



A share code: 002460

H share code: 01772

# 2024

## Ganfeng Lithium Group Co., Ltd. Climate-related Disclosure Report

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Utilize limited lithium resources to create a green,  
clean and healthy life for human development and progress





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## About This Report

This report is the first Climate-Related Disclosure Report (hereinafter referred to as "this Report") of Ganfeng Lithium Group Co., Ltd. (hereinafter referred to as "Ganfeng Lithium," "the Company," or "we"). Ganfeng Lithium acknowledges the material financial or strategic impacts of climate change on the Company. To better address potential risks and opportunities, the Company has identified, assessed, and analyzed climate risks and opportunities. We have identified climate-related risks and opportunities for our business and operations, thereby better controlling risks and seizing opportunities.

This report is prepared in accordance with the requirements outlined in Part D "Climate-related Disclosures" of the Environmental, Social and Governance (ESG) Reporting Guide by The Stock Exchange of Hong Kong Limited (HKEx), the requirements of the International Financial Reporting Sustainability Disclosure Standard S2 - Climate-related Disclosures (IFRS S2) issued by the International Sustainability Standards Board (ISSB) in 2023, the climate-related disclosure requirements in the Self-Regulatory Guidelines No. 17 for Companies Listed on Shenzhen Stock Exchange - Sustainability Report (Trial), and the four pillars (Governance, Strategy, Risk Management, Metrics and Targets) of the Task Force on Climate-related Financial Disclosures (TCFD). It discloses the relevant work of Ganfeng Lithium in responding to climate change and demonstrates the Company's climate resilience in the face of climate change challenges.



# 01

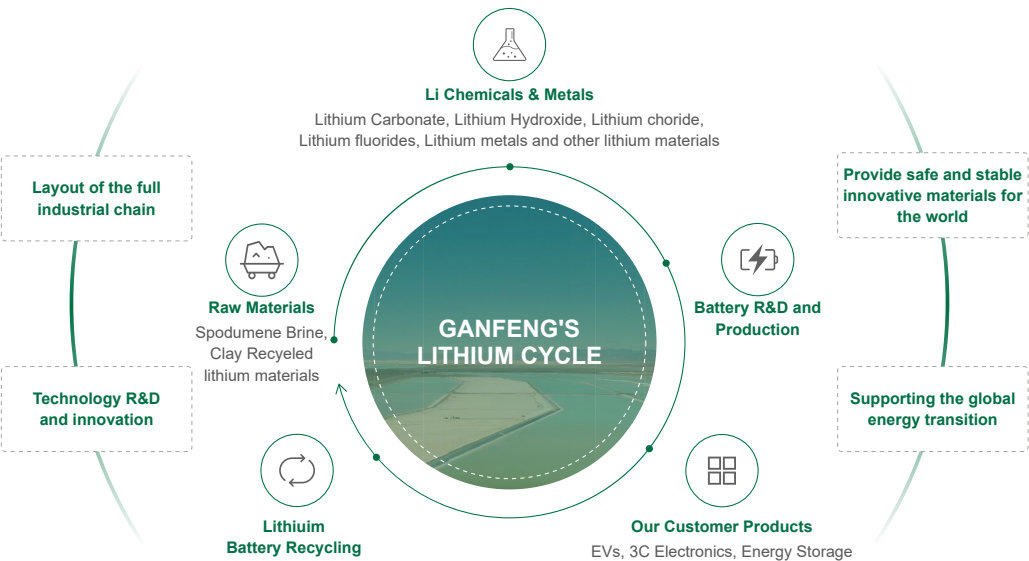
## About Ganfeng Lithium Group Co., Ltd.

Utilize limited lithium resources to create a green,  
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# Company Profile

Ganfeng Lithium Group Co., Ltd. (A-share stock code: 002460; H-share stock code: 01772) was established in 2000. As the first A+H listed company in China's lithium industry, our business covers all the essential parts of the value chain, including the development of upstream lithium resources, deep processing of midstream lithium salts and smelting of metallic lithium, manufacturing of downstream lithium batteries and comprehensive recycling and utilization of waste batteries. Based on the "technology innovation-driven" strategy, we have created a comprehensive product matrix from basic lithium compounds to high-end battery materials through the world's leading diversified lithium extraction processes, including brine lithium extraction, ore lithium extraction, and recycling-based lithium extraction. We continue to drive technological innovation in the lithium industry.




## We empower the global energy transition with technology innovation as our core engine




**Low-carbon Operations**

We actively practice the low-carbon concept by using advanced technologies such as brine lithium extraction and secondary utilization of lithium slag to improve resource recovery rates and reduce energy consumption and carbon emissions. Meanwhile, we introduce clean energy to replace traditional energy sources, reducing carbon footprints at the source and achieving greener production processes.



**Value Chain Decarbonization**

We proactively engage suppliers to reduce emissions and encourage upstream companies to accelerate the green transition. And we offer customers with low-carbon products and green solutions, such as lithium products with a low carbon footprint and energy storage systems, to help downstream companies achieve decarbonization and sustainability targets.

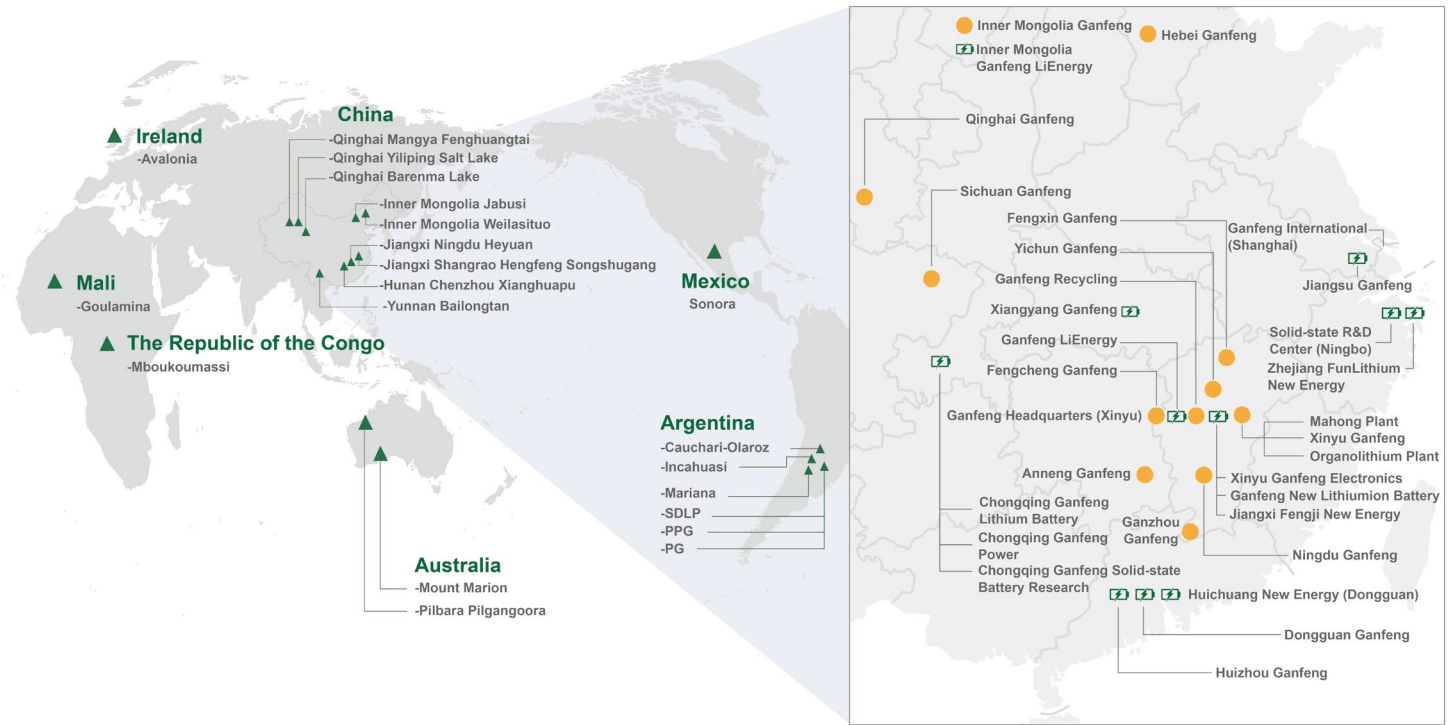


**Enabling Society's Green Transition**

We deliver critical solutions to address climate risks by producing high-performance battery products to drive the development of the renewable energy industry. We also actively recycle retired batteries, reintroducing them into society through circular recycling to achieve efficient use of resources.

# Global Layout

To ensure a stable supply, Ganfeng Lithium continuously engages with multiple suppliers and has achieved diversified resources. We have established local lithium salt production bases near the lithium brine lakes in Argentina, which not only help to reduce supply costs and carbon dioxide emissions during transportation but also provide more employment opportunities for local residents. Additionally, through community partnership initiatives, we invest in infrastructure within resource-rich regions to achieve symbiotic and mutually beneficial growth between industrial development and local socio-economic prosperity.



Ganfeng Lithium's Global Business Layout



# 02

## Climate Governance

Governance Oversight

Management and Executive Departments

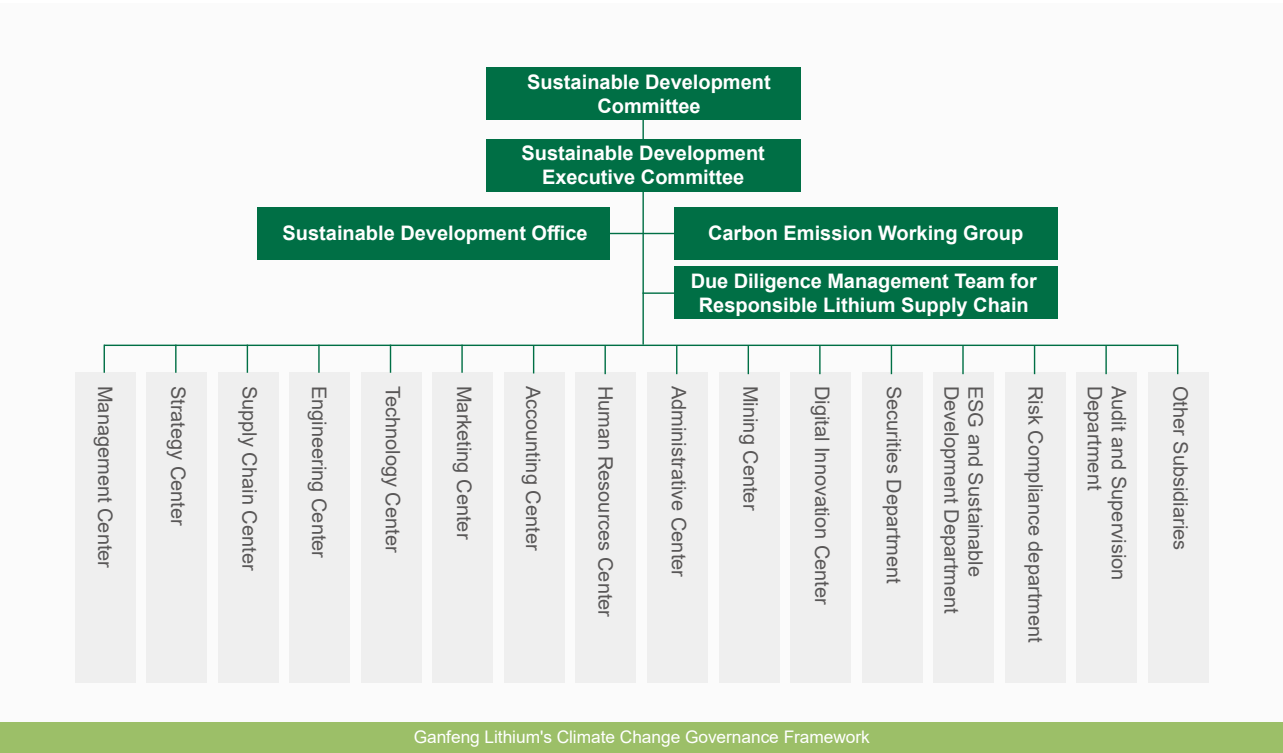
Remuneration Incentive

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# Climate Governance

The Board of Directors of Ganfeng Lithium acts as the highest authority and decision-making body for the Company's sustainable development management and climate-related issues, fulfilling the responsibilities of deliberation, decision-making, management, and supervision of the Company's sustainable development management policies and ESG strategies. At the board level, the Company has established a Sustainable Development Committee, which is responsible for leading the Company's climate target setting, climate strategy planning, implementing supervision work, and overseeing the regular operation of the climate governance system across all company business segments. The Sustainable Development Office, the Carbon Emission Working Group, and the Due Diligence Management Team for Responsible Lithium Supply Chain are supporting the committee, which collaborate with various functional departments and subsidiaries to address climate-related issues.



## Governance Oversight

In 2024, the committee held

1 meeting

Achieving an attendance rate of

100 %

As the Company's ultimate accountable body for climate-related issues, the Board of Directors effectively fulfills its responsibilities in climate management and oversight by establishing the Sustainable Development Committee Work Rules. The Sustainable Development Executive Committee, which is subordinate to the Board, is fully responsible for strategic climate-related deployments. This includes systematically identifying climate risks across the value chain, setting phased performance-linked climate targets, approving low-carbon transformation strategies and annual budgets (including special funds for energy-saving and emission-reduction technological upgrades), overseeing the compliance of significant investments (e.g., carbon emission constraint assessments for photovoltaic infrastructure), and monitoring decarbonization progress and addressing implementation gaps. Through these defined responsibilities and authorities, climate governance is ensured to be deeply embedded into the entire process of strategic decision-making, resource allocation, and operational assessment.

The Sustainable Development Committee consists of three directors and submits annual climate governance report to the Board.

## Management and Executive Departments

Ganfeng Lithium has established a comprehensive climate risk management system. Under the coordination of the Sustainable Development Executive Committee, the Sustainable Development Office implements cross-departmental coordination, the Carbon Emission Working Group drives operational decarbonization, and the Due Diligence Management Team for Responsible Lithium Supply Chain penetrates climate risk management across the value chain. This forms a closed-loop control mechanism for strategy formulation, target implementation, and process monitoring.



### The Company's Central Hub for Climate Risk Management

- Oversees climate risk management and approves daily operational climate-related matters
- Leads in compiling the climate risk and opportunity inventory, coordinates third-party climate scenario analysis and ensures compliant climate information disclosure
- Incorporates climate risks into the enterprise risk registers, implements continuous monitoring, and regularly reports to the Sustainable Development Executive Committee

Led by the Group President



### The Main Body for Implementing Carbon Neutrality Goals

- Formulates the Company's carbon management development strategy and carbon emission targets, guides and deploys carbon emission management work to promote the Company's energy saving, emission reduction, and optimization and upgrading of carbon assets
- Interprets national carbon emission policies, standardizes the statistics of energy and carbon emission data, coordinates internal and external resources, and ensures the achievement of carbon emission targets
- Executes carbon asset transactions, manages the fulfillment and settlement of carbon quotas, and promotes the implementation of energy-saving and emission-reduction projects in subsidiaries

Co-led by the Group President (Lead) and the Group Executive Vice President (Deputy)



### The Firewall for Climate Risks in the Value Chain

- Is responsible for approving mineral supply chain risk assessment reports, mineral supply chain due diligence policies, low-carbon procurement policies, etc.
- Review the due diligence risk management of the mineral supply chain, with a focus on climate-related risks
- Supervises the design and implementation of due diligence plans and risk management, paying attention to the execution of climate elements (e.g., carbon verification)

Led by the Group Executive Vice President

## Remuneration Incentive

Ganfeng Lithium has established a mechanism that links climate change to executive remuneration. The Sustainable Development Committee is responsible for formulating sustainable development goals and plans as well as overseeing the operation of the sustainable development system across all business divisions. The Company has set targets that include energy-saving technological upgrades, emission management, water consumption management, and energy transition. Based on the achievement of these targets and in combination with external ESG ratings, the executive team is subject to performance evaluation and remuneration incentives.



# 03

## Climate Strategy

Scope of Analysis, Scenarios, and Time Dimensions

Physical Risks

Transition Risks and Opportunities

Financial Impact Assessment

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## Transition Risks and Opportunities

In the process of transitioning to a low-carbon economy, Ganfeng Lithium navigates multifaceted transition risks and opportunities. Key challenges stem from evolving policies and regulations, technological innovation, shifts in market preferences, and reputational dynamics. As a company covering lithium resource development, deep processing of lithium salt products, smelting of lithium, manufacturing of lithium batteries, and recycling of lithium batteries, Ganfeng Lithium focuses on the impact of policy support and stricter regulation on the Company's operations, the impact of technological iteration on product competitiveness, and changes in market demand for green products. At the same time, the energy transformation driven by China's "carbon peaking" and "carbon neutrality" goals has accelerated industry shifts and opened structural opportunities for the Company. Breakthroughs in lithium battery recycling technology can improve resource recycling efficiency, and large-scale application of green electricity reduces carbon footprint barriers. Additionally, the explosive growth in demand for new energy markets further consolidates the advantages of industrial chain collaboration. We systematically evaluate the compound impact of policy pressure, technological substitution, and market restructuring from a full-value-chain perspective to provide quantitative support for strategic resilience.

### Risk Types and Indicators

Through benchmarking with peers and referencing Ganfeng Lithium's historical catalog of climate-related risks and opportunities, the following 10 climate-related risks and opportunities have been identified for assessment and analysis of transition risks and opportunities under the selected high-carbon/low-carbon scenarios and different time frames (2030-2050).

Table 3-5 Transition risk and opportunity indicators

Type	Transition risk/opportunity driver	Scenario indicator
Transition risk	Policies and Regulations	Global carbon pricing, carbon intensity per unit GDP
	Technology	Global low-carbon investment amount
	Market	Global energy (electricity and fuel oil) prices
	Reputation	Global industrial emission intensity
Transition opportunity	Resource Efficiency	Global energy efficiency optimization investment amount
	Energy	Global total installed capacity of clean energy
	Market	Global storage market demand for lithium, supply of recycled lithium
	Products and Services	Global transportation sector electrification ratio and other battery energy storage demand












Financial Impact Assessment

Based on the climate risk assessment results, Ganfeng Lithium has further identified key risks and opportunities that have significant financial impacts for quantitative analysis. The climate variables with high risks/opportunities are translated into quantifiable indicators that can inform decision-making. This approach not only meets HKEx's requirements for the quantification of climate-related risks and opportunities as outlined in the new climate-related disclosure requirements but also identifies the sensitivity of key financial performance to these risks/opportunities. It provides data support for assessing the magnitude of risk exposure and the Company's ability to seize opportunities, further offering decision support for the allocation of corporate resources.

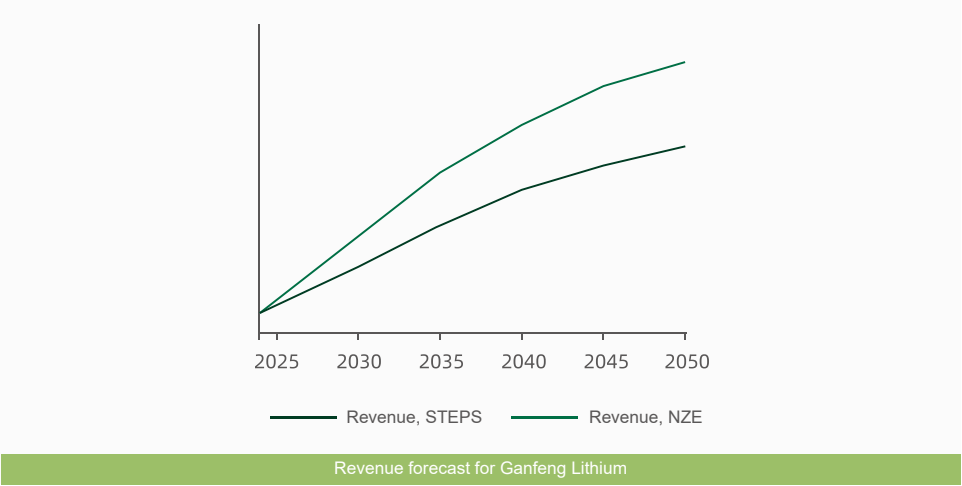
 <p>Scenario selection</p>	<p><b>The Stated Policies Scenario (STEPS)</b></p> <p><b>Net Zero Emissions by 2050 Scenario (NZE)</b></p>
 <p>Scope of assessment</p>	<p><b>Scope of Assessment:</b> Ganfeng Lithium</p> <p><b>Time Frame:</b> 2030, 2040, 2050</p>
 <p>Financial transmission path</p>	<p><b>Battery Demand Drives Revenue Growth (Opportunity)</b></p> <p>The accelerated global transition to low carbon is driving an increase in the penetration rate of renewable energy and electric vehicles and the expansion of energy storage capacity. Leveraging the wave of electrification, Ganfeng Lithium benefits from the growth in the installation of power batteries and the explosion of the energy storage market through the release of its lithium hydroxide/lithium carbonate production capacity and the iteration of battery technology. It is anticipated that the overall business revenue has significant growth potential.</p> <p><b>Low-Carbon Related Investments Increase Capital Expenditure (Risk)</b></p> <p>To achieve a low-carbon transition, Ganfeng Lithium systematically advances investments and implementations of low-carbon projects such as the low-carbon transformation of process equipment, the construction of closed-loop clean production, and intelligent energy efficiency management. The related capital expenditures<sup>7</sup> are expected to increase year by year in line with the global low-carbon trend.</p>

<sup>7</sup> The quantification assessment primarily focuses on equipment upgrades, electrification and intelligent transformation, and energy efficiency enhancement projects; therefore, the assessment results have certain limitations.

Battery Demand Drives Revenue Growth (Opportunity)

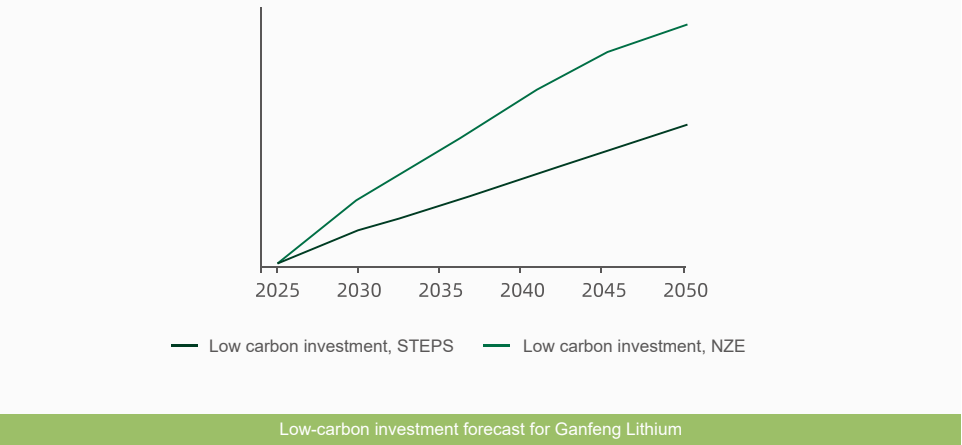
According to IEA's "Global Critical Minerals Outlook 2024" and the "Batteries and the Energy Transition" report, In the STEPS, the annual demand for electric vehicle (EV) batteries worldwide is expected to reach 7,000 GWh. The global additional installed capacity of energy storage batteries is projected to reach 760 GW. In the NZE Scenario, these figures will increase to 11,000 GWh and 3 TW, respectively.

With the significant increase in battery deployment in electric vehicles and grid energy storage, the demand for lithium resources from the global electric vehicle and clean energy industries will grow substantially. In the NZE scenario, by 2040, the demand for lithium is expected to increase by 8.7 times, reaching approximately 14 million metric tons, with 91% being used for clean energy. In conjunction with Ganfeng Lithium's industrial layout, and given the opportunities for market development, we have predicted Ganfeng's revenue potential by 2050 under different scenarios.



Low-Carbon Related Investments Increase Capital Expenditure (Risk)

Based on Ganfeng Lithium's historical investment in low-carbon projects, which include iterations of production-side process equipment such as the energy efficiency upgrades to evaporation systems, electrification of mining vehicles, the creation of a circular economy closed loop (e.g. flue gas desulfurization from kilns, waste heat recovery), and digital energy efficiency management (e.g. intelligent power distribution, smart warehousing), it is estimated that the investments in this category will continue to grow as a percentage of revenue. We have predicted the development trend of Ganfeng Lithium's capital expenditure on low-carbon technology applications up to 2050, based on the IEA's trend forecast for low-carbon investments.





# 04

## Climate Risk Management

Climate Risk Management Mechanism

Climate Risk Response

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# Climate Risk Management

Ganfeng Lithium considers climate change a crucial element of the Company's sustainable development strategy and integrates climate change into its long-term strategic planning. We have established a comprehensive risk management mechanism to monitor the Company's operational status, risks, and the implementation of response measures. On this basis, following the new climate regulations of HKEx and TCFD framework, we systematically advance climate risk management across the entire lithium industry chain, forming a closed-loop mechanism that covers risk identification, assessment, quantification, response execution, and continuous optimization. We further integrate the results of climate scenario analysis into strategic decisions such as capacity planning, process upgrades, and international market layout. Under the existing climate governance framework of the Company, we coordinate the planning of climate risk management and the implementation of low-carbon transition strategies to ensure dynamic coordination between risk prevention and control and the Company's long-term value creation goals, continuously enhancing the Company's climate resilience.

## Climate Risk Management Mechanism

Ganfeng Lithium incorporates climate-related factors into its risk management procedures, conducting climate risk management based on the existing enterprise risk management mechanism. The climate risk management mechanism mainly includes the following four steps:





## Climate Risk Response

As an active advocate of low-carbon transformation in the lithium industry, Ganfeng Lithium drives climate action through internal decarbonization and industry ecosystem collaboration. At the corporate operations level, a green production system is systematically constructed across energy structure transformation, enhancement of energy efficiency management, and transportation system upgrades. At the industrial collaboration level, vertical integration capabilities are leveraged to promote technological iteration and model innovations. Initiatives such as solid-state battery development and resource recycling contribute to the low-carbon process of the new energy industry. This response framework, spanning "self-operations-industrial linkage," not only enhances the Company's climate risk management efficiency but also provides a referable practice sample for the industry's carbon-neutral path through technological innovation.

### Green Emission Reduction

Ganfeng Lithium addresses climate risks in its operational processes by promoting low-carbon practices using clean energy, green transportation, and energy-saving retrofits. The following measures reflect the Company's exploration of transforming climate risk management into tangible technological actions:

#### Renewable Energy Projects Aid Carbon Emission Reduction and Climate Change Response

Ganfeng Lithium's Mariana Salt Lake project in Argentina officially commenced on February 12, 2025. Located in Salta Province, Argentina, the project has a total lithium resource of approximately 812,000 metric tons of LCE (Lithium Carbonate Equivalent), with an annual production capacity of 20,000 metric tons of lithium chloride in the first phase.



The Mariana Project's Self-Built Photovoltaic Power Station

To effectively reduce carbon emissions, the Company has laid out renewable energy solutions, constructing a photovoltaic power station with an installed capacity of 120 MW surrounding the project, coupled with a 288 MWh energy storage system using the Company's self-developed and self-produced battery products. This integrated energy solution not only ensures that the Mariana project operates entirely on renewable energy but also provides an uninterrupted power supply for 24 hours. This initiative significantly reduces dependence on traditional power supplies through the full use of self-produced photovoltaic electricity and improves the electricity usage efficiency with the energy storage system. Optimizing the use of peak and valley electricity price differences significantly reduces electricity costs. At the same time, the project greatly reduces carbon emissions during its operational period, effectively addressing the risk of power outages due to extreme weather. This enhances the stability of the power supply and reflects the Company's active exploration of climate change response.

#### Green Transportation Contributes to Achieving a Green Closed Loop of the Product's Entire Value Chain



The Electric Loader at the Factory Operation Site

Ganfeng Lithium has significantly reduced carbon emissions by extensively promoting the use of electric vehicles. During the reporting period, the Mahong factory significantly reduced diesel consumption by approximately 486,864 liters, equivalent to 1,265.85 tons of carbon dioxide emissions. Furthermore, electric forklifts and electric shovels are widely used in internal logistics and transportation within the factory. Each electric forklift reduces carbon dioxide emissions by about 53.95 tons per year, and each electric shovel reduces emissions by about 220.53 tons annually. These electric vehicles are equipped with high-performance power batteries manufactured by Ganfeng Lithium's battery division, enhancing transportation efficiency and creating a green closed-loop across the value chain, from raw materials to finished products.

#### Energy Efficiency Improvement through Energy Saving and Consumption Reduction

Ganfeng Lithium actively addresses climate risks while advancing the Company's transition to a low-carbon model and reducing energy dependence through a series of energy-saving technology projects. In 2024, the Company extensively adopted MVR (Mechanical Vapor Recompression) technology across several ongoing projects, reducing steam consumption for evaporating one ton of water from 0.45 tons to 0.1 tons. This significantly improves steam utilization and reduces carbon emissions.

Furthermore, Fengcheng Ganfeng introduced a lithium bromide absorption chiller unit, utilizing steam condensate and waste heat from air compressors as heat sources to achieve energy-saving goals. The Company also recovers waste heat from air compressors to supply hot water to employee dormitories, further reducing energy consumption.

### Promoting Low-Carbon Transition of the Industry Chain

Ganfeng Lithium promotes the low-carbon development of the new energy industry through innovative technology and collaboration within the industry chain. The lithium chemical board continuously improves the comprehensive utilization rate of lithium resources. It builds a resource recycling system by innovating clean lithium extraction processes, providing low-carbon raw material security for the lithium industry chain. The lithium battery sector focuses on developing high-safety, long-life battery technologies to enhance the environmental performance of electric vehicles and optimize battery structural design to reduce material consumption and production energy consumption. In addition, the battery recycling sector establishes a lithium resource recycling system, driving upstream and downstream to reduce resource waste together, providing practical references for the industry's green upgrade.

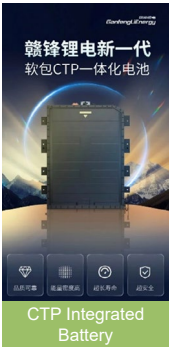
In terms of research and development direction, in 2024, the Company's lithium chemicals segment successfully developed brine extraction lithium technology. Compared to the traditional salt field evaporation lithium extraction technology, brine extraction lithium technology has significant advantages in reducing carbon footprint, decreasing water resource consumption, and improving extraction efficiency.

Traditional salt field evaporation lithium extraction technology relies on prolonged natural evaporation, making it less efficient, and often requires additional energy input in the subsequent lithium extraction process. In contrast, brine extraction lithium technology offers higher efficiency and selectivity and is capable of completing lithium extraction in a shorter time, thus reducing energy consumption. Moreover, extraction technology can further reduce energy consumption by optimizing the extraction agent and process conditions, thereby reducing carbon emissions.

Brine extraction lithium technology separates lithium ions directly from brine through chemical methods such as solvent extraction, without the need for large-scale evaporation concentration, significantly reducing the use of water resources. Additionally, the extraction process can further reduce the waste of water resources by recycling the extraction agent.

Brine extraction lithium technology reduces reliance on natural evaporation ponds, decreases dependence on climate conditions, and simultaneously reduces land occupation and the issue of soil salinization. Furthermore, this technology minimizes the impact on the ecological environment by optimizing the process and solvent system, reducing the use and discharge of chemical reagents.

#### Lithium Battery Business Division



Ganfeng Lithium's new generation of pouch-type CTP (Cell to Pack) integrated batteries, equipped with high-quality lithium iron phosphate cells, have an energy density of 190Wh/kg and support ultra-high rate discharge of over 10 C. By improving the energy storage efficiency per unit, these batteries reduce the material consumption throughout the entire life cycle of electric vehicles. The batteries feature an integrated design of conductive, insulating, and heat-resistant materials, along with a quadruple insulation protection system, ensuring there's no risk of thermal runaway in extreme testing environments. Their 74% packing efficiency and 50% reduction in module material significantly reduce carbon emissions from aluminium processing during the production phase, increase production efficiency by 30%, and further reduce the energy consumption intensity of manufacturing. The detachable protective armor and wide temperature range performance can broaden the battery's applicable scenarios and extend its service life, delaying the stage of disposal. Additionally, the lightweight structure can help reduce the overall weight of the vehicle, indirectly reducing energy consumption during driving.

#### Battery Recycling Business Division

Ganfeng Lithium has positioned itself in the field of battery recycling and has currently established a comprehensive recycling and treatment capacity of 234,000 tons of retired lithium-ion batteries and metal waste, becoming one of the largest enterprises in China for recycling lithium iron phosphate batteries and waste materials. Through technological innovation, Ganfeng Lithium has broken through five sets of technologies, including the collaborative transformation of multi-source lithium-containing waste, comprehensive lithium recovery, preparation of battery-grade lithium iron phosphate from lithium extraction residues, and high-value transformation of secondary lithium resources. This has enabled the efficient extraction of valuable metals and lithium compounds from waste batteries and their reuse in battery raw materials or lithium salt product manufacturing.

Additionally, Ganfeng Lithium has engaged in in-depth cooperation with battery manufacturers, vehicle manufacturers, and other industry chain partners to ensure a stable supply of waste batteries and lithium-containing waste. This cooperative model not only guarantees the sufficiency of recycled raw materials but also enhances battery recycling technology, expands recycling and reuse capacity, and provides strong support for dealing with the retirement cycle of lithium batteries in society. Furthermore, Ganfeng is creating a circular industry cluster, and has built five engineering demonstrations, forming a green and high-end circular integrated technology system for multi-source lithium waste and a comprehensive solution for high-end circular lithium resources. Relying on Jiangxi Province's national ecological civilization pilot zone, integrated demonstration bases have been established in Xinyu and Yichun, national lithium industry bases, supporting the secure supply of China's strategic lithium resources and the green transformation and upgrading of lithium industry clusters.

Ganfeng Lithium's battery recycling business achieves efficient resource utilization and whole-chain pollution control through technological innovation and industry chain collaboration, reducing carbon emissions and minimizing environmental impact. These measures not only promote the sustainable development of the lithium industry but also support the green transformation of the global new energy industry, demonstrating essential value in the circular economy and climate risk response.



# 05

## Metrics and Targets

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## Metrics and Targets

In response to the Paris Agreement and the national dual carbon goals, Ganfeng Lithium established carbon reduction targets for its lithium chemical business in 2020 based on the unit of lithium carbonate equivalent: compared to the base year of 2019, Ganfeng Lithium aims to reduce exhaust emissions per ton of product by 5%, carbon emissions per ton of product by 10%, water consumption per ton of product by 20%, coal consumption per ton of product by 6%, and to improve water recycling per ton of product by 20%, and increase the proportion of renewable electricity to 25% by 2025. In line with the Group's business development and strategic planning, Ganfeng Lithium is systematically reviewing its climate targets.

Table 5-1 Climate and Environmental Goals Setting and Achievement in the Current Year

	2019	2024	The achievement of the target by 2024
Exhaust Gas			
NOx Emission per Ton of LCE (Exhaust Gas)	3.48 kg	1.76 kg	Completed
SO <sub>2</sub> Emission per Ton of LCE (Exhaust Gas)	0.83 kg	0.55 kg	Completed
Particulate Matter Emission per Ton of LCE	0.52 kg	0.20 kg	Completed
Water Usage			
Water Consumption per Ton of LCE	38.3 t	10.40 t	Completed
Water Recycling Rate	72%	92.63%	Completed
Energy Consumption and Carbon Emissions			
CO <sub>2</sub> Emissions per Ton of Product	9.58 t	7.08 t	Completed
Coal Consumption per Ton of Product	3.09 t	0.84 t	Completed
Proportion of Renewable Electricity	-	19%	77% Completed

In 2024, Ganfeng Lithium established carbon emission accounting management regulations that include Scope 1 and Scope 2. In accordance with ISO 14064 standards and GHG Protocol requirements, we completed the inventory of Scope 1 and 2 emissions and collected Scope 3 data. At the same time, we monitor, track, analyze, and assess climate-related indicators and performance, and disclose our targets and indicators on a regular basis.

Table 5-2 Performance of Key Climate and Environmental Indicators

Indicator	Unit	2024			2023		2022
		Lithium Chemical Business Division	Lithium Battery Business Division	Overseas Business Division	Lithium Chemical Business Division	Lithium Battery Business Division	The Group
Total Greenhouse Gas (GHG) Emissions and Intensity							
Scope 1 GHG Emissions	10 kt of CO <sub>2</sub> equivalent	32.60	1.09	8.65	34.51	0.76	38.93
Scope 2 GHG Emissions	10 kt of CO <sub>2</sub> equivalent	57.91	28.56	0.46	40.37	24.40	47.20
GHG Emission Intensity (per unit of product)	tons of CO <sub>2</sub> equivalent per ton of LCE	7.08	-	-	7.18	-	8.86
GHG Emission Intensity (per unit of product)	tons of CO <sub>2</sub> equivalent per 10,000 units	-	1.67	-	-	2.30	-
GHG Emission Intensity (per unit of product)	tons of CO <sub>2</sub> equivalent per MWh	-	21.00	-	-	17.65	-
Direct and Indirect Energy (such as Electricity, Gas, or Oil) Consumption and Intensity by Type							
Indirect Energy Consumption							
Purchased Electricity	MWh	743,727	436,168	66,514	576,725	389,738	530,005
Of which, Green Electricity Purchased	MWh	140,870	95,645	45,717	254,811	119,545	100
Purchased Steam	GJ	2,387,202	783,157	-	2,154,963	817,793	3,694,902
Total Indirect Energy Consumption	MWh	1,406,497	653,591	66,514	1,175,017	616,776	1,555,837
Direct Energy Consumption							
Coal Consumption	tons	107,798	-	-	122,394	-	107,689
Diesel Fuel	liters	134,111	56,157	14,756,812	141,978	83,451	895,847
Gasoline	liters	3,547	16,627	-	3,024	19,317	1,848
Liquefied Petroleum Gas (LPG) Consumption	tons	-	-	32.43	0.95	-	-
Natural Gas Consumption	m <sup>3</sup>	24,665,679	5,415,810	15,218,807	15,530,400	3,686,117	16,158,700
Self-generated Renewable Energy Consumption	MWh	3,996	4,300	17,856,270	4,135	2,770	4,192
Direct Energy Consumption	MWh	872,776	57,891	18,154,055	868,634	39,771	796,932
Total Energy Consumption							
Comprehensive Energy Consumption	MWh	2,279,273	711,483	18,220,569	2,043,651	656,548	2,352,769
Comprehensive Energy Consumption Intensity (per unit of product)	MWh/ton of LCE	17.37	-	-	19.60	-	24.20
Comprehensive Energy Consumption Intensity (per unit of product)	MWh/10,000 units	-	4.25	-	-	4.87	-
Comprehensive Energy Consumption Intensity (per unit of product)	MWh/MWh	-	49.68	-	-	49.05	-
Clean Energy Consumption							
Clean Energy Consumption by Energy Type: Solar Energy	MWh	144,865	99,945	17,901,987	258,946	122,315	4,292
Clean Energy Consumption by Energy Type: Natural Gas	m <sup>3</sup>	24,665,679	5,415,810	15,218,807	15,530,400	3,686,117	16,158,700
Water Consumption							
Total Water Withdrawal (by Source of Withdrawal)	m <sup>3</sup>	2,410,832	1,396,126	147,572,177	2,230,736	1,145,335	-
Total Water Consumption (calculated as Water Withdrawal minus Water Discharge)	m <sup>3</sup>	1,352,224	1,027,864	145,142,662	1,135,676	820,463	-



# 06

## Appendix

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# Appendix

Index of the "Climate-related Disclosures" section in Part D of the Hong Kong Stock Exchange (HKEx) "Environmental, Social, and Governance (ESG) Reporting Guidelines"

Level		Content	Chapter Location
Governance	/	The governance body(s) (which can include a board, committee or equivalent body charged with governance) or individual(s) responsible for oversight of climate-related risks and opportunities.	Oversight by the Governance Layer Remuneration Incentive
		Management's role in the governance processes, controls and procedures used to monitor, manage and oversee climate-related risks and opportunities.	Management and Executive Departments Remuneration Incentive
Strategy	Climate-related Risks and Opportunities	Describe Climate-related Risks and Opportunities That Could Reasonably be Expected to Affect the Issuer's Cash Flows, Its Access to Finance or Cost of Capital Over the Short, Medium or Long Term.	Scope of Analysis, Scenarios, and Time Dimensions, Physical Risks, Transition Risks and Opportunities
		explain, for each climate-related risk the issuer has identified, whether the issuer considers the risk to be a climate-related physical risk or climate-related transition risk.	Physical Risks, Transition Risks and Opportunities
		specify, for each climate-related risk and opportunity the issuer has identified, over which time horizons – short, medium or long term – the effects of each climate-related risk and opportunity could reasonably be expected to occur.	Scope of Analysis, Scenarios, and Time Dimensions, Physical Risks, Transition Risks and Opportunities
		explain how the issuer defines 'short term', 'medium term' and 'long term' and how these definitions are linked to the planning horizons used by the issuer for strategic decision-making.	Scope of Analysis, Scenarios, and Time Dimensions, Physical Risks, Transition Risks and Opportunities
	Business Model and Value Chain	a description of the current and anticipated effects of climate-related risks and opportunities on the issuer's business model and value chain.	Physical Risks, Transition Risks and Opportunities, Financial Impact Assessment
		description of where in the issuer's business model and value chain climate related risks and opportunities are concentrated (for example, geographical areas, facilities and types of assets).	Physical Risks, Transition Risks and Opportunities, Financial Impact Assessment
	Strategy and Decision-Making	information about how the issuer has responded to, and plans to respond to, climate-related risks and opportunities in its strategy and decision-making, including how the issuer plans to achieve any climate-related targets it has set and any targets it is required to meet by law or regulation.	Climate Risk Management

Level		Content	Chapter Location
Strategy	Financial Position, Financial Performance, and Cash Flows (Current Financial Effect)	how climate-related risks and opportunities have affected its financial position, financial performance and cash flows for the reporting period.	Physical Risks, Transition Risks and Opportunities, Financial Impact Assessment
		the climate-related risks and opportunities identified in paragraph 24(a) for which there is a significant risk of a material adjustment within the next annual reporting period to the carrying amounts of assets and liabilities reported in the related financial statements.	Physical Risks, Transition Risks and Opportunities, Financial Impact Assessment
		how the issuer expects its financial position to change over the short, medium and long term, given its strategy to manage climate-related risks and opportunities, taking into consideration: i. its investment and disposal plans; and ii. its planned sources of funding to implement its strategy.	Physical Risks, Transition Risks and Opportunities, Financial Impact Assessment
		How the issuer expects its financial performance and cash flows to change over the short, medium and long term, given its strategy to manage climate-related risks and opportunities.	Physical Risks, Transition Risks and Opportunities, Financial Impact Assessment
		the issuer's assessment of its climate resilience as at the reporting date, which shall enable an understanding of: i. the implications, if any, of the issuer's assessment for its strategy and business model, including how the issuer would need to respond to the effects identified in the climate-related scenario analysis; ii. the significant areas of uncertainty considered in the issuer's assessment of its climate resilience; and iii. the issuer's capacity to adjust, or adapt its strategy and business model to climate change over the short, medium or long term.	Scope of Analysis, Scenarios, and Time Dimensions, Physical Risks, Transition Risks and Opportunities, Financial Impact Assessment
	Climate Resilience	how and when the climate-related scenario analysis was carried out, including: i. information about the inputs used, including: (1) which climate-related scenarios the issuer used for the analysis and the sources of such scenarios; (2) whether the analysis included a diverse range of climate-related scenarios; (3) whether the climate-related scenarios used for the analysis are associated with climate-related transition risks or climate-related physical risks; (4) whether the issuer used, among its scenarios, a climate-related scenario aligned with the latest international agreement on climate change; (5) why the issuer decided that its chosen climate-related scenarios are relevant to assessing its resilience to climate-related changes, developments or uncertainties; (6) time horizons the issuer used in the analysis; and (7) what scope of operations the issuer used in the analysis (for example, the operation, locations and business units used in the analysis) ii. the key assumptions the issuer made in the analysis; and iii. the reporting period in which the climate-related scenario analysis was carried out	Scope of Analysis, Scenarios, and Time Dimensions, Physical Risks, Transition Risks and Opportunities, Financial Impact Assessment



Level		Content	Chapter Location
Risk Management	/	<p>The processes and related policies it uses to identify, assess, prioritize and monitor climate-related risks, including information about:</p> <p>i. the inputs and parameters the issuer uses (for example, information about data sources and the scope of operations covered in the processes);</p> <p>ii. whether and how the issuer uses climate-related scenario analysis to inform its identification of climate-related risks;</p> <p>iii. how the issuer assesses the nature, likelihood and magnitude of the effects of those risks (for example, whether the issuer considers qualitative factors, quantitative thresholds or other criteria);</p> <p>iv. whether and how the issuer prioritizes climate-related risks relative to other types of risks;</p> <p>v. how the issuer monitors climate-related risks; and</p> <p>vi. whether and how the issuer has changed the processes it uses compared with the previous reporting period.</p>	Climate Risk Management
		<p>The processes the issuer uses to identify, assess, prioritize and monitor climate related opportunities (including information about whether and how the issuer uses climate-related scenario analysis to inform its identification of climate-related opportunities)</p>	Climate Risk Management
		<p>The extent to which, and how, the processes for identifying, assessing, prioritizing and monitoring climate-related risks and opportunities are integrated into and inform the issuer's overall risk management process</p>	Climate Risk Management
Metrics and Targets	Greenhouse Gas Emission	<p>An issuer shall disclose its absolute gross greenhouse gas emissions generated during the reporting period, expressed as metric tons of CO<sub>2</sub> equivalent, classified as:</p> <p>(a) Scope 1 greenhouse gas emissions;</p> <p>(b) Scope 2 greenhouse gas emissions; and</p> <p>(c) Scope 3 greenhouse gas emissions</p>	Metrics and Targets
		<p>Measure its greenhouse gas emissions in accordance with the Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (2004) unless required by a jurisdictional authority or another exchange on which the issuer is listed to use a different method for measuring greenhouse gas emissions.</p>	Metrics and Targets
		<p>Disclose the approach it uses to measure its greenhouse gas emissions including:</p> <p>i. the measurement approach, inputs and assumptions the issuer uses to measure its greenhouse gas emissions;</p> <p>ii. the reason why the issuer has chosen the measurement approach, inputs and assumptions it uses to measure its greenhouse gas emissions; and</p> <p>iii. any changes the issuer made to the measurement approach, inputs and assumptions during the reporting period and the reasons for those changes;</p>	Metrics and Targets
		<p>For Scope 2 greenhouse gas emissions disclosed in accordance with paragraph 28(b), disclose its location-based Scope 2 greenhouse gas emissions, and provide information about any contractual instruments that is necessary to enable an understanding of the issuer's Scope 2 greenhouse gas emissions; and</p>	Metrics and Targets
		<p>For Scope 3 greenhouse gas emissions disclosed in accordance with paragraph 28(c), disclose the categories included within the issuer's measure of Scope 3 greenhouse gas emissions, in accordance with the Scope 3 categories described in the Greenhouse Gas Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard (2011).</p>	Metrics and Targets

	Level	Content	Chapter Location
Metrics and Targets	Climate Related Transition Risk <sup>8</sup>	An issuer shall disclose the amount and percentage of assets or business activities vulnerable to climate-related transition risks.	/
	Climate Related Physical Risk <sup>9</sup>	An issuer shall disclose the amount and percentage of assets or business activities vulnerable to climate-related physical risks.	/
	Climate Related Opportunity	An issuer shall disclose the amount and percentage of assets or business activities aligned with climate-related opportunities.	Financial Impact Assessment
	Capital Deployment	An issuer shall disclose the amount of capital expenditure, financing or investment deployed towards climate-related risks and opportunities.	Financial Impact Assessment
	Internal Carbon Pricing <sup>10</sup>	An explanation of whether and how the issuer is applying a carbon price in decision making (for example, investment decisions, transfer pricing, and scenario analysis); and	/
		The price of each metric tonne of greenhouse gas emissions the issuer uses to assess the costs of its greenhouse gas emissions;	/
	Remuneration	An issuer shall disclose whether and how climate-related considerations are factored into remuneration policy, or an appropriate negative statement. This may form part of the disclosure under paragraph 19(a)(iv).	Remuneration Incentive
	Industry-based Metrics	An issuer is encouraged to disclose industry-based metrics that are associated with one or more particular business models, activities or other common features that characterize participation in an industry.	Metrics and Targets
	Climate Related Targets	An issuer shall disclose (a) the qualitative and quantitative climate-related targets the issuer has set to monitor progress towards achieving its strategic goals; and (b) any targets the issuer is required to meet by law or regulation, including any greenhouse gas emissions targets. For each target, the issuer shall disclose: (a) the metric used to set the target; (b) the objective of the target (for example, mitigation, adaptation or conformance with science-based initiatives); (c) the part of the issuer to which the target applies (for example, whether the target applies to the issuer in its entirety or only a part of the issuer, such as a specific business unit or geographic region); (d) the period over which the target applies; (e) the base period from which progress is measured; (f) milestones or interim targets (if any); (g) if the target is quantitative, whether the target is an absolute target or an intensity target; and (h) how the latest international agreement on climate change, including jurisdictional commitments that arise from that agreement, has informed the target.	Metrics and Targets
		An issuer shall disclose information about its approach to setting and reviewing each target, and how it monitors progress against each target, including: (a) whether the target and the methodology for setting the target has been validated by a third party; (b) the issuer's processes for reviewing the target; (c) the metrics used to monitor progress towards reaching the target; and (d) any revisions to the target and an explanation for those revisions.	Metrics and Targets

<sup>10</sup> The Company has not yet implemented an internal carbon pricing mechanism, primarily because the reduction of emissions is progressing well through the establishment and breakdown of emission reduction targets and the setting of an internal carbon pricing mechanism is not a necessary step currently.



Level	Content	Chapter Location
Metrics and Targets	<p>An issuer shall disclose information about its performance against each climate-related target and an analysis of trends or changes in the issuer's performance.</p>	Metrics and Targets
	<p>For each greenhouse gas emissions target disclosed in accordance with paragraphs 37 to 39, an issuer shall disclose:</p> <p>(a) which greenhouse gases are covered by the target;</p> <p>(b) whether Scope 1, Scope 2 or Scope 3 greenhouse gas emissions are covered by the target;</p> <p>(c) whether the target is a gross greenhouse gas emissions target or a net greenhouse gas emissions target. If the issuer discloses a net greenhouse gas emissions target, the issuer is also required to separately disclose its associated gross greenhouse gas emissions target;</p> <p>(d) whether the target was derived using a sectoral decarbonization approach; and</p> <p>(e) the issuer's planned use of carbon credits to offset greenhouse gas emissions to achieve any net greenhouse gas emissions target. In explaining its planned use of carbon credits, the issuer shall disclose:</p> <p>(i) the extent to which, and how, achieving any net greenhouse gas emissions target relies on the use of carbon credits;</p> <p>(ii) which third-party scheme(s) will verify or certify the carbon credits;</p> <p>(iii) the type of carbon credit, including whether the underlying offset will be nature-based or based on technological carbon removals, and whether the underlying offset is achieved through carbon reduction or removal; and</p> <p>(iv) any other factors necessary to enable an understanding of the credibility and integrity of the carbon credits the issuer plans to use (for example, assumptions regarding the permanence of the carbon offset).</p>	Metrics and Targets
	<p>Applicability of Cross-industry Metrics and Industry-based Metrics</p>	<p>In preparing disclosures to meet the requirements in paragraphs 21 to 26 and 37 to 38, an issuer shall refer to and consider the applicability of cross-industry metrics (see paragraphs 28 to 35) and (ii) industry-based metrics (see paragraph 36).</p>



