This technology is used in a variety of applications, from small-scale installations on residential rooftops to large-scale solar farms that contribute significantly to grid power. PV systems are popular due to their ability to harness renewable energy, reduce dependence on fossil fuels, and decrease greenhouse gas emissions. They are also scalable and can be installed almost anywhere that receives sunlight, making them a versatile solution for sustainable energy generation.

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

Select from:

- Yes

(7.74.1.6) Methodology used to calculate avoided emissions

Select from:

- Other, please specify :ACM0002: Consolidated Methodology for Grid-connected electricity generation from renewable sources, Version 22.0,' a framework developed by the UNFCCC

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

Select from:

- Use stage

(7.74.1.8) Functional unit used

Operating greenfield solar PV plant with actual power export of 6114804MWh in 2023 vs national grid supplied of 6114804MWh electricity. (whole year of 2023)

(7.74.1.9) Reference product/service or baseline scenario used

National grid supply

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

Select from:

Use stage

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

3330000

(7.74.1.12) Explain your calculation of avoided emissions, including any assumptions

The calculation is based on actual power export by PV solar plant in 2023. All PV solar plant are greenfield. The formula used is Emissions Reduction Baseline emissions - Project emissions - Leakage emission. Leakage emission is assumed to be zero.

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

10

Row 2

(7.74.1.1) Level of aggregation

Select from:

Group of products or services

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

Select from:

The IEA Energy Technology Perspectives Clean Energy Technology Guide

(7.74.1.3) Type of product(s) or service(s)

Power

Solar tower

(7.74.1.4) Description of product(s) or service(s)

Concentrated Solar Power (CSP) systems use mirrors or lenses to concentrate a large area of sunlight onto a small area. The concentrated light is then used as heat, which can be stored and used to produce electricity. Unlike photovoltaic (PV) systems that convert light directly into electricity, CSP uses heat, which can be stored for several hours, allowing for power generation even when the sun is not shining. This makes CSP particularly useful for providing stable, dispatchable power. CSP plants are typically large and are best suited for locations with high direct sunlight.

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

Select from:

Yes

(7.74.1.6) Methodology used to calculate avoided emissions

Select from:

Other, please specify :ACM0002: Consolidated Methodology for Grid-connected electricity generation from renewable sources, Version 22.0,' a framework developed by the UNFCCC

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

Select from:

Use stage

(7.74.1.8) Functional unit used

Operating greenfield CSP plant with actual power export of 2478264MWh in 2023 vs national grid supplied of 2478264MWh electricity. (whole year of 2023)

(7.74.1.9) Reference product/service or baseline scenario used

National grid supply

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

Select from:

Use stage

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

1740000

(7.74.1.12) Explain your calculation of avoided emissions, including any assumptions

The calculation is based on actual power export by CSP plant in 2023. All plants are greenfield. The formula used is Emissions Reduction = Baseline emissions - Project emissions - Leakage emission. Leakage emission is assumed to be zero.

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

15

Row 3

(7.74.1.1) Level of aggregation

Select from:

Group of products or services

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

Select from:

The IEA Energy Technology Perspectives Clean Energy Technology Guide

(7.74.1.3) Type of product(s) or service(s)

Power

Onshore wind

(7.74.1.4) Description of product(s) or service(s)

Onshore wind farms harness the kinetic energy of the wind to generate electricity

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

Select from:

Yes

(7.74.1.6) Methodology used to calculate avoided emissions

Select from:

Other, please specify :ACM0002: Consolidated Methodology for Grid-connected electricity generation from renewable sources, Version 22.0,' a framework developed by the UNFCCC

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

Select from:

Use stage

(7.74.1.8) Functional unit used

Operating greenfield wind plant with actual power export of 324908MWh in 2023 vs national grid supplied of 324908MWh electricity. (whole year of 2023)

(7.74.1.9) Reference product/service or baseline scenario used

National grid supply

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

Select from:

Use stage

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

240000

(7.74.1.12) Explain your calculation of avoided emissions, including any assumptions

The calculation is based on actual power export by wind plant in 2023. All plants are greenfield. The formula used is Emissions Reduction = Baseline emissions - Project emissions - Leakage emission. Leakage emission is assumed to be zero.

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

1

[Add row]

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

Select from:

No

C9. Environmental performance - Water security

(9.1) Are there any exclusions from your disclosure of water-related data?

Select from:

No

(9.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

Water withdrawals – total volumes

(9.2.1) % of sites/facilities/operations

Select from:

100%

(9.2.2) Frequency of measurement

Select from:

Daily

(9.2.3) Method of measurement

Meter / Tank volume

(9.2.4) Please explain

The water withdrawal is measured with a meter, or in the presence of meter, the tank volume is measured in a daily basis.

Water withdrawals – volumes by source

(9.2.1) % of sites/facilities/operations

Select from:

100%

(9.2.2) Frequency of measurement

Select from:

Daily

(9.2.3) Method of measurement

Meter / Tank volume

(9.2.4) Please explain

The water withdrawal is measured with a meter, or in the presence of meter, the tank volume is measured in a daily basis.

Water withdrawals quality

(9.2.1) % of sites/facilities/operations

Select from:

100%

(9.2.2) Frequency of measurement

Select from:

Continuously

(9.2.3) Method of measurement

Meter

(9.2.4) Please explain

It is essential to know the quality of water for its usage.

Water discharges – total volumes

(9.2.1) % of sites/facilities/operations

Select from:

100%

(9.2.2) Frequency of measurement

Select from:

Daily

(9.2.3) Method of measurement

Meter / Tank volume

(9.2.4) Please explain

It is measured with a meter, or in the presence of meter, the tank volume is measured in a daily basis.

Water discharges – volumes by destination

(9.2.1) % of sites/facilities/operations

Select from:

100%

(9.2.2) Frequency of measurement

Select from:

Daily

(9.2.3) Method of measurement

Meter/ Tank

(9.2.4) Please explain

Discharge pipeline location is known to the operations.

Water discharges – volumes by treatment method

(9.2.1) % of sites/facilities/operations

Select from:

Not monitored

(9.2.4) Please explain

Unknown

Water discharge quality – by standard effluent parameters

(9.2.1) % of sites/facilities/operations

Select from:

Not monitored

(9.2.4) Please explain

Unknown

Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances)

(9.2.1) % of sites/facilities/operations

Select from:

Not monitored

(9.2.4) Please explain

Unknown

Water discharge quality – temperature

(9.2.1) % of sites/facilities/operations

Select from:

100%

(9.2.2) Frequency of measurement

Select from:

Continuously

(9.2.3) Method of measurement

Meter

(9.2.4) Please explain

It is essential to monitor the temperature released to the source as one of the monitoring metrics under Environmental Management System

Water consumption – total volume

(9.2.1) % of sites/facilities/operations

Select from:

100%

(9.2.2) Frequency of measurement

Select from:

Daily

(9.2.3) Method of measurement

Calculated

(9.2.4) Please explain

Water withdrawal - water discharge

Water recycled/reused

(9.2.1) % of sites/facilities/operations

Select from:

Not monitored

(9.2.4) Please explain

We do have water recycling in the operating sites but the detailed information is unknown.

The provision of fully-functioning, safely managed WASH services to all workers

(9.2.1) % of sites/facilities/operations

Select from:

Not monitored

(9.2.4) Please explain

The detail is unknown

[Fixed row]

(9.2.2) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, how do they compare to the previous reporting year, and how are they forecasted to change?

Total withdrawals

(9.2.2.1) Volume (megaliters/year)

14714281.2

(9.2.2.2) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.2.2.6) Please explain

2023 was the first year we report the water data

Total discharges

(9.2.2.1) Volume (megaliters/year)

13207532.5

(9.2.2.2) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.2.2.6) Please explain

2023 was the first year we report the water data

Total consumption

(9.2.2.1) Volume (megaliters/year)

1506748.69

(9.2.2.2) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.2.2.6) Please explain

2023 was the first year we report the water data

[Fixed row]

(9.2.4) Indicate whether water is withdrawn from areas with water stress, provide the volume, how it compares with the previous reporting year, and how it is forecasted to change.

(9.2.4.1) Withdrawals are from areas with water stress

Select from:

Yes

(9.2.4.2) Volume withdrawn from areas with water stress (megaliters)

8764.6

(9.2.4.3) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.2.4.4) Primary reason for comparison with previous reporting year

Select from:

Unknown

(9.2.4.5) Five-year forecast

Select from:

- About the same

(9.2.4.6) Primary reason for forecast

Select from:

- Other, please specify :Most operations use seawater instead of freshwater

(9.2.4.7) % of total withdrawals that are withdrawn from areas with water stress

0.06

(9.2.4.8) Identification tool

Select all that apply

- Other, please specify :ESIA baseline studies

(9.2.4.9) Please explain

*This is the first year that we are reporting a breakdown of water volumes
[Fixed row]*

(9.2.7) Provide total water withdrawal data by source.

Fresh surface water, including rainwater, water from wetlands, rivers, and lakes

(9.2.7.1) Relevance

Select from:

- Relevant

(9.2.7.2) Volume (megaliters/year)

7474.3

(9.2.7.3) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:

Unknown

(9.2.7.5) Please explain

This is the first year that we are reporting detailed water data

Brackish surface water/Seawater

(9.2.7.1) Relevance

Select from:

Relevant

(9.2.7.2) Volume (megaliters/year)

14705516

(9.2.7.3) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:

Unknown

(9.2.7.5) Please explain

This is the first year that we are reporting detailed water data

Groundwater – renewable

(9.2.7.1) Relevance

Select from:

Not relevant

(9.2.7.5) Please explain

Not relevant

Groundwater – non-renewable

(9.2.7.1) Relevance

Select from:

Relevant

(9.2.7.2) Volume (megaliters/year)

185.8

(9.2.7.3) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:

Unknown

(9.2.7.5) Please explain

This is the first year that we are reporting detailed water data

Produced/Entrained water

(9.2.7.1) Relevance

Select from:

Not relevant

(9.2.7.5) Please explain

Not relevant

Third party sources

(9.2.7.1) Relevance

Select from:

Relevant

(9.2.7.2) Volume (megaliters/year)

1104.6

(9.2.7.3) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:

Unknown

(9.2.7.5) Please explain

This is the first year that we are reporting detailed water data
[Fixed row]

(9.2.8) Provide total water discharge data by destination.

Fresh surface water

(9.2.8.1) Relevance

Select from:

Relevant

(9.2.8.2) Volume (megaliters/year)

1972.7

(9.2.8.3) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.2.8.4) Primary reason for comparison with previous reporting year

Select from:

Unknown

(9.2.8.5) Please explain

This is the first year that we are reporting detailed water data

Brackish surface water/seawater

(9.2.8.1) Relevance

Select from:

Relevant

(9.2.8.2) Volume (megaliters/year)

13205559

(9.2.8.3) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.2.8.4) Primary reason for comparison with previous reporting year

Select from:

Unknown

(9.2.8.5) Please explain

This is the first year that we are reporting detailed water data

Groundwater

(9.2.8.1) Relevance

Select from:

Not relevant

(9.2.8.5) Please explain

No discharge

Third-party destinations

(9.2.8.1) Relevance

Select from:

Not relevant

(9.2.8.5) Please explain

No discharge

[Fixed row]

(9.3) In your direct operations and upstream value chain, what is the number of facilities where you have identified substantive water-related dependencies, impacts, risks, and opportunities?

Direct operations

(9.3.1) Identification of facilities in the value chain stage

Select from:

Yes, we have assessed this value chain stage and identified facilities with water-related dependencies, impacts, risks, and opportunities

(9.3.2) Total number of facilities identified

16

(9.3.3) % of facilities in direct operations that this represents

Select from:

26-50

(9.3.4) Please explain

We have identified water-related dependencies, impacts, risks, and opportunities in 16 of our 41 operating assets. This means that approximately 39% of our facilities have potential for reducing their freshwater impact.

Upstream value chain

(9.3.1) Identification of facilities in the value chain stage

Select from:

No, we have not assessed this value chain stage for facilities with water-related dependencies, impacts, risks, and opportunities, but we are planning to do so in the next 2 years

(9.3.4) Please explain

Not assessed

[Fixed row]

(9.3.1) For each facility referenced in 9.3, provide coordinates, water accounting data, and a comparison with the previous reporting year.

Row 1

(9.3.1.1) Facility reference number

Select from:

Facility 1

(9.3.1.2) Facility name (optional)

Ibri 1 IPP

(9.3.1.3) Value chain stage

Select from:

Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

- Dependencies
- Impacts
- Risks
- Opportunities

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

- Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Oman

- Other, please specify :no river nearby

(9.3.1.8) Latitude

23.38406

(9.3.1.9) Longitude

56.24212

(9.3.1.10) Located in area with water stress

Select from:

- Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

- Gas

(9.3.1.13) Total water withdrawals at this facility (megaliters)

1077

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

1077

(9.3.1.21) Total water discharges at this facility (megaliters)

293

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.23) Discharges to fresh surface water

293

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

784

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

The water source is coming from government (we do not know the source of their water) and discharge to the surface water nearby.

Row 2

(9.3.1.1) Facility reference number

Select from:

- Facility 2

(9.3.1.2) Facility name (optional)

Salalah 1 IPP

(9.3.1.3) Value chain stage

Select from:

- Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

- Dependencies
- Risks
- Opportunities

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

- Yes, withdrawals only

(9.3.1.6) Reason for no withdrawals and/or discharges

Zero discharge - water is using at the minimum rate and fully utilised

(9.3.1.7) Country/Area & River basin

Oman

- Other, please specify :no river nearby

(9.3.1.8) Latitude

16.938682

(9.3.1.9) Longitude

53.972467

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Gas

(9.3.1.13) Total water withdrawals at this facility (megaliters)

1.4

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

1.4

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.27) Total water consumption at this facility (megaliters)

1.4

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

All water is consumed within the facility

Row 3

(9.3.1.1) Facility reference number

Select from:

Facility 3

(9.3.1.2) Facility name (optional)

Salalah 2 IPP

(9.3.1.3) Value chain stage

Select from:

Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

Dependencies

Impacts

Risks

Opportunities

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Oman

Other, please specify :no river nearby

(9.3.1.8) Latitude

16.938682

(9.3.1.9) Longitude

53.972467

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Gas

(9.3.1.13) Total water withdrawals at this facility (megaliters)

13.96

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

13.96

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

0

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.23) Discharges to fresh surface water

0

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

13.96

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

- This is our first year of measurement

(9.3.1.29) Please explain

All water is consumed within the facility

Row 4

(9.3.1.1) Facility reference number

Select from:

- Facility 4

(9.3.1.2) Facility name (optional)

KIPP

(9.3.1.3) Value chain stage

Select from:

- Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

- Dependencies
- Impacts
- Risks
- Opportunities

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Turkey

Kizilirmak

(9.3.1.8) Latitude

39.8468

(9.3.1.9) Longitude

33.5153

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Gas

(9.3.1.13) Total water withdrawals at this facility (megaliters)

4339.97

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

4339.97

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

1182.5

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.23) Discharges to fresh surface water

1182.5

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

3157.4

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

Water withdraws from and discharge to river

Row 5

(9.3.1.1) Facility reference number

Select from:

Facility 5

(9.3.1.2) Facility name (optional)

Zarqa IPP

(9.3.1.3) Value chain stage

Select from:

- Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

- Dependencies
- Impacts
- Risks
- Opportunities

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

- Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Jordan

- Dead Sea

(9.3.1.8) Latitude

32.45757

(9.3.1.9) Longitude

36.12024

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Gas

(9.3.1.13) Total water withdrawals at this facility (megaliters)

170.5

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

170.5

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

0

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.23) Discharges to fresh surface water

0

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

0

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

Zero discharge facility

Row 6

(9.3.1.1) Facility reference number

Select from:

Facility 6

(9.3.1.2) Facility name (optional)

Noor 1 CSP

(9.3.1.3) Value chain stage

Select from:

Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

Dependencies

Impacts

Risks

Opportunities

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Morocco

Dra

(9.3.1.8) Latitude

31.00917

(9.3.1.9) Longitude

-6.85833

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Solar

(9.3.1.13) Total water withdrawals at this facility (megaliters)

1748

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

1748

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

240

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.23) Discharges to fresh surface water

240

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

1509

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

Water source comes from dam, discharge to evaporation pond

Row 7

(9.3.1.1) Facility reference number

Select from:

Facility 7

(9.3.1.2) Facility name (optional)

Noor 2 CSP

(9.3.1.3) Value chain stage

Select from:

Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

- Dependencies
- Impacts
- Risks
- Opportunities

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

- Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Morocco

- Dra

(9.3.1.8) Latitude

31.03509

(9.3.1.9) Longitude

-6.86898

(9.3.1.10) Located in area with water stress

Select from:

- Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Solar

(9.3.1.13) Total water withdrawals at this facility (megaliters)

276

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

276

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

127

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.23) Discharges to fresh surface water

127

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

150

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

Water source comes from dam, discharge to evaporation pond

Row 8

(9.3.1.1) Facility reference number

Select from:

Facility 8

(9.3.1.2) Facility name (optional)

Noor 3 CSP

(9.3.1.3) Value chain stage

Select from:

Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

Dependencies

Impacts

Risks

Opportunities

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

Yes, withdrawals only

(9.3.1.6) Reason for no withdrawals and/or discharges

Zero discharge - water is using at the minimum rate and fully utilised

(9.3.1.7) Country/Area & River basin

Morocco

Dra

(9.3.1.8) Latitude

31.06858

(9.3.1.9) Longitude

-6.86918

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Solar

(9.3.1.13) Total water withdrawals at this facility (megaliters)

215

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

215

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.27) Total water consumption at this facility (megaliters)

215

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

Water source comes from dam

Row 9

(9.3.1.1) Facility reference number

Select from:

Facility 9

(9.3.1.2) Facility name (optional)

Bokpoort CSP

(9.3.1.3) Value chain stage

Select from:

Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

Dependencies

Impacts

Risks

Opportunities

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

South Africa

Orange

(9.3.1.8) Latitude

-28.8833

(9.3.1.9) Longitude

21.9667

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Solar

(9.3.1.13) Total water withdrawals at this facility (megaliters)

894

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

894

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

130

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.23) Discharges to fresh surface water

130

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

764

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

- This is our first year of measurement

(9.3.1.29) Please explain

Water source from river and discharge to surface

Row 10

(9.3.1.1) Facility reference number

Select from:

- Facility 10

(9.3.1.2) Facility name (optional)

Mafraq PV

(9.3.1.3) Value chain stage

Select from:

- Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

- Dependencies
- Risks

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

- Yes, withdrawals only

(9.3.1.6) Reason for no withdrawals and/or discharges

No discharge as it is only used for daily maintenance such as cleaning of panel

(9.3.1.7) Country/Area & River basin

Jordan

Other, please specify :no river nearby

(9.3.1.8) Latitude

32.36194

(9.3.1.9) Longitude

36.29444

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Solar

(9.3.1.13) Total water withdrawals at this facility (megaliters)

2

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

2

(9.3.1.27) Total water consumption at this facility (megaliters)

2

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

Water coming from third party

Row 11

(9.3.1.1) Facility reference number

Select from:

Facility 11

(9.3.1.2) Facility name (optional)

Risha PV

(9.3.1.3) Value chain stage

Select from:

Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

Dependencies

Risks

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

Yes, withdrawals only

(9.3.1.6) Reason for no withdrawals and/or discharges

No discharge as it is only used for daily maintenance such as cleaning of panel

(9.3.1.7) Country/Area & River basin

Jordan

Other, please specify :No river nearby

(9.3.1.8) Latitude

32.56676

(9.3.1.9) Longitude

-39.20063

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Solar

(9.3.1.13) Total water withdrawals at this facility (megaliters)

5.7

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

5.7

(9.3.1.27) Total water consumption at this facility (megaliters)

5.7

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

from third party

Row 12

(9.3.1.1) Facility reference number

Select from:

Facility 12

(9.3.1.2) Facility name (optional)

Sakaka PV

(9.3.1.3) Value chain stage

Select from:

Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

Dependencies

Risks

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

Yes, withdrawals only

(9.3.1.6) Reason for no withdrawals and/or discharges

No discharge as it is only used for daily maintenance such as cleaning of panel

(9.3.1.7) Country/Area & River basin

Saudi Arabia

Other, please specify :No river nearby

(9.3.1.8) Latitude

29.72639

(9.3.1.9) Longitude

40.09667

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Solar

(9.3.1.13) Total water withdrawals at this facility (megaliters)

0.5

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0.5

(9.3.1.27) Total water consumption at this facility (megaliters)

0.5

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

Water comes from third party - tanker

Row 14

(9.3.1.1) Facility reference number

Select from:

Facility 13

(9.3.1.2) Facility name (optional)

Noor PV

(9.3.1.3) Value chain stage

Select from:

- Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

- Dependencies
- Risks

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

- Yes, withdrawals only

(9.3.1.6) Reason for no withdrawals and/or discharges

No discharge as it is only used for daily maintenance such as cleaning of panel

(9.3.1.7) Country/Area & River basin

Morocco

- Other, please specify :no river nearby

(9.3.1.8) Latitude

26.99414

(9.3.1.9) Longitude

-12.95433

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Solar

(9.3.1.13) Total water withdrawals at this facility (megaliters)

6.7

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

6.7

(9.3.1.27) Total water consumption at this facility (megaliters)

6.7

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

from third party

Row 15

(9.3.1.1) Facility reference number

Select from:

Facility 14

(9.3.1.2) Facility name (optional)

Shuaa PV

(9.3.1.3) Value chain stage

Select from:

Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

Dependencies

Risks

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

Yes, withdrawals only

(9.3.1.6) Reason for no withdrawals and/or discharges

No discharge as it is only used for daily maintenance such as cleaning of panel

(9.3.1.7) Country/Area & River basin

United Arab Emirates

Other, please specify :no river nearby

(9.3.1.8) Latitude

25.2048

(9.3.1.9) Longitude

55.2708

(9.3.1.10) Located in area with water stress

Select from:

Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

Solar

(9.3.1.13) Total water withdrawals at this facility (megaliters)

12

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

12

(9.3.1.27) Total water consumption at this facility (megaliters)

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

This is our first year of measurement

(9.3.1.29) Please explain

from third party

[Add row]

(9.3.2) For the facilities in your direct operations referenced in 9.3.1, what proportion of water accounting data has been third party verified?

Water withdrawals – total volumes

(9.3.2.1) % verified

Select from:

76-100

(9.3.2.2) Verification standard used

ISAE 3000 (Revised) and ISAE 3410 Requirement (a) of Disclosure 303–3 ‘Water withdrawal’ on page 523 of GRI standard 303 ‘Water and Effluents 2018’

Water withdrawals – volume by source

(9.3.2.1) % verified

Select from:

76-100

(9.3.2.2) Verification standard used

Water withdrawals – quality by standard water quality parameters

(9.3.2.1) % verified

Select from:

Not relevant

(9.3.2.3) Please explain

It is not covered in the reporting limiting assurance scope

Water discharges – total volumes

(9.3.2.1) % verified

Select from:

76-100

(9.3.2.2) Verification standard used

ISAE 3000 (Revised) and ISAE 3410 Requirement (a) of Disclosure 303–4 'Water discharge' page 523 of GRI standard 303 'Water and Effluents 2018'

Water discharges – volume by destination

(9.3.2.1) % verified

Select from:

76-100

(9.3.2.2) Verification standard used

ISAE 3000 (Revised) and ISAE 3410 Requirement (a) of Disclosure 303–4 'Water discharge' page 523 of GRI standard 303 'Water and Effluents 2018'

Water discharges – volume by final treatment level

(9.3.2.1) % verified

Select from:

Not relevant

(9.3.2.3) Please explain

It is not covered in the reporting limiting assurance scope

Water discharges – quality by standard water quality parameters

(9.3.2.1) % verified

Select from:

Not relevant

(9.3.2.3) Please explain

It is not covered in the reporting limiting assurance scope

Water consumption – total volume

(9.3.2.1) % verified

Select from:

76-100

(9.3.2.2) Verification standard used

*ISAE 3000 (Revised) and ISAE 3410 Guidance for Disclosure 303–5 ‘Water consumption’ page 528 of GRI standard 303 ‘Water and Effluents 2018’
[Fixed row]*

(9.5) Provide a figure for your organization's total water withdrawal efficiency.

	Revenue (currency)	Total water withdrawal efficiency	Anticipated forward trend
	6095010000	414.22	About the same

[Fixed row]

(9.7) Do you calculate water intensity for your electricity generation activities?

Select from:

Yes

(9.7.1) Provide the following intensity information associated with your electricity generation activities.

Row 1

(9.7.1.1) Water intensity value (m3/denominator)

0.07

(9.7.1.2) Numerator: water aspect

Select from:

Freshwater withdrawals

(9.7.1.3) Denominator

Select from:

MWh

(9.7.1.4) Comparison with previous reporting year

Select from:

This is our first year of measurement

(9.7.1.5) Please explain

Freshwater withdrawal: 8,764,636 m3 Total portfolio gross electricity generation: 129165806.8 MWh Here we are using total portfolio electricity generation due to the freshwater metric, also based on total portfolio.

[Add row]

(9.13) Do any of your products contain substances classified as hazardous by a regulatory authority?

(9.13.1) Products contain hazardous substances

Select from:

No

(9.13.2) Comment

There is hazardous waste generated through the operations, but these are solid waste that will send to be waste management company. It will not enter the water bodies.

[Fixed row]

(9.14) Do you classify any of your current products and/or services as low water impact?

(9.14.1) Products and/or services classified as low water impact

Select from:

Yes

(9.14.2) Definition used to classify low water impact

The criteria of determining low water impact are mainly based on the consumption of freshwater.

(9.14.4) Please explain

Based on our analysis, only 0.06% of freshwater withdrawal from our operations. It is deemed to be low impact to the freshwater bodies in the regions. In addition, our core water desalination is delivering freshwater export that is 217 times more than what the company consumed. In fact, we are contributing a high positive water impact to the water stress regions.

[Fixed row]

(9.15) Do you have any water-related targets?

Select from:

No, and we do not plan to within the next two years

(9.15.3) Why do you not have water-related target(s) and what are your plans to develop these in the future?

(9.15.3.1) Primary reason

Select from:

Important but not an immediate business priority

(9.15.3.2) Please explain

Based on our analysis, only 0.06% of freshwater withdrawal from our operations. It is deemed to be low impact to the freshwater bodies in the regions. In addition, our core water desalination is delivering freshwater export that is 217 times more than what the company consumed. In fact, we are contributing a high positive water impact to the water stress regions. Hence, it is not our priority to set a target in an area where we know we are doing well. The target setting exercise is primarily for improving company's main potential negative impact such as emissions.

[Fixed row]

C11. Environmental performance - Biodiversity

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

(11.2.1) Actions taken in the reporting period to progress your biodiversity-related commitments

Select from:

- Yes, we are taking actions to progress our biodiversity-related commitments

(11.2.2) Type of action taken to progress biodiversity- related commitments

Select all that apply

- Land/water protection
 Land/water management
 Education & awareness
 Law & policy

[Fixed row]

(11.3) Does your organization use biodiversity indicators to monitor performance across its activities?

	Does your organization use indicators to monitor biodiversity performance?
	Select from: <input checked="" type="checkbox"/> No, we do not use indicators, but plan to within the next two years

[Fixed row]

(11.4) Does your organization have activities located in or near to areas important for biodiversity in the reporting year?

	Indicate whether any of your organization's activities are located in or near to this type of area important for biodiversity	Comment
Legally protected areas	Select from: <input checked="" type="checkbox"/> No	None of the project are located or near to
UNESCO World Heritage sites	Select from: <input checked="" type="checkbox"/> No	None of the project are located or near to
UNESCO Man and the Biosphere Reserves	Select from: <input checked="" type="checkbox"/> No	None of the project are located or near to
Ramsar sites	Select from: <input checked="" type="checkbox"/> Yes	Hassyan IWP in Dubai is located at the boundary of Jebel Ali Wetland Sanctuary (JAWS).
Key Biodiversity Areas	Select from: <input checked="" type="checkbox"/> Yes	Ras Ghanada Marine Protected Area
Other areas important for biodiversity	Select from: <input checked="" type="checkbox"/> Yes	Important Bird Areas (IBAs)

[Fixed row]

(11.4.1) Provide details of your organization's activities in the reporting year located in or near to areas important for biodiversity.

Row 1

(11.4.1.2) Types of area important for biodiversity

Select all that apply

Ramsar sites

(11.4.1.4) Country/area

Select from:

- United Arab Emirates

(11.4.1.5) Name of the area important for biodiversity

Jebel Ali Wetland Sanctuary (JAWS)

(11.4.1.6) Proximity

Select from:

- Adjacent

(11.4.1.8) Briefly describe your organization's activities in the reporting year located in or near to the selected area

Water desalination plant

(11.4.1.9) Indicate whether any of your organization's activities located in or near to the selected area could negatively affect biodiversity

Select from:

- Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

- Project design
- Operational controls
- Abatement controls

(11.4.1.11) Explain how your organization's activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

Detailed analysis and mitigation measures are publicly disclosed here: https://drive.google.com/file/d/1Gn05caWxzyMEPkUYwggY44_e2_ATOh8V/view The seawater intake pumping station will be located close to the IWP Plant and outside of the RAMSAR boundary. The intake chamber will be equipped with a bar screen (50mm mesh) followed by a travelling band screen to avoid particles larger than 5mm passing through and to protect the downstream intake pumps. The screens will prevent the entrainment of marine fauna into the intake system. The seawater abstraction point at the end of the intake pipes will also be installed with screens of 100mm mesh to prevent fish and other marine fauna from entering the Plant. There will be intermittent shock chlorination of seawater using sodium hypochlorite solution from a small pipeline located inside the intake pipes to avoid any risk of leaks into the sea. This will prevent bio-fouling in the pipeline as water is transferred to the pumping station. Monitoring: 1. Visual observations of boundary markers to ensure they are not degrading or negatively impacting the habitat outside the 80m pipeline corridor. 2. Beach Walkover to identify turtle nests by a DM-ED registered Environmental Consultant. 3. Long-term continuous in situ water quality monitoring for duration of operation. Quarterly ex situ water quality monitoring for suite of parameters. Recording of all incidental observations or marine mammals and reptiles

Row 2

(11.4.1.2) Types of area important for biodiversity

Select all that apply

Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

United Arab Emirates

(11.4.1.5) Name of the area important for biodiversity

Ras Ghanada Marine Protected Area

(11.4.1.6) Proximity

Select from:

Up to 10 km

(11.4.1.8) Briefly describe your organization's activities in the reporting year located in or near to the selected area

Water desalination

(11.4.1.9) Indicate whether any of your organization's activities located in or near to the selected area could negatively affect biodiversity

Select from:

- Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

- Project design
- Physical controls
- Operational controls
- Abatement controls

(11.4.1.11) Explain how your organization's activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

Detailed study can be found here: <https://drive.google.com/file/d/119z1-kKNoLKfs1Q9iLuWulotatb2QGxg/view> Mitigation: • Wastewater streams and chemical wastewater including backwash water generated from the DAF and DMF stages of sea water filtration will be neutralized in the on-site facilities to comply with UAE Federal and IFC discharge standards prior to mixing/dilution with the brine effluent; • No sludge will be added to brine effluent or discharged through the outfall at anytime; • No wastewater will be discharged to the marine environment without prior consent by EAD; • A Biodiversity Action Plan for critically endangered Hawksbill Turtles will be developed in line with IFC PS6; and • Measures to minimise entrainment of fauna at the intake will be detailed within the OESMP and operating procedures.

Row 3

(11.4.1.2) Types of area important for biodiversity

Select all that apply

- Other areas important for biodiversity

(11.4.1.4) Country/area

Select from:

- Azerbaijan

(11.4.1.5) Name of the area important for biodiversity

Three Important Bird Areas (IBAs) are within 15-25 km of the project site. These include: • Yashma Island • Alty Agach area • Mount Kargabazar and Mount Gushgaya

(11.4.1.6) Proximity

Select from:

- Up to 25 km

(11.4.1.8) Briefly describe your organization's activities in the reporting year located in or near to the selected area

Wind power plant

(11.4.1.9) Indicate whether any of your organization's activities located in or near to the selected area could negatively affect biodiversity

Select from:

- Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

- Site selection
- Project design
- Scheduling
- Operational controls
- Abatement controls

(11.4.1.11) Explain how your organization's activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

Detailed assessment can be found here: <https://drive.google.com/file/d/1DkQ7mh0IH5GuXNtkIPUPXLxBk1yvljwL/view> • Using bird deflectors to increase line visibility by thickening the appearance of the line by a minimum of 20 cm over a length of 10-20cm; or using markers that are moveable, of contrasting colours (e.g. black and white), contrast with the background, protrude above and below the line, and be placed 5-10 m apart. Firefly Diverters are considered to be of robust specification to provide the needed visual deterrence required, as it includes UV-light reflectivity and are visible in low-light and low-visibility conditions. - Minimize construction footprint buffer zones and temporary laydown areas. • Avoid disturbance during sensitive ecological periods, particularly breeding season of sensitive species of concern. The Breeding Birds Protection Plan provides exact methodology and details on the seasonal timings and distance of no-go buffers which should be utilized.

[Add row]

C13. Further information & sign off

(13.1) Indicate if any environmental information included in your CDP response (not already reported in 7.9.1/2/3, 8.9.1/2/3/4, and 9.3.2) is verified and/or assured by a third party?

	Other environmental information included in your CDP response is verified and/or assured by a third party
	Select from: <input checked="" type="checkbox"/> Yes

[Fixed row]

(13.1.1) Which data points within your CDP response are verified and/or assured by a third party, and which standards were used?

Row 1

(13.1.1.1) Environmental issue for which data has been verified and/or assured

Select all that apply

- Climate change
- Water

(13.1.1.2) Disclosure module and data verified and/or assured

Environmental performance – Water security

- Emissions to water in the reporting year
- Water consumption– total volume

- Water discharges– total volumes
- Water withdrawals– total volumes

(13.1.1.3) Verification/assurance standard

General standards

- ISAE 3000
- ISAE 3410, Assurance Engagements on Greenhouse Gas Statements

(13.1.1.4) Further details of the third-party verification/assurance process

Please refer to page 244-251

(13.1.1.5) Attach verification/assurance evidence/report (optional)

acwa-power-integrated-annual-report-2023-en.pdf
 [Add row]

(13.2) 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.

	Additional information
	N/A

[Fixed row]

(13.3) Provide the following information for the person that has signed off (approved) your CDP response.

(13.3.1) Job title

CCAS

(13.3.2) Corresponding job category

Select from:

Chief Sustainability Officer (CSO)

[Fixed row]

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

Select from:

No

