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## Monetary Unit

## Report Access

### Names in the Report

	Abbreviation	Fu
	Liaoning Port / The Company / We	Liaoni
	Dalian Port	Dalian Port
1	Yingkou Port	Yingkou F
	Dandong Port	Dandong
	Panjin Port	Panjin Po
	Suizhong Port	Suizhong

#### Contact Information

Your feedback is immensely important for the Company to continually enhance its environmental and social performance. If you have any questions or suggestions about this Report, please feel free to contact us through the following methods:

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## **About this Report**

This report is the 9th ESG/sustainable development report released by Liaoning Port Co., Ltd. to the public. Adhering to the principles of authenticity and reliability, it discloses to all stakeholders the work carried out and achievements obtained by the company in the fields of environment, society, and corporate governance in 2024.

## **Reporting Scope**

Unless otherwise stated, the organizational scope of this Report covers the Company and its subsidiaries. The period covered by this Report starts from January 1, 2024 to December 31, 2024. Some content extends beyond this scope.

## Basis of This Report

This Report is prepared in accordance with the Study on ESG Special Report Compilation for Listed Companies Controlled by Central Enterprises issued by the State-owned Assets Supervision and Administration Commission of the State Council, the Environmental, Social and Governance Reporting Guide by Hong Kong Exchanges and Clearing Limited (HKEX), the Guidelines No. 14 of Shanghai Stock Exchange for Self-Regulation of Listed Companies—Sustainability Report (Trial) by Shanghai Stock Exchange (SSE) and the Sustainability Reporting Standards (GRI Standards) released by Global Reporting Initiative (GRI).

## Reporting Principles

Materiality	Based on the results of stakeholder communication and using materiality assessment, the Company's material issues during the reporting period were identified, and then this Report is prepared around material issues
Quantitative	Disclose quantifiable key performance indicators, and provide notes specifying the standards, methodologies and applicable assumptions used for quantitative information where appropriate
Balance	Disclose the achievements and changes in the Company's ESG management efforts, providing a comprehensive overview of its performance related to ESG
Consistency	Where feasible and unless otherwise stated, the disclosure and statistical methods are consis- tent with previous reports to ensure meaningful comparisons

## Data Source

Unless otherwise indicated, all information and data referenced in this Report is based on the Company's internal documentation or relevant public documents. This report has been reviewed and approved by the Company's Board of Directors. The Board of Directors of the Company warrants that this Report contains no inaccurate records, misleading statements or major omissions.

## **Report Preparation Process**

This Report is compiled through stages including research

#### ull Name

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Corporation Limited

Port Group Co., Ltd.

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## **About Liaoning Port**

## **Company Profile**

Liaoning Port Co., Ltd. (hereinafter referred to as "Liaoning Port") is one of the listed port companies in northern China with the largest scale in terms of assets, revenue, and profit. The Company primarily engages in container, oil and chemical, bulk and general cargo, as well as passenger and roll-on/roll-off terminal businesses, which are mainly distributed across four major port areas in Dalian and Yingkou: Dayao Bay, Bayuquan, Dalian Bay, and Changxing Island, while overseeing operations in regions such as Panjin, DanDong and Suizhong. The Company now operates 217 specialized modern berths, including 174 berths of 10,000 DWT and above. These include world-class facilities such as a 450,000 DWT crude oil terminal, a 400,000 DWT ore terminal, a 200,000 DWT container terminal, and a 70,000 DWT automobile ro-ro terminal. Liaoning Port is committed to building world-class strong ports and putting all efforts in support of the development of the Northeast Asia International Shipping Center, the Northeast Asia International Logistics Center, and the Northeast Sea-Land Corridor. The Company has established maritime trade and shipping links with over 300 ports in more than 160 countries and regions, forming a feeder network covering major ports in the Bohai Rim and a comprehensive collection and distribution system with over a hundred sites throughout Northeast China.

## 2 Modern Specialized Berths 217 Berths 174 DWT Crude 0il Terminal 450,000 DWT Ore 400,000 TEU Container 200,000 DWT Automobile 70,000 Ro-Ro Terminal 160+ Countries/Regions via Maritime Trade

In addition, its China-Europe freight train services extend deep into the European hinterland. Centered on Dalian, Liaoning Port has built an international logistics corridor for the transshipment of commercial vehicles between Japan, South Korea, and Central Asia. Upholding the strategic vision of "building world-class strong ports", Liaoning Port fully implements new development philosophies, prioritizes high-quality development, undertakes the strategic task of establishing a new development pattern, and continually strengthens its frontier thinking and openness mindset, aiming to play a more prominent role in facilitating the domestic and international dual circulation.

## Corporate Culture •••

In 2024, Liaoning Port, driven by its commitment to building world-class strong ports, embedded a culture of innovation, responsibility, service, and dedication into its corporate development and day-to-day practices. As the closest seaport to the northeast hinterland, the Company upholds the mission of "carrying forward a century-old legacy and contributing to the revitalization of Northeast China," while pursuing the vision of building world-class strong ports. In 2024, the Company gave a full play to its core business strengths, remained client-centric to develop products and services based on client needs and experiences, cultivating a culture of active commercial engagement and steadily promoting brand building initiatives. Through the construction of a series of service brands, the Company has achieved an organic integration of corporate culture with its development strategy and competitive strengths.



The Company stays committed to its corporate social responsibilities. In addition to fully supporting the consumption assistance initiatives of higher-level organizations, the Company actively encourages its subsidiaries to explore and participate in public welfare programs. Notable volunteer initiatives such as the "Love in Action, Sunshine for All" Volunteer Service Platform in Support of Children from Disadvantaged Families, the "Protecting Our Mother Sea"-"Flame Blue" Volunteer Service Project for Coastal Cleanup and Environmental Protection at Liaoning Port, and the "Rainbow with Sunset - Walking Together with the Elderly" Senior Care Project have all received industry-level honors. The Company is committed to giving back to society, local communities, and the environment, thereby establishing a positive social image.

## Events of the Year







## January

In January, "Unmanned Container Truck Project" at the container terminal officially entered production service at the beginning of 2024, after successful preliminary testing and on-site operational adjustments and demonstrating excellent overall performance.

In January, "Dalian Port—South America West" container ocean shipping route was officially launched at the container terminal. This initiative not only fills the gap in direct shipping services from the Group to the South America region but also significantly enhances the connectivity between Dalian Port and South America, providing strong support for the Group's expansion of its global shipping network and optimization of route portfolio.

July

In July, the "Dalian-Mexico Express Container Route" was officially launched at the container terminal, further expanding Dalian Port's container shipping network to Mexico. This new route provides a fast and convenient direct maritime link between Northeast China and Latin America, and is expected to significantly boost the import of cold-chain goods such as fruits, seafood, and meat products from Latin America.

## **November**

On November 29, Tang Hong, a ro-ro vessel under CMRORO, arrived at the automobile terminal from North America and was then loaded with 2,600 domestically traded vehicles bound for Ningbo and Shanghai. This marked the first-time innovative "foreign-to-domestic" ro-ro shipping model at Dalian Port, effectively repurposing international transport capacity for domestic logistics and addressing the current shortfall in domestic ro-ro shipping capacity.

operations at the container terminal. This initiative fills the gap in direct shipping services from Dalian Port to India and establishes a maritime logistics channel between Northeast China and South Asia. In January, in order to further promote the "5G + Industrial Internet"

In January, the first direct foreign trade container shipping route to

India, the "Dalian–India" fast shipping route, officially commenced

innovation and development initiative and build Chinese 5G factory brands, the Ministry of Industry and Information Technology of China released the 2023 5G Factory Directory, and "Dalian Container Terminal 5G Smart Port" was the only project included as a "Water Transportation Factory" from Liaoning Province.

## June

• The Company held the 2023 General Meeting of Shareholders.

• In April, the ultra-large container vessel OOCL Abu Dhabi, independently developed in China and boasting a record capacity of 24,188 TEUs, made its maiden call at DCT, once again setting a new record for the largest vessel ever docked at the Group's terminals.

 In April, two MQ40t-37m multifunctional portal cranes were commissioned at the Group's bulk and general cargo terminal. During their first operation, the cranes completed the unloading of a 77,000-ton coal vessel in just 70 hours, improving operational efficiency by 30% and marking a new stage in the Group's crane automation capabilities.

## December

• On December 24, the automobile terminal launched its inaugural liner route from Dalian to the of 600.000 roll-on/roll-off vehicles, raising its market terminals achieved a Persian Gulf. This route fills a gap in Dalian's connections to the Middle East and establishes an efficient and convenient logistics corridor for Chinese automo- made outstanding contributions to the developtive brands going global. It also serves as a concrete ment of the Northeast Asia International Shipping tons, setting a new height measure to support the normalized operation of Center, Northeast Asia International Logistics in the Group's oil terminal "national vehicles carried by national ships."

In 2024, the passenger terminal handled a total share to 48.5%. This further solidified Dalian Port's record-breaking leading position in the ro-ro logistics market and transshipment throughput Center, and the Northeast Sea-Land Corridor.

## **February**

• On February 27th, the first transit commercial vehicle container train from Dalian to Almaty successfully arrived in Almaty, Kazakhstan. For the first time, the automobile terminal transported transit commercial vehicles to Central Asia in the combined transport mode of "roll-on/roll-off maritime transport + container train". The successful operation of the train further innovates and enriches the logistics mode of commercial vehicle transit transportation, providing strong support for expanding and strengthening the sea-land corridor for commercial vehicles.



## April

of 12.58 million metric operations.

## Business Overview

#### Strong competitive edge 🛶

02

01

Enhance the

capability of

value-added services

The natural deep-water ports owned by Liaoning Port boast leading capabilities in berth depth and notable strengths in terms of berth quantity and infrastructure. In 2024, the Company remained focused on high-quality development, centered its efforts on quality and efficiency improvement, while emphasizing innovation and strategic collaboration. It expanded service coverage, diversified service offerings, and enhanced service quality, achieving steady progress in operations and maintaining a strong competitive position within the port industry.



Priority is given to the development of value-added port services such as full-chain logistics, port information services, bonded warehousing, mixing processing, and near-port trade. Through collaboration with railway operators, shipping lines, and customs authorities, the Company actively extended the service chain, enhanced port functionality, and strengthened its



02

#### The advantages of the comprehensive logistics

system

\_everaging its advantageous location and ber nfrastructure, the Company integrated po ogistics resources to offer tailored, one-sto end-to-end logistics solutions for its client Guided by market demand, the Company conti ued to refine a "three-corridor, four-dimensio al"integrated logistics framework





the company adheres to its operational principles of "expanding the market externally, driving reform internally, upholding integrity with innovation, and improving quality and efficiency." It stays focused on fostering innovative products and services, building hub channels, expanding service functionalities, establishing specialized brands, advancing platform development, and deepening collaboration with internal and external customers. Through these efforts, the Company is building a comprehensive logistics service system that serves national strategies, supports industrial development, and meets customer needs.

## Honors and Awards



Exemplary Case in Digitalization for the Logistics Industry at the 2023 Digital Transformation and Innovation Awards Zhiduoxing Platform



### 2023 Outstanding Central-Local Cooperation Contribution Award

The Administration Committee of the China (Liaoning) Pilot Free Trade Zone, Dalian Area (Dalian Free Trade Zone)



## Top 50 Chinese Logistics Enterprises 2024

China Federation of Logistics & Purchasing (CFLP)



AAAAA Logistics Enterprise





## **Board Statement**

### Board Commitment

The Board of Directors is committed to ensuring that the Company and the Board strictly adhere to the regulatory requirements including the Code of Corporate Governance for Listed Companies by the China Securities Regulatory Commission (CSRC), the Corporate Governance Code and the ESG Reporting Guide by SEHK, and continuing to enhance the ESG governance system. The Board of Directors actively fulfills its oversight and decision-making responsibilities, drives the in-depth integration of ESG management into the Company's development strategy, major decisions, and operational activities, and reinforces the systematic and forward-looking nature of ESG work.



The Board, the highest decision-making body regarding the Company's ESG affairs, takes full responsibility for ESG management efforts. The Board's responsibility ranges from defining strategic objectives and key tasks, overseeing and evaluating the effectiveness of ESG plans, fully meeting regulatory ESG requirements, and regularly reviewing progress on ESG initiatives to ensure that relevant measures are effectively executed.

## 2024 Continuously enhance the Oversee and evaluate the effectiveness of ESG governance system ESG plans

#### ESG Management Strategy and Policy

Guided by the mission of "carrying forward a century-old legacy and contributing to the revitalization of Northeast China," the Company upholds the corporate spirit of "Responsibility, Service and Dedication," and practices the core values of "Endeavors Create Value and Actions Lead to Success." By aligning ESG strategy deeply with its corporate development plan and management system, the Company has promoted effective ESG governance across departments through a scientific and transparent management mechanism. This ensures the implementation of ESG principles and helps fulfill the Company's commitments to its stakeholders.

We place great emphasis on communicating with all stakeholders and conduct the annual stakeholder survey to enhance the quality and effectiveness of the communication. We integrate ESG principles and requirements into our corporate development strategy, providing clear guidance for all departments and subsidiaries to ensure the efficient and coordinated advancement of ESG initiatives.

## Goals, Indicators and **Progress Review**

The Company works to establish a mechanism for ESG goal management. When planning development and work priorities, we set performance targets concerning green port construction, smart port development, workplace safety, internal control compliance, as well as internal auditing. Furthermore, certain key ESG indicators have been integrated into performance-based pay assessment system of senior executives to promote the effective implementation and continuous optimization of ESG goals

# Sustainable Development Management



**Governance Level** 

Board of Directors

of the Company

## Scientific Management for Sustainable Development

#### Governance

Liaoning Port has established a clearly defined sustainable development management structure through refined top-level design and has further strengthened its supervisory and governance capabilities. The Board of Directors is the highest authority responsible for ESG management. It has established a Strategy and Sustainable Development Committee, which is tasked with providing recommendations on the Company's long-term development strategy, ESG management, and major investment decisions.

<b>Responsibilities of</b>
Strategy and Sustainable
Development Committee

Researching and propos- ing strategic recommen- dations	To study the Company's long-term development strategy and ESG objectives, propose specific suggestions and advance the realization of its sustainable development goals. To review the environmental, social, and governance implications of major investment and capital operation projects and propose improve- ment suggestions to ensure alignment with the Company's ESG standards.	
ESG considerations in investment decisions		
Review and supervision of the ESG report	To review the Company's annual ESG reports and supervise the accuracy and transparency of all environmental, social, and governance metrics contained therein.	
Promoting sustainable development and social responsibility practice	To oversee and facilitate the implementation of initiatives related to environmental protection, social responsibility, and good governance to ensure operations are in line with the Company's sustainability goals.	

#### **The Management**

The Strategy and Sustainable **Development Committee comprises** five directors and is chaired by the Chairman of the Board. The committee's term is aligned with that of the Board.

## Organizational **Structure**

**Executive Level** 

All functional departments and subsidiaries of the Company:

Responsible for ESG activities within their respective domains as well as collaborating on ESG-related tasks such as gathering and organizing information, and statistically analyzing indicators and reporting data.

The Committee Chairperson is responsible for convening and presiding over committee meetings, supervising and reviewing the committee's work, signing related documents, and reporting to the Board. Each department is responsible for regularly reporting ESG-related progress and developments to the committee. During the reporting period, the Company continued to advance ESG management, with a strategic focus on climate change, environmental protection, low-carbon transition, workplace safety, and occupational health. Standardized management protocols and regular supervisory mechanisms have been further enhanced to promote long-term sustainable development.

#### Senior Management Performance Assessment

The Company has established a comprehensive performance evaluation system for senior executives, covering the Board of Directors, the management team, and relevant entities in the assessment of sustainable development performance. The Remuneration and Appraisal Committee of the Board of Directors is responsible for reviewing the performance of directors, supervisors, the general manager, and other senior management personnel, and for conducting annual performance evaluations. The Company has formulated the 2024 Business Performance Assessment Plan and organized senior executives to sign the 2024 Key Performance Indicator (KPI) Contract of Liaoning Port Co., Ltd., covering areas such as foundational management, special tasks, risk management, workplace safety, and energy conservation and environmental protection. At the same time, individual performance accountability agreements have been signed with the leadership team, and the Enterprise Management Department is responsible for the submission of assessment data to ensure effective implementation of the performance assessment system.

### Strategy

Liaoning Port consistently upholds the mission of "carrying forward a century-old legacy and contributing to the revitalization of Northeast China," adheres to the vision of "building world-class strong ports," and embraces a corporate spirit of "innovation, responsibility, service and dedication," with ESG strategy deeply integrated into the Company's overall development strategy and business operations.

In terms of governance and operational management, the Company has established a robust internal control and risk management system to analyze and identify ESG-related risks and their impacts, and has filtered out risk factors with high relevance to ESG for further evaluation of strategic countermeasures.

Risks and opportunities in sustainable development are categorized into three phases by time horizon: short-term (within 5 years), medium-term (5–15 years), and long-term (over 15 years). For each phase, appropriate financial, technological and management resources are allocated, and corresponding support measures are developed and implemented to ensure comprehensive support and realization of the Company's long-term development goals.







Risk Type	<b>Risk Description</b>	Response Plan
Governance System Risks	Inadequate operational oversight, resulting in failure to promptly address management issues in subsidiar- ies and affecting the achievement of corporate business objectives	Efforts are made to strengthen supervision of directors, supervisors, and senior executives to ensure diligent and efficient performance, enhancing the management of invested enterprises from multiple dimensions and perspec- tives
Legal Compli-	Significant changesNon-standard contractin businesssigning processes orconditions causedfailure to strictly performby newly issued orrights and obligations inrevised laws,accordance withregulations,contract terms, leadingstandards, orto contract executionindustrial policiesrisks	The Legal & Compliance Department timely tracks and interprets newly issued or revised laws and regulations, assesses their impact on the Company's operations, and works with relevant departments to adjust business strategies, ensuring compliance and effective risk response Special inspections on contract management are conduct- ed, with targeted training or legal compliance forums organized to enhance risk control and response capabilities in contract performance
Environmen- tal Risks	Lack of environmental protection facilities or violations of relevant regulations may result in environmental pollution incidents or excessive emissions, leading to legal disputes or administrative penalties and posing the risk of financial losses	The Company's environmental protection policies are strictly followed, with ecological and environmental protection activities in full compliance with laws and regulations. The three-year environmental rectification action plan is carried out to improve environmental facilities, strengthen the operation and maintenance management of such facilities, and environmental monitoring is conducted to ensure pollutant emissions meet standards and reduce environmental management risks
Safety Risks 🛞	Undetected safety hazards caused by deficiencies in workplace safety management systems, ineffective monitoring of daily workplace safety conditions, underreporting/misreporting of incidents, or formalis- tic or incomplete safety inspections, resulting in the risk of safety incidents.	The workplace safety responsibility system is established and improved, clarifying safety duties for each position under the "one post, one responsibility, one checklist" policy. An annual special safety inspection plan is issued to conduct regular on-site inspections, spot checks, night inspections, and patrols accordingly. A comprehensive emergency response system is established and linked to emergency response plans across all levels, with regular emergency drills conducted. Improve the development of safety management systems, strengthen the standardiza- tion and promotion of safety practices at the team level, and reinforce on-site safety management and the investigation and handling of violations of regulations, procedures, and discipline.
Supply Chain (Risks	Tender failures, misconduct or property loss caused by non-compliance with procedural requirements in the procurement process, and failure to establish or verify suppliers' qualifications and performance capacity	A new supplier management policy has been formulated to conduct comprehensive assessments on selected suppliers based on the principles of "multi-entity comprehensive evaluation and multi-dimensional dynamic quantification". In cases of misconduct, different levels of disciplinary measures will be applied depending on the severity of the behavior
Integrity Risks	Improper, unfair or unethical use of authority by company executives which are in violation of integrity and self-discipline regulations	The Company has strengthened oversight and manage- ment of its executives, deepened the rectification guided by the Central Committee's Eight-point Decision on improving Party and government conduct, developed integrity risk control measures, and strictly enforced systems such as executive evaluations and performance and integrity reporting to address related issues in a timely manner



ESG Capability Enhancement Mechanism

The Company regularly invites external professionals to conduct ESG-related training and exchanges, sharing industry trends, key topics, and ESG rating essentials to ensure that ESG management and disclosures meet practical needs and support the Company's sustainable development.

### Impact, Risk and Opportunity Management

The Company adheres to the principle of "prevention first, emergency response second," and follows policies such as the Guidance on Compliance Management for Central Enterprises to systematically classify corporate risks and evaluate them based on likelihood and impact:

The Company developed evaluation questionnaires for risk evaluation and distributed to relevant personnel for scoring. The maximum score is 5 points, with increments of 0.5 points. The final risk assessment score is calculated by this formula: Final Risk Score = Likelihood of Occurrence × Severity of Impact, based on which the risk level is determined.



based on

#### Final Risk Score =

Likelihood of Occurrence × Severity of Impact

which the risk level is determined





## **Indicators and Targets**

Through the KPI performance contracts and management accountability agreements, Liaoning Port integrates sustainability-related topics into its performance evaluation system, using a goal-oriented approach to reinforce the implementation of environmental, social, and governance (ESG) responsibilities, and ensure that the sustainable development strategy is effectively advanced in corporate operations and management.

Technologi- cal Innova- tion	The process standardization working group is to be established to formulate unified process templates and improve standardization in process management.
Digital Transfor- mation	<ul> <li>Application of Artificial Intelligence: The development of Liaoning Port's large model should be promoted.</li> <li>Upgrading Business</li> <li>Digital Systems: The transition of systems at three port terminals has to be completed.</li> <li>Upgrading Intelligent Equipment: Remote-control testing of two portal cranes should be completed, with two more fabricated to promote intelligent upgrades in port equipment.</li> </ul>
Workplace Safety	<ul> <li>Incident Prevention and Control: Safety incidents at Level-II and above have to be eliminated and the safety management system has to be better constructed.</li> <li>Emergency Response: Emergency rescue and investigation of workplace incidents are to be organized or participated, adopting strict accountability and rectification measures, and enhancing corporate safety management.</li> </ul>
Environ- mental Protection	<ul> <li>Pollution Prevention and Control: Emergent environmental incidents at Level-II and above have to be eliminated to ensure the effective operation of environmental management system.</li> <li>Emergency Management: Handling and investigation of environmental emergencies are to be organized or participated, with emergency response capabilities enhanced and regular emergency drills conducted.</li> </ul>
Leading Role of Party Building	Party-building and disciplinary education activities are to be organized to reinforce integrity and strengthen political awareness and responsibility among Party members.
Internal Control Risks and Compliance	<b>Internal Control System Optimization:</b> All required evaluations have to be completed; full-process evaluations should be advanced; and, the effectiveness of the internal control system should be assessed to optimize weak areas systematically. <b>Risk Control Supervision:</b> Reasonable supervision resources should be arranged to achieve full internal control coverage within two years and improve risk management capacity.

## Issue Identification •••



The Company follows the process of "Stakeholder Engagement – Issue Identification – Materiality Assessment – Review and Confirmation" to carry out stakeholder investigation and assess material ESG issues. It has systematically identified key ESG issues facing the Company and evaluated each issue based on two dimensions: financial materiality and impact materiality. **16** highly relevant issues to the Company were identified according to local regulatory policies, stakeholders' needs, ESG disclosure standards, and major international ESG rating frameworks.



A questionnaire about sustainability materiality was distributed to stakeholders to gather their views on issue importance and suggestions for improvement. Following expert review and Board deliberation, Liaoning Port finalized its 2024 Materiality Matrix for Sustainable Development.





Based on results of the stakeholder survey and aligned with the Company's development strategy, expert input, and industry trends, critical material issues such as climate change, supply chain security, and environmental compliance have been identified.





## Communication with Stakeholders

The Company maintains ongoing communication with stakeholders such as investors, customers, and government bodies, and tracks the issues of concern to each. Through shareholder meetings, reception visits, hotline services, corporate website, new media platforms and other channels, the Company has expanded the scope and depth of communication and strengthened stakeholder recognition. An annual stakeholder survey is conducted to improve communication efficiency and quality. ESG concepts have been integrated into development strategies to guide departments and subsidiaries in collaborative advancement, ensuring full participation and synergy across the organization.

Stakeholders	Issues Concerned	Communication Channels	Communication Frequence
Shareholders and Investors	<ul> <li>Shareholders' rights and interests</li> <li>Corporate governance</li> <li>Risk manage- ment &amp; control</li> </ul>	<ul> <li>Instant messaging and phone communication</li> <li>Investor meetings</li> <li>Result presentation</li> <li>General Meeting of Shareholders</li> <li>Roadshows and reverse roadshows</li> <li>Research questionnaires</li> </ul>	<ul> <li>Weekly</li> <li>Monthly</li> <li>Semi-annually</li> <li>Annually and as needed</li> <li>Semi-annually and as needed</li> <li>Annually</li> </ul>
Employees	<ul> <li>Occupational health and safety</li> <li>Employee rights and interests</li> <li>Employee development</li> <li>Employee well-being</li> </ul>	<ul> <li>Employee training (including online platforms)</li> <li>Community feedback online platform</li> <li>General Manager reception days</li> <li>Employee assemblies</li> <li>Employee discussion forums</li> <li>Chairman, Trade Union</li> <li>Chairman and Secretary of Disciplinary Committee mailbox</li> <li>Research questionnaires</li> </ul>	<ul> <li>Daily</li> <li>Daily</li> <li>Annually</li> <li>Semi-annually</li> <li>Quarterly</li> <li>Weekly</li> <li>Annually</li> </ul>
Suppliers and Partners	<ul> <li>Supply chain security</li> </ul>	<ul> <li>Supplier assessment</li> <li>Supply quality communication</li> <li>Supplier training</li> <li>Research questionnaires</li> </ul>	<ul><li>Annually</li><li>Monthly</li><li>Monthly</li><li>Annually</li></ul>
Customers	<ul> <li>Product and service safety and quality</li> </ul>	<ul> <li>Social media</li> <li>Online and offline event simulations</li> <li>Customer satisfaction survey</li> <li>Customer complaints and handling</li> <li>Research questionnaires</li> </ul>	<ul> <li>Daily</li> <li>Monthly</li> <li>Annually</li> <li>Daily</li> <li>Annually</li> </ul>
Government and Regulato- ry Agencies	<ul> <li>Combating climate change</li> <li>Regulatory compliance in business practices</li> <li>Rural revitalization</li> </ul>	<ul> <li>Government-enterprise communication and reporting</li> <li>Compliance information disclosure</li> </ul>	• Monthly • Monthly
Community and Media	<ul> <li>Social contribution</li> <li>Rural revitalization</li> <li>Combating climate change</li> </ul>	<ul><li>Public welfare projects</li><li>Community communication</li><li>Research questionnaires</li></ul>	<ul><li>Monthly</li><li>Monthly</li><li>Annually</li></ul>

# Solidifying Foundations to Enhance Management Quality and Efficiency







Appendix

#### Sustainable Development Goals

## Leading Role of Party Building, Strengthening the Foundation

#### Integrating the Leadership of the Party into the Company Governance Structure

Liaoning Port upholds the deep integration of Party leadership with corporate governance. The Company fully leverages the role of the Party Committee in "setting directions, managing the big picture, and ensuring implementation," and revised the Rules of Procedure for the Party Committee Meetings of Liaoning Port Co., Ltd. Routine inspections and Party-building responsibility assessments are carried out to monitor and guide the implementation of the "three major, one large" decision-making system across all directly managed Party organizations. During the reporting period, the Party Committee of the Company held 30 meetings, made decisions on 140 issues, conducted pre-meeting studies on 35 issues, and replied institutional documents and lists from 46 directly managed Party organizations.

Indicator	Unit	2024
Number of Party Committee meetings	time	30
Number of Party branches	_	352
Number of Party members	person	6,623

The Party Committee of the Company studied and disseminated the key messages of the Plenary Sessions of CPC National Congress through "First Issue" sessions, theoretical study groups, and reading seminars, and organized Party members and cadres for massed learning, the thematic discussions, and self-study. Knowledge competitions and staff-wide training were carried out to introduce the significance and core messages of the Plenary Sessions among outsourced employees, creating a strong atmosphere for learning and implementation.

The Company strictly implemented comprehensive and rigorous Party governance. The 2024 Party-Building and Comprehensive Strict Governance Work Plan was formulated and issued, followed by hierarchical implementation of annual Party-building responsibility assessments and performance evaluations of primary-level Party organizations undertaken by Party secretaries. In addition, the Company began exploring optimizations to its Party-building assessment methods and indicator system, and developed a construction plan for the Liaoning Port Party-building evaluation platform, ensuring responsibilities are clearly defined and enforced at every level.

#### Case: Liaoning Port and Dalian-based Enterprises under China Merchants Jointly Organizing a Thematic Party Day Event

In celebration of the 75th anniversary of the founding of the People's Republic of China and the 21st anniversary of China Merchants Group, and to accelerate the advancement of the "Third Business-starting Venture", the Party Committee of Liaoning Port, in collaboration with China Merchants Bank Dalian Branch and Sinotrans Northeast China Co., Ltd., held a thematic Party Day event titled "Revisiting 75 Years of Trials and Triumphs, Writing a New Chapter in the Third Business-starting Venture" at the Bangchui Island Party Member Ideological Education Base in Dalian. More than 50 participants took part in the event.



Merchants Jointly Organizing a Thematic Party Day Even

#### Case: Liaoning Port Party Committee Carrying Out Party Spirit Education Activity - "Reliving Red Memories, Inheriting Revolutionary Spirit"

To celebrate the 103rd anniversary of the founding of the Communist Party of China and the 75th anniversary of the founding of the People's Republic of China, and to consolidate the achievements of thematic education, the Party Committee of Liaoning Port organized a Party spirit education activity titled "Reliving Red Memories, Inheriting Revolutionary Spirit." A total of 150 Party members and cadres (including the Party Committee leadership team) visited Jinzhou and reaffirmed their Party membership oath at the Liaoshen Campaign Memorial Hall, receiving in-depth Party spirit education.



Liaoshen Campaign

## **Party Discipline Study and Education**

The Company keeps regulating corporate governance through Party discipline study and education, aligning its development directions with the Party's innovative theories. Party discipline study and education have been comprehensively initiated across the Company. The Party Committee leadership played a leading role by issuing 30 relevant notifications and documents, tracking progress 11 times, and submitting over 60 best practice reports to ensure effective implementation.

Party Committees at all levels of the Company actively promoted the institutionalization and regularization of theoretical study. During the reporting period, the Party Committee conducted 22 "First Issue" learning sessions, promptly followed 89 directives and key speeches given by General Secretary Xi Jinping, and disseminated 45 directives from higher-level meetings. In addition, the Company developed the 2024 study plan for the Party Theoretical Study Group, organized 7 collective learning sessions and a 6-day reading seminar throughout the year, covering more than 30 study topics.

#### **Party Building Activities**

Liaoning Port continuously strengthens the building of primary-level Party organizations. During the reporting period, the Company implemented the "four synchronizations and four alignments" requirement, adjusted 1 directly managed Party organization, guided the re-election of 5 directly managed Party organizations, conducted by-elections for committee members in 8 others, and supervised re-elections across 74 primary-level Party organizations.

The Company advanced the "Two Leads and Two Innovations" primary-level Party branch construction campaign in depth. Required to "achieve comprehensive compliance within three years, and build role models for key organizations," the Company applied

#### Case:

To earnestly study and implement the spirit of the Third Plenary Session of the 20th CPC Central Committee, and to effectively enhance the political quality, theoretical level, and performance capacity of Party members and cadres, the Party Committee of Dalian Port Oil Terminal Company organized rotation training for nearly 400 Party members and active applicants.

#### Case: Liaoning Port Party Cadres Attending the Group Party Committee's 2024 Party Cadre Skills Training Program

Liaoning Port's Party cadres participated in the 2024 Party Cadre Skills Training Program hosted by the Group Party Committee at Yingkou Port. Expert lectures, experience sharing, site visits, and group discussions were held to effectively improve the theoretical literacy and professional skills of Party cadres.



Follow-up on important speeches and directives



for 34 model Party branches and 76 compliant branches. Multiple collectives and individuals received "Outstanding Party Members and Advanced Party Organizations" honors from the State-owned Assets Supervision and Administration Commission (SASAC) and provincial and municipal Party committees.

The Company attaches great importance to building its Party member team. In 2024, it developed 132 new Party members and organized training programs for new members, potential members, and active applicants, thereby enhancing the focus and guidance of Party member education and injecting fresh vitality into the Party ranks, further enhancing the cohesion and strength of the Party organizations.

Dalian Port Oil Terminal Company's Party Committee Conducting Study Campaign on the Spirit of the Third Plenar Session of the 20th CPC Central Committee



e Conducting Study Campaign or Dalian Port Oil Terminal Company's Party Con the Spirit of the Third Plenary Session of the 20th CPC Central Committee



2024 Party Cadre Skills Training Program of Liaoning Por

## Scientific Governance Fueling Coordinated Advance

#### The General Meeting, the Board of Directors, the Board of Supervisors, and the Management

Liaoning Port strictly complies with relevant laws and regulations, including the Company Law, Securities Law, and Code of Corporate Governance for Listed Companies, and has established a sound and rational corporate governance framework. The General Meeting of Shareholders, the Board of Directors, and the Board of Supervisors perform their respective duties of authority, decision-making, and supervision. Responsibilities of all bodies are clearly defined, coordinated, and executed in synergy, ensuring standardized and orderly governance and stable corporate development.



#### **General Meeting of Shareholders**



As the highest authority of the Company, the General Meeting of Shareholders holds critical responsibilities for deliberating and deciding on major corporate matters. In accordance with the Company Law of the People's Republic of China and the Rules of Procedures for the General Meetings of Shareholders of Listed Companies, the Company has formulated and implemented the Rules of Procedures for the General Meetings of Shareholders, providing a solid foundation for the lawful performance of duties, effectively safeguarding investor rights and interests, and ensuring democratic and scientific decision-making, thereby promoting the Company's long-term healthy development.

During the reporting period, the Company convened three General Meetings of Shareholders and approved thirteen proposals.

#### **Board of Directors**



The Board of Directors has established four specialized committees: the Strategy and Sustainable Development Committee, the Nomination and Remuneration Committee, the Audit Committee, and the Financial Management Committee. Each committee operates in accordance with the Company's Articles of Association and relevant rules of procedure to ensure sound decision-making by the Board. All members of the Board are directors elected by the General Meeting of Shareholders. Each term of the Board lasts three years, during which the Board plays a key role in decision-making, strategy formulation, and risk management of the Company.

Committee Name	)
Strategy and Sustainable Development Committee	Proposing recommendations on major dec and supervising their implementation; mor key issues such as climate change, health a
Audit Committee	Overseeing internal audits, communicatin financial information disclosures, internal o
Nomination and Remuneration Committee	Studying and reviewing remuneration po assessing their performance and providing
Financial Management Committee	Overseeing, reviewing and advising on the decisions, and business management.



## Board of Supervisors

The Company strictly complies with relevant laws, regulations, and its Articles of Association to ensure a well-structured and effectively functioning Board of Supervisors. The Board of Supervisors is made up of 5 members, including 2 employee representative supervisors, accounting for 40%. As the Company's internal supervisory body, the Board of Supervisors performs its duties in accordance with the law, reports to the General Meeting of Shareholders, and oversees the legality of the performance of duties by directors and senior management, thereby safeguarding the legitimate rights and interests of the Company and its shareholders. Each term of the Board of Supervisors lasts three years and members may be re-elected.

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tion of Indicator	Quantitative Indicators for 2024
of meetings of rd of Directors	12
of directors	8
dent directors	3
age of female s	12.5%

ption of Indicator	Quantitative Indicators for 2024
of meetings of the f Supervisors	5
of supervisors	5
age of female sors	20%

#### **The Management**

The senior management team of the Company comprises the General Manager, Deputy General Managers, Chief Financial Officer, Chief Safety Officer, Board Secretary, General Legal Counsel, and Chief Compliance Officer. They are responsible for coordinating overall corporate operations and ensuring effective execution of strategy. In the selection process, the Company has to comprehensively assess candidates' professional qualifications, managerial competencies, and industry experience to appoint talent best suited to its development.

#### **Compensation System of Directors, Supervisors and Senior Management**

The Company places great emphasis on senior management remuneration and performance appraisal. The Nomination and Remuneration Committee is responsible for studying and reviewing the remuneration policies for directors, supervisors, and senior management, formulating evaluation standards, and conducting performance assessments before submitting recommendations to the Board. In designing the remuneration system, the Committee considers the Company's strategic goals, industry benchmarks, management responsibilities, and performance outcomes to ensure the incentive mechanism is aligned with the Company's long-term development goals.

#### **Investor Relations Management**

#### **Investor relations management framework**



In accordance with the Company Law of the People's Republic of China and the Guidelines for Investor Relations Management of Listed Companies, Liaoning Port has formulated the Measures for the Administration of Investor Relations and carries out investor relations activities accordingly. Through in-depth, timely, and effective communication, the Company conveys its latest developments and key decisions to investors, thereby enhancing their understanding and trust in the Company's business philosophy, strategic planning, and operational status.

#### Case: Liaoning Port Participating in the China Merchants Group's Collective Results Briefing for Listed Companies

Liaoning Port participated in the A-share collective results briefing for Shanghai-listed companies hosted by China Merchants Group, under the theme "Century-old China Merchants Create the Future Together." At the event, General Manager Wei Minghui introduced the Company's annual financial performance, business development, profit distribution plan, and operational highlights to investors. He also held in-depth discussions with investors on key topics such as industry outlook, corporate strategy, ESG development, digital transformation, and the promotion of new quality productive forces.



#### **Communication with investors**

To foster a stable and sound market environment, improve information disclosure quality, and enhance communication efficiency with investors, the Company continues to strengthen online and offline engagement, establish closer connections and effectively safeguard investor rights and interests.

## Descrip

Number

Number

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#### Case: Investors Paying Research Visits to Liaoning Port

In 2024, Liaoning Port Co., Ltd. hosted multiple visits from securities analysts and fund companies. In-depth exchanges were conducted on topics such as market outlook, shipping industry trends, bulk cargo markets, and the Company's performance.

During the reporting period, Liaoning Port had no adverse credit records in its credit history. The Company received an AAA credit rating with a "stable" outlook from China Chengxin International Credit Rating Co., Ltd., a trusted credit rating agency in China.

## Consolidating Defense with Synergized Efforts

Liaoning Port maintains a prudent and rigorous approach to comprehensively establish and refine its internal control, internal audit, risk control, and compliance management systems. Guided by the six key principles of "cost-effectiveness, adaptability, comprehensiveness, materiality, integration of risk management and internal control, and centralized leadership with tiered management", the Company puts all efforts to ensure the efficient and orderly advancement of internal control and risk management work.

In building its risk management and internal control systems, the Company has established a three-line defense framework, formed a vertically integrated risk management structure, coupled with a cross-level internal information communication network, which effectively covers all organizational levels and provides smooth pathways for information transmission, laying a solid foundation for continuous optimization and improvement of the Company's risk and internal control systems.







Risk Management Lines of Defense Departments and Responsibilities The business work units or business departments of each subsidiary shall serve as the first line of defense, The First Line of Defense responsible for the implementation, maintenance, and development of risk management systems within their respective organizations. The functional control system jointly built by each subsidiary's risk management and legal governance leading group and relevant departments is the second line of defense: **Risk Management and Legal Governance Leading Group:** Reviews and guides strategic planning and policies for risk management and internal control. The Second Line of Defense **Risk Management and Legal Governance Work Group:** Develops and establishes strategic plans, systems, policies, and operational mechanisms for risk management and internal control. Risk Management / Legal & Compliance: Serves as the leading department coordinating subsidiaries 'division of work and collaboration in risk and internal control efforts. **Functional departments:** Responsible for the approval and supervision of the subsidiaries. **Risk control coordinators of each subsidiary:** Organize and coordinate risk-related work within their respective subsidiary. The Audit Center of the Company shall assist corresponding management in supervising, evaluating, and **The Third Line** of Defense auditing the Company's operational management.

### **Internal Control**

Liaoning Port has established a comprehensive internal control mechanism based on the Internal Control Management Provisions, following the principle of "unified planning and tiered implementation" to create a complete and efficient closed-loop internal management process. This enables risk control from the source and standardizes operational procedures to ensure the Company's businesses operate steadily and in full compliance.

Working Instru	iction	Descriptio	on	
Report Prepa- ration		Each subsidiary prepares its own annual report on internal control management, including a work report on the internal control system and an evaluation report, based on its actual internal control practices, and submits the reports level by level as required.		
Evaluation, Supervision and Improvement		• The Company conducts thorough evaluations of internal control elements such as internal environment, risk assessment, control activities, information communication, and internal monitoring, tests the effectiveness of internal control design and execution, rectifies deficiencies, and performs comprehensive evaluations.	• Each subsidiary is required to conduct regular internal self-assess- ments and inspections of its internal control systems (at least once per year). The Risk Management Work Group performs spot checks on key subsidiaries and critical areas.	
Assessment and Accountability		The Risk Management Leading Group evaluates each subsidiary's internal control performance, and the results are included in their annual performance assessments.		

During the reporting period, the Company actively conducted internal control supervision and evaluation across its subsidiaries, achieving the goal of full coverage of internal control audits within two years. Special rectification campaigns targeting internal control weaknesses were carried out to revisit the "eight categories of common deficiencies," "fourteen major weak links" and "52 common problems", so as to ensure the effectiveness of rectification and strict implementation of closed-loop management. All subsidiaries were instructed to complete internal control defect rectifications on schedule. The annual defect rectification completion rate reached 100%.

## **Risk Management**

Liaoning Port strictly complies with the Company Law of the People's Republic of China and the Guidance on Compliance Management for Central Enterprises, and has formulated the Risk Management Provisions to clearly define its risk appetite and tolerance levels. Based on its risk-bearing capacity, the Company has established a comprehensive and systematic risk management framework, clarified the responsibilities of each department, and optimized risk management processes to ensure the efficient and orderly execution of risk control efforts.

Risk Management Pr	rocedure
Risk Identifica- tion and Assessment	The Company classifies risks into genera probability of occurrence. Each year, the and assessment process across the Comp
Risk Early Warning	Through subject-specific research and da evaluates the extent of deviation from ea early warning system to issue alerts to countermeasures.
Risk Informa- tion Reporting	When a risk event occurs, relevant subsid leadership and the risk control office. The out management and reporting procedur
Risk Response and Tracking	<ul> <li>Risk events are tracked quarterly, with ir and sectors with frequent incidents, preve</li> <li>The Company formulates differentiated risks, and adopts one or more response n avoidance, risk transfer, risk mitigation, and</li> </ul>
Supervision and Improve- ment	The Company headquarters and its subsic to promptly detect and address manager Compliance Department and the Audit Co of risk management across subordinate c





ral risks and major risks based on their impact severity and e Risk Management Work Group leads the risk identification pany and its subsidiaries.

ata collection, the Company monitors changes in risk factors, arly warning thresholds, and establishes a corresponding risk to the decision-making bodies and proactively implement

diaries are required to immediately report the event to senior e risk control office shall assess the expected losses and carry ures based on the event's risk level.

investigations carried out to identify similar risks in key areas venting risks at the source and ensuring zero new occurrences.

d response strategies for routine, major, and key business methods based on actual circumstances, including risk and risk acceptance.

idiaries shall conduct regular self-inspections and evaluations ment loopholes. The Risk Management Department / Legal & Center perform periodic or ad hoc supervision and evaluation departments.

During the reporting period, Liaoning Port proactively built a comprehensive risk prevention and control system, using multi-dimensional and diversified approaches to identify, assess, and control various types of risks, thereby ensuring stable business development.

#### **Internal Audit**

Liaoning Port strictly follows the Audit Law of the People's Republic of China, the Provisions on Internal Audit Work issued by the National Audit Office, and other relevant laws, regulations, and professional standards. The Company has established the Internal Audit Management System and utilizes advanced audit technologies and scientific management methods to enhance the professional capabilities of internal auditors and significantly improve the quality and efficiency of internal audit work.

Under the unified leadership of the Company's Party Committee, Liaoning Port has established a centralized, fully integrated, authoritative, and efficient audit supervision system. The internal audit institution operates under a reporting mechanism to the Audit Committee, the Board of Directors, or the principal persons in charge, ensuring the independence and authority of audit functions at the organizational level.

Risk Management       Department / Legal & Compliance Department       Preparing and implementing medium-to-long-term internal audit plans and annual audit plans, and supervising the execution of audit recommendations.         Audit Center       Image: Compliance Department       Establishing and improving a comprehensive internal audit system to implement the annual audit work plan, with internal audits covering aspects like financial income and expenditure, engineering projects, and economic efficiency: and formulating self-assess-	Department		Responsibilities
Audit Centerto implement the annual audit work plan, with internal audits covering aspects like financial income and expenditure, engineer-	Department / Legal &		plans and annual audit plans, and supervising the execution of
ment standards of audit quality to self-assess the audit quality.	Audit Center	9	to implement the annual audit work plan, with internal audits covering aspects like financial income and expenditure, engineer- ing projects, and economic efficiency; and formulating self-assess-

The Company closely tracks the progress of rectification for operation and audit issues identified and pays particular attention to issues approaching their rectification deadlines. During the reporting period, the Company headquarters and its controlled subsidiaries achieved a 100% rectification rate for all internal audit issues due during the year.

#### **Compliance Management**

In accordance with applicable laws and regulations, as well as internal policies such as the Legal and Compliance Affairs Management System and the Compliance Management Provisions, Liaoning Port has established a Compliance Officer system, appointed a Chief Compliance Officer (who also serves as General Legal Counsel) and a Deputy Chief Compliance Officer (who also serves as Deputy General Counsel), and designated business/functional compliance officers within relevant departments, significantly improved the Company's capacity to operate and manage in full compliance with legal and regulatory requirements.







Liaoning Port has established a three-line defense framework for compliance management. Each department fulfills its specific role while working in coordination with others to build a strong risk prevention barrier, based on the comprehensive compliance structure, and ensure the Company's high-quality and sustainable development.

Compliance Manage	ement Lines of Defense
The First Line of Defense	All business and functional departments o "whoever manages the business must also responsibilities by integrating compliance individuals to mitigate violation risks.
The Second Line of Defense	Each subsidiary's Legal & Compliance Offic to strengthen coordination, guide relevant systems and conduct compliance reviews
The Third Line of Defense	The Discipline Inspection and Supervision supervisory responsibilities, intensifying su projects, financial funds, procurement of s rectification of identified issues and ensur

#### Responsibilities

The decision-making body for compliance management, playing a strategic role in defining direction, making decisions, and preventing risks.

- Chief Compliance Officer: Reports to the principal executives of the Company, organizes and leads related compliance work, attends key meetings,
- Legal & Compliance Office: Acts as the central body for compliance management, responsible for coordinating compliance work across subsidiaries. • Business and Functional Departments: Bear responsibility for the effective-
- Disciplinary Inspection and Supervision Bodies: Supervise the implementation of compliance requirements, handle whistleblower reports within their jurisdiction, investigate violations, and enforce accountability as required.

--- Responsibilities \_\_\_\_\_

of the subsidiaries shall implement the principle that o manage compliance," earnestly fulfilling their primary e into job roles and assigning responsibilities to specific

ice shall function as the leading department for compliance nt departments and subsidiaries in improving compliance s, evaluations, and assessments.

n, Audit, and other relevant departments enhance their upervision and inspection in key areas such as major supplies/services, and bidding. They are tasked with urging ring strict accountability.

The Company places great emphasis on cultivating an internal culture of compliance. It actively encourages all employees to acquire a compliance mindset and put it into practice, consciously abide by compliance requirements, proactively participate in compliance training, and take responsibility for the compliance of their actions.



#### Case: Liaoning Port Participating in the Group's Second "Compliance Culture Week" Event

Liaoning Port took part in the second "Compliance Culture Week" and the final round of the themed speech contest titled "My Compliance Story" organized by Liaoning Port Group.



## Upholding Integrity and Serving with Clean Governance

#### **Integrity Construction**

Liaoning Port is committed to leading the industry with clean, honest and self-disciplined practices, making integrity and clean governance a strategic priority in its development. The Company strictly complies with the Regulations on Disciplinary Actions of the Communist Party of China, the Law on Governmental Sanctions for Public Employees of the People's Republic of China, the Regulations on Disciplinary Actions against the Managerial Professionals of State-Owned Enterprises, and other relevant laws and regulations. It upholds a "zero-tolerance" stance toward corruption.

#### Governance architecture

The Company attaches great importance to building Party conduct and integrity and advancing anti-corruption work. It has formulated the Collaborative Measures for Party Conduct and Anti-Corruption Efforts, and continues to improve systems and management for disciplinary inspections.

The Company has established a Disciplinary Committee with a full-time Secretary to oversee all disciplinary work. A Supervision Department / Disciplinary Committee Office and a team of full-time disciplinary inspectors have also been appointed. To better specify the management responsibilities, multiple functional departments have been established under the structure, including: Supervision Office, First, Second and Third Disciplinary Inspection Offices, Inspection Office, and General Affairs Office.



#### **Management measures**

To strengthen integrity risk prevention and control, the Company actively reinforces political supervision, promotes the "Three Prohibitions" simultaneously, enhances work ethics, utilizes inspection as a sharp tool, and improves the capabilities of disciplinary inspection personnel. Continuous efforts are made in all these aspects to steadily push forward the development of fine work practices. The Company also promotes investigations in accordance with rules and disciplines, strengthens accountability, and strictly addresses disciplinary and legal violations.

#### Measures Category

Integrity Risk Prevention and Control Management FUE

All directly governed Party organizations and departments were organized to examine 2,413 key integrity risk items related to power operations, weakness in internal management, and areas prone to violations, and formulated or improved 3,682 prevention and control measures.

Special Integrity Governance Targeted governance campaigns were launched to address violations of the Central Committee's Eight-point Decision on improving Party and government conduct, such as illicit dining, improper use of official vehicles, and abuse of public funds for private travel.





#### **Content Description**



In 2024, the Company conducted a total of five anti-corruption and integrity-themed activities. Anti-corruption training reached **13,181** participants, The total duration of anti-corruption training was 54,916 hours.

#### Education and training on combating corruption and encouraging integrity

#### • A company-wide warning education conference and a lecture on Party disciplines delivered by the Party Secretary were held to guide Party officials and enhance their discipline awareness.

• A lecture titled "Party Disciplines Around Us" was given to prospective Party members, reinforcing anti-corruption education for young cadres.



• The "Four-in-One" Warning Education Program that included visits to warning education bases, knowledge competitions, screenings of anti-corruption films and expert lectures, was organized to enhance the education on integral business and practices.

 Earning education materials such as "Stay Away from Drunk Driving," "Combating Misconduct by Rejecting False Accusations" and "Do's and Don'ts for Party Cadres" were produced to cover all important topics of discipline education and training.



#### Case: Liaoning Port Disciplinary Committee Supporting "Clean Liaoning Port" Short Video Campaign

The Liaoning Port Disciplinary Committee organized a campaign to collected short videos under the theme of "Clean Liaoning Port," in which excellent videos such as Faith, The Secret of Dumplings, and In the Name of Integrity told stories about integrity in plain words and revealing techniques.



Case: "Discipline in the Heart, Integrity to the Party" Integrity-themed Drama Show Hosted by Liaoning Port Disciplinary Committee

Liaoning Port Disciplinary Committee co-hosted the "Discipline in the Heart, Integrity to the Party" themed drama show, with more than 200 Party members participating.



#### Whistle-blower protection system

The Company fully utilizes whistle-blowing as a critical supervisory tool in building Party conduct and advancing anti-corruption efforts. It places a high priority on safeguarding whistle-blower rights. The Measures for the Administration of Whistle-blowing for Disciplinary Institutions has been formulated to standardize whistle-blowing procedures, ensure smooth reporting channels, and strictly protect whistle-blower's information to eliminate fears of reprisal. The Company makes continuous efforts to make disciplinary inspection standard, legal and normalized, ensuring that it becomes normal practice for executives and cadres to work and live under effective supervision.

-blowing Channels	Content
Phone	0411-87599977,041
Email	liaoganggfjiwei@cm
Address	Disciplinary Commit cial Building, Dayao Province, PRC
	Email

#### **Anti-unfair Competition**

Liaoning Port strictly complies with the Anti-Monopoly Law of the People's Republic of China, the Law Against Unfair Competition of the People's Republic of China, and other relevant laws and regulations. The Company has formulated the Measures for the Administration of Anti-Monopoly Compliance, which provide detailed provisions on prohibition of monopoly agreements, prohibition of abuse of market dominance, declaration of operator concentration, antitrust investigations, and remedial measures. These may ensure that the Company conducts its commercial operations in accordance with the principles of fairness, justice, legality, and compliance.

At the same time, the Company actively promotes a culture of antitrust compliance. The Company has issued compliance risk advisories such as the Compliance Risk Alert on New Mechanisms and Compliance Risk Alert on Operator Concentration. Policy awareness campaigns were organized along with a series of legal compliance training sessions focusing on key antitrust areas including port loading and unloading, warehousing and logistics, shipping agency, and tugboat services. Topics of such training sessions included "Antitrust Compliance Risk Prevention and Response to Administrative Investigations in the Port Sector" and "Antitrust Compliance Risk Control for Port Enterprises".

#### During the reporting period, the Company was not subject to any litigation or major administrative penalties arising from unfair competition.



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ttee of Liaoning Port Co., Ltd., Xingang Commer-Bay Port Area, Jinpu New Area, Dalian, Liaoning



## **Shouldering Responsibilities Jointly Towards a Better Future**







## Sustainable Development Goals

## People-oriented Approach for Uniting Strengths

### **Employee Rights and Interests**

Liaoning Port regards talent as its most valuable resource and capital, placing people at the center of its development philosophy and firmly adhering to talent-driven growth. The Company actively strengthens talent reserves and fosters talent cultivation, offering broad career development opportunities. The Company fully safeguards the legitimate rights and interests of employees and consistently treats every employee with respect and equality. It is committed to creating a fair, just, and harmonious working environment where every employee can achieve comprehensive, fulfilling, and effective growth.

#### **Employee hiring**



Strictly adhering to the Company Law of the People's Republic of China, the Labor Law of the People's Republic of China, and other relevant laws and regulations, the Company has built a sound and effective employment management system that ensures the full protection of the legal rights of its workforce. Through multi-channel recruitment approaches, including campus recruitment and social recruitment, the Company upholds an open, fair, and transparent hiring mechanism, providing a broad platform for talent development and demonstrating its corporate social responsibility.





Indicator	Unit	2024
Number of in-service employees	person	10,786
Number of female employees	person	1,942
30 and below	person	548
30-50	person	7,823
Over 50	person	2,415
Employee turnover rate	%	3.56

#### **Compensation and benefits**

The Company consistently adheres to a performance- and position-based compensation philosophy. In line with the Measures for the Administration of Total Wage, it upholds the principle of "position-based pay with flexible adjustment" and is committed to building a compensation system that aligns closely with its strategic goals. During the reporting period, the Company continuously adjusted and optimized its compensation structure based on business performance and individual assessment results, increasing performance-based incentives and aligning income with performance and actual contributions, ensuring the flexible changes in compensation based on merits. The Company places particular emphasis on rewarding high performers, technical experts, and front-line workers by directing greater compensation to those who deliver outstanding contributions. This has significantly improved the internal distribution mechanism and stimulated employees' motivation and creativity.

A robust benefits and social security system has been established. The Company complies with the law in contributing to social insurance and housing provident funds and guarantees employees access to all types of paid leave, including holidays, annual leave, marriage leave, family visit leave, bereavement leave, maternity leave, sick leave, and work-related injury leave. Thanks to its competitive compensation and comprehensive benefits, the Company continues to attract and retain top talent, empowering employees to realize personal value while contributing to the Company's stable and sustainable growth.

#### **Employee development**

To further enhance career development pathways, the Company revised the Regulations on the Management of Managerial Personnel and the Guidelines for the Selection and Appointment of Cadres, and issued the Performance Management Regulations for Headquarters Employees, thereby standardizing the promotion process and building a mature and comprehensive evaluation system for talent advancement.

The Company continues to expand its approaches to cadre and talent development. In 2024, the Company further advanced its two-way job rotation program between headquarters and primary-level subsidiaries. A total of 11 employees from primary-level subsidiaries were seconded to Liaoning Port headquarters, while 2 employees from headquarters were dispatched to primary-level subsidiaries. The Company also conducted targeted training programs in phases and by specialty for senior executives, managerial personnel, and key young talents, taken part by more than 300 employees across the Company and its subsidiaries. Taking this initiative as a breakthrough point, the Company is gradually establishing professional talent pipelines, deeply tapping into employees' potential for innovation and creativity, and clearly defining the requirements of each stage of the talent development process to ensure the scientific and rigorous implementation of talent selection and appointment.

#### **Employee training**

In accordance with the Employee Training Management Regulations, the Company has set out three guiding principles for employee training, aiming to meet the diverse needs of employees across different roles and career stages, helping them fully realize their personal value and achieve professional growth.

The Company has built a scientific and standardized training management system, combining various training methods such as pre-employment training, professional training, position-level training, and self-development training to continuously enhance employees' core competencies and value, aligning with both the Company's development needs and individual career progression.





2024 Employee Exchange and Development Program

**2** employees took on roles at grassroots-level units

11 employees were seconded to the headquar-

## ters of Liaoning Port Group

### 300 participants

attended specialized training session



Indicator	Unit	2024	2023	2022
Number of employee training sessions	time	4,644	4,046	3,782
Employee training expenditure	RMB 10,000	521.8	479	413
Total length of employ- ee training	hour	1,197,263	1,029,358	743,400
Total number of employee training participants	attendance	178,744	169,852	147,811

Pre-employment training	Helps new hires and employees undergoing job rotation to quickly adapt to their roles. Includes onboarding training for new employees and orientation for employees to a new position.
Professional training	Focuses on job-related knowledge and skills, enhancing employees' expertise and competencies relevant to their positions.
Position-level training	Includes foundational management skills training, business and operations management training, and leadership training for improve managerial capabilities of managerial personnel at different levels.
Self-development t raining	Covers continuing education, independent study, and academic degree programs to support employ- ees' personal study and development.

#### Case: Liaoning Port's General Management Training for Managerial Personnel

Liaoning Port organized a general management training program for managerial personnel. A total of 55 managerial cadres from headquarters and subsidiaries participated in the session, which was delivered through a hybrid model combining online and offline learning and featured a wide range of training content.



Case: Liaoning Port's Senior Executives Participating in Training on Global Economy and International Shipping Development Trends

Liaoning Port hosted a training program in Yingkou focusing on the global economic landscape and the development trends of international shipping. The opening ceremony was attended by the Party Secretary and General Manager, Mr. Wei Minghui. Training topics included the outlook of the global economy and international development dynamics.



Economy and International Shipping Development Trends

#### **Case:** Liaoning Port Conducting Training for Young Key Employees

Liaoning Port launched a series of training sessions for young key employees. A total of 56 participants from the Company's headquarters and various subsidiaries attended in sessions on team collaboration and communication, systematic thinking and goal and planning management.

#### **Democratic management**

Liaoning Port is committed to fostering an open and transparent democratic environment. It actively promotes the development of democratic management mechanisms, effectively safeguarding employees' rights to know, participate, express, and supervise. During the reporting period, the Headquarters Trade Union of Liaoning Port organized employee representatives to review and deliberate on eight major matters, including hardship assistance, employee benefits, and work reports. The union widely solicited and incorporated employees' reasonable suggestions and timely addressed their concerns. The Headquarters Trade Union continued to serve as a platform for addressing pressing and practical issues faced by employees, expressing workers' interests and demands, issuing early warnings for labor disputes, and safeguarding employees' lawful rights and interests-thus reinforcing employees' sense of ownership and participation in corporate governance.

#### **Employee care**

Liaoning Port firmly integrates humanistic care into the core of its corporate culture and places strong emphasis on the physical and mental well-being and quality of life of its employees. Through diverse and inclusive employee care initiatives, the Company aims to cultivate a warm and harmonious work environment. It acts swiftly to support employees facing hardship, providing practical, timely assistance that demonstrates genuine concern, enhancing employees' sense of belonging, achievement, and well-being.



Liaoning Port Conducting Training for Young Key Em





Case	Content Description
Expanding inclusive benefits	The Headquarters Trade Union successfully secured over RMB 30,000 in medical reimbursements for 22 hospitalized employees and issued RMB 5,000 in hospitalization consolation funds to 10 employees.
Organizing employee care activities	In 2024, the union issued RMB 13,000 worth of consolation funds or gifts to 13 employees for occasions such as marriage, retirement, and childbirth. Additional seasonal care initiatives, including "Cooling Relief in Summer", were also conducted to strengthen the union's role as a bridge that connects the Company with its employees.
Special care for female employees	The Headquarters Trade Union organized a series of events including celebrations for International Women's Day (March 8) and "Special Care Campaigns for Female Employees." It also upgraded dedicated care rooms for women employees and ensures full protection of their special rights and interests.

The Company is committed to enriching employees' cultural and recreational lives and enhancing the overall quality of its workforce. The Company actively promotes diverse recreational and sports activities by leveraging employee interest groups. It has organized various friendly competitions of badminton, football, basketball, and table tennis, along with a wide range of cultural and sports events such as billiards, frisbee, and archery. These activities have greatly enriched employees' leisure lives, created an inclusive and engaging atmosphere, and fully demonstrated the Company's care and support for employees' healthy lifestyles.

#### Case: Liaoning Port Employees Participating in the Group's 2024 Employee Sports Games

At the Employee Sports Games, more than 200 employees of Liaoning Port participated in formation displays, cultural performances, and volunteer services, showcasing a spirited and energetic demeanor. They even achieved outstanding results in the men's 800-meter and women's 4x100-meter races.



#### **Occupational Health and Safety**

Liaoning Port continues to strengthen health and safety management, implements primary responsibility system for workplace safety, and is committed to improving the health and safety assurance for employees and clients, as it endeavors to create a safe, healthy, and comfortable working environment and maintain stable and orderly port operations.



#### **Occupational health**

The Company has formulated and complies with policies such as the Measures for the Administration of Occupational Disease Hazards and the Personal Protective Equipment Management Regulations, forming a full-chain occupational health management mechanism that includes warning and notification, hazard declaration, training and awareness, PPE management, hazard monitoring, and evaluation.

#### The Company has established a Leading Group for Occupational Health Management to oversee and coordinate occupational health work:



#### **Occupational Health and Safety Initiatives**

Ø Our primary-level subsidiaries annually entrust qualified third-party organizations to assess occupational health hazards in production workplaces.

We organize occupational health examinations for employees exposed to occupational hazards, and establish occupational health monitoring records for these employees.

The Company promotes a strong safety culture by implementing annual safety culture programs and leveraging awareness platforms such as the Law on Prevention and Control of Occupational Disease Publicity Week. The Company actively organizes occupational health training for employees at all levels to comprehensively enhance awareness of occupational disease prevention. During the reporting period, the Company organized **256** emergency drills related to occupational disease hazards, further improving employees' emergency response capabilities and effectively safeguarding their life and health.

#### During the reporting period, no occupational disease cases occurred, and the Company achieved significant results in occupational health management.

#### Workplace safety

#### Governance

The Company adheres to the philosophy of "starting from scratch, striving for zero occurrence" in the pursuit of development with safety. It has formulated a series of safety management systems, including the Workplace Safety Management System, the Workplace Safety Responsibility System, the Measures of Management and Assessment for Workplace Safety Objectives, and the Workplace Safety Inspection System. The Company has also established and refined a workplace safety management structure led by the Safety Committee. The Safety Committee, as the leading department responsible for ensuring workplace safety, is primarily in charge of planning, directing, coordinating, and guiding the Company's workplace safety work, analyzing safety trends, and resolving major safety-related issues.

Leading Group for Occupational Health Management

The General Manager of the Company serves as the group leader, responsible for guiding the implemen-

An Occupational Health Management Office is set up under the Safety Supervision and Management

Issue labor protection equipment to employees in accordance with the relevant regulations, improve the configuration and obsolescence standards of labor protection equipment, and guide workers to properly use occupational disease protective equipment and personal protective equipment.





The Company has obtained standardized workplace safety management certifications across various transportation enterprise categories, including those of general cargo terminals, hazardous cargo terminals, tank farms, and passenger transport terminals.



#### Strategy

Under the correct leadership of the Party Committee and the unified deployment of the Workplace Safety Committee and the Energy Conservation and Environmental Protection Leading Group, the Company has promoted the "Three-Year Campaign on Fundamental Safety Management" and the "Three-Year Special Rectification Action on the Ecological Environment" by adopting several workplace safety measures based on the principle of "prevention first, comprehensive control followed, with equal emphasis on emergency preparedness."

**Safety Hazard Inspection:** The Company strictly complies with the Regulations on the Investigation and Management of Workplace Safety Hazards and the Measures for the Administration of the Accountability of Workplace Safety Incidents, stays focused on strengthening hazard identification and management, systematically preventing and reducing incidents, and establishing a sound accountability system for workplace safety incidents. Each year, all employees are required to sign the Workplace Safety Responsibility Agreement, to ensure that workplace safety goals and responsibilities are implemented at every level. To reinforce the management of recurring safety hazards, the Company issued the List of Prohibited Common Workplace Safety Violations to help prevent the recurrence of similar issues.

Inspections Led by Leaders	Leaders of the Company conducted 75 safety hazards.
Special Inspections	According to the 2024 Annual Safety S ment conducted 19 rounds of special on high-risk aspects such as labor ou tion activities, and special equipment
Routine Patrols	The Company established a daily w teams composed of 119 professiona ered 243 safety hazards. Additionall

The Company established a daily workplace safety patrol mechanism. The inspection teams composed of 119 professional personnel conducted a total of 63 daily and uncovered 243 safety hazards. Additionally, two rounds of comprehensive global inspections were carried out, identifying and providing recommendations on 394 hazards. To reinforce management of recurring safety hazards, the Company issued the List of Prohibited Common Workplace Safety Violations to prevent repeated occurrences.

**Emergency Drills:** To enhance the capability of emergency response, comprehensive and detailed emergency response plans were developed, covering a wide range of potential incidents including natural disasters, incidents, and infectious disease outbreaks. These plans are reviewed and updated regularly to ensure relevance and practicality. In preparation for typhoons and heavy rain, the Company issued a Flood and Typhoon Preparedness Plan and a Safety Risk Alert During Heavy Rainfall, initiating Level III emergency response three times and Level IV response five times during the reporting period.

Emergency drills are considered a key component of the Company's workplace safety work. The Company regularly organizes simulated emergency response exercises to enhance employee response capabilities and test the feasibility of emergency response plans through drills and training. During the reporting period, the Company organized specialized emergency management training sessions to a total of 232 cadres from the emergency response team.



d 86 inspection visits to the subsidiaries, and identified

Special Inspection Plan, the Safety Supervision Departalized inspections throughout the year, with strict focus utsourcing teams, hazardous cargo handling, construcnt. A total of 1,075 safety hazards were identified.



#### Case: Yingkou Port No.2 Company Conducting Emergency Drill for Large Equipment Wind Protection

To strengthen the foundation of safety management and improve frontline employees' ability to respond to sudden severe weather conditions, Yingkou Port No.2 Company organized an emergency drill for large equipment wind protection.



Large Equipment Wind Protection

#### **Case:** Liaoning Port Conducting an Emergency Drill for Hazardous Chemical Incidents

Liaoning Port organized a "Emergency Drill for Hazardous Chemical Incidents" at the Xianren Island Terminal of Yingkou Port. The drill was co-hosted by the Yingkou Municipal Transportation Bureau, its Comprehensive Law Enforcement Team, and Liaoning Port Co., Ltd. More than 60 people participated in the drill, with 4 fire trucks, 2 mobile remote-controlled fire water cannons, and a blizzard foam generator deployed. The drill significantly enhanced regional coordination and emergency response capabilities.



Liaoning Port Conducting Emergency Drill for Hazardous Chemical Incidents

#### Case: Liaoning Port Holding Occupational Health and Emergency Management Training Program

Liaoning Port organized a special training course on occupational health and emergency management for heads and managers of primary-level subsidiaries.



rt Holding Occupational Health and Emergency Management Training Program

#### Case: Liaoning Port Hosting "Workplace Safety Consultation Day" Event During "Workplace Safety Month"

In 2024, Liaoning Port held its Safety Consultation Day event themed "Everyone Speaks of Safety and Learns about Emergency Response to Unblock the Lifeline". The event featured six on-site activities, including safety knowledge guizzes and exhibitions of safety education panels.



ng "Workplace Safety Consultation Event During "Workplace Safety Month"

#### Safety Training:

The Company actively diversifies the formats and platforms for safety awareness and training by organizing "Workplace Safety Month" activities and hosting various safety warning and education sessions on an ad-hoc basis.

## 01 A total of **6,612** employees completed job qualification training, achieving 100% certifica-

# 02

tion for on-duty personnel. Over **800** safety training sessions were held throughout the year, with more than **360,000** participants.

A comprehensive safety training curriculum was developed, breaking down 355 job types into 2.438 training courses.

Hazardous Chemicals Management: The Company strictly complies with the Port Law of the People's Republic of China, the Regulations on the Safety Management of Hazardous Chemicals, and other relevant laws and regulations. It has issued a series of internal policies, including the Safety Management Regulations for Port Dangerous Goods and the Measures for the Supervision and Administration of Major Hazard Sources of Port Dangerous Goods, to clarify the Company's responsibilities for managing major hazard sources. Comprehensive supervisions were conducted over subsidiaries involved in hazardous goods operations, with special equipment inspections, major hazard source evaluations, personnel training and other fundamental work carried out as required. It has established and improved mechanisms such as the "Classified Supervision and Rectification System for Safety Hazards" and the "Checklist-Based Elimination and Closure System" to enhance the efficiency of hazard management.

During the reporting period, the Company conducted 4 rounds of special inspections on subsidiaries involved in hazardous goods operations, identified and addressed 173 safety issues and recommendations. It engaged third-party professional institutions to study domestic and international tank accident cases and completed the construction of emergency shut-off systems for 80 storage tanks. The Company actively advanced the development of online monitoring systems for lightning and static electricity protection.

#### No major safety incidents occurred during the reporting period. The number of work-related fatalities was zero.

#### Impact, risk and opportunity management

The Company adheres to the principles of "pre-control and proactive prevention of risks, tiered management, and dynamic implementation." It has formulated the Measures for the Administration of Workplace Safety, under which the Company conducts comprehensive annual risk identification, evaluates risk levels, formulates control measures, and compiles risk control information sheets.



#### 03

The Company provided guidance and support to 4 subsidiaries, helped **20** employees obtain internal trainer certification and established an internal expert pool.

#### 04

The Company actively applied for the honor of "Model Enterprises in Safety Culture Construction" at all levels. As of the end of the reporting period, a total of 9 subsidiaries received such recognition, including **2** at the national level, **3** at the provincial level, and **4** at the municipal level.

Sustainable Development Management

Safety Risk Mana	gement Dimension Description
Risk Ranking	Based on the potential consequences and likelihood of workplace safety incidents, the Company classified workplace safety risks into four levels from high to low: <b>major risk, relatively major risks, normal risk</b> , and <b>minor (or low) risk</b> , and marks them with four colors: red, orange, yellow, and blue,
Risk Identifica- tion and Assessment	Each subsidiary conducts assessments to identify risks and determine the risk levels. When risk-inducing factors change or control measures are implemented, risks must be re-evaluated as required. Comprehensive risk identification shall be conducted at least once per year.
Risk Manage- ment and Control	Each subsidiary has established a dynamic risk monitoring mechanism based on risk levels and charac- teristics, scientifically formulated control measures, and drawn a four-color risk distribution map for workplace safety, with control measures implemented for each risk item.
Supervision and Assessment	The Company incorporates workplace safety risk management work into its Measures of Management and Assessment for Workplace Safety Objectives, implements safety performance assessments, and reports annual assessments of major risks and related information to the Company's Safety Supervision and Management Department in a timely manner.

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本单位经风险辨识并采取相应的管控措施后,现存在风险共55项,其中一级风险54项和较小风险1项,无重大风险和较大风险,可能遗成的更 故史坦主要有: 起重伤害,机械伤害、车辆伤害、乾燥、物体7.舌、高处坠落(脸)、海盗、脸电(雷告)、中毒意思、火火、灼烧、其他伤苦等。 各区域主要风险及防范措施 安全风险四色分布圈 要事故类型 主要安全防范措施 · 使悲者平卧, 不要 家, 秋下停田春田吊 0条款电运请未放排 起重伤害 机械伤害 车辆伤害 构体打击 1. 机械好个人防护用品 .将受伤人员脱离危险地段 迅速仰孔止血,保持伤口透清。 1段 1955、使忠者平卧、 不要 教中語请求权质 **封重伤害** 机械伤害 车辆伤害 物体打击 (使秦者平卧) 不引 用麻詰、上下 1120急救电运纳求救援 人员股票危险地段,必要 物体打动 敷電 火突 約提 血,保持伤口清洁。 )止感染 |波生骨折,使患者干卧, 不要 . 反股壳盘验地段, 必要 .工呼吸 以上血,保持伤口清洁, 教授 ,使患者平卧,不要 日達切差者 近使用灾火器进行扑救灭火 即便打120急救电话请求救援 0417-8289504 語: 120 火箭电话: 119 £748 和75.88 NURE Roles

Safety Risk Notice Board

To effectively enhance employees' awareness and capability in risk prevention and control, the Company actively conducted comprehensive risk management training and education activities, distributed workplace safety regulations, operational procedures, and risk control information sheets to workstations, and installed risk warning signs and risk notification boards in the workplace. These initiatives are closely aligned with the comprehensive workplace safety responsibility system, reinforcing employees' risk prevention awareness.



#### **Indicators and targets**

The Company attaches great importance to the development of its safety management system and has formulated the Major Tasks for Workplace Safety Work in 2024, clearly outlining yearly priorities. The basic goal set for the year was "no workplace safety incidents of any kind." Following the directives of the State Council, China Merchants Group, Liaoning Port Group, and Liaoning Provincial authorities, the Company issued the Implementation Plan for the Three-Year Action to Address the Root Causes of Workplace Safety, outlining 14 major tasks and 38 sub-tasks to ensure the campaign delivers concrete results.

## From 2023 to 2024, the Company steadily advanced its workplace safety efforts. The safety and environmental situation at the ports remained stable, and the Company achieved its annual workplace safety targets for two consecutive years, recording zero fatal accidents.



Safety training coverage rate

Indicator

Number of work-related injuries

Number of working days due to occupational injur

## Technology-oriented and Innovation-driven Development

#### **Technological Innovation**

Liaoning Port continues to optimize its technology innovation management mechanism, aiming to enhance the execution and efficiency of its innovation efforts. On the basis of the Measures for the Administration of Technological Innovation, the Company has established a systematic technology innovation management system, clearly defining responsibilities and workflows at all levels to ensure that the innovation strategy is closely aligned with the Company's overall development goals. The Company has ensured the efficient allocation and utilization of innovation resources, through the comprehensive management of project initiation, review, implementation, and achievement transformation.

During the reporting period, two subsidiaries of Liaoning Port received national and provincial recognitions: Dalian Jifa Nan'an International Logistics Co., Ltd. and Dalian Port Logistics Network Co., Ltd. were certified as High-Tech Enterprises. Dalian Ganglong Technology Co., Ltd. was recognized as a "Specialized, Refined, Distinctive, and Innovative" SME in Liaoning Province.





	Unit	2024	2023	2022
	%	100	100	100
	person	21	25	15
s lost Iries	day	2176	1753	833

#### Management system

Liaoning Port remains committed to technological innovation, with an aim to enhance its core competitiveness and drive sustainable development. The Company has ensured effective cross-department and cross-unit collaboration to promote the implementation of innovation projects through its comprehensive innovation management framework.

Level Responsibilities			
Liaoning Port - Engineering and Technol- ogy Depart- ment	Responsible for overall planning and management of the Company's technology innovation, preparing annual R&D investment budgets, and promoting project implementation. Responsible for organizing the reward process for scientific and technological achievements across subsidiaries, and promoting the application and dissemination of advanced technologies and innovations. Responsible for collecting and reporting key performance indicators related to innovation activities in a timely manner.		
Subsidiaries and Affiliated Entities	Responsible for implementing the Company's innovation policies and guidelines, and formulat- ing and implementing innovation plans and projects within the subsidiary. Responsible for recommending outstanding technological innovation achievements, imple- menting the reward system for scientific and technological achievements, and timely reporting the accurate data of technological innovation activities as required.		

The Company implements a rigorous project management process in accordance with the Measures for the Administration of R&D Projects, covering all phases from project approval, execution, to final acceptance, to ensure smooth project progress. Each subsidiary formulates and executes technology innovation projects based on its business needs and innovation objectives. It is also responsible for managing project funds and conducting dynamic monitoring to ensure efficient use and management of project resources.



nnovation goals		
Me		
Increasing investment in scientific and to independent technology development a transition from technology importation to		
Optimizing intelligent operation system operations, enhancing the level of inte construction of smart ports by 2025, transformation of port operation		
Keeping facilitating key projects on the carbon emissions and improving energy		
Establishing a technologically capable a mechanisms for talent recruitment and evaluation system focused on innovation provide strong talent support for the Co efforts		

#### **Technological innovation achievements**

The Company is committed to driving its sustainable developm Law of the People's Republic of China on Scientific and Technological Progress, the Company organized its subsidiaries to apply for the 2024 Science and Technology Progress Award and submit rationalization suggestions, effectively enhancing employees' enthusiasm for innovation. The Company issued the Measures for the Administration of Science and Technology Innovation Awards, establishing and improving the management system for technological innovation projects and rewards, and providing dedicated financial incentives. During the reporting period, the Company actively engaged in collaborations within and beyond the industry, expanding the application scope of its products and services through scientific and technological innovation, and increased the allocation of resources and efforts to ensure that the quality of its products and services meets industry-leading standards.

### Case: Dalian Container Terminal Co., Ltd. Winning Top Award in PSA Innovation Program

Dalian Container Terminal Co., Ltd. ("DCT") stood out in the Kua Hong Pak Innovation Awards 2024 hosted by PSA International in Singapore, with all six of its submitted projects winning awards. The "Seamless Sea-Rail Intermodal Connectivity" project won the highest Platinum Award; the "Automatic Attitude Calibration System for Remote-Controlled Quay Crane Spreaders" and the "Automatic Alert System for Recurrent Equipment Failures" projects received Bronze Awards; the "Remote-Controlled High Mast Light Maintenance," "Smart Budgeting System," and "Integrated Resource Coordination System" projects received Innovative Idea Award.

Measures	
nd technological R&D, strengthening support for ent and innovation projects, and facilitating the on to independent innovation	
rstems, implementing full-scenario automated intelligent port management, achieving overall 25, and promoting intelligent and automated	
n the supply side of green electricity, reducing ergy efficiency	
ble and innovation-driven talent pool, improving and development, and building a performance ation capability and contribution to outcomes, to e Company's science and technology innovation	
nent through technological innovation. In accordar	ice with the



The Company adheres strictly to the principles of scientific and technological ethics. During the processes of technological development and application, it implements stringent approval procedures, takes a cautious approach to technical risk, and avoids the development or use of technologies that may harm the natural environment or public safety. Through the automation transformation of its container terminals, the Company has reduced labor intensity and improved employees' working conditions.

### **Intellectual Property Protection**

Liaoning Port strictly complies with the Patent Law of the People's Republic of China and other relevant laws and regulations. Based on its own operations, the Company has formulated the Intellectual Property Management Provisions and established an intellectual property management system featuring coordinated oversight by the Legal & Compliance Office and joint implementation by the Administration Department and the Engineering & Technology Department.

By clearly assigning responsibility for intellectual property to designated departments, the Company ensures that intellectual property management is embedded in all stages of R&D, application, utilization, and protection, thereby enabling full-process management and maximizing the critical role of IP in enhancing the Company's core competitiveness.

As of the end of 2024, the company had 26 valid patents. In 2024, the company applied for 6 patents and authorized 2 patents.

Indicator	2024
Number of patent applications	6
Number of authorized patents	2
Number of patents in force	26
Number of copyrights registered	2



#### **Digital Transformation**

Liaoning Port is accelerating its digital and intelligent transformation, guided by the Liaoning Port Group's "1-3-3-N" digital and intelligent transformation roadmap. The Company has established a project entry and management mechanism for digital initiatives, driving refined management needs across its industrial subsidiaries and enhancing the overall level of digital application. By deepening smart operations and efficient management, the Company further optimized service quality to meet customers' increasing expectations for transportation timeliness and information transparency.





The "Smart Port 2.0" project officially went into operation

## **Digital Transfor**mation Strategy

**Driving the construction of digital and intelligent port** The Company is comprehensively advancing the development of "Smart Port" and "Green Port" initiatives, leveraging digital technologies to drive port transformation and upgrading. During the reporting period, the Company focused on the implementation of the "Dayao Bay - Smart Port 2.0" project.



Algorithms have been optimized for intelligent berthing, intelligent yards, intelligent stowage, and intelligent dispatching.

During the reporting period, the Company actively promoted digital transformation, deeply integrating advanced digital systems into daily operations. Through intelligent management, data analytics, and the application of automation technologies, the Company improved production efficiency, optimized resource allocation, and further advanced refined and intelligent operations.

#### Digital Transformation System

**Integrated Intelligent Operations System for Bulk** and General Cargo across Multiple Business Models, **Cargo Types, and Terminals**  Leveraging Liaoning Port's technology middle platform, the Company has further enhanced its digital and intelligent capabilities in bulk and general cargo operations. It has achieved breakthrough progress in integrated resource allocation, operational efficiency, service quality, cost reduction, business performance, and safety and reliability within the bulk cargo sector.

**Port External Service** Platform

The Company provides third-party electronic data message switching services, enabling seamless data interaction and sharing among shipping companies, shipping agents, depots, tally companies, regulatory agencies other parties involved in port operations. This service offers strong support for efficient collaboration across port and regional logistics operations.



Automation upgrades were completed.



realize full-scenario automation of port operations.

A smart port logistics ecosystem has been developed to promote the digitalization and online integration of port logistics services.

#### Functions

#### Case: "One Asset" Platform Marking a New Breakthrough in Digital and Intellige

The "One Asset" platform, developed under the overall planning and promotion of Liaoning Port, focuses on the digital and intelligent transformation of port asset management. Jointly created by relevant departments of Liaoning Port, this integrated digital and intelligent solution represents a significant breakthrough in the digital and intelligent empowerment of the Company's asset management capabilities.



#### **Data Security and Customer Privacy Protection**

Liaoning Port strictly complies with the Data Security Law of the People's Republic of China, the Personal Information Protection Law of the People's Republic of China, and Cybersecurity Law of the People's Republic of China. The Company has formulated and issued internal policies such as the Measures for the Administration of Cybersecurity, Measures for the Administration of Employee Network Office Security, and Measures for the Administration of Data Resource, thereby improving the mechanisms for data security and customer privacy protection. Regular security assessments and vulnerability scans are conducted to proactively identify and rectify potential risks.

#### **Governance architecture**

The Measures for the Administration of Cybersecurity has clarified the responsibilities and structure of the Company's cybersecurity management. Adopting a unified management and tiered accountability model, it breaks down departmental silos and fosters cross-departmental coordination to systematically advance cybersecurity initiatives.



#### **Management measures**

The Company strictly enforces the Liaoning Port Cybersecurity Information Reporting Mechanism, clearly defining the responsibilities of reporting personnel and liaison officers. The Company organizes annual cybersecurity inspections and cybersecurity attack-defense drills, and conducts cybersecurity training on an ad-hoc basis. These efforts aim to enhance employees' cybersecurity awareness and effectively mitigate cybersecurity risks.

During the reporting period, the Company received no complaints regarding customer privacy violations or data loss, and no major incidents involving data breaches or customer privacy leaks occurred.





## **Reinforcing the Supply Chain** for Steady Progress

Liaoning Port has established a comprehensive supply chain management system. The Company issued the Measures for the Administration of Suppliers to standardize procurement activities, improve fairness and effectiveness in supplier oversight, and ensure efficient and compliant supply chain operations. The system covers supplier classification, registration, review, evaluation, utilization, and misconduct management, ensuring the stability and sustainability of the supply chain.



#### Governance

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Supply Chain Management Architecture

Engineering & Technology Department	<ul> <li>As the Company's functional department for procurement management, it formulates the measures for the administration of suppliers in accordance with the Company's regulations</li> <li>Supervises each subsidiary in developing and refining their supplier management systems, ensuring proper implementation</li> <li>Provides oversight and guidance for supplier management across subsidiaries, ensuring standardized execution</li> <li>Participates in on-site supplier audits when necessary to verify suppliers' quality standards and contract performance capabilities</li> </ul>
Supervisory Department	<ul> <li>Investigates and addresses violations or disciplinary issues in supplier management</li> <li>Reviews and supervises the implementation of supplier management procedures to ensure compli- ance and fairness</li> </ul>
	Supplier Evaluation and Supervision System

The Company has established a stringent supplier management system to ensure that suppliers maintain high standards of performance, service quality, and business integrity throughout the procurement process. Through access control, evaluation, regular assessments, and misconduct handling, the Company exercises full-process supervision and management over its suppliers.



#### Access of suppliers

The Company strictly enforces its supplier qualification and access management system to ensure compliance and sustainability throughout the supply chain. In accordance with the Supplier Questionnaire and Supplier Admission Review Form, the Company conducts thorough evaluations of potential suppliers, placing emphasis on their performance in environmental management, fulfillment of social responsibilities, and lawful operations, to ensure compliance with the Company's sustainability standards.

The Company requires all new suppliers to sign the Supplier Code of Conduct Commitment Letter, which clearly outlines their responsibilities and obligations, including adherence to environmental protection standards, labor rights protection, and business ethics requirements—reinforcing sustainability at the source of the supply chain.

#### **Evaluation of suppliers**

Annual Supplier Evaluation: The Company implements a stringent supplier qualification review process, comprising information verification and on-site verification, to ensure suppliers meet the required compliance standards and contractual capabilities. The results are published uniformly via the Company's trading platform.

Evaluation Dimensions: Suppliers are subject to dynamic assessments across multiple dimensions, including but not limited to: cost control, quality assurance, delivery capability, technical competence, service level.

- A (Excellent): Suppliers with exceptional performance.
- **B** (Good): Suppliers with overall good performance.
- C (Pass): Suppliers that generally meet contractual obligations but require improvement in specific areas.
- D (Fail): Suppliers with serious fulfillment issues, which will face operational restrictions.

The Company requires all subsidiaries to establish supplier records, documenting key information such as registration details, contract performance, and misconduct incidents, to ensure

long-term preservation and full traceability of supplier data.

#### Strategy

Liaoning Port adheres to a development philosophy of green, intelligent, and low-carbon growth. The Company continuously optimizes its supply chain management system and promotes coordinated development across the industrial value chain, fostering a high-efficiency, sustainable supply chain that supports the low-carbon and intelligent transformation of port operations. Focusing on key areas such as green fuel supply, low-carbon transportation systems, and the application of new energy equipment, the Company deepens its sustainable supply chain strategy and provides a benchmark for green transformation within the industry.

#### Upgrading green fuel supply chain for industrial synergy enhancement

In 2024, Liaoning Port actively promoted the construction of a green fuel supply chain and jointly launched the "Northeast Asia Green Marine Fuel Supply Chain Alliance" with 11 organizations, including the Transportation Department of Liaoning Province, the Liaoning Maritime Safety Administration, and China Classification Society. The Company signed strategic cooperation agreements with China Energy Engineering Group Hydrogen Energy Co., Ltd., Shanghai Electric Group, Goldwind, and four other new energy enterprises to jointly advance the R&D, supply, and application of green marine fuels, contributing to the low-carbon transformation of the port fuel supply chain.

#### Exit of suppliers

By combining procurement risk monitoring with misconduct management, the Company maybased on the severity of issues—either issue a corrective action plan to the supplier or place them directly on the Company's blacklist, terminating all cooperation.



#### lding a low-carbon storage and transportation system to enhance green resilience of supply chain

Liaoning Port actively invests in green storage and transportation infrastructure, advancing the upgrade of its port fuel storage and logistics systems, and enhancing its capabilities in green fuel loading, warehousing, and intermodal distribution. The Company is constructing nine methanol berths ranging from 5,000 to 80,000 DWT across three port areas (Dalian, Yingkou, and Panjin), with a designed annual throughput capacity of 13 million metric tons, supported by 420,000 cubic meters of methanol storage tanks.

#### Case: Liaoning Port Awarded ISCC EU Certification for Green Methanol Storage

Yingkou Port No. 4 Company received the International Sustainability & Carbon Certification (ISCC EU) for green methanol storage, awarded by SGS-CSTC Standards Technical Services Co., Ltd.



#### Impact, Risk and Opportunity Management

Liaoning Port integrates procurement response risk monitoring, misconduct management, and supplier ESG risk control to build a comprehensive supplier risk management system, ensuring procurement fairness and supply chain stability. During the procurement process, the Company monitors supplier behaviors such as abnormal bidding, withdrawal, and contract performance capability. Suppliers identified with procurement response risks will receive risk alerts or warnings. If a supplier continues to violate regulations after receiving two warnings, the behavior will be classified as misconduct and will trigger the violation handling procedure.



#### Procurement Response Risks

#### **Bid Association Detection**

The system identifies potential signs of bid rigging or collusive bidding among suppliers during procurement projects, compromising the fairness of the process.

#### Abnormal Bid Withdrawal

A supplier withdraws its bid after the submission deadline without legitimate justification, adversely affecting procurement progress.

#### Failure to Respond Without Justification

An invited supplier fails to respond to a procurement invitation without valid reasons, undermining the competitiveness of the procurement process.

#### Missing Bid Materials or Suspected Cover Bidding

A supplier submits incomplete bid documents lacking key technical or service-related content, or is repeatedly found participating in the same procurement project alongside the same group of suppliers, raising suspicions of cover bidding.

#### Misconduct Management

For identified misconduct, Liaoning Port imposes measures such as downgrading, suspension of qualifications, or procurement restrictions.

#### Contract Breach

Unjustified refusal to sign the contract or failure to perform contractual obligations after winning the bid or being selected.

#### False Documentation Submission of forged qualifications, fabricated performance records, or bidding under

another entity's name.



Unjustified refusal by the supplier to cooperate with investigations conducted by the procurement platform or the Company.

#### Supplier ESG Risk Management

Quality or Delivery Issues	Bus
Delivered products seriously fail to meet contractual requirements, or are not delivered on schedule, thereby impacting production and operations.	Ac bri co pro

cts such as bid-rigging, collusive bidding, ribery, or illegal subcontracting that ompromise the integrity of the rocurement process.

For suppliers found to have committed serious violations that jeopardize supply chain security, the Company will publicly disclose their misconduct records and restrict procurement eligibility. If necessary, such suppliers will be placed on a blacklist and barred from participating in procurement activities for three years. During this period, suppliers may submit a rectification report. Procurement eligibility will only be reinstated upon successful review. Suppliers that fail to rectify will remain restricted.

#### **Indicators and Targets**

The Company plans to establish a green methanol storage and transshipment capacity of 4 million metric tons per year during 2025–2026, in alignment with the development of the green methanol industry in Northeast China, providing a stable foundation for green supply chain transformation.

Indicator	2024
Number of suppliers	35,090
Number of major risks and impact events in the supply chain	0

## Quality First, Service Foremost

#### **Product Quality**

Liaoning Port attaches great importance to product responsibility, consistently regarding it as the foundation of the Company's development. The Company adheres to the philosophy of operating with integrity, consistently pursuing excellence in quality, and is committed to delivering safer, more reliable, and more sustainable products and services to society.

#### ness Dishonesty

#### afety or Environmental cidents

Safety incidents, major quality defects, or environmental pollution caused by the supplier.

The Company will deepen its cooperation with shipping enterprises, energy suppliers, and technology research institutions to promote the optimization of the green marine fuel supply system, upgrade fuel transportation chains, and drive upstream and downstream coordinated development, thereby enhancing Dalian's green service capacity as a Northeast Asia international shipping hub.



#### Case:

## Service Team of the Marketing Development Department at Dalian Port Bulk Cargo Terminal Company Recognized as a "National Quality Trustworthy Team"

At the 2024 Annual Conference of the China Association for Quality, the results of model practices in the development of Quality Trustworthy Teams were officially released. The Service Team of the Marketing Development Department at Dalian Port Bulk Cargo Terminal Company was honored with the "National Quality Trustworthy Team" title in recognition of its high-level quality management and outstanding performance.



#### **Customer Service System**

Liaoning Port always regards customer service as a top priority. In strict accordance with the Civil Code of the People's Republic of China, the Product Quality Law of the People's Republic of China, and other applicable laws and regulations, the Company has formulated the Measures for the Administration of Customer Service. Leveraging cutting-edge technology and deep professional expertise, the Company continues to upgrade its customer service network, establishing a "network of eight service centers and twenty service outlets" that cover key cargo origin regions, including the three northeastern provinces, eastern Inner Mongolia, eastern Hebei, northern Shandong, and East China. The Company is continuously optimizing service processes, improving service efficiency, enhancing service guality, and elevating the customer experience.

The Company strictly complies with the Advertising Law of the People's Republic of China and other applicable regulations. During exhibitions and various promotional events, the Company rigorously follows internal management guidelines and compliance procedures to ensure the accuracy and integrity of its promotional content. While actively enhancing its brand image, the Company also strictly controls the accuracy, legality, and fairness of its publicity materials, prohibiting exaggerated or misleading claims. These efforts ensure that all marketing activities meet compliance requirements and uphold the Company's reputation for integrity, thereby contributing to the steady growth of its brand influence.

#### **Customer Satisfaction**

Based on the attributes of different business segments, Liaoning Port conducted customer satisfaction surveys across eight key areas: containers, bulk cargo, oil products, commercial vehicles, passenger services, tallying, logistics, and depotscovering 47 frontline business entities in total. The Company conducts targeted customer satisfaction surveys using web-based, paper-based and WeChat QR code questionnaires, combined with phone, email, WeChat, and in-person visits, to ensure comprehensive feedback collection. During the reporting period, a total of **924** survey responses were collected, achieving a 74% coverage rate and a customer satisfaction score of 97.53. The customer complaint resolution rate reached **100%**, demonstrating the Company's remarkable progress in improving service quality and its commitment to continuously creating greater value for customers.

#### **Case:** DCT Recognized as "Customer-Satisfactory Container Terminal"

In the 21st "Golden Wheel Cup" China Freight Service Quality Tracking Survey, DCT stood out among more than 400 participating enterprises and was awarded the title of "Customer-Satisfactory Container Terminal."



#### **Customer Complaints**

Liaoning Port is committed to providing comprehensive, full-coverage acceptance of customer inquiries and complaints. In response to customer dissatisfaction expressed via hotline, email, fax, WeChat, or public platforms, the Company has developed a complete and efficient complaint handling process, ensuring full-cycle management from submission to tracking, resolution, and follow-up.

## Living Out Responsibility Through Everyday Actions

#### **Rural Revitalization**

On the path toward rural revitalization, Liaoning Port upholds the core values of "sharing the destiny of the nation and progressing with the times," actively participating in initiatives related to poverty alleviation, rural development, and livelihood improvement. Through ongoing efforts such as agricultural support and targeted assistance, the Company shares the fruits of its development with broader communities and takes tangible actions to turn the vision of rural revitalization into reality, injecting continuous momentum into rural progress.

The Company has formulated the External Donation Management System, which stipulates that all charitable activities are centrally managed to ensure standardization and effectiveness. The Company actively fulfills its social responsibilities by supporting community employment, prioritizing the hiring of veterans, persons with disabilities, and other vulnerable groups. The Company also provides job training and support measures to help them integrate into society and achieve stable employment.

The Company has also actively engaged in consumption-based poverty alleviation. Together with its subsidiaries, purchases of agricultural products through the "Fuyouzhao" platform totaled over RMB 2.23 million, contributing to the consolidation of poverty alleviation achievements and continued advancement of rural revitalization.

#### **Social Contribution & Community Construction**

Liaoning Port regards social responsibility as an essential component of corporate development, and takes real actions to demonstrate corporate commitment. The Company adheres to the principles of voluntary participation, capacity-based contribution, practical impact, and long-term commitment in its volunteer services, and has carried out a series of public welfare initiatives. In 2024, a total of 170 volunteer engagements were recorded, with 67 hours of volunteer service organized. The Company carried out 8 public welfare activities, with a total investment of RMB 10,500 RMB.



#### Case: "Rainbow with Sunset - Walking Together with the Elderly" Senior Care Project



The "Rainbow with Sunset - Walking Together with the Elderly" Senior Care Project



#### **Taxation Management**

Liaoning Port places great importance on tax management and adheres to the principles of comprehensive risk management, enhancing review and oversight through dual control mechanisms. The Company has built a multi-department coordination mechanism, replacing the single-function tax processing model to control compliance risks from the source. Tax-related work is closely integrated with departments such as operations, finance, risk management, and IT, enabling thorough internal risk control and ensuring the effective operation of internal control systems.

The Company has also established a comprehensive post-event tax risk assessment mechanism, conducting evaluations on a regular or ad hoc basis. By conducting a review of earlier tax-related work, the Company evaluated historical issues and tax disputes, and used the results to identify potential risks and implement timely preventive measures. The Company is committed to strengthening the long-term tax management system, ensuring tax accounting is standardized, accurate, and timely, while continuously enhancing the professional capabilities of its tax personnel to improve overall tax governance.

## During the reporting period, the Company's total tax payment amounted to RMB 847.09 million.

#### **Belt and Road Initiative**

In the process of building international logistics corridors, Liaoning Port has diversified its channel layout and actively expanded ocean shipping routes, greatly enhancing the flexibility and stability of its logistics services. These efforts have created efficient and convenient maritime pathways for inland cargo to reach global markets, significantly improving the Company's position and influence in the international shipping sector.







# Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters





#### Sustainable Development Goals



## Focusing on "Dual Carbon" Goals, Advancing Green Transformation

In alignment with the national "dual carbon" goals, Liaoning Port has formulated and implemented the Three-Year Action Plan for "Dual Carbon" Goals, clearly defining its total carbon emission targets and breaking them down into detailed tasks to implement energy-saving and carbon-reduction measures in a targeted way. Leveraging the "Four-Control" and "Three-Control" management models, the Company has comprehensively strengthened its energy and carbon emissions management, continuously optimized production processes, promoted key energy-saving technological upgrades, and accelerated the deployment of new energy applications. These efforts have steadily improved energy efficiency, reduced the operational carbon footprint, and further advanced the development of green ports.



#### Governance

Liaoning Port has established a top-down, cross-functional, and vertically integrated carbon management organizational structure to ensure comprehensive carbon emission management—from the Group level to all subsidiaries—forming an efficient and cohesive management system.

#### Headquarters Level: Establishing a "Dual Carbon" Leading Group

**Group Leader** 

The principal person in charge of

Liaoning Port (Chairman or General

Manager), responsible for the overall

carbon management strategy, target

setting, and policy approval

#### **Deputy Group Leader**

The person in charge of energy conservation and carbon reduction. responsible for coordinating and implementing day-to-day carbon management work

#### **Members**

Persons in charge of functional departments (e.g., Engineering & Technology Department, Production & Operations Department, Finance Department, Investment Management Department) and persons in charge of subsidiaries

#### Executive Level: Establishing "Dual **Carbon**" Leading Group Office

Responsible for carbon emissions data collection, analysis, and evaluation, and for establishing an accurate and visualized carbon management

database

#### The office is located within the Engineering & **Technology Department of Liaoning Port**

ŀ	Coordinates	I I	Tracks carbon	ł	Organizes
I.	energy-saving and	I I	management	ŀ	performance
i.	emission-reduction	I I	technology	i	evaluations of
ŀ	projects across	1	trends in the	ļ	carbon
÷	business depart-	÷	industry and	÷	management
į.	ments; formulates	į.	proposes	į.	efforts at each
i.	annual technological	i	application and	i.	subsidiary and
ŀ	upgrading plans and	I I	optimization	ŀ	reports to the
I.	investment budgets	I I	strategies	I.	Leading Group

internal carbon management training and awareness campaigns, aiming to enhance low-carbon awareness across the Company

Responsible for

#### Subsidiary Level: Establishing the "Dual Carbon" Management Organizations

#### **Group Leader** The role is served by the principal person in charge of the subsidiary, ensuring the integration of carbon management into daily operations

The role is served by the person in charg of technical or operations department, responsible for implementing carbon management plans

#### Strategy

To further enhance the Company's capabilities in energy conservation and carbon reduction, Liaoning Port plans to revise its current Measures for the Administration of Energy Conservation in 2025, upgrading it to the Energy Conservation and Carbon Reduction Management System to better align with green development strategies. The updated policy will strengthen regulations on energy efficiency improvement, carbon emissions control, and low-carbon operations, ensuring that energy-saving and carbon-reduction measures are systematic and long-term in implementation.

Simultaneously, the Company will launch the Measures for the Administration of Energy Consumption and Carbon Emissions Statistics and Monitoring, which will define the processes for data collection, monitoring, analysis, and reporting on energy use and carbon emissions to ensure accuracy and transparency of data.

#### "4T" Vision for Green Port Development

Target	Strategy
Achieve the "dual reduction" goals in carbon emissions and energy costs while advancing the national "dual carbon" strategy	Technology Innovation: Deepen the in technology (ET), process technology (MT application to green port construction. Management Innovation: Advance the Energy Profile," "One Energy Source, One tailored and refined energy governance

#### Three-Year "Dual Carbon" Action Plan

General Strategy	Overall Goa
Follow the management concepts of "One Company, One Energy Profile," "One Energy Source, One Strategy," and "One Technology, One Research Project"	Establish developm targets covering the electricity, fuel, and steam systems

#### Case: Low-Voltage Shore Power Expansion at Dalian Container Terminal, Supporting Green Port Development

The low-voltage shore power capacity expansion projects for Berths 3, 4, and 5 at DCT has been successfully completed. The upgraded shore power cabinets now offer a capacity of up to 80 kVA, enabling shore power supply services for berthed vessels. Each shore power cabinet is equipped with two types of sockets, enhancing compatibility for vessel connections. This ensures more efficient and safer use of shore power, effectively reducing carbon emissions during port stays.

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#### Deputy Group Leader

#### **Members**

Includes the persons in charge of business departments, ensuring completeness and enforcement of carbon emissions data across all operational links





Liaoning Port Terminal
Focusing on the "Dual Carbon" goals, the Company promotes greenhouse gas (GHG) emissions reduction across multiple dimensions, including shore power construction, electrification of port equipment, clean energy applications, and green office operations, accelerating the green and low-carbon transition of port operations.

Project	Description	Picture
Shore Power Infrastructure, Supporting Clean Energy Substitu- tion for Berthed Vessels	The Company has increased investment in shore power infrastructure, promoting shore power usage among berthed vessels to reduce fuel consumption and carbon emissions. Across the six major port areas, a total of 2,202 shore power connections have been completed, with cumulative electricity usage exceeding 6.6 million kWh. The Company has completed acceptance of high-voltage shore power at Berth 17 of the container terminal, and implemented capacity upgrades at Berths 3, 4, and 5 for low-voltage shore power, continually expanding shore power coverage and supporting greener port operations.	
Electrification of Mobile Machinery, Enhancing Low-Car- bon Port Operations	The Company has been accelerating the electrification of mobile machinery, marking 2024 as the first year of electric container truck deployment. Ten electric container trucks have been deployed at Yingkou Container Port. The Sixth Branch of Liaoning Port (Yingkou) and DCT have guided subcontracted fleets in purchasing 65 electric vehicles, along with the deployment of supporting charging and battery swapping facilities. At the same time, the Company made a centralized purchase of 4 electric empty container stackers and 21 electric forklifts, reaching a record high in the scale of new energy mobile equipment application.	<image/>
Exploring Hydrogen Energy, Leading the Clean Energy Transformation of the Port	The Company completed the first hydrogen-powered container truck test at its container terminal, marking a significant breakthrough in the application of hydrogen energy to port transportation equipment. This lays a foundation for promoting hydrogen-powered machinery in port logistics. Meanwhile, the Company actively participat- ed in the Dalian Hydrogen Industry Development Sympo- sium, shared feedback from its equipment trials, and established cooperation with local hydrogen enterprises to explore integrated electric-hydrogen equipment deploy- ment and operation models, continuously promoting the development of a clean energy port ecosystem.	

**Green Office** 

The Company strongly advocates green office practices, and, in accordance with the Measures for the Administration of Energy Conservation and the Notice on Strengthening Cost Control in Administrative Offices, encourages employees to practice conservation in areas such as water and electricity usage, fuel for official vehicles, office supplies, and catering. This initiative aims to reduce operational costs and contribute to the creation of a favorable ecological environment.

The Company has been accelerating the development of green infrastructure and implementing equipment energy efficiency optimization projects. These include advancing the shore power system construction, carrying out energy-saving renovations for power and lighting systems, accelerating the upgrade of port machinery from "oil to electricity" and "oil to gas," and expanding the application of seawater source heat pumps, air source heat pumps, and solar photovoltaic technologies. The Company has successively developed photovoltaic power generation projects in port areas including Dalian Bay, Dayao Bay, and Changxing Island.

Clean Energ	y Application Pr	oject Description	Picture
	Dalian Bay Distributed Photovol- taic Power Project	The 2 MW distributed photovoltaic station in Dalian Bay port area was part of Liaoning Port's capital investment plan in 2016. The project adopts a self-generated, self-used, and surplus power grid-feeding consumption model. It was accepted by the State Grid Corporation in 2016, and the photovoltaic power generation official- ly began operating in parallel with the munici- pal power grid.	
Ç.	Dayao Bay Distributed Photovol- taic Power Project	Liaoning Port's capital investment plan in 2018 was completed on November 27, 2018. The photovoltaic power generation system was officially connected to the municipal power grid and began operating in parallel.	
projects Chang Islar Distribu Photo taic Pc Proje Yingk Port Gr Photo taic Pc	Changxing Island Distributed Photovol- taic Power Project	The project adopts a self-generated, self-used, and surplus power grid-feeding model, with an installed capacity of 3.6 MW. The installation is mounted on the rooftop using a flat-laying method. The system was connected to the grid and began generating electricity on June 24, 2018.	
	Yingkou Port Group Photovol- taic Power Project	With an installed capacity of 18.2 MW, the station operates under a self-generated, self-used, and surplus power grid-feeding model. The surplus electricity is sold to the Yingkou municipal grid, with an annual generation of nearly 20 million kWh, with a self-consumption rate of approximately 90%.	
Projects in progress	meters, in colla	omobile Terminal plans to utilize its rooftop resources, aboration with partners. The project aims to install a p tricity to be used in a self-generated, self-used, and surpl	hotovoltaic capacity of 4 MW, with



Sustainable Development Management

In accordance with the 14th Five-Year Plan for Green Port (Dual Carbon) Development of Liaoning Port Group and the 2024 "Dual Carbon" Action Work Plan of Liaoning Port Group, the Company is optimizing the port energy structure, promoting the application of new energy, and conducting preliminary research and feasibility studies for wind power projects, including technical exchanges and on-site inspections with new energy manufacturers at port terminals. The Company is also promoting the use of clean-energy-powered mobile port machinery, including autonomous container trucks, electric container trucks, and hydrogen-powered trucks.

### Case: Two Liaoning Port Achievements Selected as "2024 Outstanding Practices in Green and Low-Carbon Development by Enterprises"

The China Enterprise Management Science Foundation released the list of "2024 Outstanding Practices in Green and Low-Carbon Development by Enterprises." Liaoning Port's "Integrated Energy and Carbon Emission Management for Port Enterprises" and Dalian Port Oil Terminal Company's "Time-Space Segmented Lean Control for Green Port Energy Conservation and Carbon Reduction Transformation" were successfully selected , winning prestigious recognition once again.



# Case: Liaoning Port Applying Unmanned Container Trucks

The Company has deployed six unmanned container trucks on a pilot route, with plans to expand the application as the demonstration area receives approval and the progress of automation transformation advances.



# Impact, Risk and Opportunity Management

Liaoning Port recognizes the multifaceted challenges posed by climate change, including the impacts of extreme weather, regulatory adjustments, pressures from technological innovation, and the demand for green transformation in the market. The Company actively addresses these physical and transition risks by enhancing its risk identification and management systems, ensuring that climate factors are fully integrated into business decision-making and strategic planning. At the same time, the Company continuously explores green and low-carbon development pathways, seizing opportunities arising from industrial upgrades and new energy applications. Through strategic planning and forward-looking actions, Liaoning Port drives the transformation of its port operations toward low-carbon and intelligent models, aiming to proactively position itself for leadership in both short- and long-term industry transitions.

The company defines climate change risks and opportunities as follows: short-term risks and opportunities are within 5 years, mid-term risks and opportunities range from 5 to 15 years, and long-term risks and opportunities extend beyond 15 years.







Physical risks	Contin- gency risks: Extreme weather	<ul> <li>Damage to port facilities, vessels, cargo, etc.</li> <li>Potential safety incidents that pose threats to employee safety and company assets</li> <li>Disruptions to shipping channels, especially due to ice conditions, which may substantially affect shipping operations</li> <li>Increased maintenance, repair, and operational costs for various types of facilities</li> </ul>	Short- to long-term
S	Chronic risk – Rising sea levels	May cause damage to facilities and equipment, increasing maintenance and repair costs	Long-term
	Chronic risk – Rising average tempera- tures	Increase maintenance costs for equipment and infrastructure; Reduce operational efficiency during hot summer	Medium- and long-term
	Policies and laws risks: Introduction of carbon emission reduction policies	Compliance with national emission reduction require- ments could result in higher operating costs	Short- to mid-term

Rising fuel prices may lead to increased transportation costs

Market risk -

Resource

price volatility

Reputation

risks:

Stakeholders

expectations

**Transition** risks

With carbon reduction targets becoming increasingly prioritized across industries, emission reductions in logistics and transportation are expected to become a focus area. Customer demand for green and low-carbon port services will continue to grow. At the same time, tightening environmental disclosure requirements will raise the cost of compliance and reputation management for enterprises

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• The Company follows the Work Plan for Typhoon and Flood Prevention, closely monitoring weather information and managing risks associated with hurricanes, extreme weather, and other natural disasters in real time

 The Company has invested in flood control equipment and improved emergency flood response plans to enhance its disaster preparedness. During periods of freezing weather, the Company issues ice condition bulletins and deploys icebreakers to ensure vessel safety

• The Company has strengthened the inspection and maintenance of buildings, production equipment, and electrical wiring, while optimizing protective measures to reduce safety risks posed by extreme weather

• During periods of freezing weather, the Company issues ice condition bulletins and deploys icebreakers to ensure vessel safety; By analyzing historical data on extreme cold conditions, the Company optimizes protective measures to mitigate the impact of climate-related risks on operations

Liaoning Port's terminals are all located in high-latitude regions; current assessments indicate that the material impact of rising sea levels and increasing average temperatures is limited. Therefore, the Company has not yet established a dedicated response mechanism or countermeasures for such chronic risk

The Company strengthens energy management and improves energy efficiency to reduce energy consumption per unit of output. It has also formulated a Three-Year "Dual Carbon" Action Plan to promote the use of green electricity and support the low-carbon transition

Optimizing dispatching and improving vehicle load rates:Continuously monitoring and adjusting transportation mode selection

The Company closely tracks regional regulatory and disclosure requirements and strengthens compliance management. At the same time, the Company advances the calculation and certification of product carbon footprints, while gradually optimizing the internal energy structure of the port, such as through electrification upgrades. Additionally, the Company actively constructs distributed photovoltaic stations to increase the share of green electricity in its energy mix and support its low-carbon transformation.

Long-term

Clima	Financial services: Green finance	The Company is actively involved in the implementation of the implementation of the implementation of Carbon Emissions Trading (for Trial Implementation), which creates opportunities for participation in the carbon market and the development of emission reduction projects.	Short-term	Each year, the Company conducts greenhouse gas inventories and energy efficiency statistics for key subsidiar- ies, comprehensively assessing carbon emissions. At the same time, the Company is gradually exploring the feasibility of wind power and other renewable energy CCER (China Certified Emission Reduction) projects to drive its low-carbon transformation.
ite opportunities	Market opportunity – Low-carbon technologies	The ongoing R&D of renewable energy power systems, such as hydrogen and ammonia, will drive the application of low-carbon power systems in areas such as container trucks and loading equipment, thereby reducing the pressure on fixed asset acquisition costs. With increasing electrification across industries and rising demand for green power consumption, market demand for renewable energy equipment and solutions will continue to grow.	Mid- to long-term	Continuously monitor market demand and adjust capacity accordingly; Increase R&D investment in renewable energy solutions

# **Indicators and Targets**

Liaoning Port has established a multi-level carbon reduction target management system, setting subsidiary-specific "dual-control targets" through its annual Energy Management Work Plan, and forming a distinctive "4+2" performance evaluation index system. In addition to the four core indicators-total and intensity of energy consumption and carbon emissions, the Company has innovatively introduced two specialized indicators tailored to port operations: comprehensive energy consumption per unit of production, and energy consumption per unit of handling production. This enables refined management and control of energy consumption and carbon emissions.

Greenhouse gas emission accounting comprehensively covers energy consumption data across all scenarios, including handling production, auxiliary production, and ancillary production. The Company adopts the internationally recognized emission factor method, systematically calculating emissions by multiplying each type of energy consumption with its corresponding carbon emission factor, thereby ensuring the scientific accuracy and integrity of its carbon measurement system.

The company's carbon emission reduction work in 2024 has made a breakthrough: the total annual carbon dioxide emissions 469,000 tons, and the carbon emission intensity has been reduced to 42.38 tons of CO<sub>2</sub>/million yuan. Since the launch of the "double carbon" action in 2022, the company's total carbon emissions and intensity have maintained a step-down decline for two consecutive years, completing the "14th Five-Year Plan" emission reduction target ahead of schedule, laying a solid foundation for achieving the peak carbon dioxide emissions target in 2028.

A A	

Port Area Name	Unit	The Overall Objectives For 2024
Dalian Port Area	tonne of carbon dioxide equivalent (tcO2e)	311,654
Yingkou Port Area	tonne of carbon dioxide equivalent (tCO2e)	222,250



(tCO<sub>2</sub>e) **Scope 2 GHG emissions** 

(tCO<sub>2</sub>e)

# **Environment First, Collaborative** Development

Liaoning Port strictly complies with the Environmental Protection Law of the People's Republic of China, the Water Pollution Prevention and Control Law of the People's Republic of China, the Atmospheric Pollution Prevention and Control Law of the People's Republic of China, and other national environmental protection laws and regulations. Adhering to the principles of "targeted,

scientific, and law-based pollution control." the Company fully implements its ecological and environmental protection responsibilities, has established an end-to-end environmental management system, and continuously optimizes its environmental governance capabilities to support the green transformation of port operations.

# Governance

To ensure the scientific and standardized operation of the environmental management system, Liaoning Port has formulated and implemented 17 environmental protection management policies, creating a governance framework that covers pollution prevention, environmental monitoring, and response to emergencies.

The Company has clarified the main responsibilities of functional departments and strictly charged the management with environmental protection responsibilities in addition to their prescribed duties. It also sets up the top-to-down accountability for ecological conservation. The headquarters' leading group for ecological conservation is in charge of ecological conservation work of the Company and has urged its subsidiaries to establish relevant organizations to make and implement their own ecological conservation decisions.

Subject of the Responsibility		
CPC and executive leaders at each subsidiary (Chairman and GM)	Overall responsibili	
Leaders in charge of environmental protection (Safety Director)	Direct leadership a	
Other leaders (Deputy Party Secretaries and Secretary of the Disciplinary Committee)	Direct leadership o	
Functional departments (Persons in Charge of functional departments)	Management of en	

### Performance Assessment

The Company issued the Measures for the Administration of Assessment of Environmental Protection Performance, incorporating environmental performance into the corporate management system to promote the fulfillment of ecological responsibilities. At the same time, Liaoning Port promotes the signing of Safety and Environmental Protection Responsibility Agreements by its subsidiaries to ensure that environmental protection responsibilities are comprehensively implemented across all departments (horizontal to the edge) and effectively cascaded through all levels of the organization (vertical to the bottom). Through semi-annual environmental assessments, the Company incorporates the implementation of environmental responsibilities into the annual energy conservation and environmental protection evaluation, urging all departments to fulfill their environmental obligations.

### **Description of Indicator**

Quantitative Indicators for 2024

**Scope 1 GHG emissions** 



176,312.09

292.653.69



----{ Description of the Responsibility }------

ility as the Chief Officer for environmental protection

and overall supervision of environmental protection work

of environmental protection work in businesses in his or her charg

nvironmental protection in all duties of the department

# Strategy

To address environmental emergencies, Liaoning Port has established a suite of policies including the: Environmental Protection Management Regulations. Measures for the Administration of Water Pollution Prevention and Control. Measures for the Administration of Atmospheric Pollution Prevention and Control, Environmental Responsibility System, and, Measures for the Administration of Environmental Records, establishing a comprehensive early warning, response, and disposal mechanism. The Company regularly conducts emergency drills to enhance the capability to respond quickly to pollution incidents.



### **Environmental Monitoring**

Liaoning Port has formulated regulations such as the Measures for the Administration of Environmental Monitoring and the Measures for the Administration of Pollutant Discharge Permit, specifying detailed monitoring methods and requirements. To fully understand the environmental risks across all subsidiaries, the Company has compiled a detailed list of environmental factors, enabling systematic identification and dynamic tracking of pollution sources to ensure clear insight into pollutant distribution. By improving its monitoring mechanisms and strengthening data quality control, Liaoning Port conducts rigorous self-inspections of emissions data, ensuring that all issues are rectified and addressed in accordance with regulatory requirements.



#### Management of pollutant discharge permit

The Company strengthens the management of by conducting regular quality reviews to ensure legal compliance and validity. Where necessary, permits are updated in accordance with legal procedures to ensure that all discharge activities remain compliant.

### Self-monitoring and construction of legal evidence chain

The Company has strengthened its self-monitoring efforts and pollutant discharge permits has preliminarily established a complete environmental compliance evidence chain for "pollution generation pollution control - pollution discharge." This ensures that all discharge activities are transparent, traceable, and comply with relevant environ-! mental regulations.

#### Ledger and reporting system of 1 Technical support and assistance in environmental procedures environmental management

The Company strictly enforces its environmental management ledger and reporting system, enabling real-time monitoring of ecological and environmental quality across the port and tracking changes in environmental conditions. This ensures that pollutant emissions meet regulatory standards throughout the year.

The Company provides technical support to its subsidiaries for matters such as independent permit

applications and environmental impact assessments (EIAs), helping resolve historical environmental compliance issues and enhancing overall environmental management compliance and efficiency.

# Impact, Risk and Opportunity Management

In accordance with the Environmental Protection Law of the People's Republic of China, and its core principles of "protection first, emphasis on prevention, overall control, public participation, and accountability for damages," Liaoning Port has developed a series of regulations, including the Leading Group Meeting System for Energy Conservation and Environmental Protection and the Measures for the Administration of Identification and Mitigation of Environmental Emergency Hazards. The Company holds a full environmental work meeting at least once every six months and requires its subsidiaries to implement ecological protection measures rigorously to reduce the likelihood of environmental incidents.

Based on the potential severity of harm, difficulty of remediation, and risk level of sudden environmental incidents, the Company classifies environmental safety hazards into general and major categories:

### **General Hazards**

Hazards that may cause significant environmental harm, such as the potential release of toxic and harmful substances into the air, water, soil, or other environmental media, leading to major or more severe sudden environmental incidents

#### Potential Hazard Identification and Adaptation Scenarios $\mathbf{\nabla}$

# Changes in surrounding atmospheric and water environmental risk receptors

Changes in the production wastewater system. stormwater system, clean wastewater system, and emergency drainage system

Changes in the discharge outlets for wastewater, stormwater, and clean wastewater, as well as the connecting channels to water environmental risk receptors

The Company has established and improved a hazard identification mechanism primarily based on daily inspections, supplemented by comprehensive inspections, special inspections, and spot checks. Adhering to the principle of "whoever conducts the inspection is responsible, whoever signs is responsible, and whoever is in charge is responsible," the Company carries out hazard identification and remediation of sudden environmental incidents at the corporate level, and maintains detailed records of hazard identification and remediation efforts.

The Company strictly complies with relevant laws and regulations and has established a robust emergency management system to ensure rapid and effective response in the event of environmental incidents. To improve emergency response capabilities, the Company formulated and implemented the Measures for the Administration of Identification and Rectification of Environmental Emergency Hazards, ensuring a closed-loop management process of: reporting - rectification - supervision and acceptance.





**Maior Hazards** 

Hazards that are complex, difficult to remediate in the short term, and may cause environmental harm

> Seasonal changes or the issuance of meteorological disaster warnings and geological earthquake disaster forecasts



## **Case:** Chemical Spill Emergency Drill in Yingkou City

The Yingkou Maritime Search and Rescue Center organized an emergency drill for a bulk chemical pollution incident involving ship transportation at the Xianren Island Port Area, Liaoning Province. The barge companies, cleaning cabin companies, and fuel supply companies in the Yingkou area, as part of Liaoning Port's maritime search and rescue and oil spill emergency response forces, dispatched multiple emergency vessels and oil spill equipment to participate in the drill. The drill covered various scenarios, including incident reporting, emergency response, hazard control, monitoring and surveillance, personnel rescue, and chemical spill disposal. The objective was to enhance emergency response efficiency and ensure the effective management of chemical spill incidents.



Chemical Spill Emergency Drill in Yingkou

## Case: Marine Oil Spill Emergency Drill at Dalian Bay Port

A marine oil spill emergency drill was conducted at the passenger terminal area of Dalian Bay Port, jointly organized by the Dalian Maritime Safety Administration, Dalian Port Passenger Transport General Company, and Dalian Shunfeng Shipping Service Co., Ltd. The drill tested the feasibility of Dalian Port Passenger Transport General Company's oil spill emergency response plan, as well as the command and operational capabilities of the emergency personnel. The drill further strengthened coordination with Dalian Port Passenger Transport General Company and improved the efficiency of marine oil spill response, with the aim of minimizing the environmental impact of such incidents on the marine ecosystem.



Marine Oil Spill Emergency Drill at Dalian Bay Port

# **Pollutant Emission**

## Wastewater management



Liaoning Port strictly complies with the Environmental Protection Law of the People's Republic of China, the Water Pollution Prevention and Control Law of the People's Republic of China, the Measures for the Administration of Pollutant Discharge Permits, and other relevant environmental laws and regulations to ensure that all operations meet national environmental protection requirements. To strengthen wastewater management, the Company has developed the Measures for the Administration of Water Pollution Prevention and Control, which clarify environmental responsibilities and ensure the efficient implementation of wastewater management.

A comprehensive wastewater management system has been established, with unified oversight and management provided by the Safety and Supervision Department. Through refined management practices and inspection and assessment mechanisms, the Company ensures that wastewater control measures are effectively enforced and the management system operates with high efficiency. Regular wastewater monitoring is conducted to ensure all discharges strictly comply with national and local environmental standards, minimizing negative environmental impact.

# Case: Capacity Expansion and Upgrade of the Wastewater Treatment Plant at Yingkou Xingang Ore Terminal

During the reporting period, Yingkou Xingang Ore Terminal Co., Ltd. carried out a capacity expansion and upgrade of its wastewater treatment plant at Berth 1. An additional 1,800 m<sup>3</sup> equalization tank was constructed, increasing the wastewater treatment capacity from the original 60 m<sup>3</sup>/h to 110 m<sup>3</sup>/h. This upgrade significantly enhanced the terminal's capacity to collect and treat wastewater, improved treatment efficiency, and reduced the environmental impact of wastewater discharge. Through this expansion and upgrade project, wastewater treatment infrastructure in the Yingkou Port area has been notably strengthened, contributing to environmental protection and the sustainable management of water resources.

The Company has established various types of wastewater treatment facilities that primarily treat pollutants including Chemical Oxygen Demand (COD), ammonia nitrogen, total nitrogen, petroleum-based substances, and suspended solids. These facilities have effectively controlled the discharge of water pollutants, ensuring that effluent quality complies with environmental protection standards.

Indicator	Unit	2024	2023	2022
Wastewater related pollution incidents	_	0	0	0
Total wastewater discharge	metric ton	451,017.34	511,069.60	497,312.91
Discharge of industrial wastewater	metric ton	7,972.76	38,422.10	305,315.46
Discharge of domestic wastewater	metric ton	443,044.58	472,647.50	191,997.45
Number of wastewater treatment facilities	_	18	27	59

Description: Due to the adjustment of the company's statistical methods and statistical caliber this year, the relevant data of non-joint-stock companies have been excluded, and the past data are not comparable with the current year's data.

#### Waste gas management

Liaoning Port complies with the Atmospheric Pollution Prevention and Control Law of the People's Republic of China, the Integrated Emission Standard for Atmospheric Pollutants, and other relevant laws and regulations. The Company has also formulated and implemented internal policies such as the Measures for the Administration of Atmospheric Pollution Prevention and Control to strictly regulate atmospheric pollutant emissions and ensure the implementation of all environmental protection requirements. In support of the national strategy of the "fight to keep our skies blue," the Company continues to improve waste gas treatment technologies and facilities, strengthens emission control, and further reduces the environmental impact of atmospheric pollutants. These actions are part of Liaoning Port's effort to create a cleaner port environment and promote green and low-carbon development.



Capacity Expansion and Upgrade of the Wastewater Treatment Plant at Yingkou Xingang Ore Terminal





Indicator	Unit	2024	2023	2022
Exhaust pollutant emissions	kg	23,734,525.30	25,688,064.10	13,991,812.20
Air emissions – nitrogen oxides (NOx)	kg	180,202.00	210,988.80	70,876.90
Air emissions – sulfur oxides (SOx)	kg	147,268.70	152,295.30	5,747.70
Air emissions – volatile organic compounds (VOCs)	kg	2,108,541.80	2,435,449.10	2,512,042.60
Other exhaust pollut- ants	kg	21,298,512.80	22,889,330.90	11,403,145.00
Waste management				

Liaoning Port strictly complies with the Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes and other relevant laws and regulations in the prevention and control of solid waste pollution, while following the principles of reducing waste generation, maximizing waste utilization, and harmless disposal of waste.

To ensure proper management of solid waste, the Company has issued the Measures for the Administration of Solid Waste Pollution Prevention and Control and the Measures for the Administration of Hazardous Waste Pollution Prevention and Control, upholding the principles of classified collection, waste resource utilization, and harmless treatment. In the collection, storage, transportation, utilization, and disposal of solid waste, the Company strictly enforces control measures to prevent spillage, leakage, and infiltration, ensuring safe disposal and maximized resource utilization.



During the reporting period, the Company generated approximately **51,000** metric tons of general solid waste, of which **7**,**700** metric tons were recycled through comprehensive utilization, resulting in a utilization rate of **15%**. This primarily involved the commissioned comprehensive utilization of boiler slag and dust pollutants from the grain company. The remaining general solid waste was disposed of in a harmless manner at licensed waste disposal sites All operational waste generated by the Company is entrusted to licensed third-party organizations for harmless and compliant disposal, ensuring the entire process meets environmental protection standards.

In response to the latest regulatory requirements, the Company has conducted a comprehensive compliance inspection of hazardous waste storage facilities, strengthened packaging and classified storage practices, and identified potential risks. For facilities that fail to meet new standards, the Company has developed an upgrade plan. Additionally, the Company has been promoting the use of technologies such as electronic weighbridges, electronic tags, and electronic management ledgers to enhance the digital management level of hazardous waste storage environments.

During the reporting period, 100% of the Company's solid waste was disposed of in a compliant and standardized manner.

Indicator	Unit	2024	2023	2022
Non-hazardous waste generated	metric ton	48,973.20	55,017.40	39,253.50
Hazardous waste generated	metric ton	1,070.70	462.20	882.10

# **Noise management**

The Company, in accordance with the Law of the People's Republic of China on Noise Pollution Prevention and Control and other relevant regulations, has formulated the Measures for the Administration of Noise Pollution Prevention and Control and is committed to reducing port area noise pollution through physical measures. During the initial phase of port operation area construction, the Company incorporated noise pollution considerations into project design and prioritized solutions with relatively lower noise impact. The Company has equipped high-noise machinery with vibration-damping and noise-reduction devices and constructed green noise barrier zones, ensuring that environmental noise levels at site boundaries comply with relevant emission standards.

# **Indicators and Targets**

Liaoning Port actively responds to environmental protection requirements by setting comprehensive and clear environmental targets, covering key areas such as environmental management, energy usage, and pollutant emissions, and earnestly fulfills its environmental responsibilities.



Total investment in environmental protection in 2024 18.089.20

Ten thousand yuan

# During the reporting period, all environmental targets were achieved.

Category	(
Environment Management	Improve the system of ecological and envir work is rule-based. Establish a robust top-down ecological and the supervision, assessment, and accounta Enhance the environmental emergency res
Energy Use	Further improvement of resource efficiency Continuing to increase the use of clean ene Advance the implementation of greener an
Pollutant Emission	Refine maintenance and management rul requirements for meeting emission standar Ensure 100% compliant discharge rate for v Implement the environmental monitoring data.



Total investment in environmental protection in 2023

5.740.60

Total investment in environmental protection in 2022





ironmental protection regulations to ensure all environmental

- d environmental protection responsibility system, and improve ability mechanisms.
- sponse plan system to address potential incidents.

ergy.

nd more energy-saving technological upgrading projects.

les for all pollution prevention facilities, and implement the ards and source control.

wastewater, waste gas, solid waste, and hazardous waste. plan and strengthen the management of pollutant emission

#### 2024 Environmental Management Targets – Completion and Progress

- tal Protection Leading Group; Designated an environmental protection function department; No public violations or penalties were recorded.
- 1 Established an Energy Conservation and Environmenterminal vapor recovery construction; Conducted semi-annual environmental supervision inspections based on on-site assessments; Organized one marine oil spill emergency drill to test the applicability of the emergency response plan.



# Energy Optimization for Cost Reduction and Efficiency Enhancement

# **Energy Management**



tion. Additionally, Liaoning Port has innovatively built a "system-standard-process" integrated control model to guarantee comprehensive coverage and efficient execution of energy management:

 At the system level, the Company has developed 6 categories and 18 specialized regulations, providing a solid institutional framework for energy management

• At the technical standards level, it has established a monitoring network with 100% coverage of energy metering instruments, ensuring the accuracy of energy measurement

• At the process management level, the Company has developed 12 standardized workflows, including energy audits and energy efficiency benchmarking of equipment, enhancing both the standardization and operability of management practices

Liaoning Port strictly adheres to the international ISO 50001:2018 energy management standard and has meticulously developed the Liaoning Port Energy Management System. The Company has successfully formulated and published energy management system procedural documents, launched energy management system certification processes, and was awarded the first Liaoning Port Energy Management System Certification in Liaoning Port, marking a milestone in the implementation of lean management.

# Case: Liaoning Port and Subsidiaries Obtaining ISO 50001:2018 Certification

Liaoning Port and nine of its subsidiaries successfully passed the rigorous audit of the ISO 50001:2018 Energy Management System and were granted the official Energy Management System Certification.

Indicator	Unit	2
Total photovoltaic power generation	TCE	3,4
Photovoltaic power consumption	TCE	2,6
Self-consumption rate	%	7
Total energy consump- tion	TCE	142,

#### **Recovery and recycling**

The Company actively promotes the implementation of circular economy principles and has adopted a series of measures to realize waste-to-resource utilization:

lubricating and maintaining components like pumps and valves. This not only reduces waste emissions but also improves equipment maintenance efficiency.

• Rain and Wastewater Reuse: Treated through the Company's wastewater treatment facilities, rainwater and wastewater are reused for dust suppression, ground cleaning, and landscaping within the port areas, once relevant reuse standards are met.

# Case: Construction of Rainwater Sedimentation and Collection System at Dalian Bulk Cargo and Bulk Grain Terminals

During the reporting period, Dalian Bulk Cargo Terminal Company and Bulk Grain Terminal Company each invested RMB 12 million to construct the rainwater sedimentation and collection system for their coal bulk storage yards. This project effectively addressed the issue of untreated rainwater discharge into the sea, enhancing the port area's rainwater collection and treatment capacity.

# Water Management

Liaoning Port actively promotes technological innovation and implements water conservation management measures by integrating advanced water treatment technologies. By adopting reverse osmosis and other high-efficiency water treatment systems, the Company ensures water quality while significantly improving water resource utilization efficiency.





The Company considers water conservation culture a key pillar of sustainable development. It regularly promotes water-saving knowledge among employees and organizes thematic water conservation activities to enhance employees' awareness of water conservation, encouraging staff to become active participants and advocate for water-saving practices.

Indicator	Unit	2024	2023	2022
Total water consump- tion	metric ton	2,034,990.49	2,053,942.20	2,794,708.68
New water consump- tion	metric ton	1,936,535.24	2,864,717.98	2,758,436.68
Recycled water consumption	metric ton	98,455.25	44,156	36,272

Description: Due to the adjustment of the company's statistical methods and statistical caliber this year, the relevant data of non-joint-stock companies have been excluded, so the data for this year is not comparable with those of previous years.

# Case: Technological Innovation at Dalian Port's Seawater Desalination Station

Dalian Port adopted reverse osmosis technology to build a seawater desalination station with a daily water supply capacity of 2,400 metric tons, incorporating technical innovations in the design of the solution. The system utilizes an energy recovery system that replaces traditional hydraulic turbines, achieving a 35%+ reduction in operational energy consumption and enhancing system energy efficiency. Testing has confirmed that the desalinated water meets more than 40 national drinking water standards. In addition, Liaoning Port applies recycled water from seawater desalination across multiple scenarios, including spraying on ore terminal stock yards, road surface washing, and fire-fighting at terminal sites, significantly conserving freshwater resources.



Dalian Port Seawater Desalination Station

# Enhancing Green Efforts, Safeguarding the Ecosystem

Liaoning Port consistently prioritizes ecological and environmental protection as one of its core responsibilities in corporate development, and continuously promotes environmentally friendly business practices, striving to achieve a win-win outcome for both economic and ecological benefits. Based on strict compliance with relevant laws and regulations, Liaoning Port is committed to reducing the environmental impact of its operations through green and low-carbon transformation, and actively explores sustainable development pathways that enable synergistic growth with the ecological environment.

# Welfare Activities About Environmental Protection

Liaoning Port is committed to fostering a strong culture of ecological and environmental awareness. In accordance with the Liaoning Port Group's Notice on the Promotion of 2024 World Environment Day Activities, the Company organized a range of awareness efforts—producing banners and display boards, hosting classroom trainings and practical drills, holding mobilization meetings, and conducting environmental knowledge quizzes-to popularize ecological knowledge, highlight the risks of environmental problems, clarify the direction of ecological and environmental supervision, and further strengthen employees' environmental awareness.



# Case: Liaoning Port Participating in Group-Wide World Environment Day Themed Activities

During the World Environment Day, Liaoning Port launched a series of vibrant awareness activities, including distribution of informational leaflets, display of themed banners, and organizing environmental volunteer service teams. These actions highlighted the achievements of the "Beautiful Liaoning Port" initiative and cultivated a culture of public engagement in environmental protection, promoting values of green living, energy conservation, and low-carbon travel.

# **Ecosystem Protection**

Liaoning Port is committed to building a green port in harmony with nature, actively engaging in the protection of spotted seals. The Company's efforts cover multiple dimensions, including noise control, risk incident mitigation, and navigation management.

#### **Operational Noise Control Measures**

Land-based noise control: Use of high-efficiency, low-noise equipment that meets national standards; implementation of sound insulation, sound attenuation, and noise reduction measures to minimize the impact on surrounding environments. The maintenance and repair of machinery and equipment are enhanced to ensure normal operation and reduce noise.

Marine noise control: Reasonable scheduling of vessel entries and departures, control of vessel speed and density, and preference for low-noise vessels to mitigate noise pollution.

## **Risk Incident Mitigation Measures**

In the event of oil spill emergencies, the Company simultaneously initiates protective measures for spotted seals and their habitats, enabling rapid forecasting of oil spill risks to wildlife.

Timely early warning notifications are sent to the management authority of the spotted seal nature reserve, including information on the severity of the oil spill's impact on environmentally sensitive resources and the duration of the effects, to allow for advanced pollution prevention and emergency preparation by relevant agencies. Navigation Management

During the icebound season in Liaodong Bay (late November to March) and the spotted seal distribution season, the Company enhances navigational support by installing radar navigation chains and other navigational facilities in protected waterway areas. Vessel management is strengthened and timely traffic control measures are implemented. Oil tankers operate in single direction and at reduced speed. Terminal dispatchers remind crews of incoming and outgoing vessels to observe and avoid spotted seals, particularly pups on the ice. If a pup is spotted, a rescue mechanism is immediately activated.

Routine monitoring: The Company conducts regular visual observations of spotted seals using binoculars and other equipment from the wharf apron.



Liaoning Port's World Environment Day Campaigns in Actio

# Appendix: Key Performance Indicators

Issue	Indicator	Unit	2024
	Environmen	tal	
	Total water consumption	metric ton	2,034,990.49
	New water consumption	metric ton	1,936,535.24
Water	Recycled water consumption	metric ton	98,455.25
	Proportion of recycled water consumption	%	4.80
	Water consumption intensity (per RMB 1,000,000 revenue)	metric ton/RMB 1,000,000	183.88
	Specific energy usage statistics:		
	Coal consumption	TCE	4,430.09
	Gasoline consumption	TCE	869.30
	Diesel oil consumption	TCE	47,758.90
	Marine gas oil consumption	TCE	8,809.97
	Marine fuel oil consumption	TCE	18,528.96
	Natural gas consumption	TCE	84.19
	Photovoltaic power consumption	TCE	2,682.67
	Total photovoltaic power generation	TCE	3,490.20
-	Self-consumption rate	%	76.86
Energy	Outsourced electric power	TCE	36,024.99
	Outsourced heating power	TCE	23,419.34
	Direct energy consumption	TCE	80,481.41
	Indirect energy consumption	TCE	62,127.00
	Total energy consumption	TCE	142,608.41
	Energy consumption intensity (per RMB 1,000,000 revenue)	TCE/RMB 1,000,000	12.89
	Clean energy consumption	TCE	2,766.86
	Renewable energy consumption	TCE	2,682.67
	Proportion of non-fossil energy consumption	%	43.56
	Proportion of clean energy consumption	%	1.94
	Proportion of renewable energy consumption	%	1.88

Issue	Indicator	Unit	2024
	Environmental	· · · · · · · · · · · · · · · · · · ·	
	Discharge of wastewater	metric ton	451,017.34
	Discharge of industrial wastewater	metric ton	7,972.76
	Discharge of domestic wastewater	metric ton	443,044.58
Wastewater	Discharge of Category II pollutants in wastewater (pH, color, COD, suspended solids, etc.)		
	COD	kg	22,551.7
	Other Category II pollutants in wastewater	kg	3,607.7
	Exhaust pollutant emissions	kg	23,734,525.
	NOx	kg	180,202
Waste Gas	SO <sub>2</sub>	kg	147,268.7
	Volatile organic compounds (VOCs)	kg	2,108,541.8
	Other exhaust pollutants	kg	21,298,512.
	Total solid waste generated	metric ton	50,043.9
	Non-hazardous waste generated	metric ton	48,973.2
	Hazardous waste generated	metric ton	1,070.7
	Total solid waste disposed	metric ton	50,043.9
Solid Waste	Non-hazardous waste disposed	metric ton	48,973.2
	Hazardous waste disposed	metric ton	1,070.7
	Waste recycling rate	%	15
	Non-hazardous waste generation intensity (per RMB 1,000,000 revenue)	metric ton/RMB 1,000,000	4.43
	Hazardous waste generation intensity (per RMB 1,000,000 revenue)	metric ton/RMB 1,000,000	0.10
	Total GHG emissions	tCO2e	468,965.78
	Scope 1 emissions	tCO2e	176,312.09
GHG Emissions	Scope 2 emissions	tCO2e	292,653.69
Emissions	GHG emissions intensity (Scope 1) (per RMB 1,000,000 revenue)	tCO2e/RMB 1,000,000	15.93
	GHG emissions intensity (Scope 2) (per RMB 1,000,000 revenue)	tCO2e/RMB 1,000,000	26.44
Investment in	Amount of significant administrative penalties imposed by environmental authorities due to environmental incidents during the reporting period	RMB 10,000	0
Environmen- tal Protection	Total investment in environmental protection	RMB 10,000	18,089.2
	Proportion of total investment in environmental protection to operating revenue	%	1.63

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lssue	Indicator	Unit	2024
	Social	•	
	Number of in-service employees	person	10,786
	Gender structure:	-	-
	Male	person	8,844
	Female	person	1,942
	Age:		
	30 and below	person	548
	30-50	person	7,823
	Over 50	person	2,415
L. L	Degree of education:		
	PhD	person	4
	Master's degree	person	415
	Bachelor's degree	person	3,492
	Associate degree	person	2,753
Employee	Below associate degree	person	4,122
Composition	People with disabilities	person	29
L. L	Ethnic minorities	person	973
	Profession:		
	Production personnel	person	1,423
	Sales	person	0
	Technical personnel	person	8,515
L	Financial personnel	person	370
, i i i i i i i i i i i i i i i i i i i	Administrative personnel	person	478
	Newly recruited employees	person	75
	Recent graduates	person	70
	Social recruitment	person	5
	Employee coverage rate for social insurance	%	100
Occupational	Safety training coverage rate	%	100
Health and	Workplace safety investment	RMB 10,000	17,200
Safety Ianagement	Amount invested in occupational injury insurance	RMB 10,000	1,522

lssue	Indicator	Unit	2024
	Social		<u>!</u>
	Coverage of occupational injury insurance	%	100
	Amount invested in workplace safety liability insurance	RMB 10,000	133.57
	Coverage of workplace safety liability insurance	%	100
Occupational	Number of occupational illness cases	person	0
Health and	Occupational illness incidence rate	%	0
Safety Management	Number of workplace safety incidents	case	21
	Occupational injury rate	%	0.19
	Number of work-related fatalities	person	0
	Rate of work-related fatalities	%	0
	Number of working days lost due to occupational injuries	day	2,176
	Number of employee training sessions	time	4,644
	Employee training expenditure	RMB 10,000	521.80
Development	Total length of employee training	hour	1,197,20
and Training	Average length of training per employee	hour	111
	Total number of employee training participants	attendant	178,744
	Coverage of employee training	%	100
Employee Turnover	Employee turnover rate	%	3.56
Labor Disputes	Number of labor dispute cases	case	0
Product Safety	Amount involved in major liability incidents related to product and service safety and quality during the reporting period	RMB 10,000	0
and Quality	Number of products withdrawn and recalled due to health and safety reasons	case	0
	Proportion of products withdrawn and recalled due to health and safety reasons	%	0
	Number of customer satisfaction surveys conducted	case	924
	Coverage of customer satisfaction survey	%	74
	Customer satisfaction score	point	97.53
Customer Service and Rights	Number of customer complaints	case	53
	Number of customer complaints resolved	case	53
	Customer complaint resolution rate	%	100
	Amount involved in data security incidents	RMB 10,000	0

lssue	Indicator	Unit	2024		
	Social				
Customer Service	Number of customer privacy breach incidents	case	0		
and Rights	Amount involved in customer privacy breach incidents	RMB 10,000	0		
	R&D investment	RMB 10,000	2,023		
	Proportion of R&D investment to operating revenue	%	0.18		
-	Number of R&D personnel	person	282		
	Proportion of R&D personnel	%	2.61		
	Gender structure:				
	Male	person	200		
Innovation	Female	person	82		
and	Age:				
Develop- ment	30 and below	person	14		
-	30-50	person	237		
	Over 50	person	31		
	Degree of education:				
	PhD	person	1		
	Master's degree	person	34		
	Bachelor's degree	person	185		
	Associate degree	person	53		
-	Below associate degree	person	9		
	Number of patent applications	_	6		
	Number of invention patent applications	_	0		
	Number of utility model patent applications	_	6		
	Number of design patent applications	_	0		
Intellectual	Number of authorized patents	—	2		
Property Protection	Number of invention patents authorized	_	0		
r	Number of invention patent applications	—	2		
	Number of utility model patent applications	_	0		
c	Number of design patent applications	—	26		
	Number of authorized patents	_	0.0023		

lssue	Indicator
	Social
	Number of copyrights registered
Intellectual Property Protection	Number of copyrights registered per RMB 1,000,00
	Number of software copyrights registered
	Number of software copyrights registered per RM
	Number of suppliers
Supplier Manage-	Number of suppliers in China (the Chinese mainla
ment	Number of suppliers in China (Hong Kong, Macao
	Number of overseas suppliers
Management of Supply Chain Links	Number of Major Risks and Impact Events in the S
Taxation Management	Amount of taxes paid
	Amount of money invested in public-interest activ
Welfare	Total number of welfare activities
Activities	Number of volunteers participating in public-inter
	Duration of volunteers participating in public-inte
	Gover
	Number of Party Committee meetings
	Number of Party branches
	Number of Party members
	Number of members of Board of Directors
	PhD
Organiza-	Master's degree
tion	Bachelor's degree or below
Structure and	Male
Functions	Female
	Independent directors
	Non-independent directors
	30 and below
	30-50
	Over 50

	Unit	2024
al	3	
	_	2
000 revenue	_	0.0002
	_	2
/B 1,000,000 revenue	-	0.0002
	_	35,090
land)	_	35,080
o and Taiwan)	_	3
	_	7
Supply Chain	_	0
	RMB 10,000	84,700
ivities	RMB 10,000	10,500
	time	8
erest activities	person	170
erest activities	hour	67
rnance		
	time	30
	—	352
	person	6,623
	person	8
	person	2
	person	3
	person	3
	person	7
	person	1
	person	3
	person	5
	person	0
	person	0
	person	8
		<u>.</u>

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lssue	Indicator	Unit	2024
	Governance	÷	
	Number of meetings of the Board of Directors	time	12
	Number of meetings of the Audit Committee	time	7
	Number of meetings of the Financial Management Committee	time	9
	Number of meetings of the Nomination and Remuneration Committee	time	6
	Number of meetings of the Strategy and Sustainable Development Committee	time	6
	Number of members of Board of Supervisors	person	5
	PhD	person	0
	Master's degree	person	4
	Bachelor's degree or below	person	1
	Male	person	4
	Female	person	1
Organization	External supervisors	person	1
Structure and Functions	30 and below	person	0
	30-50	person	1
	Over 50	person	4
	Number of meetings of the Board of Supervisors	time	5
	Number of senior management employees	person	7
	Senior management with PhD	person	0
	Senior management with Master's degree	person	4
	Senior management with Bachelor's degree or below	person	3
	Male	person	6
	Female	person	1
	30 and below	person	0
	30-50	person	3
	Over 50	person	4
	Duration of anti-commercial bribery and anti-corruption training	hour	54,916
Anti-commer- cial Bribery	Total number of participants in anti-commercial bribery and anti-corruption training	person	13,181
and Anti-cor-	Percentage of total participants in anti-commercial bribery and anti-corruption training	%	100
ruption	Number of legal cases regarding corrupt practices	case	0

lssue	Indicator	Unit	2024		
	Governance				
Investor	Number of road shows	time	4		
	Number of investor communication sessions	session	12		
Relations Management	Number of investors received	person time	50		
management	Number of platform responses	time	65		
	Number of investor calls answered	time	160		
Shareholders'	Number of General Meetings of Shareholders	time	3		
Rights and Interests	Attendance rate of directors at the General Meetings of Shareholders	%	60		
Information	Number of periodic reports disclosed	-	4		
Disclosure	Interim announcements released	-	79		
Risk Manage- ment	Amount involved in lawsuits or significant administrative penalties due to the Company's unfair competition during the reporting period	RMB 10,000	0		
	Number of major litigation cases	case	1		
	Number of arbitration matters	case	0		
	Number of violation penalties	time	0		
	Total amount of penalties for violations	RMB	0		

# **Appendix:** Indicators Index

## Disclosure index for Guidelines No. 14 of Shanghai Stock Exchange for Self-Regulation of Listed Companies-Sustainability Report (Trial)

Disclosure Requirement	Corresponding Section of This Report (For issues not disclosed, a thorough explanation is provided in accordance with Article 7 of the Guidelines)
Combating climate change	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Focusing on "Dual Carbon" Goals, Advancing Green Transformation] Key Performance Indicators
Pollutant emission	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Environment First, Collaborative Development] Key Performance Indicators
Waste disposal	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Environment First, Collabora- tive Development] Key Performance Indicators
Ecosystem and biodiversity protection	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Enhancing Green Efforts, Safeguarding the Ecosystem] Key Performance Indicators
Environmental compliance management	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Environment First, Collabora tive Development] Key Performance Indicators
Energy use	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Energy Optimization for Cost Reduction and Efficiency Enhancement] Key performance Indicators
Water use	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Energy Optimization for Cost Reduction and Efficiency Enhancement] Key performance Indicators
Circular Economy	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Energy Optimization for Cost Reduction and Efficiency Enhancement] Key Performance Indicators
Rural Revitalization	Shouldering Responsibilities Jointly Towards a Better Future [Living Out Responsibility Through Everyday Actions] According to the Company's ESG materiality assessment, this issue is not currently classified as financially material or materially impactful. Therefore, disclosures are not made in strict accordance with the requirements outlined in the Guidelines No. 14 of Shanghai Stock Exchange for Self-Regulation of Listed Companies—Sustainability Report (Trial).
Social Contribution	Shouldering Responsibilities Jointly Towards a Better Future [Living Out Responsibility Through Everyday Actions] Key Performance Indicators
Innovation-driven development	Shouldering Responsibilities Jointly Towards a Better Future [Technology-oriented and Innovation-driven Development] Key Performance Indicators
Science and technology ethics	Shouldering Responsibilities Jointly Towards a Better Future [Technology-oriented and Innovation-driven Development] Key Performance Indicators According to the Company's ESG materiality assessment, this issue is not currently classified as financially material or materially impactful. Therefore, disclosures are not made in strict accordance with the requirements outlined in the Guidelines No. 14 of Shanghai Stock Exchang for Self-Regulation of Listed Companies—Sustainability Report (Trial).
Supply Chain Security	Shouldering Responsibilities Jointly Towards a Better Future [Reinforcing the Supply Chain for Steady Progress] Key Performance Indicators
Equal treatment of SMEs	Shouldering Responsibilities Jointly Towards a Better Future [Reinforcing the Supply Chain for Steady Progress] According to the Company's ESG materiality assessment, this issue is not currently classified as financially material or materially impactful. Therefore, disclosures are not made in strict accordance with the requirements outlined in the Guidelines No. 14 of Shanghai Stock Exchange for Self-Regulation of Listed Companies—Sustainability Report (Trial).
Product and service safety and quality	Shouldering Responsibilities Jointly Towards a Better Future [Quality First, Service Foremost] Key Performance Indicators
Data security and customer privacy protection	Shouldering Responsibilities Jointly Towards a Better Future [Technology-oriented and Innovation-driven Development] Key Performance Indicators

# Disclosure index for Guidelines No. 14 of Shanghai Stock Exchange for Self-Regulation of Listed Companies-Sustainability Report (Trial

Disclosure Requirement	(For issues not disclose
Employees	Shouldering Responsibil Uniting Strengths] Key P
Due diligence	According to the Compar financially material or m this Report.
Communication with Stakeholders	Sustainable Developmer
Anti-commercial bribery and anti-corruption	Solidifying Foundations Clean Governance] Key F
Anti-unfair Competition	Solidifying Foundations Clean Governance] Acco currently classified as fin made in strict accordanc Stock Exchange for Self-
Self-disclosed issue: Leading role of Party building	Solidifying Foundations Strengthening the Found
Self-disclosed issue: Protecting sharehold- ers' rights and interests	Solidifying Foundations Coordinated Advance]

#### Disclosure Index of the Reference Indicator System for ESG Reports of Listed Companies Controlled by Central Enterprises

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Disclosure Requirement	Reference Indicators for ESG Reports of Listed Companies Controlled by Central Enterprises
About this Report	
About Liaoning Port	
Board Statement	
Sustainable Development Management	
Scientific Management for Sustainable Development	G1.1; G.5.2
Solidifying Foundations to Enhance Management Quality and Efficiency	
Leading Role of Party Building, Strengthening the Foundation	G.1.1; G.2.2
Scientific Governance Fueling Coordinated Advance	G1.1; G1.2; G1.3; G3.1; G3.2; G3.3; G4.2
Consolidating Defense with Synergized Efforts	G2.1; G5.1; G5.2
Upholding Integrity and Serving with Clean Governance	G2.2; G2.3
Shouldering Responsibilities Jointly Towards a Better Future	
People-oriented Approach for Uniting Strengths	S1.1; S1.2; S1.3; S1.4
Technology-oriented and Innovation-driven Development	S2.3

Corresponding Section of This Report

, a thorough explanation is provided in accordance with Article 7 of the Guidelines)

ilities Jointly Towards a Better Future [People-oriented Approach for Performance Indicators

any's ESG materiality assessment, this issue is not currently classified as materially impactful, and therefore, relevant information is not disclosed in

ent Management [Communication with Stakeholders]

s to Enhance Management Efficiency [Upholding Integrity and Serving with Performance Indicators

s to Enhance Management Efficiency [Upholding Integrity and Serving with cording to the Company's ESG materiality assessment, this issue is not inancially material or materially impactful. Therefore, disclosures are not nce with the requirements outlined in the Guidelines No. 14 of Shanghai f-Regulation of Listed Companies—Sustainability Report (Trial).

to Enhance Management Efficiency [Leading Role of Party Building, ndation]

s to Enhance Management Efficiency [Scientific Governance Fueling

Disclosure Index of the Reference Indicator System for ESG Reports of Listed Companies Controlled by Central Enterpr

Disclosure Requirement	Reference Indicators for ESG Reports of Listed Companies Controlled by Central Enterprises		
Reinforcing the Supply Chain for Steady Progress	E5.1; S3.1; S3.2		
Quality First, Service Foremost	S2.1; S2.2		
Living Out Responsibility Through Everyday Actions	S4.1; S4.2; S4.3; S4.4		
Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters			
Focusing on "Dual Carbon" Goals, Advancing Green Transformation	E.3.1; E.3.2; E3.4; E5.1; E.5.4		
Environment First, Collaborative Development	E.2.1; E.2.2; E.2.3		
Energy Optimization for Cost Reduction and Efficiency Enhancement	E.1.1; E.1.3; E.5.2; E5.3		
Enhancing Green Efforts, Safeguarding the Ecosystem	E4.1; E.5.4		
	E.1.1; E.1.3; E.2.1; E.2.2; E.2.3; E.3.1; S.1.1;		
Key Performance Indicators	S.1.2; S.1.3; S.1.4; S.2.1; S.2.2; S.2.3; S.3.1;		
	S.3.2; S.4.1; S.4.3; G.1.2		

# HKEX ESG Indicators Index

Issue	Content	2024 Index
	Policies and relevant laws and regulations on waste gas emissions, GHG emissions, water and land pollution, and hazardous and non-hazardous waste	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Focusing on "Dual Carbon" Goals, Advancing Green Transforma- tion] [Environment First, Collaborative Development] [Energy Optimization for Cost Reduction and Efficiency Enhancement] [Enhancing Green Efforts, Safeguarding the Ecosystem]
A1 Emissions	A1.1 Types of emissions and respective emissions data	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Environment First, Collaborative Development] Key Performance Indicators
	A1.2 Scope 1 and Scope 2 GHG emissions and, where appropriate, intensity	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Focusing on "Dual Carbon" Goals, Advancing Green Transforma- tion] Key Performance Indicators
	A1.3 Total hazardous waste produced and, where appropriate, intensity	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Environment First, Collaborative Development] Key Performance Indicators
	A1.4 Total non-hazardous waste produced and, where appropriate, intensity	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Environment First, Collaborative Development] Key Performance Indicators
	A1.5 Established emission targets and the steps taken	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Focusing on "Dual Carbon" Goals, Advancing Green Transforma- tion] [Environment First, Collaborative Development]
	A1.6 Methods for handling hazardous and non-hazardous waste, waste reduction targets, and the steps taken	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Environment First, Collaborative Development]

# HKEX ESG Indicators Index

lssue	Content	2024 Index
A2 Use of Resource	Policies on energy, water, and raw materials	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Energy Optimization for Cost Reduction and Efficiency Enhance- ment]
	A2.1 Direct and indirect energy consumption in total and intensity	Key Performance Indicators
	A2.2 Water consumption in total and intensity	Key Performance Indicators
	A2.3 Energy targets and the steps taken	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Energy Optimization for Cost Reduction and Efficiency Enhance- ment]
	A2.4 Any issues related to the availability of applicable water sources, water usage targets, and the steps taken	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Energy Optimization for Cost Reduction and Efficiency Enhance- ment]
	A2.5 Total packaging material and, if applicable, with reference to per unit produced.	Not applicable
A3 Environ- ment and	Environmental and natural resources policy	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Environment First, Collaborative Development][Energy Optimiza- tion for Cost Reduction and Efficiency Enhancement] [Enhancing Green Efforts, Safeguarding the Ecosystem]
Natural Resources	A3.1 Impacts of activities on the environment and natural resources and the actions taken to manage them.	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Energy Optimization for Cost Reduction and Efficiency Enhance- ment] [Enhancing Green Efforts, Safeguarding the Ecosystem]
A4 Climate	Policies for identifying and addressing climate-related issues	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Focusing on "Dual Carbon" Goals, Advancing Green Transforma- tion]
Change	A4.1 Climate matters significantly affecting the issuer and the corresponding actions taken	Navigating Low Carbon Initiatives for a Blue Sky and Clear Waters [Focusing on "Dual Carbon" Goals, Advancing Green Transforma- tion]
	Policies and relevant laws and regulations on compensa- tion and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-dis- crimination, and other benefits and welfare.	Shouldering Responsibilities Jointly Towards a Better Future [People-oriented Approach for Uniting Strengths]
B1 Employ- ment	B1.1 Total workforce by gender, employment type (full-time/part-time), age group and geographical region.	Shouldering Responsibilities Jointly Towards a Better Future [People-oriented Approach for Uniting Strengths] Key Performance Indicators
	B1.2 Employee turnover rate by gender, age group and geographical region	Key Performance Indicators
B2 Health and Safety	Policies and relevant laws and regulations for a safe work environment and ensuring employee occupational safety	Shouldering Responsibilities Jointly Towards a Better Future [People-oriented Approach for Uniting Strengths]
	B2.1 Number of work-related fatalities occurred in each of the past three years	Key Performance Indicators
	B2.2 Number of working days lost due to occupational injuries	Key Performance Indicators
	B2.3 Occupational health and safety measures, and how they are implemented and monitored	Shouldering Responsibilities Jointly Towards a Better Future [People-oriented Approach for Uniting Strengths]
B3 Develop- ment &	Employee knowledge and skills policy; training activities	Shouldering Responsibilities Jointly Towards a Better Future [People-oriented Approach for Uniting Strengths]
Training	B3.1 Percentage of employees trained by gender and employee category (e.g. senior management/middle management)	Key Performance Indicators

# HKEX ESG Indicators Index

Issue	Content	2024 Index
Development & Training	B3.2 Average training hours by gender and employee category	Key Performance Indicators
B4 Labor Rules	Policies on child labor and relevant laws and regulations	Shouldering Responsibilities Jointly Towards a Better Future [People-oriented Approach for Uniting Strengths]
	B4.1 measures to prevent child labor	Shouldering Responsibilities Jointly Towards a Better Future [People-oriented Approach for Uniting Strengths]
	B4.2 Steps taken to eliminate violations	Shouldering Responsibilities Jointly Towards a Better Future [People-oriented Approach for Uniting Strengths]
	Policies on managing environmental and social risks of the supply chain	Shouldering Responsibilities Jointly Towards a Better Future [Reinforcing the Supply Chain for Steady Progress]
	B5.1 Number of suppliers by region	Key Performance Indicators
B5 Supply Chain	B5.2 Supplier hiring system, corresponding number of suppliers, and how they are implemented and monitored	Shouldering Responsibilities Jointly Towards a Better Future [Reinforcing the Supply Chain for Steady Progress]
Manage- ment	B5.3 Systems used to identify environmental and social risks in the supply chain, and how they are implemented and monitored	Shouldering Responsibilities Jointly Towards a Better Future [Reinforcing the Supply Chain for Steady Progress]
	B5.4 Management system for the use of environmentally preferable products and services by suppliers, and how they are implemented and monitored.	Shouldering Responsibilities Jointly Towards a Better Future [Reinforcing the Supply Chain for Steady Progress]
	Policies and relevant laws and regulations related to the health and safety of products and services, advertising, labeling, and privacy	Shouldering Responsibilities Jointly Towards a Better Future [Quality First, Service Foremost]
	B6.1 Percentage of sold products recalled due to safety and health issues	Key Performance Indicators
B6 Product Liability	B6.2 Number of products and service related complaints received and how they are dealt with	Key Performance Indicators Shouldering Responsibilities Jointly Towards a Better Future [Quality First, Service Foremost]
	B6.3 Observing and protecting the intellectual property system	Shouldering Responsibilities Jointly Towards a Better Future [Technology-oriented and Innovation-driven Development] Key Performance Indicators
	B6.4 Quality assurance process and recall procedures	Not applicable
	B6.5 Consumer privacy policies, and how they are implemented and monitored	Shouldering Responsibilities Jointly Towards a Better Future [Technology-oriented and Innovation-driven Development]
	Policies and relevant laws and regulations to prevent bribery, extortion, fraud, and money laundering	Solidifying Foundations to Enhance Management Efficiency [Upholding Integrity and Serving with Clean Governance]
B7 Anti-cor- ruption	B7.1 Number of legal cases regarding corrupt practices and the outcomes of the cases	Key Performance Indicators
	B7.2 Preventive measures and whistle-blowing system, and how they are implemented and monitored	Solidifying Foundations to Enhance Management Efficiency [Upholding Integrity and Serving with Clean Governance]
	B7.3 Anti-corruption trainings	Solidifying Foundations to Enhance Management Efficiency [Upholding Integrity and Serving with Clean Governance]
	Policies that consider community interests in business activities	Shouldering Responsibilities Jointly Towards a Better Future [Livin Out Responsibility Through Everyday Actions]
B8 Commu- nities Investment	B8.1 Contributions to community investment (e.g., education, environment, labor, health, culture, sports)	Shouldering Responsibilities Jointly Towards a Better Future [Livin Out Responsibility Through Everyday Actions]
	B8.2 Resources used for activities (financial, time)	Shouldering Responsibilities Jointly Towards a Better Future [Livin Out Responsibility Through Everyday Actions]

# Appendix: Disclaimer

The information contained in this Report does not constitute any investment advice. Investors should not replace their independent judgment or make decisions solely based on such information. The Company does not assume any responsibility for losses that arise or may arise from the use of information in this Report. The information published by the Company is true and accurate. In the event of any inconsistency with statutory disclosure documents, the statutory disclosure documents shall prevail.

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