

C0. Introduction

C0.1

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

◇ Company Overview

Korea Movenex was established in 1974 under the conviction of patriotism with technology and we have been manufacturing and supplying high-quality automobile parts, forgings, flanges, industrial machineries, etc. based on automated manufacturing system and severe quality assurance system.

Korea Movenex means Move and Next and our objective is not only to leap to a changing company that considers the next generation automobiles transcending mobility but also to become a company that leads the eco-friendly automobile market.

◇ Environmental Management System

Korea Movenex acquired ISO 14001 (Environmental Management System) for the first time in 2004 for preservation of earth environment, sustainable environment, and creation and we are currently retaining ISO 14001 certification and operating a systematic environmental management system.

◇ Climate Crisis Response Overview

Korea Movenex perceives the response to climate crisis, which is a global core task, as obligation and sets reducing more than about 20% of emission of green-house gases of the company compared to 2019 until 2030 as an important management objective to prevent global warming. In addition, for the continuous reduction activity of green-house gases, we are implementing systematic green-house gas reduction activities based on ISO 14001 operation system such as setting annual unit reduction objective, preparing reduction plans, evaluating implementation performance utilizing internal and external verification, etc.

◇ Climate Crisis Response Strategy

The promotion strategy of carbon reduction of Korea Movenex is to implement green-house gas reduction activities within the entire company utilizing the characteristics by department. The department in charge of manufacturing facility targets high-efficiency energy, the business management department enacts company regulations that can force carbon reduction activities. The environment department is the core in terms of tasks regarding various types of internal and external climate crisis response and takes charge of forming an atmosphere of green-house gas reduction and improvement of perception of all employees.

C0.2

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

Reporting year

Start date

January 1 2022

End date

December 31 2022

Indicate if you are providing emissions data for past reporting years

No

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

<Not Applicable>

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

<Not Applicable>

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

<Not Applicable>

C0.3

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

China
Mexico
Republic of Korea
United States of America

C0.4

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

KRW

C0.8

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

Indicate whether you are able to provide a unique identifier for your organization	Provide your unique identifier
Yes, an ISIN code	KR7010100006

C1. Governance

C1.1

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

No

C1.1c

(C1.1c) Why is there no board-level oversight of climate-related issues and what are your plans to change this in the future?

	Primary reason	Board-level oversight of climate-related issues will be introduced within the next two years	Please explain
Row 1	Climate related issues were not the priority in terms of reviewing the agenda of board of directors from the past until now. However, currently we are planning to take measures so that climate related issues can be managed and supervised by the board of directors within the next 2 years to respond to various issues arising from climate crisis.	Yes, we plan to do so within the next two years	Currently, corporate issues due to climate crisis is being reviewed in the management level and we are planning to take measures so that they can be managed and supervised as major agenda by the board of directors within the next 2 years.

C1.2

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

Position or committee

Other committee, please specify (Environmental Management System Steering Committee)

Climate-related responsibilities of this position

- Managing annual budgets for climate mitigation activities
- Providing climate-related employee incentives
- Setting climate-related corporate targets
- Monitoring progress against climate-related corporate targets
- Assessing climate-related risks and opportunities
- Managing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

CEO reporting line

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

Annually

Please explain

Overall tasks related to climate crisis are implemented through the environmental management system operation committee and jobs are assigned according to the characteristics of each member. The committee is composed of all departments of the company and the administrators are the environment team and the chairman is the CEO. One of the core tasks of the committee is to identify issues related to climate crisis and implementing tasks accordingly.

C1.3

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

	Provide incentives for the management of climate-related issues	Comment
Row 1	Yes	Korea Movenex is operating the "idea proposal system" targeting all employees and we are providing incentives (reward) to the employee who implements high efficiency and saving of energy and connects them to performance. Award is given differently according to the level evaluated by the committee and if judged as the highest level, KRW 5,000,000 can be given.

C2. Risks and opportunities

C2.1

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

Yes

C2.3

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

Yes

C2.3a

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

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Reputation	Increased stakeholder concern or negative stakeholder feedback
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Primary potential financial impact

Decreased revenues due to reduced demand for products and services

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Korea Movenex perceives the importance of CDP evaluation grade and ESG assessment, which directly relates to the reputation as non-financial factors affecting the sustainability of the company arises. In case of occurrence of negative reputation, sales decrease risks through bidding restraint by the clients and fall in stock prices (market price drop) due to decrease of investment by the investors, etc. may occur. Accordingly, Koreamovenex is evaluating issues and needs of person concerned with regard to climate crisis and discovering and managing potential risks and we are setting an objective of reducing more than 20% of green-house gases compared to 2019 until 2030 to manage emission of green-house gases which may incur influence on reputation.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

503230000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

<Calculation of financial impact figure>

As of 2022, the annual sales of the company is KRW 503,230,000,000 and 98% of the total sales occur from transaction with Hyundai Motors and Kia Motors. Therefore, in case of suspension of transaction with the clients due to decrease of reputation, it is judged that the maximum amount of total sales will be losses.

Cost of response to risk

102253200

Description of response and explanation of cost calculation

- <It is calculated based on the expense of climate crisis response budget>
- ◇ Green-house gas management consulting cost: KRW 7,900,000
- ◇ Data validity confirmation cost: KRW 3,000,000
- ◇ Annual green-house gas emission reduction activity cost: KRW 91,353,200
- ◇ KRW 7,900,000 + KRW 3,000,000 +KRW 91,353,200 = 102,253,200

Comment

Risk cost can vary according to inflation and investment plan changes, etc.

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical	Cyclone, hurricane, typhoon
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Primary potential financial impact

Decreased asset value or asset useful life leading to write-offs, asset impairment or early retirement of existing assets

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

In the past, Korea Movenex has often experienced damages by super-size typhoons accompanied by strong winds and heavy rain. In 2018, when typhoon KONG-REY headed north to the Korean Peninsula, it caused more than a little physical damage to various types of facilities and structures of the company and we had to pay enormous amount of repair cost accordingly.

As Korea Movenex are well aware that the damages due to natural disasters can be severe than ever in the situation of current climate crisis, we are endeavoring on systematic and effective response by actively utilizing international standard system which is already introduced to the company such as, ISO 45001(Safety and Health Management System) and ISO 22301(Business Continuity Management System) to systematically protect human life and manufacturing facilities of the company and retain continuous business.

Time horizon

Short-term

Likelihood

Very likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

833850000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

<It is calculated based on the recovery amount for damages incurred from past typhoon damages>

- ◇ Repair work costs for factory roof and external wall: KRW 830,000,000
- ◇ Construction cost of tent warehouse maintenance: KRW 3,850,000
- ◇ KRW 830,000,000 + KRW 3,850,000 = KRW 833,850,000

Cost of response to risk

625474996

Description of response and explanation of cost calculation

<It is calculated based on the annual budget of facility and management system management>

- ◇ Allocated budget of building and structure management: KRW 387,475,000
- ◇ Allocated budget of safety· environmental facility management: KRW 210,799,996
- ◇ Allocated budget related to ISO certification: KRW 27,200,000
- ◇ KRW 387,475,000 + KRW 210,799,996 +KRW 27,200,000 = KRW 625,474,996

Comment

Risk response cost may vary according to inflation and investment plan changes, etc.

C2.4

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

Yes

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

Opp1

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Markets

Primary climate-related opportunity driver

Other, please specify (ESG evaluation and CDP evaluation implementation)

Primary potential financial impact

Other, please specify (Reliability increase of persons concerned through ESG and CDP evaluation)

Company-specific description

If excellent level is secured in the ESG and CDP evaluation, we can expect positive effects such as acquiring reliability from the clients and investors and swiftly responding to various climate crisis risks and domestic and overseas regulations. At the current point where the atmosphere of ESG management being evaluated as company's competitiveness is steadily increasing, Korea Movenex targets to contribute to the country and the regional communities based on transparent and exemplary company operation, and moreover, to become a company that contributes to resolving global climate crisis.

Time horizon

Medium-term

Likelihood

Virtually certain

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Korea Movenex perceives ESG as core factor in terms of securing market competitiveness and as we judge that it will have a significant influence on not only sales growth but also the entire financial of the company, we are planning calculation of quantitative financial effect by implanting various impact assessments, etc. in the future

Cost to realize opportunity

38900000

Strategy to realize opportunity and explanation of cost calculation

< It is calculated based on the annual budget on climate crisis management consulting costs and ISO system management >

- ◇ Allocated budget related to green-house gas management = KRW 11,700,000
- ◇ ISO certification related budget: KRW 27,200,000
- ◇ KRW 11,700,000 + KRW 27,200,000 = KRW 38,900,000

Comment**Identifier**

Opp2

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Markets

Primary climate-related opportunity driver

Access to new markets

Primary potential financial impact

Increased revenues through access to new and emerging markets

Company-specific description

Korea Movenex expected increase in demand of eco-friendly automobiles in align with the changing automobile industry due to climate crisis, as a result of research and development over the past years, we are currently expanding to major business fields through realization of EV product manufacturing and sales. In addition, Korea Movenex targets to secure more advanced technologies through continuous R&D investment and strengthening cooperative system with complete car companies for flexible response in the new and emerging market to come as opportunity in the future and for attainment of excellent business performance.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Korea Movenex is reviewing calculation of quantitative financial effect by implementing various impact assessments, etc.

Cost to realize opportunity

1174000000

Strategy to realize opportunity and explanation of cost calculation

Annual retention budget for electric vehicle research and development costs: KRW 1,174,000,000

Comment

C3. Business Strategy

C3.1

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

Row 1

Climate transition plan

No, but our strategy has been influenced by climate-related risks and opportunities, and we are developing a climate transition plan within two years

Publicly available climate transition plan

<Not Applicable>

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

<Not Applicable>

Description of feedback mechanism

<Not Applicable>

Frequency of feedback collection

<Not Applicable>

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

<Not Applicable>

Explain why your organization does not have a climate transition plan that aligns with a 1.5°C world and any plans to develop one in the future

Although Korea Movenex is establishing and implementing independent green-house gas mid and long-term reduction objective and measures by year and climate change adaptation plans according to the risks of climate crisis, we are not established with climate conversion plans corresponding to the global 1.5°C. However, Korea Movenex is well aware of the severity of climate crisis and we are planning to establish a climate conversion plan corresponding to the global 1.5°C within the next 2 years.

Explain why climate-related risks and opportunities have not influenced your strategy

<Not Applicable>

C4. Targets and performance

C4.1

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

Absolute target

C4.1a

(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.

Target reference number

Abs 1

Is this a science-based target?

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

Target ambition

<Not Applicable>

Year target was set

2022

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Base year

2019

Base year Scope 1 emissions covered by target (metric tons CO2e)

1269.53

Base year Scope 2 emissions covered by target (metric tons CO2e)

32384.514

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target (metric tons CO2e)

<Not Applicable>

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

33654

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

<Not Applicable>

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

Target year

2030

Targeted reduction from base year (%)

20

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

1340.794

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

30578.842

Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (downstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

31919.636

Does this target cover any land-related emissions?

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

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

Target status in reporting year

New

Please explain target coverage and identify any exclusions

Scope 1,2 Absolute quantity reduction objective

- ◇ (Scope of target objective) Included all business places that can be controlled
- ◇ (Excluded emission sources) There are no excluded emission sources

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

Korea Movenex endeavored to adequately analyze and improve the power of manufacturing facility and implement reduction activities by finding and removing unnecessary energy waste factors to increase energy efficiency. In addition, we are promoting a strategy to induce green-house gas reduction activities by establishing mid and long-term objective for green-house gas reduction activity and sharing it with the entire employees, and granting obligation and roles suitable to the characteristics of each department. In 2022, we promoted high-efficiency energy of 10 cases including 7 dust collectors and 3 manufacturing equipment.

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

<Not Applicable>

C4.2

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

No other climate-related targets

C4.3

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

Yes

C4.3b

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

Initiative category & Initiative type

Energy efficiency in production processes	Motors and drives
-------------------------------------------	-------------------

Estimated annual CO2e savings (metric tonnes CO2e)

88.5

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

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

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

22000000

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

22000000

Payback period

<1 year

Estimated lifetime of the initiative

<1 year

Comment

Differential pressure_wind pressure sensor installation and inverter connection (7 central dust collectors)

Initiative category & Initiative type

Energy efficiency in production processes	Motors and drives
-------------------------------------------	-------------------

Estimated annual CO2e savings (metric tonnes CO2e)

20.44

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

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

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

5081311

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

22470000

Payback period

1-3 years

Estimated lifetime of the initiative

3-5 years

Comment

Rolling machine hydraulic motor inverter control (A total of 3 lines)

C5. Emissions methodology

C5.1

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

Yes

C5.2

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

Scope 1

Base year start

January 1 2022

Base year end

December 31 2022

Base year emissions (metric tons CO2e)

1340.794

Comment

Scope 2 (location-based)

Base year start

January 1 2022

Base year end

December 31 2022

Base year emissions (metric tons CO2e)

30578.842

Comment

Scope 2 (market-based)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 1: Purchased goods and services

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 2: Capital goods

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

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

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 4: Upstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 5: Waste generated in operations

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 6: Business travel

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 7: Employee commuting

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 8: Upstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 9: Downstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 10: Processing of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 11: Use of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

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

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 13: Downstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 14: Franchises

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 15: Investments

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (upstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (downstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.3

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

Korea GHG and Energy Target Management System Operating Guidelines

C6. Emissions data

C6.1

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

Reporting year

Gross global Scope 1 emissions (metric tons CO2e)

1340.794

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

C6.2

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

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

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

Comment

C6.3

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

Reporting year

Scope 2, location-based

30578.842

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

C6.5

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

Purchased goods and services

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Capital goods

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

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

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Upstream transportation and distribution

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Waste generated in operations

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Business travel**Evaluation status**

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Employee commuting**Evaluation status**

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Upstream leased assets**Evaluation status**

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Downstream transportation and distribution**Evaluation status**

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Processing of sold products**Evaluation status**

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Use of sold products

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

End of life treatment of sold products

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Downstream leased assets

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Franchises

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Not applicable to Korea Movenex as we do not operate franchise business.

Investments

Evaluation status

Relevant, not yet calculated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

We are currently identifying the impact related to relevant activities and expecting to make calculation after completion of identification

Other (upstream)

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

None

Other (downstream)

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

None

C6.10

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

Intensity figure

0.000000063

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

31919.63

Metric denominator

unit total revenue

Metric denominator: Unit total

50323000000

Scope 2 figure used

Location-based

% change from previous year

11

Direction of change

Decreased

Reason(s) for change

Other emissions reduction activities

Please explain

Promotion of high efficiency energy of manufacturing processes through inverter installation and recording about 11.26% carbon reduction rate compared to the sales amount through installation of LED lighting at the entire factories

C7. Emissions breakdowns

C7.9

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

This is our first year of reporting, so we cannot compare to last year

C8. Energy

C8.2

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

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

C8.2a

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

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	HHV (higher heating value)	0	6689.39	6689.39
Consumption of purchased or acquired electricity	<Not Applicable>	0	66560.98	66560.98
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Total energy consumption	<Not Applicable>	0	73250.37	73250.37

C10. Verification

C10.1

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

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	Third-party verification or assurance process in place
Scope 3	No emissions data provided

C12. Engagement

C12.1

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

No, we do not engage

C12.2

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

No, but we plan to introduce climate-related requirements within the next two years

C16. Signoff

C-FI

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

No additional information

C16.1

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

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

SC. Supply chain module

SC0.0

(SC0.0) If you would like to do so, please provide a separate introduction to this module.

Korea Movenex actively participates in climate crisis response based on a cooperative system with the comple car companies.

◇ Company Overview

Korea Movenex was established in 1974 under the conviction of patriotism with technology and we have been manufacturing and supplying high-quality automobile parts, forgings, flanges, industrial machineries, etc. based on automated manufacturing system and severe quality assurance system.

Korea Movenex means Move and Next and our objective is not only to leap to a changing company that considers the next generation automobiles transcending mobility but also to become a company that leads the eco-friendly automobile market.

◇ Environmental Management System

Korea Movenex acquired ISO 14001 (Environmental Management System) for the first time in 2004 for preservation of earth environment, sustainable environment, and creation and we are currently retaining ISO 14001 certification and operating a systematic environmental management system.

◇ Climate Crisis Response Overview

Korea Movenex perceives the response to climate crisis, which is a global core task, as obligation and sets reducing more than about 20% of emission of green-house gases of the company compared to 2019 until 2030 as an important management objective to prevent global warming. In addition, for the continuous reduction activity of green-house gases, we are implementing systematic green-house gas reduction activities based on ISO 14001 operation system such as setting annual unit reduction objective, preparing reduction plans, evaluating implementation performance utilizing internal and external verification, etc.

◇ Climate Crisis Response Strategy

The promotion strategy of carbon reduction of Korea Movenex is to implement green-house gas reduction activities within the entire company utilizing the characteristics by department. The department in charge of manufacturing facility targets high-efficiency energy, the business - management department enacts company regulations that can force carbon reduction activities. The environment department is the core in terms of tasks regarding various types of internal and external climate crisis response and takes charge of forming an atmosphere of green-house gas reduction and improvement of perception of all employees.

SC0.1

(SC0.1) What is your company's annual revenue for the stated reporting period?

	Annual Revenue
Row 1	503230000000

SC1.1

(SC1.1) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.

Requesting member

Hyundai Motor Co

Scope of emissions

Scope 1

Scope 2 accounting method

<Not Applicable>

Scope 3 category(ies)

<Not Applicable>

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

1180.825

Uncertainty (±%)

0

Major sources of emissions

Boiler and mobile combustion

Verified

Yes

Allocation method

Allocation based on the market value of products purchased

Market value or quantity of goods/services supplied to the requesting member

443190000000

Unit for market value or quantity of goods/services supplied

Currency

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Allocated emission amount regarding the client= Entire emission amount x (Factors of product sold to the client/factors of the entire manufactured products)

Requesting member

Hyundai Motor Co

Scope of emissions

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

26930.503

Uncertainty (±%)

0

Major sources of emissions

Overall electricity use facilities of the factory (Transformer room, etc.)

Verified

Yes

Allocation method

Allocation based on the market value of products purchased

Market value or quantity of goods/services supplied to the requesting member

443190000000

Unit for market value or quantity of goods/services supplied

Currency

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Allocated emission amount regarding the client= Entire emission amount x (Factors of product sold to the client/factors of the entire manufactured products)

Requesting member

Kia Motors Corp

Scope of emissions

Scope 1

Scope 2 accounting method

<Not Applicable>

Scope 3 category(ies)

<Not Applicable>

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

159.969

Uncertainty (±%)

0

Major sources of emissions

Boiler and mobile combustion

Verified

Yes

Allocation method

Allocation based on the market value of products purchased

Market value or quantity of goods/services supplied to the requesting member

60040000000

Unit for market value or quantity of goods/services supplied

Currency

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Allocated emission amount regarding the client= Entire emission amount x (Factors of product sold to the client/factors of the entire manufactured products)

Requesting member

Kia Motors Corp

Scope of emissions

Scope 2

Scope 2 accounting method

Location-based

Scope 3 category(ies)

<Not Applicable>

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

3648.339

Uncertainty (±%)

0

Major sources of emissions

Overall electricity use facilities of the factory (Transformer room, etc.)

Verified

Yes

Allocation method

Allocation based on the market value of products purchased

Market value or quantity of goods/services supplied to the requesting member

60040000000

Unit for market value or quantity of goods/services supplied

Currency

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Allocated emission amount regarding the client= Entire emission amount x (Factors of product sold to the client/factors of the entire manufactured products)

SC1.2

(SC1.2) Where published information has been used in completing SC1.1, please provide a reference(s).

no reference

SC1.3

(SC1.3) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Allocation challenges	Please explain what would help you overcome these challenges
Diversity of product lines makes accurately accounting for each product/product line cost ineffective	If an energy diagnosis (EnMS) facility which can identify individual consumption of facilities within the manufacturing site is introduced, monitoring of used amount of energy by process is possible (To be expanded and promoted gradually in 2023)

SC1.4

(SC1.4) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

Yes

SC1.4a

(SC1.4a) Describe how you plan to develop your capabilities.

1. Personnel capability enhancement through education of Regular green-house gas emission amount calculation
2. Securement of more data to expand to Scope 3 category
3. Review introduction of smart facilities that can calculate emission amount by process such as EnMS

SC2.1

(SC2.1) Please propose any mutually beneficial climate-related projects you could collaborate on with specific CDP Supply Chain members.

SC2.2

(SC2.2) Have requests or initiatives by CDP Supply Chain members prompted your organization to take organizational-level emissions reduction initiatives?

No

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options	Yes	Non-public

Please confirm below

I have read and accept the applicable Terms

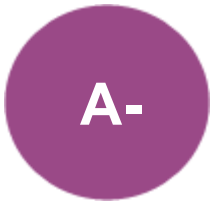
Korea Movenex Co LTD

Region	Asia
Country/Area	Republic of Korea
Questionnaire	General
Activity Group	Metal products manufacturing

The CDP Score Report allows companies to understand their score and indicate which categories require attention to reach higher scoring levels. This enables companies to progress towards environmental stewardship through benchmarking and comparison with peers, in order to continuously improve their Climate Change governance. Investors will additionally receive a copy of the CDP Score Report upon request. For further feedback please contact your account manager or your key CDP contact.

Your CDP score

Average performance

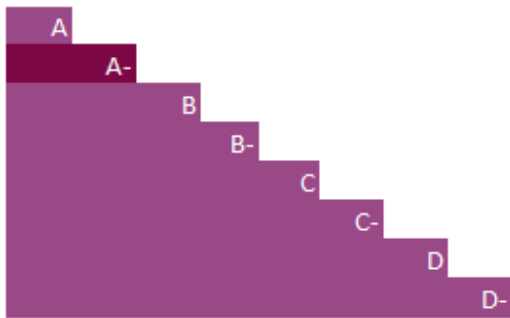


Metal products manufacturing

Asia

Global Average

UNDERSTANDING YOUR SCORE REPORT



Korea Movenex Co LTD received an A- which is in the Leadership band. This is higher than the Asia regional average of C, and higher than the Metal products manufacturing sector average of C.

Leadership (A/A-): Implementing current best practices

Management (B/B-): Taking coordinated action on climate issues

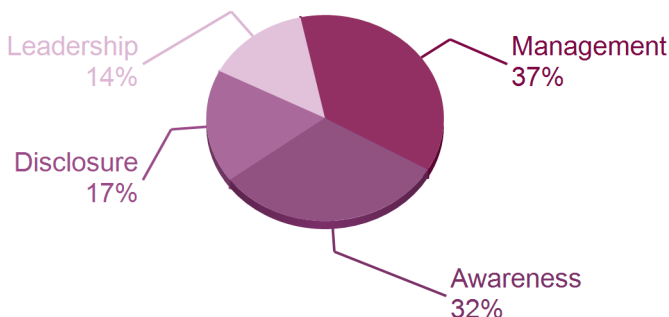
Awareness (C/C-): Knowledge of impacts on, and of, climate issues

Disclosure (D/D-): Transparent about climate issues

ACTIVITY GROUP PERFORMANCE

Metal products manufacturing

Your company is amongst 14% of companies that reached Leadership level in your Activity Group.



A sample of A-list companies from your Activity Group:

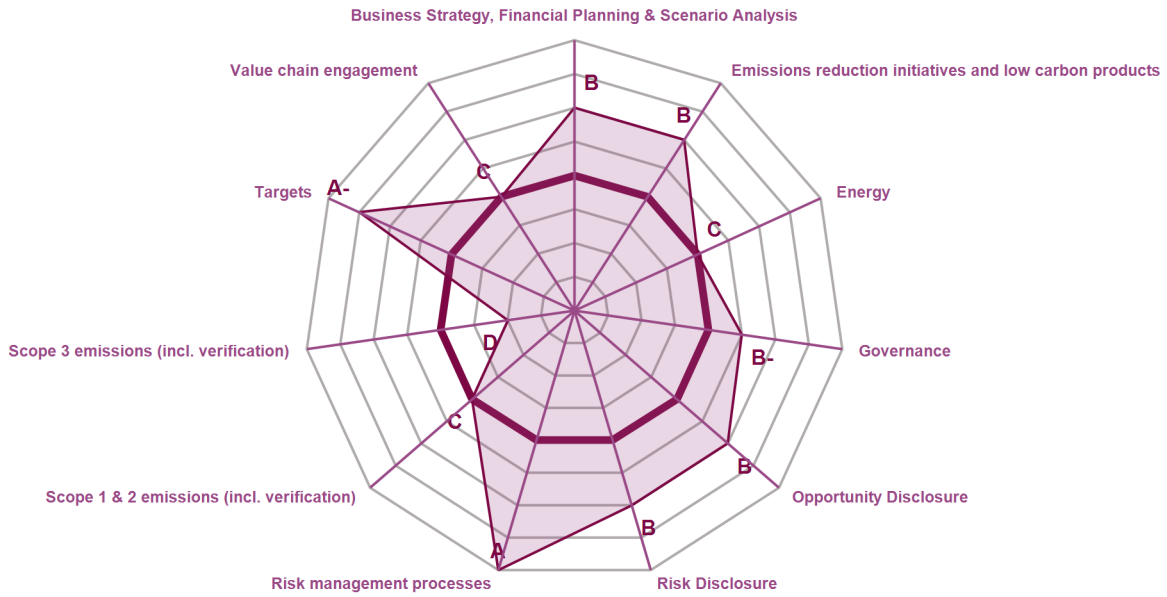
Aisin Corporation

Elsan Elektrik Gereçleri San. Tic. A.Ş

Ingersoll Rand Inc.

*Please note that the peer group average scores are compiled with only investor-requested company scores

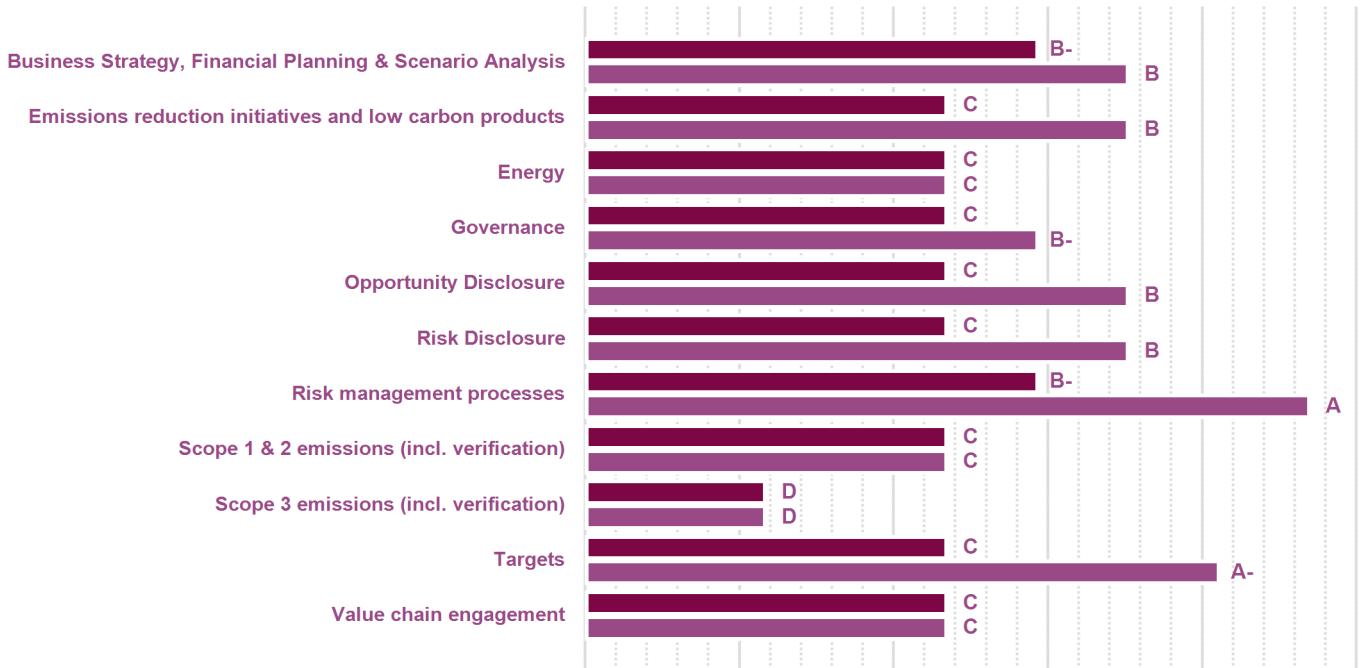
CATEGORY SCORES



If a company scored a C or below, they will not have been scored for Management or Leadership points (the dark purple line represents this).

Please download the ['CDP Scoring Introduction'](#) for more information.

CATEGORY SCORES BENCHMARKING



Scenario analysis Question not applicable

Each category score in the bar chart represents the progression within each scoring level. Some categories have not been included for category score breakdown as either not enough questions feed into these categories to give a representative score or they are not scored at both Management and Leadership levels. Scoring categories are groupings of questions by topic. They are sub-groups of the 2023 questionnaire modules and are consistent across all sectors. Weighting applied to each category varies across sectors to highlight the areas most important to environmental stewardship in specific sectors.

To find out more about category weightings for each sector, please download the ['CDP Scoring Categories and Weighting'](#) documents.