

2023 Corporate

Social Responsibility Report

China Southern Airlines Co., Ltd.

Report Preparation: Steering Committee of Social Responsibility of China Southern Air Holding Co., Ltd.

China Southern Headquarters Address: Address: No.68 Qixin Road, Baiyun District, Guangzhou

China Southern official website: www.csair.com

Contact: Chen Cheng

E-mail: chen_cheng@csair.com



Report publishing environment Paper: This report is printed on environmentally friendly paper. Ink: The printing ink adopts environmentally friendly soybean ink to reduce air pollution. 设计制作: 鹏图设计 2023 China Southern Airlines Co., Ltd. Corporate Social Responsibility Report

CONTENTS

- 02 Letter from the Chairman
- 04 Honors
- 06 ESG Performance
- 08 About Us
- 14 Statement of the Board of Directors
- 16 Analysis of Substantive Issues
- 17 Communication with Stakeholders
- 18 Theme Focus

SAFE FLIGHT Safe Journey

Development

GREEN FLIGHT Practicing Low-carbon Development

Affinity and Refinement Service

- 106 Outlook
- 108 List of Policies and Regulations
- 110 Performance Data
- 114 Index of Indicators
- 119 Report Verification
- 121 Feedback Form
- 122 About the Report

SHARED WARMTH **Building a Beautiful** Home Together











- 30 Improving corporate governance
- 35 Strengthening Party building
- 36 Operating in compliance with laws
- 41 Deepening reform and development
- 44 Strengthening safety management
- 48 Consolidating aviation safety
- 50 Ensuring information security
- 54 Care for passenger safety
- 58 Responding to climate change
- 65 Strengthening pollution control
- 68 Advocating green environmental protection
- 72 Service quality management
- 74 Ensuring flight punctuality
- 76 Optimizing the construction of an ecological circle
- 79 Providing exclusive services
- 83 Optimize customer experience
- 86 Facilitating employees' achievement of value
- 96 Dedicating to social responsibility
- 101 Working with Partners for Win-win Results



Letter from the Chairman

In 2023, under the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, China Southern Airlines upheld the guiding principles in the 20th CPC National Congress, and harmonized efforts concerning safe production and operations, as well as reform and development. We diligently fulfilled our economic, political, and social obligations as a central state-owned enterprise and actively exemplified the civil aviation commitment to benefiting the people.

The security situation remained stable

China Southern followed General Secretary Xi Jinping's important instructions on civil aviation safety, advanced the construction of seven major safety systems, and effectively managed risks associated with the rapid increase in flights. With an annual total of 2.842 million safe transportation flight hours and a cumulative total exceeding 30 million safe flight hours, the company was honored with the "Three-Star Flight Safety Diamond Award", maintaining its leading safety position in China's civil aviation industry.

The business response achieved good results

Domestic flights were completely reinstated to support economic and social advancement while international routes were progressively reopened. The annual aggregate transportation turnover, passenger traffic, and cargo/mail volume amounted to 29.79 billion ton-kilometers, 142 million passengers, and 1.583 million tons, respectively. China Southern drove the adjustment and optimization of its five major structures: fleet, market, human resources, industry, and assets and liabilities. Emphasizing the initiative of "strengthening weak links, enhancing quality, and pursuing excellence", we prioritized enhancing operational efficiency, conducting special activities for streamlined cost control, fostering the China Southern ecosystem, and swiftly enhancing operational performance and benefits.

The development momentum was constantly stimulated

We enhanced China Southern's concept for high-quality development, detailing six major actions under new circumstances. Positive progress was made in key strategies such as contributing to the development of Beijing as a transportation hub, enhancing market control in the Guangdong-Hong Kong-Macao Greater Bay Area (Greater Bay Area), and digital transformation. China Southern achieved Grade A in the three-year evaluation of stateowned enterprise reform, leading among the three major airlines. Additionally, two "double hundred enterprises"— Logistics and General Aviation companies—were chosen as benchmarks. We further intensified and enhanced the reform of state-owned enterprises in terms of functions, missions, and mechanisms from a new starting point, and accelerated the development of key strategic emerging industries that are closely linked to the civil aviation industry.

The service brand continued to improve

We consistently implemented initiatives to enhance flight punctuality, including a passenger-centric flight punctuality system. Our annual flight punctuality rate stood at 88.82%, surpassing the industry average by 1.02%. China Southern continued to propel the integration of humanized, digitalized, refined, personalized, and convenient services, elevating the service quality management system. We were granted notable accolades by streamlining the entire customer service chain and processes and executing a meal quality enhancement program, including the "Five Star Diamond Award for Airlines" from the World Brand Lab and CAPSE's prestigious "Best Airline Award" for six successive years.

The green development was accelerated

In alignment with China's carbon peaking and carbon neutrality goals, a *Carbon Peaking Action Plan of China Southern Air Holding Company* was formulated, with implementation of digital fuel-saving practices across operations, electronic waybills, on-demand meal services, and the Fly Green Passenger Carbon Offset Service. Over the year, the Fly Green on-demand meal service engaged more than 4,863,500 passengers. In 2023, we saved 175,100 tons of fuel and reduced 551,600 tons of carbon emissions. These efforts earned us the title of "Sustainable Brand of the Year" from the Sky Choice Travel Awards by China Civil Aviation magazine.

Efforts were made to help rural revitalization

We established a unique support model under a codevelopment framework agreement with Hotan in Xinjiang, and launched comprehensive programs to offer organizational, industrial, talent, educational, and consumer support. An aircraft livery-themed Xinjiang Hotan Rural Revitalization was introduced, and an Air Support Pathway was developed across the board. In 2023, we invested a total of RMB 74.6987 million in recipient counties for pairedup assistance, providing training to 3,061 individuals and attracting investment totaling RMB 1.828 billion. Our initiatives also led to the establishment of 28 enterprises and projects in those counties, creating over 1,200 new jobs.

2024 is a key year to achieve the goals and tasks of the 14th Five-Year Plan, as well as for China Southern to fully recover from the impact of COVID-19 and pursue highquality development. China Southern will adhere to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, fully implement the guiding principles of the 20th CPC National Congress, and steadfastly advance highquality development. With unwavering confidence, shared objectives, and pioneering spirit, we will take concrete steps while striving to become a world-class airline, making greater contribution to advancing national rejuvenation through the Chinese path to modernization.

占次伦

Ma Xulun Chairman China Southern Airlines Co., Ltd.

Honors

AAA-level Enterprise of Market Quality Credit by China Association for Quality

China Association for Quality

-

124

Five Star Diamond Award for Airlines in 2023 ───★ ───

World Brand Lab

"Cargo Airline of the Year",

"Sustainable Contribution

Brand of the Year", and "Corporate Social

Responsibility Brand

of the Year" of the Sky

Choice Travel Awards

- 🖈 -

CAAC Inflight Magazine

Three-Star Flight Safety Diamond Award

- ★ --

Civil Aviation Administration of China

Top 1 in the 2023 "Safe Civil Aviation" Assessment (Central and Southern China)

> The Office of the Capital Spiritual Civilization Construction Committee

* -

Being awarded an A-rating in information disclosure of the listed company for the 10th consecutive year

Shanghai Stock Exchange

Ranking 13th among "Best Airlines in the World" by Skytrax "Best Airline in China"

China Reform ESG Ratings AA-rating

+ ----

China Reform Consulting under China Reform Holdings Corporation Ltd.

der Idings td. Ranking 6th among the "World's 50 Most Valuable Airlines" in 2023

*

Brand

Finance

"Corporate Governance Best Practice Case" and "Best Practice Case of Boards of Directors of isted Companies" in 2023 China Association for Public Companies

> "Top 50 Central State-owned Enterprises in the ESG Golden Bull Awards" and "Top 100 Enterprises in the ESG Golden Bull Awards"

> > China Securities Journal, and China Reform Consulting under China Reform Holdings Corporation Ltd.

-*****-

Award Name

Ranking 12th in the "20 Enterprises in Brand Bu

China Southern's "Fligh Playback" won the thirc of the First State-owne Innovation Professional

China Southern's "Easy second prize in the pro First State-owned Ente Professional Competiti

Three collectives and o National May Day Labo

"China Southern App Se selected as the Exceller and Information Techno

> The China Southern De selected as the "Three Innovation in 2023"

One collective and two "Two Red and Two Exce League Committee and Outstanding Communis Excellent Communist Yo

China Southern's two s Civil Aviation Model We Innovation Studios

"Best Airline Awards 20 Pioneer Award" by CAP

"China Southern's Cabi Action in Spring Festiv Excellence Award of th Improvement Practice

Outstanding Achieve Building in 2023

Trusted Cloud 2022-20

The "Exploration and P Construction of China S Case Award for Shared

Being awarded a Speci Emergency Rescue Con

China Southern Airlines Platform won the 2022 Transformation for Civi

"Top Team Award" in th National Network and Notification Mechanisn Cybersecurity Competi

China Digital Breakthr

2022 Excellent Case of friendly and Barrier-free

Capital Spiritual Civiliza

"ESG Model Enterprise 2023

The "Green Flight" On-China Southern was aw

Golden Brand in 2023"

	Awarded by	
22 Top 30 Central State-owned iilding Capability"	State-owned Assets Supervision and Administration Commission of the State Council	
t Data Analysis and Simulation I prize in the user service category d Enterprise Digital Scenario Competition	State-owned Assets Supervision and Administration Commission of the State Council	
Luggage Pass" project won the duction and operation section in the rprise Digital Scenario Innovation on	State-owned Assets Supervision and Administration Commission of the State Council	
ne individual were honored with the or Award	All China Federation of Trade Unions	
ervice Experience Upgrade" was nt Case by the Ministry of Industry plogy	Ministry of Industry and Information Technology of the People's Republic of China	
velopment History Gallery was Cases of Enterprise Archive Work	National Archives Administration of China	
individuals won the National Illent (Excellent Red Flag Youth I Red Flag Youth League Branch, st Youth League Member, and puth League Cadre)" Commendation	Central Committee of the Communist Youth League	
tudios were awarded as the National orker and Craftsman Talent's	Civil Aviation Trade Union of China, CAAC	
22" and "Civil Aviation Innovation SE	CAPSE	
n Service Quality Improvement al Travel Rush" project won the e CAPSE Civil Aviation Quality Competition	CAPSE	
ents of Transportation Brand	China Association of Communication Enterprise Management	
23 Annual User Best Practice Award	China Academy of Information and Communications Technology and China Communications Standards Association	
ractice of Smart Sharing Southern" case won the Excellent Service	Financial Sharing Integration Professional Committee of Enterprise Financial Management Association of China	
al Prize in the National Red Cross itest	The Red Cross Society of China and the Ministry of Emergency Management	
e-Home Smart Collaborative Office -2023 Benchmark Case of Digital Aviation Enterprises	Civil Aviation Information Technology Application Branch of China Computer Users Association	
e Transportation Industry of the 5th nformation Security Information n Central State-owned Enterprise tion	Co-hosted by the Secretariat of Central State-owned Enterprise Network and Information Security Information Notification Mechanism, and the Critical Information Infrastructure Protection Center of the Ministry of Public Security	
ugh Practice Award	China Corporate Governance Experts 50+ Forum	
Internet Application in Elderly- e Transformation	China Academy of Information and Communications Technology	
tion Construction Award	Office of Capital Spiritual Civilization Construction Committee	
Award for Listed Companies" in	Times Media Group	
demand Meal Service Project of varded as a 2023 Responsibility Case	Southern Weekly	

T

ESG Performance





Governance

Being selected into the "Best Practice of Corporate Governance in 2023" and "Best Practice of Board of Directors" by the China Association for Public

Winning theA-rating ininformationdisclosure ofIShanghai StockAExchange for 10consecutive years

Winning the 2022 Best Small and Medium-sized Investor Interaction Award of "Panoramic Investor Relations Winning the 5th New Fortune "Best Listed Company" Winning the "Excellent Investor Relations Management Listed Company of the Golden Bauhinia Award of China Securities" Winning the 2022 Golden Information Disclosure Award of China Securities ESG Performance 07



million m³ of exhaust gas were treated during aircraft maintenance Water consumption intensity reached



e incentive pay age rate



ion benefit coverage ng pensions and ent benefits)



CAPSE's prestigious "Best Airline Award" for six successive years

Winning the "Three-Star Flight Safety Diamond Award" of CAAC

Winning the "Top 50 Central Stateowned Enterprises in the ESG Golden Bull Awards" and "Top 100 Enterprises in the ESG Golden Bull Awards" Winning the China Reform ESG Ratings AA-rating

About Us

Company Profile

Headquartered in Guangzhou, Guangdong Province, China Southern Airlines Co., Ltd. (short for "China Southern" or "the Company") is directly affiliated to China Southern Air Holding Company Ltd. and specializes in air transportation services. The company logo features a blue vertical tail fin with a brilliant red kapok flower on it. With the corporate mission of "Bringing Better Flights to More", China Southern adheres to the core values of "Safety First and Customer-Orientation", vigorously promotes the spirit of "Diligence, Pragmatism, Inclusiveness, and Innovativeness", and strives to become a world-leading air transportation service company.

China Southern directly or indirectly controls nine airlines engaged in passenger and cargo transportation services, namely Xiamen Airlines Co., Ltd., Chongqing Airlines Co., Ltd., Henan Airlines Co., Ltd., Guizhou Airlines Co., Ltd., Zhuhai Airlines Co., Ltd., Shantou Airlines Co., Ltd., Hebei Airlines Co., Ltd., Jiangxi Airlines Co., Ltd., and China Southern Airlines Cargo Logistics (Guangzhou) Co., Ltd., and has a stake in Sichuan Airlines Co., Ltd. It has 18 branches, such as the Xinjiang Branch, the Northern Branch, the Beijing Branch, the Shenzhen Branch, and the Shanghai Branch, and two bases, which are located in Nanyang and Foshan respectively. It also operates 21 domestic sales offices in cities such as Hangzhou, Nanjing, and Xining, and 52 overseas sales offices in Los Angeles, New York, London, and Paris, among other cities.

China Southern stands out as the premier transportation airline in China, boasting the largest fleet, a highly developed route network, and the highest annual passenger volume. We hold the top spot among domestic airlines across various metrics including the number of routes, flight frequency, and market share. Notably, we have maintained our lead in passenger traffic impressively for 44 consecutive years, surpassing all other domestic carriers. China Southern enjoys the highest safety rating and maintains the best safety record among domestic airlines, taking the lead in safety management in the world. In 2023, it became the first in the industry to receive the "Three-Star Flight Safety Diamond Award" granted by CAAC.

We have contributed a lot to the development of Guangzhou and Beijing as two comprehensive international air transportation hubs. In Guangzhou, China Southern has been promoting the "Canton Route" to help the city grow into the major gateway that connects the Chinese mainland with Oceania and Southeast Asia and serves the Greater Bay Area and the Belt and Road Initiative. Meanwhile, as the largest hub carrier in Beijing Daxing International Airport, it operates the hangar with the largest span in Asia, as well as Asia's largest operation control center and production base for in-flight food.

Fleet size Total 908 Passenger aircraft 891 Cargo aircraft 17

Number of operating routes 1523 Number of new domestic routes

130

Number of new international and regional routes

14 Passenger traffic

142 million trips

Cargo/mail volume 1.583 million tons Flight punctuality rate 88.82% EMB190 series

.....

B777 series

B777 series **15**

A SOUTHERN SER 75 M CO P

About Us | 09









Passenger aircraft
 Cargo aircraft

Cultural brand

In 2023, we renewed our cultural concept system and brand concept system, being committed to leading the company in high-guality development and becoming a world-class enterprise system of China Southern in the new era, is an important component of our development strategy and modern corporate management system. It serves as the ideological foundation and spiritual driving force for China Southern to achieve high-quality development and strive to become a world-class enterprise. It is also a set of action guidelines and work principles created, upheld, and practiced collectively by the staff of China Southern. The China Southern brand concept system serves as a critical component of the brand management strategy. It stands as a central proclamation of China Southern's brand identity, acting as a pioneering concept that guides the cohesive development of brand construction alongside production and operational management.

"Sunshine China Southern" Cultural System for the New Era



Enterprise Vision Becoming a World-class Enterprise

Core Values Safety First and Customer-Orientation

China Southern Spirit — Diligence, Pragmatism, Inclusiveness, and Innovativeness

> Safety Philosophy Life First, Safety First, Compliance with Regulations and Obligations, Commitment to Rigor and Integrity

Business Concept Creating Value for

Service Philosophy Refinement

China Southern **Brand Concept** System

Energetic

Personality

Brand





Development strategy

China Southern adheres to a vision centered on high quality and the pursuit of becoming a world-class enterprise. China Southern Airlines has outlined the highguality development plan by upholding five key areas of progress, implementing five strategic approaches, driving six initiatives, and effecting six transformations. This strategic roadmap aims to chart a substantive and targeted path towards achieving high-quality development.

China Southern in Daxing

The year 2023 marks the fourth anniversary of China Southern's operation in the Beijing Daxing International Airport. China Southern continued to deepen brand building of promoting its operation in the Beijing Daxing International Airport. With a focus on "accelerating the construction of the Beijing hub", it played a role as an entity in guaranteeing this construction. It took strategic decoding tasks as the main line to promote the improvement of safety and service quality and deepen the reform of management mechanism, accelerating the high-quality construction of the Beijing hub.

Five developments shared cooperativ developme Five strategies • brand hub innovationlean management ecosystem network driven control strategies ring out th cial action of further promotin accelerating th fully promoting digital Six major the action of the adjustmen construction of weak links intensifying and enhancing the Beijing Daxing Hub and ontimization digital, refined actions transformation hancing quality of five major personalized, and and pursuing reform structures shifting the focus from speed to from planned management and quality control to market operation from comprehensive market Six major from traditional business models expansion to key breakthroughs to digital and ecological models changes from relatively single industries to from extensive management to highly relevant diversified industries, refined management





China Southern deepened the chain coordination of operation services from the perspective of customers and took service satisfaction as a parameter for adjusting flight schedules, aiming to improve the stability of flight schedules. It also accelerated the construction of transfer hubs to maintain a 100% completion rate of swift transfer. It carried out special improvement for flight delays, advancing services for high-value customers, and implemented the meal improvement plan in the Beijing hub, raising the service standards of "China Southern Air Shuttle". The aim was to pool the joint efforts to improve the quality of operation services, enhancing the brand building of "choosing China Southern to fly to Beijing" in the Beijing hub.

Ways for carrying out diversified business services were explored

China Southern added more than 14 businesses such as transit services, special vehicles, and cargo terminal subcontracting at the Beijing Daxing International Airport. It also served as the agent for 10 foreign airlines such as American Airlines, Saudi Arabian Airlines, and Aeroflot-Russian Airlines in ground support business, with the highest share in ground support agency services at the airport. Furthermore, it formulated a plan for the organization of customer managers, established a list of all-staff marketing products, and carried out joint visits to group customers. With an innovative design of the model of "visit guide + business exchange", it undertook paid exchange activities from customers such as the Protocol Department of the Ministry of Foreign Affairs and Beijing Jiaotong University and carried out 11 study tour activities during the summer vacation, marking a significant milestone in the construction of its customer management system.

China Southern assets in the Beijing Daxing International Airport were revitalized

0

quality construction.



The safety management was strengthened

China Southern focused on improving the safety governance system, enhancing safety governance capacity, and addressing prominent safety concerns, aiming to build an expansive security framework while maintaining a consistently stable safety environment within the Beijing hub.

The quality of operation services was improved



Statement of the Board of Directors

The Board of Directors is the premier institution responsible for environmental, social, and governance (ESG) matters. It is responsible for coordinating, leading, supervising, and making decisions on sustainable development management and ESG-related major issues of the company. Additionally, it also reviews the progress of ESG goals. The Board of Directors authorized the Social Responsibility Steering Committee to formulate and implement ESG-related matters. It also added ESG-related responsibilities in the Strategy and Investment Committee of the Board of Directors, clarifying the management responsibilities for ESG work. Furthermore, it also collaborated in studying the operation rules of the ESG Committee and formulated a list of decisions for special committees of the two-level Board of Directors. The aim was to further enhance the closed-loop decision-making management of the Board of Directors.

The Board of Directors listens to the Committee's reports on important ESG-related matters and work progress through regular communication and meetings, to understand the current situation of ESG management, identify ESG management risks, ensure the integration of sustainable development concepts with the Company's operations, continuously promote the achievement of ESG goals, and make comprehensive planning for future ESG work. During the reporting period, the Board of Directors supervised and made decisions on important ESG-related matters and participated in assessing the importance and priority of ESG issues.

This report details the practical progress and achievements of China Southern in ESG management, which were deliberated and approved by the Board of Directors in March 2024.





Category	Objective	Progress
Vehicle management	By 2025, the electrification ratio of newly introduced vehicles and equipment inside and outside the site will reach 100%.	In progress
	By 2030, 100% of the vehicles inside the site will be electrified; by 2035, vehicles will be fully electrified.	In progress
Non-hazardous waste management	From January 1, 2023, the supply of disposable non-degradable plastic straws, mixing rods, meals/cups, and packaging bags on international passenger flights has been terminated.	Completed
	By the end of 2024, non-degradable plastic tapes, disposable non-degradable plastic rain clothes, wrapping films, and other goods packaging supplies will be significantly reduced.	In progress

Statement of the Board of Directors | 15

Analysis of Substantive Issues

Attaching great importance to the concerns and expectations of stakeholders, China Southern identified and selected 20 substantive issues in key areas such as safety, environment, service, employees, society and economy based on internal and external development environments and corporate development strategies, combined with stakeholder surveys and communication, and made targeted responses in the report.

Substantive Issues of China Southern

1. Ensuring safe flight	6. Sustainable use of resources	11. Protection of passengers' rights and interests	16. Rural revitalization
2. Passenger health and safety	7. Improving of flight punctuality rate	12. Employee education and training	17. Anti-corruption
3. Occupational health and safety of employees	8. Data Security and Privacy Protection	13. Diversity and equality of opportunity	18. Supplier management
4. Addressing climate change	9. Convenient business handling	14. Employee compensation and welfare	19. Innovative development
5. Waste disposal	10. Improvement of passenger experience	15. Overseas responsibility fulfillment practice	20. Legal compliance

China Southern substantive issues importance analysis matrix



Communication with Stakeholders

China Southern effectively protected the rights to know, participate and supervise of all stakeholders, established regular communication channels and methods for stakeholders, and enhanced interactions and mutual trust with them, working together to promote sustainable development.

Stakeholder	Expectations and Demands	Communication Channels and Methods
Investor	 Participate in corporate governance Protect shareholders' rights and interests Control risks Return on investment Disclosure of important information 	 Board of Directors General Meeting of Shareholders Board of Supervisors Periodic disclosure of reports and interim announcements Reverse roadshow
Government	 Abide by the law and pay taxes according to the law Implement national strategies and deepen reform Maintain and increase the value of state-owned assets Safe flight Promote employment Improve people's livelihood 	 Daily report and special report Investigation and visit Project cooperation and working meetings Statistical statement CSR Report
Environment	 Energy conservation and emission reduction, tackling climate change Protect the ecology and reduce pollution Reduce noise 	 Carry out green flight to save energy and reduce emissions Promote ground environmental protection Apply noise reduction measures Public disclosure of environmental information
Customer	 Provide safe and high-quality services Respond quickly to customer comments or complaints Protect customer privacy 	 Information disclosure Safety management system Customer relationship management, online service
Employee	 Safeguard employees' rights and interests Establish communication channels Employee training and development Continue to improve employee compensation and benefits Employee care 	 Employees' representative meeting Employee training platform Reform of salary system Integrated management of employees Employee activities
Supplier	 Honest operation Common development Open, fair and impartial procurement 	 Transparent procurement Training and technical exchange meeting Daily communication
Financial institution	Enhance solvencyReduce business risks	Strengthen compliance managementImprove the operation level
Community	 Contribute to rural revitalization Carry out voluntary service Community communication and exchange 	 Carry out rural revitalization Charity activities Information disclosure Public communication
Medium	Establish information distribution channelsTimely deliver the voice of China Southern	Press conferenceJournalist symposium
Peer	 Fair competition and friendly cooperation Information communication and exchange Healthy and harmonious industry development 	 Strengthen cooperation Exchange and learning Forum meeting



NEVER STOPPING GIVING BACK LOVE Supporting rural revitalization in an all-round way

Comprehensively promoting rural revitalization is an important task for building China into a powerful agricultural country in the new era. China Southern Group kept its original aspiration and mission in mind, fulfilled its social responsibility as a central enterprise, actively responded to the call of the national rural revitalization strategy, and gave full play to its advantages to create a characteristic mode of aviation assistance. We polished the brand of assistance, told stories about assistance well, continued to build the "path of air assistance", wholeheartedly and diligently promoted rural revitalization in an all-round way, and improved people's livelihood and well-being.

Deepening the characteristic assistance mode

hina Southern Group gave full play to its unique advantages in aviation, continuously hanced the optimization of airline networks in assisted areas, and formulated the hina Southern Group Targeted Assistance Work Plan for 2023". We actively carried it cooperative research, implemented five major revitalization requirements, and insolidated the "path of air assistance".

Conducting cooperative research **•**

The leaders of China Southern Group personally took the lead in deploying and promoting rural evitalization together with officials at all levels. Combined with the requirements of thematic education, the targeted assistance work was regarded as one of the key topics of the research.



Leaders and team members made a

to the designated assistance counties of Pishan and Movu in Xiniiang at the bureau level and below participated in research activities

and grouplevel meetings were convened to discuss work related to targeted assistance

Strengthening all-round assistance



Organizational assistance was conducted outstanding villagers, focusing on leaders of rural revitalization as a breakthrough. Efforts were made to strengthen "one-to-one assistance", actively organize village officials to participate in daily morning readings of the standard spoken and written Chinese language, and hold four sessions of night courses on the standard spoken and written Chinese language each week. In four villages of Pixina Township and Bashilangan Township, China Southern established demonstration village Mandarin classrooms and reconstructed stages of village committees, thereby successfully creating "Homes for Party Members" and ethnic unity cultural activity sites and providing villagers with their cultural stations.



Industry support was provided China Southern continued to intensify its efforts in attracting investment. Assigned management bersonnel from designated counties leveraged the corporate and personal advantages to broaden nvestment attraction strategies, reaching out to newly attracted enterprises, facilitating Guangdong Rongchang Textile Industrial Co., Ltd., Xinjiang Hetiantang Biological Industrial Co., Ltd. and other enterprises to invest and build factories in Pishan County. Such practices significantly improved the ocal employment rate and increased public income and local fiscal and tax revenue, making important contributions to promoting high-quality economic and social development in Pishan County.

Case China Southern Supports Creation of New Signature Featured Agricultural Product

In recent years, the village-based work team of China Southern has actively adjusted the agricultural industrial structure according to local conditions. Emphasizing targeted assistance, the work team developed the "Kapok Red" sweet potato planting project into a new business card for the agricultural industry of Pixina Township. The "Kapok Red" sweet potato, a variety known as Pushu 32, is bright in color, well-shaped, and has lustrous red flesh. As a selenium-rich product, it contains low sugar and high crude fiber, green and pollution-free, thus being deeply favored by people. This variety is more storage-resistant and tastes sweeter after storing. It is of moderate softness and stickiness, without fibers or strings, and can be described as the star product among sweet potatoes.

The work team actively explored the "Kapok Red" sweet potato planting project, worked meticulously and transformed saline-alkali land into fertile land for growing sweet potatoes. Additionally, the work team gradually accumulated field management experience. For the first time, they introduced the technology of drip irrigation beneath the plastic film, greatly improving water-use efficiency and transitioning from extensive flood irrigation to green and water-saving agriculture. Nutrients and herbicides were delivered directly through drip irrigation tapes and agricultural drones, significantly enhancing the growth of sweet potato seedlings and exploring new methods for scientific cultivation and water-saving and green agriculture. In 2023, after meticulous cultivation, irrigation, and care by the work team and villagers, the total output of "Kapok Red" sweet potatoes reached 240 tons. This led to employment for nearly 60 local villagers, increasing the income of the village collective by nearly RMB 1 million. While achieving an increase in food production and income, it also boosted the double growth of the income of the village collective and villagers of the three villages targeted for assistance by China Southern, providing a solid foundation and guarantee for the realization of rural revitalization.







Educational assistance

China Southern completed the renovation project for the teaching facilities and equipment and campus environment of China Southern Pearl Second Primary voluntary actions such as donating books to the "Dream Building Book Houses" and the "Aviation Knowledge Enters Campuses" program to continuously enrich the spiritual and cultural lives of students in targeted counties.





Talent assistance was facilitated

rural revitalization officials in collaboration with Zhejiang University. It organized three batches of "Revitalization" themed flights, inviting 100 grassroots officials involved in rural revitalization from the designated counties and 40 members of the China Southern village-based work team to participate in specialized rural revitalization training at Zhejiang University in stages; implemented the China Southern Pearl Rural Revitalization Leadership Quality Improvement Project and organized study tours for outstanding villagers. Additionally, it hosted training classes for grassroots officials from the civil administration and disabled persons' federation and the disabled in Pishan County.

.....

Students of the 2023 China Southern rural revita crew members on the "Revitalization" themed flig

Case "Sunshine Road" Designated County Villagers Study Tour Program

中国南方航空

In 2023, China Southern innovatively carried out three sessions of the "Sunshine Road" Designated County Villagers Study Tour Program, organizing 100 villager representatives from the designated counties to visit Guangzhou for a study tour, where they were led to listen to successful experiences, witness development changes, and learn about advanced practices. The aim was to cultivate a group of leaders capable of strengthening villages and enriching villagers in the new era, contributing to the "nurturing Xinjiang with cultures" initiative.



▲ Group Photo of "Sunshine Road" Designated County Villagers Study Tour Program



through consumption

China Southern actively mobilized all staff to participate in special activities such as the "Action of Assisting through Consumption to Welcome Spring of Central State-owned Enterprises" and "Agricultural Revitalization Week". China suppliers in targeted counties to be listed on the central state-owned enterprises' consumption-based assistance on the GDNYMALL.COM e-commerce platform, further



A second

and a REFERE



RMB 15.7264 million for free assistance

RMB 58.9723 million for paid assistance



including 213 grassroots officials

205 eaders in rural revitalization.



In 2023

introduced various assistance funds of RMB 30.376 million

We achieved a total of RMB

in consumption-based assistance,

with direct purchases amounting to RMB

84 million

and assistance in sales totaling RMB

26.08

3.24 million

We attracted a total

investment amount of RMB

billion as well as

production of

enterprises and projects in the targeted counties

28

the settlement and

Creating featured brands of assistance

Enhancing the brand of "China Southern Pearl Education"

China Southern innovatively implemented aviation-themed cultural exchange activities in targeted counties and continuously supported the improvement of conditions in an all-around way in its "Pearl" series schools. China Southern emphasized designing and investing in cultural and educational assistance programs, providing multifaceted help in nurturing Xinjiang with cultures.

nnovating the brand of "China Southern Pearl Training"

China Southern expanded the coverage of training for grassroots officials in targeted counties by holding featured and practical special training sessions in each county and township and continued to strengthen the organization and implementation of research & study and visit & study groups.

brand of "China Southern Assistance Voluntary Service"

China Southern continued to mobilize young volunteers at assistance sites to carry out teaching support activities such as "Mumian Classroom" and "Pairing Assistance", actively participating in work such as rural ecological environment improvement and grassroots officials' psychological group counseling.

roving the brand of ina Southern Pearl **Demonstration Village**"

China Southern explored and summarized the typical experience of China Southern Pearl Demonstration Village construction, deepening the implementation and effects of demonstration village projects, and creating several influential "China Southern Pearl Demonstration Villages".

with RMB 1.463 billion of funds already in place. We assisted in

the establishment of 12

workshops of assistance creating over

new job positions

Effectively implementing featured assistance publicity

Expanding external publicity

Revitalization" colored drawing-themed aircraft and developed the "Sunshine Road—Publicity Implementation Plan for the 10th Anniversary and practice in poverty alleviation and rural revitalization from multiple perspectives. The related reports were repeatedly reprinted by mainstream media, leading to a continuous expansion of China Southern's brand influence.

FOR



Strengthening internal publicity

China Southern carried out the "Sunshine Road—10th Anniversary of China Southern's In-village Assistance internal and external publicity channels and sustained, and distinctive way. China Southern's branches and subsidiaries. This aimed to strengthen the work exchange between China Southern's various assistance sites, mutually promote the formation of more highlights and features, and build up greater internal synergy.

Case "Xinjiang Hotan Rural Revitalization" Colored Drawing-themed Aircraft Created



On July 3, 2023, the "Xinjiang Hotan Rural Revitalization"-China Southern CZ6817 flight successfully made its inaugural journey. Serving as a significant testament to China Southern's 20-year assistance efforts in Hotan, Xinjiang, the aircraft displayed a joyous scene of celebrating harvests and seeking further development through colorful paintings on its fuselage. The front section of the fuselage showed high mountains, deserts, rivers, poplar forests, camels, and ethnic dance figures, reflecting the distinctive charm of western China. The tail section of the aircraft was painted with Hotan's featured products, including red dates, thin-shelled walnuts, grapes, muskmelons, and pomegranates. Near the wing position, a group of students was depicted holding a flag-raising ceremony, with newly built school buildings standing by the sports ground, showcasing China Southern's contribution to educational assistance. The aircraft not only exhibited China Southern's achievements in poverty alleviation and rural revitalization in Hotan but also served as an important avenue to enhance Hotan's visibility.

图前方航空 Construction 空前式用 图

BBBBBBBB TOLLIS SALES STATESTICISTICS

▼ "Xinjiang Hotan Rural Revitalization" Aircraft



CONTINUOUS COORDINATED DEVELOPMENT Promoting high-quality development in multiple fields

China Southern focused on leveraging its air transportation resource advantages to support national strategies,

Serving the implementation of major regional strategies

constructin the Beijing Daxing Hul with high

the Beijing Daxing Hub, continued to excel in domestic and international network planning and layout, and swiftly formed the flight operational temporal system of "Four Times of Entry and Four Times of Departure". We achieved a domestically leading level in the ratio and efficiency of domestic transfer as well as domestic-international two-way transfer. China Southern fully leveraged Daxing's efficiency in domestic and international trunk line combined transportation to build a land-air combined transportation sector and an influential air-air combined transportation network. By seizing opportunities from newly opened international long routes, adopting a combination of long and short routes, and complementing well- and poorly-performing routes, we integrated various combined transportation types including domesticto-international, international-to-domestic, and international-to-international transfers, while creating an aviation logistics transfer hub combining passengers and freight services. Meanwhile, China Southern effectively conducted operations for medium-to-high-value clients, enriched Daxing's product system, optimized the end-to-end travel experience for passengers, and strengthened Daxing's travel brand creation and publicity.

China Southern accelerated the construction of

Creating a fou hour aviatio

-12-

China Southern promoted "network integration, market integration, product integration, and service integration" in the Guangdong-Hong Kong-Macao Greater Bay Area, supported the development of the Greater Bay Area and the construction of a Pilot Demonstration Area of Socialism with Chinese Characteristics in Shenzhen, built a hub linking Guangzhou and Shenzhen, and established a four-hour aviation transportation circle connecting the Greater Bay Area with major cities in China.

Building high-frequency routes

China Southern developed highfrequency routes in the trunk line market, maintaining a schedule of at least eight flights per day between Guangzhou and over ten major cities such as Beijing, Shanghai, Hangzhou, Chengdu, Chongqing, and Wuhan, fully meeting the demands of both public and business travelers.

continuously enriching the types of combined transportation products, enhancing capabilities in jointly developing outside world, and continuously accelerating the construction of a world-class air transportation enterprise.

Tapping into potential markets

China Southern utilized incremental resources to actively explore potential markets, opening new routes from Guangzhou to destinations such as Longyan, Zhoushan, Chongqing Xiannvshan Airport, and Jishou, aiming to provide passengers with a wider range of travel options.

Promoting the comprehensive revitalization of Northeast China

We deepened multi-sector cooperation based on local resources to comprehensively serve the country's regional development strategy of rejuvenating northeast China in an-round way. Centering around areas such as aviation transportation, logistics industry, base construction, air tours, aviationrelated industries, and other business, we engaged in deep collaboration with the People's Government of Liaoning Province, to improve and enhance the layout and service level of the aviation transportation industry in the province and promote the high-quality development of the province's aviation industry and China Southern Group, thereby contributing to advancing the comprehensive revitalization of northeast China.

Advancing the development of the Belt and Road Initiative

Accelerating the construction of **>** the Air Silk Road

Along the Belt and Road, China Southern focused on the development of hubs. We endeavored to establish the Guangzhou hub as an influential international cooperation Central and West Asia, the Middle East, and Africa, serving a total of more than 60 million

In 2023, China Southern accelerated the resumption of flights to the "Belt and Road"

Joint Construction, Win-win Cooperation

Important achievement of Belt and Road Cooperation

Case Opening of "Air Silk Road" Passenger Routes

On December 21, 2023, China Southern officially opened the Guangzhou-Zhengzhou-Luxembourg passenger route. This route represented not only the first direct route for passengers between China and Luxembourg but also the second intercontinental route opened by China Southern in Zhengzhou following the Zhengzhou-London route.

This air route further enhanced connectivity between China's Guangdong-Hong Kong-Macao Greater Bay Area and Henan, a province with strong economic and agricultural strength, a large population, and burgeoning emerging industries in the Central Plains, and the countries involved in the Belt and Road Initiative. It served as a critical air corridor facilitating economic, trade, and cultural exchanges between China and Luxembourg, and played a positive role in promoting regional economic development.

Striving to establish an aviation logistics network

Road centered around Urumgi, connecting Central and West Asia, Central and Eastern

Case Launch of the "Silk Road Travel Map" Themed Flights to Showcase Highlights of the Belt and Road Initiative



On November 11, 2023, China Southern introduced the first "Silk Road Travel Map" themed flight, departing from Urumqi and arriving in Islamabad. Two days later, the second "Silk Road Travel Map" themed flight was launched. These flights featured an array of engaging activities, such as lively historical presentations, interactive knowledge quizzes, and heartwarming Silk Road story sharing, showcasing the fruitful achievements of the Belt and Road Initiative over the past 10 years and the local customs of Belt and Road countries.

This year marks the 10th anniversary of the Belt and Road Initiative. Over the past decade. China Southern has diligently worked to establish an air corridor along the "Belt

- Zhang Tingting, a flight p



01

FORGING AHEAD Seeking High-quality Development

China Southern continued to improve corporate governance, strengthen the Party's leadership and Party building, adhere to legal and compliant operations, and bolster risk management efforts. We upheld the bottom line of integrity, promoted the execution of key reform tasks, and expedited the transformation into a world-class enterprise.

Responding to the UN 2030 Sustainable Development Goals:







Improving corporate governance

We diligently enforced the relevant requirements of the CPC Central Committee, State-owned Assets Supervision and Administration Commission of the State Council, China Securities Regulatory Commission, and China Southern Group on strengthening the development of the Board of Directors. increasing the proportion of direct financing, and enhancing the quality of listed companies under central state-owned enterprises. We made continuous efforts to refine the governance structure and decision-making mechanism, promote the institutionalization, standardization, and normalization of the work of the Board of Directors, maintain sound investor relation management, and establish a robust foundation for our ongoing steady operations.

Corporate governance structure

The Board of Directors established a "4+1+4" institutional system. Respectively, "4" refers to the rules of procedure for the meetings of the Party Leadership Group, the Board of Directors, the Chairman's Office, and the General Manager's Office; "1" refers to the management measures authorized by the Board of Directors; and "4" refers to the decision-making and preliminary research of the Party Leadership Group, the decision-making of the Board of Directors, and the list of rights and responsibilities of the Chairman, General Manager, and various governance subjects authorized by the Board of Directors. The institutional system clarifies the boundaries of rights and responsibilities of governance subjects such as the General Meeting of Shareholders, the Board of Directors, and the Management. In addition, it effectively guarantees the standardized functioning of the Board of Directors, and ensures clear rights and responsibilities, effective checks and balances. and coordinated operations of the corporate governance system.





Board of Directors (including 3 executive directors and 4 independent non-executive directors)

Strategy and Investment Committee

The main responsibility of the Strategy and Investment Committee is to study the Company's long-term development strategy and major investment decisions and make recommendations.

Audit & Risk Management

The main responsibilities of the Audit and Risk Committee include: • Propose to hire or replace the external audit organization; Supervise China Southern's internal audit system and its implementation; • Be responsible for the communication between internal audit and external audit; • Review China Southern's

financial information and its disclosure:

• Review China Southern's internal control and risk management system.

Management



and procedures of directors and senior managers and make recommendations; Conduct extensive research for qualified directors and senior managers;

includes:

 Review and make suggestions on candidates for directors and senior managers.

of the Remuneration and **Evaluation Committee** include: Study the evaluation

evaluation, and make recommendations; • Study and review the

plans of directors and senior managers.

Meetings held throughout the year

5

general meetings of shareholders

10 meetings of

the Board of Directors

8

meetings of the Board of Supervisors



meetings of the Strategy and Investment Committee

meetings of the Audit and Risk Management Committee



meetings of the Nomination Committee

9

meetings of the Remuneration and Appraisal Committee



meetings of the Aviation Safety Committee

Remuneration and Assessment Committee

Board of Supervisors

The main responsibilities

criteria of directors and senior managers, conduct remuneration policies and

Aviation Safety

The main responsibilities of the Aviation Safety Committee include: • Supervise China Southern's aviation safety management; • Study, review, propose suggestions, and supervise the implementation of China Southern's aviation safety work plan and major issues related to safety work.

Development of the Board of Directors

China Southern actively championed the diversification of the Board of Directors, placing a particular emphasis on endorsing outstanding female directors. We implemented a director skill matrix to evaluate independent director candidates, ensuring a holistic nomination process that evaluates the candidates in terms of their contribution to board diversity, skills complementarity with current directors, and relevance to our business development, etc. By doing so, we aimed to further enrich the structure of the Board of Directors.

SHIP



A Board of Directors tailored for international listed companies with diverse backgrounds was established, and Ms. He Chaoqiong was approved to serve as an independent nonexecutive director of China Southern following deliberation. The Board of Directors of China Southern encompassed seven members, including three executive directors and four independent non-executive directors. The Board of Directors was predominantly composed of independent directors, each of whom brought a wealth of experience and specialized expertise in areas such as enterprise management, internal audit control, risk compliance, finance, and international business.

THE R. LEWIS CO., LANSING MICH.

vein

.

...

中国南方航空 CHINA SOUTHERN

40

Three sessions of "Directors' Lectures" were held. Guests including Mr. Guo Wei, an independent director of China Southern and chairman of Digital China, and Dr. Liu Wei, a Hong Kong Joint Secretary of China Southern, were invited to give lectures on site, attracting nearly 500 attendees from the headquarters' functional departments and major subsidiaries. The functional departments of the headquarters and major subsidiaries were organized to attend "corporate governance training courses" held at Peking University. Microcourses on "three stresses" and performance training for directors, supervisors, and senior executives were developed. Moreover, equity financing experience, listing compliance concepts, and corporate governance culture were disseminated across the entire

Selet

company.

FORGING AHEAD X Seeking High-quality Development | 33

Capacity building of the Board of Directors



The Board of Directors conducted a three-hour compliance training for directors, supervisors, and senior executives. This program, which emphasized the importance of business ethics, integrity education, and anti-corruption work, among other aspects, gave an indepth explanation of the latest laws and regulations, providing professional guidance for directors, supervisors, and senior executives to perform their duties in a compliant and responsible manner.

Management of investor relations

Protecting rights and interests of shareholders.

We engaged proactively with our shareholders, ensuring that their rights were exercised effectively. Our team was swift and accurate in responding to any shareholder gueries, working collaboratively to furnish the required information as stipulated by law. Furthermore, we created video courses on investor relations management. We publicized regulatory policies and guidelines on investor relations management to all employees, fostering a culture dedicated to investor relations management that is characterized by an emphasis on integrity. compliance with fundamental principles, standardized operations and a clear assumption of responsibility.

....

Maintaining communication channels

We continuously strengthened the management of communication channels such as investor hotlines, emails, website columns, and SSE e-interaction. We ensured that investors' requests for consultations and suggestions were addressed promptly and effectively.



We formulated the management measures for periodic reports of listed companies of China Southern Airlines. Our emphasis was on optimizing and improving the information disclosure system and process while ensuring adherence to the foundational compliance requirements for our listing status. Our objective was to achieve "zero errors" in information disclosure throughout the year.

()

Proactively disclosing information

We shared production data, industry information, and analysts' views tailored for investors on a monthly basis. Special sections devoted to presenting monthly production data and performance conference updates were set up within the investor relations column of our official website. To facilitate a deeper comprehension of our financial performance, we employed visual representations of financial data and provided access to both materials and videos of performance conferences. Moreover, we improved the legibility of routine reports to guarantee that investors receive timely and clear insights into our business operations.

Conducting communication activities

We carried out reverse roadshow to enhance the capital market's understanding of our strategic development. We hosted close to 40 institutional investors, including securities and public offering fund companies, at our base at Beijing Daxing International Airport, actively conveying China Southern value and winning appreciation from institutional investors.

100% response rate to effective questions on SSE e-interaction

Holding of and participation in more than

150 press conferences, strategy meetings, and teleconferences Recipient of the 2022 Best Small and Medium-sized Investor Interaction Award of "Panoramic Investor Relations Gold Award"

Recognized with an **A-rating** for information disclosure by Shanghai Stock Exchange for the 10th consecutive year

Recipient of the **2022 Golden** Information Disclosure Award of China Securities Journal

Strengthening Party building

China Southern thoroughly studied and implemented the principles of the 20th CPC National Congress and carried out education on the theme of studying and implementing Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era. We concentrated on improving the organizational system that is cohesive and efficient throughout all levels and endeavored to cultivate high-quality professional management and talent. We expanded the mainstream ideological stance and influenced public discourse, leveraged the influence of mass organizations effectively, placed a high priority on the construction of party conduct and clean governance, and led and secured high-quality development through high-quality Party building. China Southern Group achieved an "A" rating for its Party building work responsibility system, as part of the assessment for central state-owned enterprises, for six consecutive years.

China Southern thoroughly studied and implemented the principles of the 20th CPC National Congress and ensured that all management-level personnel underwent comprehensive rotational training and that every Party member participated in online training. We diligently executed the deployment mandate of the Party Leadership Group, actively engaged with the Central Steering Group, and coordinated and orderly promoted theoretical learning, investigation and research, development, inspection and rectification and establishment of rules and regulations. We conducted an in-depth study and developed an implementation plan for China Southern Group thematic education. We refined the working mechanism, promoted supervision and implementation, and generated a number of theoretical, institutional, and practical results.

The general election for the China Southern Party Committee directly under the China Southern Group was successfully completed. The Party building evaluation mechanism of "one policy and one evaluation for one enterprise" was improved, and "six characteristics" (political, leading, standard, integrated, innovative, and cohesive characteristics) of Party building evaluation were highlighted. China Southern strengthened the "Three Basics Construction" by formulating and issuing key points for Party building, enhancing the political and organizational functions of grassroots Party organizations, revising the management methods for Party fees, conducting training on institutional policies. and promoting implementation at lower levels. We conducted self-examination and rectification work for the development of Party members, steadily advanced the adjustment of Party committees at all levels, organized training courses for Party building work and new branch secretaries, and honored outstanding Party members, exemplary Party workers, and advanced community-level Party organizations within the group. We also strengthened the leadership of Party building in grassroots governance by formulating and issuing guidelines for grid management and promoting the formation of a new pattern of grassroots governance.



China Southern continued to promote the normalization of the "flexible career ladder" of management and advance the normalization of the training and selection of outstanding young management. We increased the intensity of training in political and professional abilities for management, with a focus on practical training to enhance their skills. We also established a normalized system for secondment and training to cultivate a high-quality and professional management talent pool with the "Six Abilities" (refers to individuals who possess a sharp mind to handle tasks, a keen eye for current affairs, effective communication skills, a sense of responsibility, a comprehensive understanding of their field, and a clear direction in their work).

China Southern promoted mass innovation in the industry and shared the innovative experience of China Southern' "Five Small" initiatives (small suggestions, small innovations, small breakthroughs, small inventions, and small creations) at the Member Committee of the Civil Aviation Administration of China. We strengthened external exchanges and cooperation by organizing activities with the Hong Kong Civil Clerical and Professional Employee General Union to promote the development of patriotic forces in Hong Kong. We participated in the National Civil Aviation "Youth Vanguard, Advancing on a New Journey" May Fourth Exchange Exhibition and the "Domestic Aircraft Operation Youth Alliance" Forum, and joined the Communist Youth League Alliance of Guangzhou Aviation Hub. We also implemented the "Women's Innovation and Action Initiative" and established the first innovation studio for female emplovees

Improving the quality of Party building

Expanding the pattern of mainstream ideology and public opinion



China Southern actively implemented and strengthened ideological and political work, organized education on the "Four Clear" situation and task education (involves clarifying the situation, attitude, tasks, and countermeasures), and promoted the institutionalization and standardization of heart-to-heart talks. We conducted internal and external publicity focusing on party-building leadership, safe production, "humanized, digitalized, refined, personalized, and convenient" services, and reform and development. Throughout the year, we published over 2,300 articles on major central media platforms such as People's Daily, Xinhua News Agency, and CCTV. We optimized the "Sunshine China Southern" culture system in the new era and carried out leading actions for the China Southern brand. We were ranked 12th in the "2022 Top 30 Central State-owned Enterprises in Brand Building Capability", placing us at the forefront of the industry.

Operating in compliance with laws

China Southern solidified the foundation of compliance management, carried out comprehensive risk management, upheld the integrity bottom line, actively protected intellectual property rights, and ensured legal and compliant operations. We are committed to safeguarding and supporting the construction of China Southern as a world-class aviation transport enterprise with international competitiveness.

Compliance management

China Southern Group strengthened its compliance management system by constructing a classified and graded system. We conducted special assessments on compliance management, optimized the manual platform and compliance risk management system, and further enhanced the compliance management system. The operating mechanism became more refined, contributing to the stable and compliant operation of China Southern.

Establishing a compliance system

China Southern formulated a comprehensive compliance management framework document titled "Compliance Management Regulations", which served as the master volume of the "Compliance Management Manual". We updated and released six separate volumes of the "Compliance Management Manual", including the Foreign Legal Risk Management, Related Party Transaction Management, Data Compliance Management, Responsibility for Violation of Investment Operation, and Anti-Bribery Compliance Management volumes. In total, we developed 29 compliance manual documents covering key areas, establishing a well-defined and classified compliance management system.

Conducting compliance reviews

China Southern integrated compliance review as a mandatory procedure embedded in the management process. We implemented a 100% compliance review requirement for regulations, economic contracts, and major decisions, ensuring that all necessary reviews were conducted and any violations were strictly rejected. The compliance review opinions for significant decisionmaking matters were signed by the Chief Compliance Officer, providing clear recommendations on the compliance of the decision-making matters.

China Southern organized the

secondary units to comprehensively review the key compliance positions within the respective units. We formulated compliance risk lists and corresponding measures for these key positions. In the compliance risk management system, we opened a "Compliance Report" channel to encourage employees to report any violations or risks. We tracked and provided feedback on the handling of these reports.

Strengthening compliance control

Building a compliance center

The Compliance Center of China Southern's business middle platforms completed the capacity building in three important areas: manual structuring, electronic signature, and partner information retrieval. This enabled the provision of comprehensive solutions to various business departments, including compliance reference queries, risk identification, and compliance requirement execution.

Publicizing and implementing the compliance culture

China Southern utilized the platform of the Legal Standards Lecture Hall to conduct compliance training on key areas such as anti-monopoly and data protection. Compliance training was made a regular course for key personnel, including management staff, foreign employees, and new hires. We organized employees to sign the "Compliance Commitment Letter" to reinforce the business concept of operating in compliance with the law for all levels of staff.

Carrying out special assessment

China Southern used performance assessments to promote transparency and strengthen accountability. We conducted special assessments on compliance management for our secondary units, focusing on four dimensions: compliance system construction, mechanism operation, organizational foundation, and violation handling. This helped to reinforce the primary responsibility of compliance management within the units.

Risk management

Building a compliance risk management system

Optimizing the nternal control evaluation

Monitoring significant operational risks

Preventing and controlling listing compliance risks

Preventing financial risks

and the company's safe production and operation. The responsibility was further delegated to each unit, and monitoring n and correspondi was solidified in the "Management Measures for Key Risk Indicators", providing a

China Southern effectively controlled debt risks and safeguarded the bottom line of funds. We implemented integrated management of domestic and foreign currency funds, preventing risks associated with overseas funds. We strengthened tax accounting supervision. Throughout the year,

Business ethics

Anti-corruption

In 2023, China Southern persisted in strengthening political supervision, promoting clean governance, and combating corruption with a strict approach, measures, and atmosphere. We organized a conference on Party building, as well as clean governance and anti-corruption efforts, to implement 50 key measures in these areas. We remained resolute in advancing the comprehensive and strict governance of the Party.

南航集团2023年党的建设工作暨 党风廉政建设和反腐败工作会



Strengthening the "blacklist" management of suppliers

We included 14 bribery suppliers in the "blacklist", and prohibited them from conducting any business dealings with China Southern Group. We took the lead in convening a meeting with the other two major airlines to establish a mechanism for the "blacklist" of suppliers involved in bribery. We formulated and issued the Guiding Opinions on Classifying and Handling Suppliers Involved in Violations and Crimes, ensuring joint punishment for individuals who bribe employees of any airline within the three major airlines.

Strengthening the education of Party rules and disciplines

China Southern conducted Party discipline education on Party rules and regulations during 40 training sessions, training a total of 2,789 Party members.

China Southernachieved a disposal rate for handling reported clues and complaints

Deepening the rectification of "Four Malfeasances"

We revised and issued the "Implementation Rules of the Party Group of China Southern Group on Further Strengthening Work Style Construction to Deeply Implement the Spirit of the Central Eightpoint Regulations". We emphasized the rectification of formalism and bureaucratism and issued the 2023 Work Goals and Measures to Eliminate Formalism and Bureaucratism and Reduce Burden at the Grassroots Level. We continued to streamline and standardize coordinating institutions, reducing them by 28.85%. We carried out special improvement work on meeting management and continuously improved the meeting atmosphere. We deeply rectified the trends of hedonism and extravagance, focusing on important occasions like holidays, and resolutely investigated and dealt with violations such as irregularities in dining and drinking and the improper giving and receiving of gifts and money.

Deepening the construction of an integrity culture

China Southern integrated the integrity culture into the "Sunshine China Southern" culture system of the new era. We continued to run the "Weekly Integrity" column in the E Vision and introduced the "Integrity Stories" and "Interpreting Integrity Through Words" columns in the China Southern Newspaper. We organized a touring exhibition of calligraphy and paintings on integrity culture to enhance the integrity aspect of our corporate culture.

Improving the supervision system

China Southern developed 35 institutional regulations, including the regulations on recording and reporting instances of leading management violations in interfering with supervisory inspections, selection and appointment of management, implementation of procurement, and infrastructure projects.

Anti-commercial bribery

China Southern developed and released the "Compliance Management Manual" with a separate volume on anti-commercial bribery compliance management. This volume included the "Regulations on Anti-Commercial Bribery Compliance", "Guidelines on Anti-Commercial Bribery Compliance", "Guidelines on Anti-Commercial Bribery Compliance in the United States", "Guidelines on Anti-Commercial Bribery Compliance in the United Kingdom", "Guidelines on Anti-Commercial Bribery Compliance in Canada", "Guidelines on Anti-Commercial Bribery Compliance in Australia", "Guidelines on Anti-Commercial Bribery Compliance in New Zealand", "Guidelines on Anti-Commercial Bribery Compliance in the European Union", and "Guidelines on Anti-Commercial Bribery Compliance by the United Nations".

Reporting procedures and whistleblower protection

Whistleblowers could choose to submit their reports anonymously or with their real names, either by mailing letters or personally visiting designated reception locations to report the relevant information to the Discipline Inspection and Supervision Office of China Southern Group. The Discipline Inspection and Supervision Office strictly followed the procedures and time limits required by the Rules for Handling Whistleblowing Reports by Discipline Inspection and Supervision Institutions, the Provisions on Reporting Whistleblowing Reports and Handling Clues by Second-level Units of China Southern Group, and the Several Provisions on the Implementation of the Measures for the Management of Problem Clues by Discipline Inspection and Supervision Organs, diligently handling reports and complaints submitted with real names or anonymously. The Office accepted reports and complaints within the jurisdiction of the Discipline Inspection and Supervision Office of China Southern Group forwarded by other organs, departments, and units, following the prescribed procedures, effectively addressing public concerns, and fulfilling their supervisory responsibilities.

The Discipline Inspection and Supervision institutions at all levels of China Southern Group protected the information of whistleblowers who reported with their real names, controlling the scope of knowledge and strictly prohibiting the disclosure of the whistleblower's information to the individuals or entities being reported. Upon receiving reports from whistleblowers who provided their real names, we conducted verification in accordance with regulations and disciplinary measures. After completing the investigation into the reported matter, we provided feedback on the outcome to the whistleblower who reported with their real name.

Supplier behavior management

China Southern issued the "Supplier Code of Conduct", which required all suppliers to comply with the requirements regarding legal compliance, ethics, safety and quality, and environmental protection. We emphasized transparency and honesty in business transactions and demanded that suppliers act with integrity, prohibiting any form of corruption, extortion, bribery, blackmail, embezzlement, or other behaviors involving improper interests. Fair competition was expected from suppliers in their business operations, with no tolerance for any form of malicious competition. If suppliers identified or suspected any malicious competition or unethical behavior in their business dealings, we encouraged them to report it promptly, working together to create a fair competitive environment.

Intellectual property protection

China Southern possessed **1,017** trademark intellectual properties

In 2023, there were

O ca ses of trademark infringement incidents reported at China Southern

Improving the intellectual property management system

As an important intangible asset for China Southern, intellectual property serves as a crucial

continuously improved its intellectual property management, strengthening awareness of intellectual property protection, and dedicating efforts to safeguard intellectual property.

source for promoting sci-tech innovation and enhancing core competitiveness. China Southern

China Southern revised the "General Volume of Intellectual Property Management Manual" and made corresponding refinements and revisions to the "Trademark Management Volume", "Patent Management Volume", and "Software Copyright Management Volume". Additionally, we completed the compilation of the "Copyright Management Volume for Works".

Holding special training on intellectual property

China Southern organized a series of specialized training sessions on intellectual property for the first time, covering the entire company. Experts were invited to deliver lectures on topics such as intellectual property management systems, trademark and brand protection, copyright laws and regulations, patent applications, and the use of trade secrets. The training aimed to promote awareness and understanding of intellectual property among employees, while also highlighting China Southern's policies and measures to strengthen the creation, utilization, and protection of intellectual property. Additionally, emphasis was placed on raising awareness of intellectual property risks in international contexts.

Carrying out intellectual property protection planning

We drafted the "Mid-term Plan for Intellectual Property of China Southern Group (2024-2030)" to comprehensively enhance the intellectual property management capabilities and levels in areas such as system construction, management regulations, talent development, and cultural development.

Strengthening the application of intellectual property patents

China Southern strengthened the intellectual property protection for existing teaching materials such as outlines, courseware, videos, question banks, and textbooks. Courseware that met the criteria was promptly registered for copyright, and textbooks that met the criteria were promptly reported and assigned publication numbers. Intellectual property management for sci-tech innovation projects was also enhanced, and when conditions were ripe, utility model patents were promptly registered for eligible sci-tech products.

Deepening reform and development

China Southern successfully completed the three-year action plan for stateowned enterprise reform and launched the implementation of the deepening and enhancing reform action. The focus was establishing and improving the system and mechanisms for scitech innovation, developing strategic emerging industries, enhancing modern corporate governance with Chinese characteristics for stateowned enterprises, and optimizing



market-oriented operating mechanisms. China Southern pushed reforms forward in-depth, actively integrating itself into the new development pattern. We considered reform as the fundamental driving force for high-quality development to accelerate the construction of a world-class aviation transportation enterprise with global competitiveness.

Accelerating the layout of strategic emerging industries

China Southern planned its development in strategic emerging industries closely related to civil aviation. We also vigorously developed flight training with China's characteristics, high-end aviation equipment manufacturing, a domestic civil aircraft community, and industries such as IT as well as emerging general aviation. These initiatives were to promote the adjustment and optimization of the industrial structure while accelerating the cultivation and growth of new momentum. Zhuhai Xiangyi Aviation Technology Co., Ltd., one of China Southern's subsidiaries, was recognized as a national-level specialized, sophisticated, distinctive, and innovative "little giant" enterprise.

Enhancing modern corporate governance

China Southern dynamically optimized the pre-list, strengthened the construction of its external director team, and enhanced its differentiated evaluation system. We built the "sixcapability" model and conducted maturity assessments for the boards of directors of our subsidiaries. These measures established a solid foundation for the optimization and adjustment of authorization powers of subsidiaries' boards of directors.

Making breakthroughs in key areas

China Southern made breakthroughs in key core technologies, including the final assembly and software/hardware design of domestic simulators. We independently developed the "Sky Eye System", the world's first aircraft health diagnosis system compatible with mainstream models from Airbus, Boeing, and Commercial Aircraft Corporation of China, Ltd. China Southern achieved breakthroughs in building comprehensive maintenance capabilities for ARJ-21 aircraft's APU parts, which reduced China Southern's reliance on foreign support and reduced the maintenance cost per aircraft by more than 30%. In 2023, China Southern secured 115 new state-authorized patents, bringing the total number of valid patents to over 500.

Promoting the tenure system and contractual management

China Southern included the main aviation branches and business operation units of non-subsidiary enterprises in the reform to achieve 100% contract signing. We strengthened the effective integration of assessment, distribution, and withdrawal processes of the tenure system and contractual management.

China Southern achieved Grade A in the three-year evaluation of state-owned enterprise reform Additionally **two "double hundred enterprises"** (logistics and general aviation companies) were chosen as benchmarks

Improving the supporting system for scientific and technological innovation

China Southern developed a list management system for special matters concerning total remuneration. This system includes issues that significantly impact reform, development, and scientific and technological innovation. China Southern streamlined and enhanced the separate listing mechanism for total remuneration. We integrated key strategic tasks, high-level science and technology talents, and key scientific research projects into the separate listing mechanism.

Deepening the reform in three systems

China Southern enhanced the supporting mechanism of "manager promotion and demotion, employee employment and dismissal, and salary increase and reduction", strengthened the management after demotion, and established explicit guidelines for the promotion and demotion of managers. Since 2021, the proportion of middle-level and above managers who have been adjusted to the lowest level or identified incompetent in China Southern has reached 18.4%. China Southern conducted flexible employment for nearly 12,000 individuals, solved 28% of the staffing needs for ground positions, and reduced 1,500 new contract labor.

02

SAFE FLIGHT Safe Journey

The civil aviation industry regards safety as its fundamental lifeline. China Southern consistently adhered to the philosophy of "People First, Life First", focused on identifying and mitigating safety risks, continuously improved safety standards, and developed a "great security" concept. We ensured the absolute safety of aviation operations and human life, thus supporting a new development pattern with a renewed emphasis on safety.

Responding to the UN 2030 Sustainable Development Goals:





Strengthening safety management

China Southern strictly abided by laws and regulations such as the Civil Aviation Law of the People's Republic of China and the Law of the People's Republic of China on Work Safety. We were committed to achieving work safety from a strategic perspective, continuously enhancing the development of safety systems, strengthening the prevention of safety risks, and constantly improving the scientific and refined level of safety management.

Developing safety strategies

China Southern insisted on work safety from a strategic viewpoint, diligently studied and implemented the spirit of General Secretary Xi Jinping's important instructions on civil aviation safety. We maintained the ideological foundation of "Safety First", solidly established the value orientation of the "Safety First" concept, and integrated safety into our values and actions.

China Southern maintain the **best** safety record of domestic civil aviation in 2023 - 0 -

Safety management strategy China Southern firmly prioritized safety in its adherence to the "five developments" concept, establishing a comprehensive safety management strategy of "two grasps and one defense". We were committed to properly balancing the relationship between safety and development, profitability, operations, and services, and integrated safety development in every process and aspect of our operations.

Linking work safety with performance

China Southern built a specific annual reporting mechanism on safety for the principal accountable individuals of secondary units. Work safety was considered a crucial indicator for the comprehensive performance evaluation of Party members and management personnel. At the same time, China Southern established a weekly work safety evaluation meeting system to focus more on safety-related matters and further enhance the timeliness and effectiveness of the implementation of safety management measures.

Ō

Safety management mechanism

China Southern clarified the important role of the Party organizations in directing and overseeing the overall situation in work safety, put the study of safety issues on the important agenda of Party organizations at all levels, and incorporated major work safety matters into the "Three Majors and One Large" decisionmaking mechanism (the system of collective decision-making on key decisions, personnel appointment and dismissal, investment on key projects, and arrangement of large sums of money) in its "Aviation Safety Management Manual". Meanwhile, we implemented five mechanisms to carry out the key safety decisions and plans issued by the Leading Party Members Group of China Southern Group. These mechanisms were designed to facilitate the stepby-step transition of critical directives from the CPC Central Committee and the Civil Aviation Administration of China regarding safety into China Southern's safety strategies, departmental management systems, and jobspecific operational procedures, which ensured that these safety requirements were implemented at the grassroots.

safe flight time of 2.842 (including Xiamen Airlines)

and served

Building a safety system

China Southern continued to deepen the development of seven characteristic safety systems and officially published the construction standards and audit criteria for these systems: safety responsibility, risk management and control, process control, rules and regulations manual, training, safety culture, and scientific and technological innovation. We adopted an integrated approach to safety monitoring, combining individual, organizational, and systemic scrutiny to enhance systematic thinking in its safety practices. This integrated approach facilitated the establishment of a distinctive safety management system featuring clear functions, a reasonable structure, and the capability for quick dynamic responses.

Improving the supporting mechanism and process

China Southern issued system audit management regulations and auditor management regulations, selected 117 company-level safety auditors, and conducted three sessions of specialized training. As a result, the seven safety systems basically met the requirements for in-depth promotion and development.

Strengthening the construction of a responsibility system

China Southern reinforced the work plan for managing safety responsibility lists at various job positions. We organized the formulation of template safety responsibility lists for company leaders, team members of secondary units, safety management personnel, and front-line key positions. Chongqing and Guizhou Airlines were selected as pilot cities for the digitization of responsibility lists.

Preventing safety risks

China Southern continued to strengthen risk prevention and control. We systematically carried out risk assessments focused on "human, aircraft, environment, and management", formulated risk prevention and control measures, vigilantly monitored flight risks, and intensified the identification and rectification of potential hazards to ensure that operational safety risks in critical areas and processes were under control.

Strictly preventing flight safety risks

Keeping a close eye on low-fuel risks

China Southern established an evaluation mechanism for fuel decision points and formulated the "Aircraft Low Fuel Management Checklist". It integrated alarm reminders, fuel measurement, ACARS (Aircraft Communications Addressing and Reporting System)-based decision-making fuel quantity information transmission, and the checklist through the operation monitoring system. China Southern improved the efficiency of lowfuel management and reduced the core risks associated with low-fuel operations. Additionally, China Southern enhanced its awareness of low-fuel risks and improved its capabilities for handling such situations through evaluations and case analyses.

meteorological and terrain data in the and firing zones, or crossing border lines.

We ensured flight safety for and air defense consecutive months (excluding Xiamen Airlines)

security for 355 (excluding Xiamen

Promoting safety management practices

China Southern implemented the initiative of "sharing and promotion of advanced safety management practices", extensively gathered exemplary experience and strategies from grassroots units in advancing system construction, and encouraged constructive interaction between toplevel planning and grassroots exploration.

Organizing safety system audit

China Southern explored and promoted the seamless integration of seven safety systems with SMS audit, developed an online audit function and ensured full correspondence between safety inspection items and statutory self-inspection items through the ESMS system. We organized system audits by combining company audits with each unit's self-audits to facilitate development.

Reducing the risk of stray entry

China Southern upgraded the Electronic Flight Bag (EFB) chart module to achieve a superimposed display of intelligence, route chart. By establishing an information collection and data maintenance system for restricted zones, we implemented an alarm function for restricted zones and border lines based on equipment location in the route chart. We assisted aircrew in building better situational awareness and helped to reduce the risks of inadvertently entering restricted, dangerous, prohibited,

Controlling cabin door risks

China Southern enhanced the monitoring measures for each cabin door during the take-off and descent phases, aiming to achieve guick identification, prompt reporting, expedited resolution, and immediate control of issues and ensure the safety and normal operations of flights. Moreover, China Southern intensified the recognition of passengers' abnormal behaviors during cabin inspections and was committed to decisively intervening in any cabin doorrelated unsafe acts.

46 2023 Corporate Social Responsibility Report of China Southern

China Southern carried out

special risk assessments

China Southern identified

eneral hidden dangers



Team 1 and Team 2 from China Southern won the "Top Team Award in the Transportation Industry" at the 5th National Network and Information Security Information Notification Mechanism Central Stateowned Enterprise Cybersecurity Competition



China Southern's "Flight Data Analysis and Simulation Playback" won the **third prize** in the user service category of the First Stateowned Enterprise Digital Scenario Innovation **Professional Competition**

Applying digital methods to identify risks

Identifying risks

Focusing on mitigating core risks such as controlled flight into terrain, loss of control in-flight, and runway incursion, China Southern set up a system of indicators and an early warning model. China Southern detected and precisely forecasted early signs of risks through comprehensive data gathering and evaluation, enabling risks to be identified, quantified, and managed effectively.



Quantifying risks

CSA developed the Airport Flight Operation Risk System (AFORS), which employs three-dimensional dynamic simulation videos that are produced based on factors such as the climate environment, terrain features, flight procedures, air traffic services, Quick Access Recorder (QAR) monitoring events, ground operation characteristics, and airport support

capabilities. By integrating the operational experience of airlines with resources such as relevant flight data from China Civil Aviation Flight Quality Monitoring Base and civil aviation safety information, CSA provided real-time alerts, performed quantitative analyses, and offered visual representations of risks related to airport flight operations.

Strengthening mental health management

Fostering safety culture



Strengthening safety education

By organizing various publicity and education activities on safe production that are popular among employees, such as safety forums and discussions to enhance the ideological understanding of "great safety", China Southern continuously enhanced the safety awareness of all employees and built a sound atmosphere of "everyone prioritizes safety and knows how to respond to emergencies". It embodied a sense of responsibility in the assurance of "always rest assured" and an implementation capability focused on "putting everything into place". These initiatives were part of China Southern's ongoing process to advance the modernization of its safety governance system and enhance its governance capabilities.



the safety culture.

Building a "community" for voluntary report and sharing

China Southern developed new functions such as social interaction, task system, operation system, point growth, message reminder, and personal center in the I-CARE Voluntary Report app to benefit all China Southern employees. China Southern ensured that employees could complete information reporting with one click on the mobile app, know the processing progress at any time, and evaluate and interact with the processing situation. This gradually formed a positive environment for all employees to care about and implement work safety. In 2023, the I-CARE Voluntary Reporting app collected more than 36,900 pieces of reported information.



Improving the team level

Strengthening qualification capacity building

China Southern carried out categorized management for technical restoration of its professionals and provided targeted support measures for individuals with slower recovery progress or lacked sufficient gualifications. Besides, China Southern conducted an ability assessment of pilots who were in training, introduced tiered management strategies, implemented centralized training for newly graduated co-pilots, and established specialized curriculum systems. This ensured that China Southern could monitor and cultivate the technical skills of its personnel from the outset.

China Southern provided proactive psychological assessments at each occupational tier and promoted the in-depth application of assessment results across entire careers of employees. At the same time, China Southern implemented specialized management strategies for improving employees' mental health. We cooperated with the Party organization, government, labor union, and youth league to carry out targeted ideological and political work of professional teams in specific business areas and contexts. These efforts included conducting candid and supportive discussions.

China Southern strove to foster a safety culture in the new era guided by the principles of "Life First, Safety First, Compliance with Rules and Devotion to Obligations, and Commitment to Rigor and Integrity". We persistently conducted various safety education activities to enhance employees' safety awareness and their commitment to safety in

Promoting culture publicity

China Southern innovatively set up a local safety culture publicity team, appointing 95 core individuals to lead the effort. We launched a campaign comprising 100 safety culture-related lectures and established cultural brands such as "I provide safety recommendations" and "I find defects in the manual". The objective was to raise employees' sense of engagement and identity for



Consolidating aviation safety

Prioritizing safety, China Southern insisted that safety best represents a brand's image, shows its service quality, and brings it the most profits. We adopted an overall strategy for the development of a safety system, safety training, safety ideology, and safety culture. By continuously reinforcing aviation safety, China Southern strove to develop a sustainable and high-guality aviation safety environment.



Accumulative safe flight

training for all

We employed

instructors after

We organized

 \mathbf{O}

of trainees being

satisfied with the

training quality

rounds of selection

flight lectures

ecutive months

and air defense security for

Optimizing the management system: China Southern developed the "Work Plan for Flight System to Promote Integrated Operation" and made corresponding proactive efforts. We conducted studies and formulated the "Flight System Efficiency Assessment Scheme" and "Reward Distribution Scheme for Operation Efficiency" to ensure a more scientific and rational operation assessment indicator framework while enhancing the motivation of each flight unit. China Southern also standardized the submission processes of operation information, including flight time and extended duty periods, refined the management of backup crews, and clarified the responsibilities, authorities, and workflows associated with the non-production tasks of the aircrew, thus advancing the operation system's construction.

Publicizing ideological and political

education: China Southern continuously consolidated the results of "one company, one strategy" and promoted five systems of ideological and political education for aircrew and seven systems of safety. We organized specialized research on aspects such as employee stability, team leader's team construction, young pilot team construction, and trainee pilot training. We provided more positive guidance for employees and maintained the pilot team's stability and vitality, ensuring aviation safety.

1,076,000

No company liability incidents or more serious ones (including Xiamen Airlines)

Improving safety-ensuring capabilities:

Prioritizing the main objectives of advancing reform, enhancing "overall management", and improving qualifications, China Southern made concentrated efforts to overhaul training methods. The approach integrated flight lectures with small-scale sessions led by chief engineers, evidence-based training with monthly safety assessments, and technical workshops with seasonal learning opportunities and CRM training. China Southern increased its training efficiency, enhanced the qualifications of the aircrew, and offered robust support for its production, operations, and flight safety.

Improving the conduct: China Southern revised its long-term mechanisms for conduct improvement, such as the "Training Program of Flight Conduct" and "Implementation Plan for Quantitative Management of Pilot's Conduct", and detailed the application methods of the "four forms of strict public security" and the "list of negative behaviors of safety personnel". We also developed a management system to identify negative signs and shortcomings by summarizing and analyzing quantitative data of conduct.

Ensuring information security

China Southern attached great importance to network security. We established a network security system featuring "point-plane combination, internal and external linkage, horizontal coordination. and defense-in-depth architecture" and formulated the "Management Regulations on 'Four Unifications' for Informationization Construction". Besides, we clarified the information security organization and division of responsibilities, carried out publicity and exchange activities on security awareness, and established a unified consensus on network security construction and development to build a solid network security defense line

By formulating such systems as the "Regulation on Compliance Management of Data Processing", "Guidelines for Processing Data Subject Rights", and "Guidelines for the Life Cycle of Personal Information", China Southern explicitly required that personal information protection impact assessment be conducted in collaboration with third parties in the entrusted collection, entrusted processing, exchanges, sharing, and transmission of personal information, and that personal information protection agreements be signed, the "minimum and necessary" principle for data collection be implemented, transmission and storage security be ensured, and information be used and shared under the "Guidelines for Compliance Protection of Personal Information" and relevant regulations on contract management. Besides, the provision of data must follow signed agreements, with specific data desensitized. Relevant data must be retained or destroyed in strict accordance with national requirements, and a full-life-cycle guarantee of data security must be implemented.



China Southern built a Network Security and Digitalization Committee headed by its General Manager. The Committee is responsible for making major decisions on data security and guiding and participating in work related to privacy protection and data security. Besides, we set up a data protection and compliance officer, a post currently served by its Deputy Chief Information Engineer. The officer is responsible for personal privacy protection and attends regular work safety meetings of information systems to guide network security work. The data protection and compliance officer takes the lead in setting up a working personal information protection group responsible for promoting personal information protection in specific work.



Information security audit: China Southern employs external accounting firms and professional network security agencies to carry out independent security audits every year, including information system audits, and covering content such as information security policies and system security. Following the requirements for classified protection, China Southern employs authoritative evaluation agencies yearly to evaluate key information systems and management processes, identify hidden risks, and handle them in time. Meanwhile, China Southern cooperated with China's national cyberspace administrations, the State-owned Assets Supervision and Administration Commission, the Civil Aviation Administration of China, public security organizations, and authoritative evaluation centers in technical security testing to comprehensively assess system risks and screen out potential security hazards.

Information security certification: China Southern passed the ISO27001 information security management system certification, Payment Card Industry (PCI) data security standard certification, Data Management Capability Maturity Assessment Model (DCMM) certification (Level 4), national network security level protection evaluation certification, and IATA Operational Safety Audit (IOSA), and undergoes certification review every year to ensure the effectiveness of information security management.

By organizing internal network security attack-defense confrontation drills in actual scenarios. China Southern checked the omission of defense boundaries, the status of asset security reinforcement, and the effectiveness of protection strategies for security equipment through high-level drills. Besides, China Southern carried out phishing email drills to improve internal employees' network security capabilities. We completed network security attackdefense confrontation drills for the Spring Festival travel rush, the two sessions, and national network security attack-defense exercises, obtaining "Excellent" results. In 2023, China Southern's information system operated safely and smoothly, without any major network security incidents throughout the year.

Or-

China Southern formulated the "Work Plan for Customer Personal Information Protection". Focusing on customer information collection, customer label management, and customer information use, we achieved the compliant collection and use of customer personal information by launching functions such as unified collection and search of customer information in the user center and through features such as SMS reach and cloud call reach in the contact center. Besides, we completed the systematic connection of the user center and contact center with six business scenarios, including ground service reach, customer service outbound call, and cabin service, realizing that customer data was available but processed for privacy protection and made inaccessible after use.

In case of any leakage of passenger information, China Southern comprehensively carried out investigations to identify risks related to passenger information leakage. Specifically, we sorted out the data flow and key nodes of sensitive information such as user travel and contact information in the internal system and connected external systems, and checked links such as passenger contact information and passenger travel information to identify and analyze potential risks and work out corresponding monitoring and optimization schemes.

China Southern formulated systems, such as "Management Measures for Network Security", "Special Plan for Emergency Response to Network Information Security Emergencies". "Detailed Rules for Emergency Response to Network Security Incidents in Information Center", and "Guidelines for Defense against Ransomware and Cyberattack". In these systems, China Southern clarified the handling and reporting processes and methods of major incidents, such as data leakage and network security accidents, to achieve pre-prevention, inprocess control, and post-retrospection and give prompt emergency responses to leakage events while protecting the related scene and evidence.

Meanwhile, China Southern regularly backed up critical system data off-site and conducted recovery tests to ensure the information system's proper recovery after failures. We also strengthened the construction of the network security protection system and improved safety protection, monitoring, and audit measures to eliminate potential safety hazards in time and enhance accident investigation capabilities.



76 participated in the Network Security Publicity Week activity

More than

70,000 pe participated in the ilearning information classes

China Southern organized various information security training activities, making network security courses available to all concerned and fostering a strong atmosphere of all-people involvement, responsibility, and sharing regarding network security. Through these efforts, we helped all employees enhance their awareness of network security and obtain relevant common knowledge and techniques.









Online knowledge popularization



China Southern thoroughly popularized network security knowledge by releasing graphics, texts, and news, such as "Understanding the Data Security Law in One Picture" and "13 Prohibitions of Information Security", on its internal platforms, WeChat official account, the E · Vision, Weibo, and other channels. This allowed its employees to acquire knowledge more efficiently in their free time. We also carried out online training sessions on security awareness about high-risk behaviors concerning network security to strengthen the security awareness and techniques of technicians.

Offline study visits



Through "on-site exhibition + interactive experience", China Southern held the Network Security Publicity Week activity on the theme of "Underpinning the Solid Network Security Defense Line, Boosting the Highquality Development of China Southern Airlines". During the event, we organized special lectures and on-site interactive activities on office security, mail security, and personal information protection. Besides, an exhibition was held in the China Southern Airlines Building, to interpret the recently released laws, regulations, and enterprise network security management systems. Under the theme of mail security, office security, personal information protection, confidentiality security, and others, network security education was conducted through case analyses and introductions to potential safety hazards and protection skills. Interesting interactive games on network security were also organized to attract employees' participation in learning to enhance their awareness of network security.

Care for passenger safety

China Southern spared no effort to ensure the safety of in-flight meals and cabins, providing passengers with a healthy and safe environment, and creating secured and considerate travel.

Ensuring the safety of inflight meals

Supervising food safety and hygiene

The Guangzhou headquarters conducted five rounds of hygiene inspections to in-flight meals, issued eight food safety risk warnings and four notifications, and conducted three special training sessions on food safety. The overall safety risks of in-flight meals were controllable.

Monitoring in-flight drinking water safety

The Guangzhou headquarters carried out hygiene risk assessments on the supply chain of its in-flight drinking water. In the assessments, 193 water samples were collected from 58 aircraft and eight water vehicles for microbiological indicator testing. Aircraft water quality sampling and testing were carried out, with a total of 19 flights randomly inspected.

Ensuring cabin safety

Core risk prevention and control China Southern fulfilled the cabin crew's primary responsibility of ensuring safety and took prevention measures against turbulence, cabin doors, lithium batteries, air defense, and other core cabin risks. Throughout the year, no major issues such as turbulence, cabin doors, and other safety incidents occurred. The cabin department succeeded in handling 243 instances of cabin disturbances, which involved 1,032 passenger injuries and illnesses, creating a safe and comfortable environment for passengers.

Enhancing safety skills

China Southern introduced the Clear Air Turbulence (CAT) cabin turbulence alert management system to quantify turbulence intensity in real-time and provide cabin crew with a powerful tool to assess turbulence levels and adjust service processes, thereby ensuring passenger safety. We promoted the VRTT multiplayer collaboration firefighting training system to strengthen virtualscenario-based training and enhance cabin crew's responses to emergencies. In addition, we optimized the standards of the cabin crew manual, conducted safety theory training covering all staff, and performed crew joint emergency drills covering the entire operational process.

Vector control

China Southern regularly conducted assessments on aircraft cockroach infestations, ensuring good control throughout the year. This continuous effort ensured a comfortable and hygienic cabin environment for passengers.

Offering health consultation

China Southern participated in the formulation of the *Guidelines for Passenger Airworthiness Assessment and Risk Control* (draft for comments) issued by the Civil Aviation Administration of China, showing care and consideration for special passengers by offering inflight health consultation services. In 2023, a total of 3,119 passengers received healthy flying advice.



SPECIAL PROJECT

Building the "Shared Dream" Together A Case of Taxing Back before Flight Demonstrates China Southern's Boundless Compassion and Prioritization of Lives

On August 2, 2023, after a flight from Guangzhou to Xining was taxied, a 12-year-old passenger felt unwell unexpectedly, with symptoms of fullbody shaking and foaming at the mouth. The cabin crew responded quickly and collaborated in emergency rescue. The aircraft then taxied back to the apron, and an ambulance was called immediately to transport the passenger to a hospital for further examination. During the treatment, more than 170 passengers on board cooperated without complaints, quietly waiting for the plane's return. The young passenger eventually returned home safe and sound. This incident exemplifies China Southern's unwavering commitment to the principle of "people first, life first", and China Southern itself has consistently demonstrated boundless compassion and prioritization of lives.



03

GREEN FLIGHT Practicing Low-carbon Development

China Southern adhered to the concept of being "Green, Harmonious and Innovative", integrated sustainable development into its overall production and operation, and actively served China's "dual carbon" goals. We actively responded to and mitigated the impact of climate change, reduced pollution emissions, promoted the green and low-carbon concept, highlighted biodiversity protection, and worked to minimize the impact of operations on the environment. Through these efforts, we endeavored to be a practitioner of the green development concept, an advocate of green travel for passengers, a leader in flight energy conservation and emission reduction, and an innovator of green and low-carbon technologies.

Responding to the UN 2030 Sustainable Development Goals:





Responding to climate change

Deeply aware of the far-reaching impact of climate change on its development, we formulated plans and action guidelines, such as the "Peaking Carbon Dioxide Emissions Action Plan", to tap the potential of aviation emission reduction, promote green full-journey services, and continuously explore new paths for low-carbon development in the aviation industry.

"Dual carbon" strategic action

and mitigate the impact of climate change.



GREEN FLIGHT 🗙 Low-carbon development | 59

In strict accordance with the Energy Conservation Law of the People's Republic of China and the Environmental Protection Law of the People's Republic of China, we formulated system documents, such as the "Peaking Carbon Dioxide Emissions Action Plan", "Ir Rules for Assessment of Special Work on Energy Conservation and Ecological Environm Protection", "Green Development Work Plan of China Southern Group", "Indicator Targets and Implementation Plan for Green Development of China Southern Group (2023-2025)", and "Notice on Strengthening Information Reporting of Environmental Emergency Events". In these system documents, we clarified the goals of energy conservation, emission reduction, and environmental protection and actively carried out the "dual carbon" strategic actions to address





1. The relevant data disclosure scope is China Southern Airlines Group, which remains consistent with the 2022 data caliber.



"Dual carbon" goals setting

China Southern conducted whole-industry chain carbon reduction response scenario mapping studies to achieve carbon peak and neutrality goals, improved our green operation and management standard system, optimized aircraft weight reduction and fuel-saving measures, strengthened energy-saving technological reserves, advanced the utilization of recyclable resources and application of clean energy, and continuously reduced fuel consumption and carbon emissions per ton-kilometer. We sought to implement green and low-carbon actions in seven major fields of transportation, aiming to keep our fuel consumption per ton-kilometer no higher than 0.28 kg by the end of the 14th Five-Year Plan period.

"Dual carbon" strategic actions

Closely integrating with the realities of civil aviation, China Southern focused on aircraft energy saving and carbon reduction, reduced ground energy consumption, and promoted green travel for passengers. We continued to carry out actions combining "digital precision operation + whole chain energy-saving innovation". We innovated in our aviation fuel-saving management model, developed an intelligent monitoring system for airfield vehicles, and became the first airline in the country to independently develop a big data management system for aviation fuel. At the same time, we compiled quarterly reports on energy consumption and green development dynamics, inspected key energy-consuming units within the company for their energy usage, and continuously promoted overall corporate energy-saving and emissions reduction capabilities and efficiency to support China Southern's green development.

Implementing aviation emission reduction

China Southern adhered to the philosophy of "effectively managing every drop of fuel efficiently, making the best use of every drop," insisting on refined operations and lean flights. Through digitization and intelligent means, China Southern solidified its fuel-saving achievements and intensified efforts in aviation emission reduction.

Digging deeper into digital fuel saving

China Southern continuously deepened fuel-saving innovation, improved models such as continuous climb and APU digital monitoring, and cumulatively promoted over 30 fuel-saving points such as direct flight, cruising altitude, and route optimization design. We established an aviation fuel cost management system, clarified the work deployment of institutional mechanisms, technological innovation, and cultural construction, and accelerated the advancement of whole-process digital fuel saving.

💎 Further Reading

Why Do We Carry out Sharklet Retrofitting?



7.68% compared to

2019, ranking among the top in the civil aviation industry

A total annual fuel saving of 175,100 tons reducing carbon emissions by 551,600 tons

Enhancing aircraft performance

China Southern conducted sharklet retrofitting for 48 A320CEO series aircraft. The retrofit work was all completed by June 26, 2023. This retrofit project can reduce carbon dioxide emissions by about 23,000 tons per year and save costs up to RMB 44.932 million annually.

Optimizing E-cloud

China Southern promoted the application of the precise refueling function, reducing the probability of excess refueling by the crew, moving the refueling point forward, and improving safety and efficiency. We launched and optimized the aircraft fuel usage profile feature of the Aviation Fuel E-cloud to achieve real-time monitoring of the entire fuel chain, making it practical, visual, and convenient to manage every drop of fuel.

Implementing precision water filling

China Southern developed a water filling scheme that progressed from point to area, from a single aircraft model to multiple models, and from uniform standards to precise standards. This further refined the management of aircraft water filling, reduced aircraft load, and achieved the effect of saving fuel and reducing carbon emissions.

quantitative refueling orders at business at **O** airports

project saved nearly

thus being recognized as top ten excellent cost management projects

Case

Precise Water Filling on China Southern Aircraft Reduces Carbon Emissions by 6,000 Tons Annually



On May 20, 2023, the "precision water filling" program was implemented across all China Southern flights. While ensuring that the passenger experience remains unaffected. China Southern comprehensively considered the operational characteristics of different routes in different regions. After careful calculations, an optimal method for calculating the water-filling amount for flights was determined. Additionally, an information system developed specifically for "precision water filling" can calculate the required amount of water based on parameters such as the number of passengers on the flight and the distance of the journey, automatically sending the information to the mobile devices of the chief purser and the ground maintenance water filler for that flight.

Promoting electronic waybills

China Southern actively applied internet and barcode scanning technologies and promoted paperless operations of online sales platforms and cargo stations. Data integration with such airports as Pudong and Honggiao, as well as with airlines like Sichuan Airlines was achieved, and paperless operations were realized, reducing carbon emissions and further increasing the usage rate of electronic waybills.

terminals utilizing electronic waybills for departure reached 6 and the number for 163

The usage rate of electronic waybills in China reached 10 a year-on-year increase of l Ô

Promoting green travel

China Southern continuously enriched its "Green Flight" products, encouraging more passengers to integrate environmental protection into their behaviors, to raise their awareness of environmental protection and further promote a green travel lifestyle among passengers.

Introducing on-demand meal services

Through innovative products and service models, China Southern offered mileage awards to passengers to encourage their use of on-demand meal services. In this way, more passengers could integrate the concept of green development into their behaviors and raise their awareness of environmental protection. Passengers could opt out of in-flight meals via the China Southern Airlines App, WeChat, customer service hotline, and other channels up to 6 hours before the flight. We would record the resulting reduction in carbon emissions from canceled meals, electronic check-in, and electronic itineraries in passengers' carbon accounts, and passengers could also receive a certain amount of China Southern mileage rewards. In 2023, the "Green Flight" on-demand meal service initiative was utilized more than 4,863,500 times by passengers, reducing meal waste by approximately 5,512 tons and effectively decreasing food wastage.

Over the year, the "Green Flight" on-demand meal service attracted more than

Implementing carbon offset service

The "Green Flight-Passenger Carbon Offset Service" was officially launched, and a one-stop carbon offset platform was established to provide passengers with a voluntary pathway to fulfill social responsibilities. Passengers could reduce the environmental impact of their aviation carbon emissions through this voluntary carbon offset service, which offered a new experience for passengers aiming for a personal "carbon-neutral" flight. As of December 31, 2023, the Green Flight-Passenger Carbon Offset Service had been used by 1,419 people, offsetting 250 tons of CO₂.





The "Green Flight" On-demand Meal Service Project was awarded **Case of the Year 2023** at the 15th China Corporate Social Responsibility Annual Meeting



SPECIAL PROJECT

Building the "Shared Dream" Together "Green Flight, Low-carbon Travel"-China Southern's "Social Responsibility" Flight Takes Off

Southern's Social Responsibility Day. At 7:32 in the morning, the China Southern "Social Responsibility" themed flight CZ3603 from Guangzhou to Dalian took off smoothly, with 12 passengers on

On the theme flight, the purser conducted low-carbon knowledge quizzes and interactions with passengers, who actively participated in this "Green Flight, Low-carbon Travel" activity to learn more about green travel options such as paperless boarding and meals-on-demand. The flight also featured a custom stamp with social responsibility elements for enthusiastic participants to stamp their passports as a keepsake. Additionally, a signature board was set up to encourage passengers to share their environmental protection philosophies. Messages like "Thumbs up for China Southern" and "Wishing Green Flights continue to improve" added significance to the event and contributed to the advancement toward a beautiful China

"I've chosen China Southern Airlines' green flight many times. Today's activity makes protecting our planet."

-Mr. Liu, passenger



Strengthening pollution control

China Southern adhered strictly to the Water Pollution Prevention and Control Law of the People's Republic of China, Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution, and Law of the People's Republic of China on Prevention and Control of Environmental Pollution by Solid Waste, and other related laws and regulations. We have intensified our efforts in dealing with wastewater, waste gases, and solid waste disposal, aiming to minimize our environmental impact.

Enhancing wastewater treatment

A total of 102.800 throughout the year, with a wastewater treatment rate of 100

A total of





For production wastewater

An integrated wastewater treatment plant utilizing biochemical treatment processes was adopted to primarily treat paint-stripping wastes from aircraft, parts cleaning, and wastewater from various workshops. After being biologically degraded to meet the national discharge standards, the water was discharged into the airport's sewage system and directed to the airport's sewage treatment plant. In 2023, all wastewater was discharged in compliance with standards.



For washing sewage

China Southern transformed each functional pool of the existing treatment system to form an integrated system for treating production wastewater from blanket washing on aircraft, replaced rusted steam pipes with galvanized pipes to prevent "dripping, leakage, and venting" in steam pipes, ensured the normal operation of the integrated system, and monitored the sewage treatment in real-time.

The annual consumption of circulating water was



For aviation food wastewater

China Southern set up an independent and standardized production wastewater discharge outlet, adopted a sewage treatment system with oil separation + air flotation + sedimentation for treatment, installed flowmeters on the production wastewater treatment equipment, and arranged dedicated personnel to take charge and operate to ensure the normal operation of environmental protection treatment facilities in the sewage treatment station and tracking of the sewage treatment capacity in real-time.

Strengthening exhaust gas treatment

With exhaust gas treatment facilities, China Southern adsorbed the organic exhaust gas generated by aircraft painting through activated carbon adsorption technology, regularly replaced adsorption consumables, and received real-time monitoring from environmental protection departments through an online exhaust gas monitoring system. In 2023, the exhaust gas was discharged in compliance with the standards.

Standardizing solid waste disposal

monitoring from environmental protection departments through an online exhaust gas monitoring system. In 2023, the exhaust gas was discharged in compliance with the standards. According to the Law of the People's Republic of China on the Prevention and Control of the Environmental Pollution by Solid Waste, Technical Policies for the Prevention and Control of Hazardous Waste Pollution, and other laws and regulations, China Southern formulated the "Maintenance Waste Management System" to fully implement

Management System" to fully implement the maintenance waste working policy of "safety first, prevention prioritized, and comprehensive management", further standardize the collection, storage, transfer, and disposal of maintenance waste at each base, and effectively control and reduce the pollution of maintenance waste.

throughout the year

cubic meters of exhaust gas were

treated during aircraft maintenance

For the wastes generated from maintenance: China Southern established a full-process management system for aircraft maintenance wastes, strictly carried out harmful/harmless classification, assigned dedicated personnel to collect and collate waste every day, and signed disposal contracts with multiple units that had the recycling and disposal qualifications, so that the waste could be transferred and disposed of frequently, achieving timely disposal without long-term accumulation, improving the standardized management level of hazardous waste, and reducing potential environmental hazards of China Southern. The annual processing rate was 100% in 2023.

8-6815

CHINA SOUTHERS

Realizing the recycling of waste: Pearl Hotel transformed idle containers into a new highlight in Food Street. Waste steel pipes and old angle irons were used to complete the production and installation of limit rods in basements and parking lots to solve the problem of missing limit rods in some parking spots. Recyclable items in guest rooms were disassembled and recycled, and available components from scrapped TVs, printers, telephones, and other equipment were used as spare parts, enriching the departments' parts library, with a total material recovery of about RMB 539,000.

For plastic waste: China Southern carried out the overall plan for plastic pollution control, improved the substitution standards for disposable non-degradable plastic products, continuously updated the prohibition and restriction management standards for plastic products, strictly implemented the standards in production and procurement links for control, effectively dealt with separate recycling and disposal, and promoted the establishment of industry standards.

The treatment capacity of hazardous waste from aircraft maintenance was **2,451.4** tons with a disposal rate of **100**%

The treatment capacity of nonhazardous waste generated by inflight services was

180,000 tons

The second second

Classification of Hazardous Waste	Treatment Capacity (t)
Waste kerosene	339.61
Waste oil	1244.21
Waste organic solvent	394.49
Used lubricating grease	1.79
Waste emulsion	7.37
Waste paint, paint slag, dyes and coatings	52.11
Chromium-containing waste	3.82
Lead-containing waste	5.46
Waste organic resin	10.01
Waste light pipes	0.04
Waste activated carbon	0.36
Waste packages and containers	119.25
Used batteries	0.002
Liquid waste from surface treatment	135.13
Photosensitive material waste	1.06
Mercury-containing waste	0.35
Other hazardous wastes	136.35

Advocating green environmental protection

China Southern encouraged employees to practice the concept of green and low-carbon office and life, carried out rich and colorful environmental protection publicity activities, and constantly spread a green and low-carbon lifestyle among the public.

Promoting green office

China Southern advocated, among employees, working in a thrifty, low-carbon, and environment-friendly way, carried out standardized and green management of air conditioners, lighting, printers, and other office equipment in the office area, further regulated employees' water and electricity consumption behaviors, encouraged employees to adopt green travel and consumption, and created a green and low-carbon office environment.



Paperless "Dispatch Standards" manual



On March 1, 2023, China Southern succeeded in building a diversified electronic manual inquiry platform, officially entering a new era of paperless "Dispatch Standards". Paperless means reduced paper printing and saved fuel consumption, thereby contributing to the realization of green and low-carbon development in a tangible way. According to statistics, China Southern has a fleet of nearly 900 aircraft, and the total weight of the "Release Standards" manual is about 8.5 tons. The additional fuel consumption was reduced by approximately 400 tons throughout the year.

Delivering the concept of environmental protection

Through various forms of environmental protection publicity activities, China Southern vigorously promoted the concept of environmental protection, called on the public to start low-carbon and emission reduction efforts from themselves, and continuously enhanced the awareness of carbon reduction among all people.



From March 30 to April 1, 2023, China Southern participated in the first Civil Aviation Green Development Forum and Civil Aviation Green Development Facility and Equipment Exhibition held in Weihai, Shandong Province. Through "Green Travel", "Green Cabin", and "Green Operation" sections, China Southern showcased its products and services highlighting the concept of green development throughout the passenger journey, calling on everyone to "join in green flight for a better future together".



Carry Case Envir Build

Carrying out Marine Ecological Environment Protection and Jointly Building a Green and Beautiful Zhuhai

On March 4, 2023, China Southern organized the Youth Volunteer Service Activity for Marine Ecological Environment Protection in 2023 with the theme of "Youth Volunteer Action for Green and Beautiful Zhuhai". During the activity, China Southern actively invited citizens and tourists to participate in an interactive quiz on waste sorting and environmental protection knowledge and take photos with environmental protection theme KT boards. In addition, China Southern prepared souvenirs with China Southern characteristics for those who participated in the voluntary quiz, which shortened the distance between China Southern and Zhuhai citizens and created a strong atmosphere of jointly implementing the concept of environmental protection.



Case "Joint Hands towards Energy Conservation and Carbon Reduction"

nd

On July 13, 2023, China Southern held activities for the National Energy Conservation Week 2023. Focusing on the publicity theme of "Joint Hands towards Energy Conservation and Carbon Reduction", China Southern carried out online carbon account + offline manual activities, promoted the concept of low-carbon development among passengers and employees, popularized knowledge about tackling climate change, carried out energy conservation and carbon reduction publicity and education, and vigorously advocated green and low-carbon production and lifestyles. In the activity, DIY activities, such as transforming old bottles into new products and renovating old clothes, enabled employees to realize that an empty plastic bottle could be turned into a decorative green plant on the desk, and a pair of unworn old jeans could also be turned into a fashionable single-shoulder bag, thus helping them continuously improve their awareness of energy conservation and low carbon.






04

JOYFUL FLIGHT EXPERIENCES Affinity and Refinement Service

China Southern consistently adhered to the original aspiration and mission of serving the people, practiced the service philosophy of affinity and refinement, strengthened service quality management, continuously optimized "humanized, digitalized, refined, personalized, and convenient" services, attached importance to passengers' needs, and provided passengers with a more considerate and satisfactory travel experience.

Responding to the UN 2030 Sustainable Development Goals:





3

5

9

Service quality management

Adhering to the principle of being "customer-centered", China Southern further improved its service quality management system, promoted the implementation of "humanized, digitalized, refined, personalized, and convenient" services, and continuously improved its service level and quality.

Improving the service quality management system

China Southern actively carried out an internal review of the service quality system, continuously improved relevant systems for service quality management, added and revised 34 manuals and systems in 2023, and refined the work related to service quality improvement in various systems to help improve service quality in an all-around way. The key work of each department in improving service quality after the manual revision mainly included:

Establishing a product risk management mechanism for the marketing system to standardize the assessment of product "design, operation and after-sales" risks;

> Improving the loading and unloading business standards for the ground service system, establishing an outstation management center and apron service branch, and strengthening outstation management assistance;

Establishing a standard optimization mechanism for the cabin system and revising 101 standard procedures of cabin service;

Implementing the outstation hierarchical management system for the air catering system to strengthen air-ground coordination;

Enhancing the flight punctuality for the transport command system, and improving the flight punctuality management mechanism;

Carrying out special actions of on-board cleaning for the maintenance system to promote standardization construction;

Refining the delay broadcast script of each scenario for the flight system to create a "warm" cockpit broadcast;

Strengthening the concept of performing duties in accordance with laws and regulations for the security system, and solidly carrying out a special action to rectify "plane disturbance";

Continuing to promote the construction of a business middle platform for the information center and strongly supporting the development of various business systems;

Improving the guarantee capability for resources such as flight delay hotels and vehicles for the flight service system, and establishing a rapid response mechanism;

Establishing a talent pool of service skills for the training center;

Promoting the digital transmission of entertainment programs for cultural media companies;

Strengthening pre-service control for logistics companies and carrying out whole-process monitoring of service quality.



Promoting the construction of a responsibility system

the risk

out key positions from the dimensions of customer rights and interests, service standards, product operation, and flight operation, and added service qualityrelated assessment indicators for more than 50 positions. China Southern continued to build a

up" feedback path.

Improving service quality management and control platform, fully displayed the whole-process data of passengers and realized risk management threshold monitoring; upgraded the service and control risk source database and correlated service mechanism events; relying on the I-CARE platform, China Southern established a voluntary service reporting mechanism with full

Promoting the implementation of "humanized, digitalized. refined. personalized, and convenient" services

Focusing on flight stability, travel efficiency, convenient process, product supply, and humanistic care, China Southern improved the "humanized, digitalized, refined, personalized, and convenient" services. By strengthening humanistic care for special passengers, upgrading and optimizing the app service function points, enriching serialized product contents, and creating "China Southern Air Shuttle", China Southern further promoted the implementation of "humanized, digitalized, refined, personalized, and convenient" services to

China Southern established a customer satisfaction-oriented performance indicator system in the Marketing Committee and the System Operations Control Center, sorted

participation and opened up a "bottom-

help enhance passengers' travel experience.

China Southern won "Best Airline Awards 2022" and **Civil Aviation Innovation** Pioneer Award" by CAPSE

China Southern was awarded the AAA certification of the nighest mark<u>et quality credit level</u> by China Association for Quality

"China Southern APP Service Experience Upgrade" was selected as the Excellent Case by the Ministry of Industry and Information Technology

China Southern's "Easy Luggage Pass" project won the **second prize** in the production and operation section in the First State-owned Enterprise Digital Scenario Innovation Professional Competition

"China Southern's Cabin Service Quality Improvement Action in Spring Festival Travel Rush" project won the Excellence Award of the CAPSE Civil Aviation Quality Improvement Practice Competition

Ensuring flight punctuality

By optimizing operation management, China Southern strengthened flight guarantee, improved the early warning and handling mechanism of flight delays, and enhanced the efficiency of onsite service for flight delays to meet people's travel needs in an all-around way.

Optimizing operation management

Taking actions to improve flight punctuality

China Southern invited industry experts to carry out research on the flight punctuality rate from the perspective of customers and established a customer-perspective punctuality rate index system consisting of flight formation rate, operation punctuality rate and planned stability rate from the flight dimension.

China Southern established a monthly evaluation and notification mechanism, optimized the assessment scheme, added service indicators such as customerperspective punctuality rate and flight execution rate in the performance contract of on-duty managers, and strengthened assessment-oriented control



Establishing a voluntary reporting nechanism for integrated operation

Through channels such as the I-CARE voluntary reporting platform, and China Southern Airlines Zhixing app. China Southern established a special module called "I have something to say about integrated operation" to broaden the ways to identify operational problems, handle them in time for optimization, and improve operational efficiency.

nproving the operational efficienc of "China Southern Air Shuttle"

China Southern established a shuttle operation guarantee system and introduced 15 measures from four aspects of flight scheduling, onsite operation guarantee, abnormal situation handling and emergency response to improve the operational efficiency of China Southern Air Shuttle.

Launch of the Brand-new "China Case Southern Air Shuttle'

On March 23, 2023, China Southern Airlines held the "China Southern Air Shuttle" brand conference in Guangzhou with the theme of "Free and Enjoyable Flight", announcing the launch of the brand-new upgraded "China Southern Air Shuttle" brand service, including flight scheduling, ticketing services, ground services, passenger rights and interests, on-board meals, and other travel services. In 2023, China Southern built a total of 16 "China Southern Air Shuttles" and 19 self-operated stations to shorten the flight cutoff time to 40 minutes. It realized "one-code access" at 41 tenmillion-passenger airports, optimized the MCT of domestic transfer between two hubs to 50 minutes—representing the best in the industry, and launched full-process luggage tracking services at 52 domestic and foreign airports and "luggage door-to-door" services at 26 self-operated tenmillion-passenger airports. "China Southern Air Shuttle" gives passengers more sense of gain and happiness in air travel, creating a new experience of a "free and enjoyable flight".



Strengthening flight guarantee

Flight punctuality rate

88.82

company-wide cases of large-scale delay early warning and response

China Southern

handled



Improving the early warning and response mechanisms

China Southern formulated the Disposal Plan for Largescale Flight Delays at Guangzhou Base of China Southern Airlines, which added an early warning response mechanism. The early warning mechanism was based on the "five-early" disposal requirements of the Civil Aviation Administration of China while the response mechanism optimized the initiation standard and coordination process to thoroughly reduce flight backlog and passenger stranding and prevent risks associated with safety, service and public opinion.





Improving the efficiency of linkage and coordination

China Southern refined the joint disposal process and time nodes of extreme weather, improved the decision-making consultation procedures, and formulated dynamic flight mechanism and improved the adjustment strategies; promoted the integrated operation of small and medium-sized airports, and clearly defined the responsibilities and cooperation processes; established a cabin target closing time mechanism, refined the guarantee time limit node, revised the start standard for fast transit, optimized the internal process at multiple nodes to save coordination time, and provided flight punctuality guarantee throughout the chain.



Improving the flight delay service guarantee

In case of emergencies such as large-scale flight delays, China Southern properly handled the delays and provided passenger services, continued to focus on satisfying the service needs of special passengers, opened "green channels", deployed pioneer volunteers among Party members, comprehensively sorted out the service guarantee process, and took multiple measures to ensure better travel experience for passengers.

Optimizing the construction of an ecological circle

Based on the main business of aviation, China Southern followed the path of "building platforms, forging partnerships, increasing customer flow, implementing flexible incentives, and integrating services", enriched its product system with a focus on air travel, deepened cooperation in various industrial sectors internally, actively introduced cooperative resources externally, and continuously optimized the ecosystem to support the development of its main business.

Enriching the product system in multiple fields

Onboard service

China Southern upgraded the in-flight "kapok series" products, designed "Kapok Seasonal Memory" series products based on the characteristics of 24 solar terms, and launched activities such as solar-term broadcasting, solar-term meals, themed bookmarks, and special flights; innovatively developed "cloud series" products, and launched a series of products such as "cloud chartered plane", "cloud voice" and "cloud children's fun"; and diversified the types of online meals, with 60 new products for first-class and business-class meal selection and 11 new products for economy-class meal selection.



▲ Winter Solstice Themed Flight

Mobility services

China Southern developed a series of plane+X product brands such as "Perfect Holiday" and "Encounter the World", increased the deployment of its products in domestic and international markets. enriched hotel benefit packages, vehicle vouchers, and other products, and made an initial attempt to operate crowdfunded flights.



From September 30 to October 1, 2023, China Southern made an initial attempt to operate crowdfunded flights, with the National Day skiing theme in Fuyun, Xinjiang as a pilot project, during which the first batch of 600 passengers were transported. The series of flights not only launched the firstphase Fuyun ski crowdfunded products but also carried out crowdfunded product design and sales for popular ski destinations such as Kanas and Changbai Mountain to continuously meet passengers' customized travel needs and bring fresh travel experiences to the passengers.



Luggage services

Focusing on the travel needs of passengers, China Southern improved the efficiency of ground services, built a premium reception for baggage service, and upgraded pet check-in services.





In 2023, in response to the personalization and convenience needs of passengers traveling with pets, China Southern upgraded its pet check-in service from a "passenger's perspective" by providing "one-stop" services such as dedicated pet check-in counters, free pet protective net covers, full-process status query of pet transportation, pet transportation photo query, basic pet transportation insurance, and delivery of pet to home, so as to further improve the quality of China Southern's pet check-in service and provide more convenient and assured pet check-in service.

Pet Check-in Service 🕨

Insurance services

China Southern enhanced its ability to meet the differentiated needs of passengers in different scenarios through air tickets + insurance, X+ insurance, etc., successively solved key service problems for passengers such as display of insurance in the travel itinerary, issuance of enterprise invoices, and change of passive claim settlement to active claim settlement, and improved passengers' experience in all-round purchase and claim settlement.

Building a Premium Case Reception for Baggage Services



On May 1, 2023, China Southern's first premium reception for baggage service in the arrival hall of Terminal T2 at Guangzhou Baiyun International Airport was officially put into use. The premium reception has multiple functions such as passenger inquiry, luggage query, abnormal luggage handling, and high-end passenger luggage services, helping enhance passengers' experience in luggage transportation services and providing more affinity and refinement service for passengers.

Premium Reception for Baggage Service





Improving internal and external supply chains

China Southern continued to expand the cooperative ecosystem, completed the overall planning of the supply chain management system, determined the catalog list of products in the ecosystem and the priority of each category demand, drafted the General Provisions of China Southern Airlines' Ecosystem Supply Chain Management Measures and several category access standards, formulated internal supply chain management processes, and launched mall order and commodity standards based on the brand flagship store model of China Southern Mall.

China Southern diversified the mileage application scenarios to enhance user experience. It

marketing windows such as e-commerce festivals. After purchasing mileage, the suppliers

could use mileage to carry out store marketing activities. China Southern accelerated the renewal of non-aviation cooperation mileage agreements and the signing of new non-

developed mileage purchase packages for merchants and sold them to mall suppliers through

aviation cooperation mileage agreements, expanded mileage sales scenarios, and continuously

Strengthening the internal and external circulation of mileage

Realizing the whole-process service of products

China Southern established a product service team and set up a special line for product services to support the launch of various service products, financial products and package ticket benefits by providing customers with professional, fast and reliable product after-sales services. For the whole-chain service of the mall products. China Southern established a feedback handling process for special events to provide passengers with a considerate, comfortable and satisfactory shopping experience.

enhanced customers' perceived value of mileage.

Building a New Version of China Case Southern Mall



China Southern Mall is an important part of China Southern's ecosystem strategy. It implements the strategic policy of "building platforms". In 2022, China Southern built the first mall with the platform entry model. In 2023, based on the "middle platform + front-end" model, China Southern created a unified display front end for products in the ecosystem and built a new version of China Southern Mall. The new version of China Southern Mall opened up middle platform modules such as the order center and product center, launched the product sales flow and the refund and change flow, simultaneously planned to build a mall platform model based on "content + product service", improved consumption and service conversion at the member end, combined activity resources such as Double 11 promotion, onestation and three-area marketing competition, carried out multitouch promotion on the main station of China Southern Mall through internal and external channels, and increased visits with the assistance of precision marketing, resulting in an 11% yearon-year increase in overall mall visits compared to 2022.

Providing exclusive services

China Southern continued to optimize the marketing service standards for special passengers, focused on meeting special passengers' needs, and provided personalized services based on upgraded services for special passengers and special transportation, so as to bring customers a delightful experience in all aspects.

First-time passengers

China Southern formulated ground service specifications for firsttime passengers, promoted the "worry-free first-time fly with China Southern" service in 20 self-operated stations, and provided numerous services such as one-stop processing, travel guidance, airport check-in, and exclusive experience for first-time passengers.



▲ Worry-free First-time Fly Service

Child passengers

In line with the national three-child policy and in consideration of market demand, China Southern increased the allowed number of unaccompanied minors and teenagers according to aircraft types. It also increased the allowed number of infants and children traveling with each adult to 8 and extended the unaccompanied service to business class, thus realizing unaccompanied services for all classes. At the same time, China Southern optimized the system functions to achieve automatic unaccompanied sales for all classes on domestic flights.



▲ Services for Unaccompanied Minors

JOYFUL FLIGHT EXPERIENCES X Affinity and Refinement Service | 79



Sick and disabled passengers

China Southern optimized the procedures for sick and disabled passengers to apply for ticket refund and change due to sickness, streamlined ticket refund and change documentation for sickness-related cases by only requiring submission of medical invoices, realized the electronic review of supporting documents so that it could be handled before and after flight departure without limitation. At the same time, China Southern increased the number of accompanying personnel allowed to apply for free refund and change from 2 to 5, so that the tickets could be refunded and changed free of charge together with the sick passenger, thereby effectively alleviating passengers' travel concerns.

Pregnant passengers

China Southern optimized the ticket purchase and boarding process for pregnant passengers, no longer requiring them to show their medical certificates during ticket purchase and reminding them to carry the certificates for future reference during boarding.





Elderly passengers

China Southern innovatively introduced personalized service products for unaccompanied elderly passengers, launched travel products for the elderly, packaged tickets, lounges, priority boarding and guidance services, continuously optimized China Southern's official website, and transformed its app to make it more senior-friendly, thus ensuring continuous convenience for elderly passengers during air travel.



Case China Southern APP Service Experience Upgrade

China Southern's app is a mobile client software that provides passengers with one-stop digital services throughout the process of air travel. In recent years, China Southern has continuously upgraded its app to better meet the needs of special groups. It has built a special area for the elder version of the app for elderly passengers. Focusing on the main business, related auxiliary functions and main interface of the app, China Southern has completed a senior-friendly transformation, providing a one-click switching mode for the elder version. Through means such as simplifying the interface, optimizing the spacing between font lines, removing redundant functions, making information such as text and pictures accessible, and adding intelligent functions, it has made the app convenient for the elderly to complete travel operations such as air ticket booking alone, so that they can better adapt to and integrate into the smart society, thus comprehensively improving elderly users' operation experience and service experience during air travel.

In addition, China Southern's app has also been upgraded to make it accessible to visually impaired users and compatible with screen reading tools, so that visually impaired users can easily operate and browse the information.



▲ Senior-friendly Transformation—Adding Intelligent Functions

637 8 B	REMARD	1639-08 46-5-563-88
- 无障碍	::	← /#-88
18454 1857-185	0.641	
1.8 11 8 1		▲ C23101 空間360
8×98	0.64	08:00 10:55 8812
81.78	0.000	12.000.0818. 11 T.R.W.1.9 ¥1921
1.98480	0.0	H .
8842	0.64	▲ CZ3099 法自777
CELENCE	0	09:00 12:19 0872 03h15m 80
DILEXP	C20	10780-101 BL V110 ¥2020
1002238		C23121 98321
CENE .		
810		

▲ Accessible Renovation—Achieving Screen Reading Tool Compatibility

Special transportation

China Southern improved the transportation guarantee of donated human organs, streamlined the process of organ transportation by aircrews, and specified the transportation rules for hematopoietic stem cells. China Southern properly handled the special situation on board and rescued 859 passengers with sudden illnesses during flights.

Premium passengers

Focusing on China Southern's first class, business class, platinum card, gold card, silver card, partner super elite members, elite members, etc., China Southern promoted the construction of "Pearl Better Life Hall" at 23 self-operated lounges to meet passengers' personalized needs for better travel experience, thus bringing joyful flying experience to more.

▼ Artworks such as Sculpture Displayed in the Lounge

On January 1, 2023, China Southern Airlines Pearl Lounge Art Space officially opened at Terminal T2 of Guangzhou Baiyun International Airport. Together with artworks containing traditional Chinese culture, it was the first in the industry to integrate relaxation with artistic appreciation, carrying forward the spirit of the times, industry culture, and regional characteristics. This marks a

Optimizing customer experience

China Southern adhered to the principle of passenger first, improved its service management capabilities throughout the chain, insisted on responsible marketing, and optimized passenger feedback mechanisms to make passengers more assured during travel.

Responsible marketing

Comprehensively optimizing the ticket refund and change rules. China Southern improved the rules and regulations according to passenger demands and market changes, introduced new refund and change rules of China Southern Airlines, expanded the scope of free ticket refund and change, increased the number of times of free ticket change, strengthened passenger satisfaction and complaint monitoring, formed closed-loop management, continuously improved passengers' travel experience, and made passengers more comfortable during travel.

Adding the flight change warning function. China Southern added the customer involuntary flight change warning function in the user center system so that customer managers could promptly get to know and view the flight changes of local customers and prepare complaint plans and service remedies in advance, thus helping improve customer service efficiency and quality.

Optimizing the feedback mechanism

in 2023[.]

Passenger Satisfaction

(out of 5)[,] net prom

80.98

Customer complaint

99.98

rate in 2023:

China Southern established channels for on-site service evaluation in key service places such as airport ground lounges, with satisfaction callbacks set up for key service links such as customer service hotlines and complaint handling.

hotlines

China Southern established a flexible scheduling mechanism for customer service personnel to enhance their ability to deal with telephone traffic; increased the authorization of front-line customer service personnel and established an authorization list for 35 common ticketing issues; built a global service support center, increasing the one-time issue resolution rate from 60% to 84%.



Pioneering the Pearl Case Lounge Art Space

Establishing channels for on-site service evaluation





Optimizing customer satisfaction indicators

The customer satisfaction survey includes two indicators: the company's overall service quality and net promoter score. According to different customer groups, China Southern investigated the fullchain service scenarios and service nodes, synchronously designed differentiated evaluation questionnaires, and flexibly carried out special evaluations on lounges, luggage, meals, and marketing products. Focusing on monitoring and improving weak points, it aimed to further improve customer experience.



Taking actions to improve the complaint handling system

China Southern established a complaint analysis and evaluation system, improved the process of complaint and public opinion handling, and implemented the accountability mechanism. It strengthened the rectification of key problems and solved 42 problems of various kinds. It effectively reduced the complaint rate by 58.48% on a year-on-year basis.

Ensuring smooth communication through customer service



05

SHARED WARMTH Building a Beautiful Home Together

China Southern gave full play to its platform strengths, helped employees realize their personal values, actively engaged in public welfare undertakings, strove to create a responsible supply chain, enthusiastically participated in industry exchanges, and collaborated with all stakeholders to build a more beautiful homeland.

Responding to the UN 2030 Sustainable Development Goals:





Facilitating employees' achievement of value

China Southern effectively protected employees' legitimate rights and interests, opened channels to facilitate their development, cared for their physical and mental health, and created a more inclusive and open working environment.

Protecting employees' rights and interests

Advocating diversification and equal employment, China Southern continuously improved salary and welfare guarantees, smoothed democratic communication channels for employees, and comprehensively protected the legitimate rights and interests of employees.

Diversified and equal employment

employment and integrated management. China Southern specified that in recruitment, assessment, promotion, career advancement, evaluation and appointment for professional technical positions, enjoyment of welfare benefits, and implementation of the national retirement system, the principle of gender equality was upheld, and the legal rights and interests of female employees were resolutely defended. China Southern perfected its antidiscrimination policies to respect and protect the rights of foreign and minority employees in accordance with the law.

China Southern implemented diversified

China Southern avoided forced labor and prohibited child labor. China Southern strictly adhered to the relevant provisions of the Labor Law of the People's Republic of China, protected the legitimate rights and interests of employees with disabilities, and forbade the use of child labor. It was made clear that if China Southern were to force employees to work by means of violence, threats, or illegal restriction of personal freedom, or if China Southern were to command employees to undertake dangerous operations that jeopardize their safety, employees would have the right to terminate their labor contracts immediately without prior notice.

Salary and welfare

Improving salary structure

China Southern realized equal pay and benefits for equal work, and offered competitive remuneration within the industry, basing compensation mainly on the value of the position, contribution to performance, and the conditions of the labor market. The compensation consists of basic salary, performance bonuses, and other benefits. At the same time, an employee stock ownership plan was implemented. Through implementing employee shareholding in Logistics and General Aviation companies, China Southern achieved diversified shareholding and institutional innovation, effectively attracting, motivating, and retaining key talents that match China Southern's longterm strategic objectives and business development needs.

Comprehensive performance appraisal

Emphasizing positive incentives for talents. China Southern set up a compensation distribution and salary adjustment mechanism closely linked to organizational performance, individual performance, and labor efficiency. It reasonably widened the income gap between employees with different performance outcomes, allowing for the "flexibility" of salary; China Southern strengthened the value contribution orientation in salary distribution, highlighted the precision and effectiveness of salary incentives, and explored medium- and long-term incentive modes suitable for various sectors

Enriching holidays and benefits

China Southern paid the statutory national insurance in full for employees, established supplementary insurance and paid the "seven social insurances and two funds" (including basic endowment insurance, basic medical insurance, employment injury insurance, maternity insurance, unemployment insurance, housing provident fund and enterprise annuity) in full: At the same time. China Southern established supplementary insurance plans, including employee life insurance, supplementary medical insurance, special personal insurance of aircrew, pilot's safe flight insurance. In addition to the public holidays and statutory holidays stipulated by law, employees also enjoyed numerous other leave options such as marriage leave, maternity leave, family visit leave and birthday leave.



Democratic management

China Southern improved its democratic management system, and actively implemented grassroots democratic consultation systems to promote scientific decision-making within the company. By conducting in-depth front-line surveys and implementing the "addressing the real needs of employees" series events, regularly organizing corporate democratic management training sessions, periodically convening the Congress of Workers and Staff, establishing platforms for employees to voice their concerns and submit proposals, as well as establishing a human resources evaluation system, China Southern continued to pay attention to employee demands and evaluations, addressed the concerns of employees, and improved employee satisfaction.

China Southern gave full play to the supervisory role of the trade union, respected and supported the union in protecting the legitimate rights and interests of employees, and facilitated the handling and rectification of identified issues. Contracts such as the *Collective Contract, the Special Collective Contract for the Protection of Female Employees' Rights and Interests and the Special Collective Contract for Labor Safety and Health* were signed with the union regularly, and have been reviewed and filed by the Ministry of Human Resources and Social Security.

Case "Direct Communication" Platform

The "Direct Communication" platform is a mobile-based, one-stop solution offering a 24/7, comprehensive consultation and interaction platform specifically designed for frontline crew. With the philosophy of "immediate resolution on the first ask", this service allows employees to raise questions via mobile devices and receive quick and convenient answers. In 2023, the "Direct Communication" platform replied and handled 5,897 questions from employees. It resolved issues related to employees' necessities such as "clothing, food, housing, transportation and documentation" and optimized certain policies based on employees' feedback. Examples include the construction of a new parking lot near the South Comprehensive Building, the placement of clothes steamers in collaboration rooms, the resolution of issues concerning the "Card Pass" for new crew, and the optimization of FAT grading rules. Initially sparking curiosity and anxiety, the platform has now established trust and brought order. It has alleviated the worries of the crew, enabling them to dedicate themselves to their operational duties with increased ease and assurance.

SHARED WARMTH 💢 Building a Beautiful Home Together !



A total of **1,200** employee representatives were organized to participate

in **167** large-scale, systematic inspections, in which

206 issues have been identified and solved

The Employee's Voice Platform collected over

3,200 employee feedback submissions, with a response rate of

100,



Employee Turnover Rate Data -

1.58%

0.79%

0.16%

0.03%





Note: (The total employee turnover rate data is based on the annual report of China Southern Airlines, excluding Xiamen Airlines and only including contract workers.)

Labor contract signing rate 00.

Social insurance coverage rate for employees

Performance incentive pay coverage rate

Non-remuneration benefit coverage rate (including pensions and retirement benefits):

Note: Both individuals died of sudden death. Improvement measures: 1. Advise employees to pay attention to personal health management and establish health awareness; 2. Provide employees with health and safety lectures to improve health and safety knowledge; 3. Provide annual physical examinations for employees; 4. Encourage employees to take their full leave entitlements to achieve a balance between work and rest.

5



Key Employee Data



59_{person}

Labor dispute

29_{case}

Proportion of female managers at the middle level and above

Average employees' leave **ZZ.O** days

Average working hours per person



Lost days due to work injury

Work-related deaths persons

Propelling employees' individual development

China Southern continuously smoothed staff promotion channels, improved the training system, optimized the faculty, innovated training courses, and provided employees with sustainable development channels and long-term career planning.

Employ	ee training data	Training coverage/ person	Average training hours per person/hour
Dygondor	Male	43201	150.55
By gender	Female	34515	148.62
	Flight	10346	109.28
	Service	35546	277.55
	Management	4639	56.43
	Flight operation	6999	251.71
By employment type	Aircraft maintenance	8105	57.56
5,60	Information	1548	5.25
	Marketing	6162	6.93
	General administration	837	23.06
	Function	3633	37.57

Improving the position management system

According to China Southern's business needs and

talent development plan, China Southern carried

position, focused on key positions such as flight,

marketing and functional posts, further improved

ladder", broadened career development channels,

performance orientation; At the same time, China

Southern provided diversified training and learning

opportunities, including Tsinghua training courses

improvement projects, thereby smoothing the internal

for excellent team leaders, employee academic

promotion channels for employees.

the position management system of a "flexible career

implemented the selection mode of "open competition mechanism for best candidates" and strengthened

out career development evaluations for each

Improving training management

Formulating scientific training plans

According to China Southern's "14th Five-Year Plan" and production plan for that year, taking into account changes in the internal and external environment, China Southern scientifically prepared its annual employment plan around three types of employment demands: "production guarantee, strategic reserve and structural improvement", thus ensuring a sufficient number and reasonable structure of talent team.

Promoting the transformation of training platforms

China Southern improved relevant system procedures, formulated systems such as Course Management Regulations, Course Authorization Management Regulations, Internal Instructor Management Regulations and Platform Management Regulations, and vigorously facilitated the standardization and explicitness of the process; China Southern improved the operational efficiency of the platform and elevated the input-output efficiency of training resources; China Southern improved the system functions, realized the transformation of curriculum management and teacher management statistical reports, and achieved the closed-loop management of the whole process of training projects; China Southern strengthened the operation of digital learning, optimized the construction of online classrooms, and added special courses such as "Purchasing Classroom".

Improving the curriculum system

China Southern implemented its action strategies and the needs of functional departments, organizing course approval and course review; undertook the compilation of CAAC dispatching practice application cases; organized key instructors to compile and revise 11 series courses on air transport services for the disabled; built a safety training course system; The CRM training course obtained the recognition of CAAC, making China Southern the first domestic airline that has passed the supplementary qualification certification of CRM training.







Strengthening the construction of faculty

Promoting skills certification. China Southern organized and implemented 48 sessions of parttime instructor certification training, and recruited more than 270 new instructors of various types, continuously enhancing its faculty.

Encouraging training through competition. China Southern organized its employees to participate in competitions at various levels, ranging from internal competitions to provincial, city, and district events, thereby promoting training through competition and enhancing skills through contests. This also led to China Southern securing multiple collective and individual honors



China Southern's "Employee Mental Health Care" project won the first prize as an Excellent Demonstration Project for Employee Mental Health Services of Guangdong Trade Union

南航工程技术深圳基地机务维修岗位技能认证

南航机务技能认证中心

机务维修岗位技能认证



▲ CSA's Shenzhen Base took the lead in carrying out skill certification





On May 31, 2023, China Southern Maintenance Skill Certification Center was officially established in the Guangzhou Industry-Education Integration Training Base. It is the first maintenance skills certification institution of civil aviation in China. In the future, the Center will continue to refine its certification methods. According to the characteristics of each maintenance organization, it will develop a certification scheme that meets the actual situation, promote the full implementation of skill certification in the maintenance system, and provide a solid talent guarantee for the high-quality development of China Southern's maintenance operations!



SPECIAL PROJECT

Building the "Shared Dream" Together - A National May Day Female Pacesetter's Journey in Pursuing Aircraft Maintenance Dream

Civil Aviation May Day Labor at the Shenyang Base of China Southern's Technology Branch, head of the Power Plant Maintenance Technology and Reliability Management Research Office of CAAC Maintenance Engineering Technology Center, and head



About her dream. Wang Lulu has been striving Wang Lulu and her colleagues completed the first

About the challenge. It was difficult to achieve made continuous attempts. She not only proposed maintenance market, Wang Lulu's friendly and refined service spirit deeply impressed other colleagues.





About her family. In balancing the "big family" and the "small family", Wang Lulu's partner has been very supportive and helped to alleviate many burdens at home. For her daughter's upbringing, Wang Lulu taught by example, not only providing her with a conducive environment for growth but also hoping young age.

About the honor. Wang Lulu said, "It is just a title. possible without the trust and support of leaders of the grassroots staff at China Southern.

Caring for the physical and mental health of emplovees

China Southern adhered to a peopleoriented philosophy, caring for the physical and mental health of employees. China Southern showed special care for key groups such as female employees, drivers, and staff facing difficulties, and carried out a rich array of cultural and sports activities to help employees balance work and life.

A total of

H

and a total of

nnovative EAP

FΔP

activities such

nouseholds

as "Double-aircrew Family

Care Camp" and "Double-

China Southern provided a

hours of

consultations for

professional psychological

counseling services, with a

cumulative total of

Atmosphere", with

participating

total of

aircrew Family · Happy Family

specialist courses were held,

lists were trained

total of

56

Paying attention to the mental health of employees



China Southern provided dedicated psychological counseling services for all employees, set up psychological care studios, and continued to do a good job in EAP. All departments innovatively trained EAP specialists to encourage managers to properly apply psychological concepts and methods to daily management.

Various activities were carried out for employees, such as EAP online lectures on "Positive Attitude and Happy Life", offline psychological knowledge experience courses on "Psychological Awareness and Self-Growth Journey", psychological empowerment themed "Nourishment of Sound" and one-to-one expert consultation in the "Psychological Examination Month".

China Southern comprehensively deepened the brand power of the "Flying Together, Heartfelt Connections" care project for double-aircrew families and built a platform for aircrew families and working couples to enhance emotional exchanges through psychological courses, group coaching, and seminars, so as to promote the construction of happy families in China Southern.

Paying attention to the health of employees



Carrying out special health activities

During the peak production season, China Southern conducted blood pressure measurements for key groups such as drivers on the apron and equipped them with health bracelets. Through a combination of online and offline formats, China Southern provided employees with lectures on the prevention of cardiovascular and cerebrovascular diseases, ensuring the health of the drivers. Aircrew sports and health improvement activities were launched in Guangzhou, and aircrew fitness competitions were organized around major aircrew units such as the Flying Corps, Cabin Department and Aviation Security Department to improve the physical fitness of key groups.



Providing free medical services

During the Spring Festival, China Southern cooperated with the School of Traditional Chinese Medicine to carry out free TCM treatment activities for employees; during the peak season of the summer travel rush, experts on common diseases in the hospital were invited to provide health consultation and publicize medical insurance policies for employees. Free Sanfutie service was also provided for employees.

Caring for female employees

China Southern launched a series of activities themed "Female Employees' Innovation Action Month", publicized and popularized knowledge about labor safety and health of female employees, carried out knowledge competitions on the protection of rights and interests of female employees, conducted special inspections on labor protection of female employees, provided special gynecological physical examinations for female employees of childbearing age, organized a series of recreational and sports activities for female employees on March 8, smoothed communication and feedback channels for female employees, and comprehensively safeguarded their legitimate rights and interests and special interests.

Carrying out rich recreational and sports activities

happiness.



▲ Basketball Tournament of 2023 China Southern Staff Cultural and Sports Season

Providing assistance for employees with financial difficulties

China Southern actively fulfilled the duty of caring for employees in difficulty, carried out targeted assistance and relief work for employees in difficulty, paid special attention to employees in difficulty when providing warmth and cold relief, and did a good job in mutual assistance for employees with major illnesses and the compassionate aid for laborer workers. China Southern continued to implement the "two funds" support and achieved a reduction in the number of employees with difficulties.





▲ China Southern employees attend the 13th National Women's Congress

China Southern continuously organized employees to participate in cultural and sports activities, and successively held recreational and sports competitions such as basketball games, badminton games, football matches and intellectual competitions to promote the physical and mental health of employees, enrich their cultural life and improve their



▲ "China Southern Omnimedia Cup" Staff Hosting Competition

The number of employees in difficulty on record was a reduction of

compared to the previous year

and consolation visits were made to employees in difficulty

million was distributed to

A total of RMB

856 employees, including

mutual aid funds for major diseases and labor relief funds

Dedicating to social responsibility

China Southern engaged in a variety of social responsibility activities, leveraging its foundations dedicated to public welfare, brand strength, and industry position to provide educational aid, promote cultural heritage, support community development, and continuously express its compassion and commitment to society.



▲ 湖南分公司前往帮扶村开展航空知识进校园活动

Cooperating in public welfare initiatives

China Southern Airlines "Ten-Cent" Caring Foundation pursued diverse collaborative efforts and expanded external exchanges and communication, enhancing the brand's influential commitment to societal responsibilities and expanding the reach of its welfare initiatives.

Partnering with the Beijing Dekang Foundation, the "Ten-Cent" Caring Foundation allocated RMB 3.574 million of its own funds and sourced RMB 9.38 million through donations to acquire 13 imported medical devices amounting to RMB 12.954 million. These devices were donated to the Pishan Maternity and Child Healthcare Station in Xinjiang Uygur Autonomous Region to boost local healthcare service standards.

The Foundation joined forces with the Guangdong **Charity Federation** by contributing RMB 1 million to bolster an aid program in Shaoguan City, managed by the Guangdong Foreign Affairs Office and its affiliated entities.

The Foundation collaborated with the Xinjiang Public Security Martyrs Foundation to donate RMB 1 million, primarily assisting civilian police assistants who suffered or fell in the line of duty while fighting crime and enforcing policies and their families, thus contributing to stability region and societal progression in this border region.

The Foundation responded to the needs of the State Administration of Taxation by donating RMB 300,000 to their rural revitalization project in Dingbao Township, Xinyi City, Guangdong Province.

Educational support activities

China Southern supported students in selected regions in their aspirations with regard to university entrance examinations, conducting regular "Education for Rural Revitalization" initiatives.

> **Empowering 56 Students to Pursue Higher Education Dreams**

On August 25, 2023, through the "Interviewing, Benefiting, Garnering" program, China Southern focused on educational aid and student support and organized a send-off event "Live Up to Your Dreams and Build the Future" for college-bound students in a village in Pixina Township, Pishan County. China Southern seized the opportunity to actively know students' family information and inform students and their families about national educational support policies, such as scholarships, student subsidies, the Dewdrop Project, and loans. At the same time, China Southern presented them with celebratory items including a large red flower, a backpack, and luggage, arranged a celebratory cake, and offered students interested in volunteering positions within the village committee. These holistic and heartfelt supports aim to facilitate students' transition into higher education, providing them the impetus to pursue their university aspirations.

Celebration for University-Bound Students



SHARED WARMTH 🛒 Building a Beautiful Home Together | 97

"I want to express gratitude on behalf of all the 2023 graduates to the China Southern "Interviewing, Benefiting, Garnering" team for arranging our farewell party. We are inspired to become valuable contributors to our country, society, and families."

> —A student admitted to Xinjiang Normal University



"My child's university acceptance is a testament to the nurturing by the Party and nation, and we are deeply thankful. To my child, I say this: embark on this new chapter of life with gratitude and study hard to give back to society and our hometown."

-A parent representative

Enhancing traditional culture awareness

China Southern crafted thematic experiences centered on traditional culture and festive occasions, initiating series such as "Poetic Captain," "Mid-Autumn Festival on the Plane," and "Chaozhou Opera on the Flight" to foster an appreciation for traditional culture. Moreover, China Southern adorned aircraft with vibrant liveries, showcasing the "China-ASEAN Expo" and the "Hainan Island International Film Festival," as mediums to disseminate Chinese culture far and wide.

Collaborating on Intangible Cultural Heritage-themed Activities

On June 7, 2023, coinciding with the "Cultural and Natural Heritage Day," China Southern Airlines Shanto, together with the Shantou Culture Museum, orchestrated a distinctive intangible cultural heritage event titled "Intangible Cultural Heritage Aloft - Chaozhou Opera." On the first floor of China Southern Pearl Lounge, passengers were offered the chance to try Chaozhou Opera headgear. Inside the cabins enlivened with posters featuring guintessential Chaozhou Opera characters: Sheng, Dan, Jing, and Chou, passengers were gifted with informational cards, photo frames, and culturally inspired creative products from China Southern Airlines. Participants also enjoyed Chaozhou Opera quizzes and insightful narrations from esteemed artists in the genre. This coalescence of aerial and terrestrial experiences offered passengers an intriguing brush with the national intangible cultural heritage—Chaozhou Opera and its related artifact—headgear. By curating immersive interactions, China Southern effectively drew traditional Chinese culture closer to passengers. This initiative stands as a testament to the airline's dedicated effort in aiding the preservation and continuation of intangible cultural heritage.

Engaging with overseas communities



Fostering cross-cultural synergy abroad

China Southern strategically facilitated over 200 interactive events across overseas offices, deeply integrating cultures in regions such as New Zealand and Australia. China Southern's commitment to sharing the narratives of both China and China Southern has garnered appreciation from customers, enhancing the airline's social responsibility and brand reputation.

Case Nurturing Cultural Roots for Chinese-Australian Youth

The Sydney office recognized the strong interest amongst the Chinese-Australian youth in exploring and experiencing the heritage and customs of their ancestral lands. However, as raised in Australia, their access to such cultural explorations was quite limited. As a central enterprise, China Southern should be not only committed to connecting cities between China and Australia but also forging cultural and amicable ties. Therefore, from July 3 to 14, 2023, the Sydney office, in collaboration with the local Yucai Chinese School and the Returned Overseas Chinese Association of Chongqing Yuzhong District, organized a summer camp that enabled young Chinese-Australians to embark on a voyage to China to reconnect with their heritage. There, they visited Chongqing and Chengdu,





along with landmarks like the Dujiangyan Irrigation System, Leshan Giant Buddha, Wuhou Temple, Jiezi Ancient Town, Hongyadong, Yangtze River Cableway, Chongging Three Gorges Museum, and Chongging Science and Technology Museum. These sites showcased the rich local historical culture and China's swift modern advancements, instilling a sense of pride in their ancestral country. Post-camp, the Sydney office leveraged social media platforms such as Xiaohongshu, Instagram, and Facebook for the promotion, while the Chinese school posted 11 consecutive articles on its WeChat official account, bolstering the social impact and attracting inquiries from locals keen on future participation.



Engaging in volunteering abroad

China Southern actively engaged in overseas public welfare projects and organized charity teams of employees to participate in local public welfare activities, contributing to the construction of local communities.

Supporting Ronald

China Southern committed itself to the Ronald

for three years in a row, providing a comforting

hospital for families with unwell children who

need to travel for medical care. At the same

McDonald House for such families voluntarily,

inviting such children's siblings to participate,

thereby offering warmth and companionship

time, China Southern's staff also dedicated

their time to cooking meals at Ronald

to children displaced by illness.

McDonald House Charities New Zealand. having sponsored the "China Southern Room"

haven only a few minutes away from the

McDonald House

Charities



On November 4, 2023, China Southern Airlines Phnom Penh office extended its social responsibility as a multinational business by working with the Yilu Public Welfare Foundation and the China Medical Aid to Cambodia Team in visiting the Arek Tnort Elementary School in the Steung Trang District, Kampong Cham Province, Cambodia. Together, this volunteer team delivered donations such as backpacks, water cups, stationery, and aircraft models, alongside furnishing the villagers with complimentary health services, allowing the friendship between China and Cambodia to flourish alongside the smiles of the children.

▼ Volunteer Team and Local Students



Working with partners for win-win results

China Southern diligently cultivated a responsible supply chain, actively refining supplier management practices, bolstering industry growth across various sectors, and collaborating with stakeholders toward a shared, prosperous future.

Building a responsible supply chain

China Southern was dedicated to reinforcing supplier management, mitigating supply chain risks, engaging in responsible procurement, and enhancing supply chain management competencies, aiming to develop a responsible supply chain in concert with stakeholders.

China Southern suspended dealings with 4 suppliers with serious breaches and discredit

supplier going out of business

Mitigating supply chain risks

During procurement processes, China Southern mandated that suppliers maintain commendable business integrity and a robust financial accounting framework, without any orders to cease operations, or histories of asset confiscation, seizure, detention or bankruptcy, and they must demonstrate solid performance and capacity for accountability. China Southern encouraged suppliers to execute their social responsibilities and avoid inclusion in any "list of companies with serious breaches and discredit (blacklist)" in operations.

China Southern adjusted the on-site assessment method; during project evaluations, the staff and procurement owner's representatives did not enter the site, preventing any potential influence on the jury's independent decision-making and mitigating integrity risks in procurement. China Southern improved the on-site management process by systematizing 33 norms for the on-site operations in the procurement process, persistently overseeing and rectifying adherence, thus delivering efficient and compliant procurement operations and professional, dependable services to all divisions.

> China Southern enhanced individuals' ethical consciousness via education on the importance of integrity to mitigate supply chain risks. China Southern thoroughly reviewed the entire business workflow to identify potential integrity risk areas. In addition, China Southern developed and determined strategies for risk prevention and control, incorporated these measures into documented procedures and business operations, and established a sustainable mechanism for ongoing risk management. In 2023, 48 risk points were identified.



delisted registered suppliers

updated the list of restricted trading suppliers to include violating

uppliers

Adhering to responsible procurement

China Southern

dispatched four

teams totaling sixteen

individuals

the third team clinched

the first prize

while our first, second, and

fourth teams each secured

Accelerating the development of

specialized talent. China Southern placed a strong emphasis on nurturing special talents for supply chain and improved their prowess in supply chain management through online courses and targeted training programs. In April 2023, 37 employees of China Southern achieved certification as Supply Chain Management Professionals (SCMP). They are the first group of supply chain management experts at China Southern. Enhancing green procurement process. The Procurement Management Regulations were updated to include new clauses that favor environmental sustainability and encourage the purchase of green products. In alignment with the requirements within the civil aviation industry and cognizant of the current use of plastic products, China Southern amended and implemented the Management Standard for Prohibition and Restriction of China Southern Airlines Disposable Plastic Products, aiming to establish a green supplier network in the future.

Participating in the National Supply Chain Competition



On September 26, 2023, China Southern proudly debuted four teams at the finals of the 4th National Supply Chain Competition (Business Group) held in Xiamen, where a hundred teams competed. These teams, comprised entirely of our certified supply chain management professionals, underwent rigorous preparation prior to the competition and exuded confidence throughout the competition, demonstrating not only the professional poise of China Southern's staff but also the solidarity inherent in teams. Their performance is indicative of the robust talent available to support China Southern Group's ongoing evolution in supply chain management.

▼ The 4th National Supply Chain Competition (Business Group)



Supplier management

Refining rules and regulations. The Supplier Management Measures serve as a foundational manual for executing supplier oversight at China Southern, paired with a comprehensive procurement handbook comprising the overarching *Procurement Management* Policy and three specific procedures: Procurement Management, Procurement Implementation, and Procurement Risk Control. China Southern continuously focused on fortifying the supplier management system, standardizing management procedures, and defining entry criteria, categorization, application, assessments, and ratings for suppliers to mitigate supply chain risks while fostering a stable and proficient supply chain and a well-functioning supplier network.

Improving the category management framework.

In 2023, leveraging category management as a key starting point to construct a category management framework centered on "scientific management, innovation-driven value creation, green and lowcarbon operations, and collaborative growth," China Southern comprehensively drafted and finalized management strategy reports for 17 distinct categories including rice, noodles, oil, air conditioning units, and office essentials and courier services in accordance with the characteristics of existing centralized procurement categories. With the approval of the Procurement Management Committee, 11 categories were selected for pilot implementation, propelling forward the transformation of our corporate procurement and supply chain management.

Perfecting supplier selection criteria. China Southern developed and refined the supplier selection criteria for each category of supplies, conducted inspections in three stages—factory inspections, optimization processes, and delivery for production to achieve circular quality management, and carried out supplier evaluations based on inspection results.

Implementing supplier performance evaluations. With a clear focus on "business, technology, delivery, quality, and service," China Southern dynamically evaluated suppliers across different project implementation stages—contract execution, acceptance check, payments, and after-sales service-leveraging informational technologies for a thorough assessment to reinforce the supplier "quality profile."





Economic contract performance rate

6 included in the "list of companies with serious breaches and discredit (blacklist)"

Instituting supplier tiered governance. Balancing supplier grievances, incentive and penalty management, restricted supplier management, and supplier activity and performance management, suppliers were categorized into tiers: excellent suppliers, qualified suppliers, registered suppliers, restricted suppliers, and prohibited suppliers, encouraging collaboration with outstanding suppliers.

Facilitating supplier capability enhancement.

Through diverse communication methods like on-site meetings, web presentations, online surveys, and text messaging, China Southern engaged with suppliers. China Southern's procurement and tendering website released an advisory piece titled "Bid Misrepresentation, What Penalties Apply," while in-person sessions meticulously delineated the registration steps and precautions for suppliers, aiming to boost their response efficiency, foster their awareness of integrity in collaboration, and advocate for their continuous development of supplier competency, all towards the objective of establishing an open, equitable, and just transactional atmosphere.

- Central South China: 16315 Northeast China: 4202 East China: 4320 North China: 4955 Northwest China: 2101 Southwest China: 2046
 - Outside the Chinese mainland: 289

Facilitating industry development

China Southern was involved in widespread collaborations, taking a participatory role in industry dialogue, promoting the fusion of industry with education, and establishing vital strategic alliances with third parties to collectively propel the industry forward.

Engaging in industry dialoques

China Southern was zealous in contributing to various industry events and proactively initiated platforms for dialogue to bolster intersectoral exchange and cooperation.

Involvement in the 15th International Exhibition Case on Transport Technology & Equipment

Concurrently with the First Global Sustainable Transport Forum from September 25 to 26, 2023, at the China National Convention Center in Beijing, the 15th International Exhibition on Transport Technology & Equipment took place. China Southern was a prominent participant, featuring a separate booth with the "Dual Carbon Goals-driven, Green Flight" theme, segmented into four zones focusing on green development, smart maintenance, smart operations, and flight technology. The exhibition highlighted over ten exhibits representing green development and technological innovations, fully showcasing China Southern's green, low-carbon, and innovation-driven development concepts.



▲ Visitors Engaging with Our Exhibition

▼ China Southern Area at the CATA Aviation Conference



Presence at the First CATA Aviation Conference



From November 3 to 5, 2023, the first "CATA Aviation Conference" guided by CAAC and hosted by China Air Transport Association (CATA) was held at China National Convention Center. China Southern was invited to participate in all units of the conference. Booths were set up to showcase our achievements in scientific and technological innovation, safety management, brand service, green development, marketing, and various industrial sectors in recent years. Visual systems, VR training, smart workshops, etc. were set up at the event site. A series of activities such as tea art performances, uniform shows, and joint uniform shows were also carried out to comprehensively display our brand image and vivid practices that contribute to the high-quality development of civil aviation.

Hosting the First Zhuhai-Macao Air Travel Ecosystem Construction Summit Forum

Hosted by China Southern Airlines Zhuhai, the First Zhuhai-Macao Air Travel Ecosystem Construction Summit Forum was held at the Zhuhai International Convention & Exhibition Center on March 31, 2023. Themed "Discussing Air Travel Ecosystem and Crafting Zhuhai and Macao Narrative Together," the forum concentrated on the core topic "Revitalizing Air Travel in Zhuhai and Macao and Developing the Ecosystem." An invitation was extended to build the Zhuhai-Macao air travel ecosystem collectively. Representatives from universities, industry associations, and businesses engaged in discussions on leveraging Zhuhai's geographical assets to strengthen the city's aviation and tourism industries.





Deepening the integration of industry and education

workshops for MoE's practice-based training program for vocational teachers

Releasing product manuals.

By organizing training materials and standardizing product offerings, China Southern assembled a product directory in three sections: branded courses, branded programs, and other services.

Broadening industryfocused training. Capitalizing on the strengths of the aviation professional skills training regime, China Southern broadened the clientele within the industry, forging enduring collaborative

bonds with corporate entities like SF Airlines, Air Central, 9Air, Air Travel, and China Postal Airlines.

Securing strategic collaborations



On February 23, 2023, China Southern Air Logistics signed a strategic cooperation contract with Jiayou Exp. The agreement commits both organizations to intensify their strategic partnership and together supply consumers with bespoke, direct logistics and transport solutions from China to all regions across Canada, thereby enhancing China-Canadian trade relations. This partnership signifies an active effort by China Southern Air Logistics to align with the goals outlined in CAAC's 14th Five-Year Special Plan for Air Logistics Development and a significant move towards boosting international air freight capabilities and facilitating domestic and international circulations.



Signing Ceremony for Strategic Cooperation

China Southern completed

CATA training

9

practical lessons to tudents from Zhengzhou University of Aeronautics essions

Fostering varied cooperation.

China Southern advanced the development of the training base and improved its usage rate. The training base has been recognized as a model for industryeducation integration training bases in Guangzhou. By routinely assigning instructors to engage in professional seminars at colleges and universities under joint programs, China Southern facilitated resource sharing, co-development of programs, and a mutually prosperous partnership.

Commencing featured training courses. China Southern arranged and conducted general aviation education study tours, offered distinctive training to entities such as China Southern Power Grid. Guangzhou Tobacco. China Merchants Bank, and China Construction Bank, rolled out an array of "training + advisory" services, and delivered a comprehensive "training + mentoring + evaluation" package for the Beijing Branch of China Merchants Bank.

Outlook

Looking ahead to 2024, China Southern will unite more closely around the CPC Central Committee with Comrade Xi Jinping at its core. China Southern will share the same goal, undertake responsibilities with resolve, forge ahead, overcome seven challenges, and complete all objectives and tasks throughout the year. China Southern will firmly hold the bottom line of safety, enhance market core competitiveness, consolidate and improve leading advantages in operation, improve operation quality, and build a first-class service brand. In addition, China Southern will practice the concept of green and low-carbon development, actively contribute to society, continuously pursue high-quality development, and steadily become a world-class enterprise. Through these efforts, China Southern will strive to significantly contribute to advancing the nation's strength and supporting the grand vision of national revitalization in the modernization process!

the

DREAMUNER

B-27725 1111 1111 E HULHANNASOUTHERN



List of Policies and Regulations

ESG indicator	Internal Policies of 2023	Compliance with Laws and Regulations in 2023	ESG indicator	Internal Policies of 2023	Compliance with Laws and Regulations in 2023
A1 Emissions A2 Use of resources	Management Measures for China Southern Flight Carbon Emission Data Monitoring, Reporting and Verification Pollution Prevention and Control Work Plan of China Southern Group Energy Conservation and Emission Reduction Management Manual Business Process of Energy and Environmental Protection Management Work Plan for Plastic Pollution Control of China Southern Group from 2021 to 2025 Management Standard for Prohibition and Restriction of China Southern Airlines Disposable Plastic Products China Southern Group Emergency Management Plan for Environmental Emergencies	Water Pollution Prevention and Control Law of the People's Republic of China	B5 Supply chain management	Supplier Management Measures Management Measures for Video and Audio Data of Bidding Monitoring Procurement Management Manual Implementation Rules for Confidentiality of Procurement Information Code for Practice with Integrity of Employees Manual of Procurement Management Department (Import and Export Trading Company) Notification on the System of Restricted List of Suppliers Honest Cooperation Agreement Integrity Commitment of the Bidder Procurement Risk and Internal Control Management Provisions	Bidding Law of the People's Republic of China Regulation on the Implementation of the Bidding Law of the People's Republic of China Government Procurement Law of the People's Republic of China
A3 The environment and natural resources	Guidance on Comprehensively Strengthening Ecological and Environmental Protection Work Plan for Green Development of China Southern Group	Law of the People's Republic of China on Prevention and Control of Environmental Pollution by Solid Waste Interim Measures for the Administration of Monitoring, Reporting and Verification of Carbon Dioxide Emissions from Civil	B6	Security Audit Manual Regulations on Management of Dishonesty Regulations on Supervision and Management of Cockpit Sound Regulations on the Administration of Comprehensive Smoking Ban on Aircraft Flight Technology Management Manual	Civil Aviation Law of the People's Republic of China Operations Certification: Large Airplanes
A4	Notice on Strengthening Charging Management of New Energy Vehicles Emergency Response Plan for Accidents of New Energy Vehicles Notice on Further Controlling of APU Service Time Notice on Promoting the Implementation of the Work Flow of Optimization and Guarantee of Ground Power Supply and Air Conditioning Equipment	Aviation Flight Activities Work Plan for Control of Plastic Pollution in the Civil Aviation Industry (2021–2025)	Product responsibility	Pilot Training Program Operation Manual Aviation Health Management Manual Aircraft Public Health Manual Emergency Control Plan for Public Health Emergencies	Air Carrier Rules for Certification of Civil Aircraft Pilots
Climate change	Work Plan for Green Development of China Southern Group Report on China Southern Group's Carbon Peak, Carbon Neutralization Goal and Realization Path Detailed Rules for the Implementation of Special Work Assessment on Energy Conservation and Ecological Environment Protection Green Development Targets and Implementation Plan of China Southern Group (2023-2025)			Regulations on Regulating Weddings and Funerals of Leading Cadres in China Southern Group Administrative Measures for Incorruptible Government Archives of Leading Cadres of China Southern Group Notice on Publishing the Reporting Methods of Letters and Visits Objectives and Measures for Avoiding Formalism and Bureaucracy to Alleviate Burden on Grassroots in 2021	
B1 Employment	Regulations on Labor Contract Management Regulations on Labor Dispatch Management	Labor Law of the People's Republic of China Labor Contract Law of the People's Republic of China Regulation on the Implementation of the Labor Contract Law of the People's Republic of China		Work Arrangement for Reducing Burdens at the Grassroots Level by Further Solving the Problem of Formalism Opinions on the Steps of Cleaning up and Standardizing the Company's Discussion and Coordination Organs Provisions on the Establishment of the Group's Discussion and Coordination Organs Supervision Measures for the Group's Implementation of the Spirit of the Party's Eight- point Frugality Code Management Measures for the List of Actions for Exemption	Criminal Law of the People's Republic of China Company Law of the People's Republic of China Law of the People's Republic of China on
B2 Health and safety	General Emergency Management Plan of China Southern Air Holding Company Ltd. Guidance on Style Construction of Safety Practitioners of China Southern Airlines Standard Code of Conduct for Pilots of China Southern Airlines (Flight Operation)	Labor Law of the People's Republic of China Law of the People's Republic of China on Prevention and Control of Occupational Diseases Civil Aviation Law of the People's Republic of China Law of the People's Republic of China on Work Safety Emergency Response Law of the People's Republic of China Anti-Terrorism Law of the People's Republic of China Fire Control Law of the People's Republic of China	B7 Anti- corruption	Notice on the Change of the Acceptance Channel of Disciplinary Inspection, Supervision and Letters, Visits and Whistle-blowing of China Southern Group Regulations on Discipline Inspection Suggestions and Supervision Suggestions of China Southern Group Measures to Strengthen the Construction of Integrity Culture in China Southern Group Guidance on Fault Tolerance and Exemption of Discipline Inspection and Supervision Institutions of China Southern Group Procurement Supervision Measures of China Southern Group Implementation Rules for the Commission for Discipline Inspection to Carry out the Responsibility of Supervising the Construction of Party Conduct and Clean Government Code for Practice with Integrity of Employees Integrity Risk Prevention and Control Process Regulations on Anti-commercial Bribery Compliance Management Guidelines on Anti-commercial Bribery Compliance of the United States	Anti-money Laundering Law of the People's Republic of China Against Unfair Competition Interim Provisions on Prohibition of Commercial Bribery Anti-Monopoly Law of the People's Republic of China Regulation on the Implementation of the Bidding Law of the People's Republic of China Supervision Law of the People's Republic of China
B3 Development and training	China Southern Airlines Training Master Plan (2018–2025)			Guidelines on Anti-commercial Bribery Compliance of the United Kingdom Guidelines on Anti-commercial Bribery Compliance of Canada Guidelines on Anti-commercial Bribery Compliance of Australia Guidelines on Anti- commercial Bribery Compliance of New Zealand Guidelines on Anti-commercial Bribery Compliance of the European Union	
B4 Labor code	Special Collective Agreement for the Protection of the Rights and Interests of Female Employees Regulations on Honor Recognition Management Employee Punishment Regulations List of Typical Negative Behaviors of Employees Management Measures for Employees' Sick Leave Management Measures for Employees' Leave Management Measures for Employees' Post-waiting Internal Talent Market Management Measures	Labor Law of the People's Republic of China Provisions on the Prohibition of Using Child Labor Law of the People's Republic of China on the Protection of Minors	B8 Community Investment	Guidelines on Anti-commercial Bribery Compliance of the United Nations Guidelines on Anti-commercial Bribery Compliance of the United Nations Implementation Opinions on Further Strengthening Voluntary Services of China Southern Notice on the Establishment of China Southern Group Volunteer Service Steering Committee China Southern Voluntary Service Management Measures Constitution of China Southern Airlines 'Ten-Cent' Caring Foundation	Charity Law of the People's Republic of China

Performance Data

SG indicators		Unit	2021	2022	2023
A. Environr	nental				
A1 Emissior	15				
	CO ₂ emissions (Scope I) ^{1, 2}	10,000 tons	1910.86	1432.75	2569.62
	CO ₂ emissions (Scope II) ^{1, 2}	10,000 tons	13.52	17.19	20.32
A1.2	CO ₂ emissions ^{1, 2}	10,000 tons	1924.38	1449.90	2589.94
	CO ₂ emissions per ton-kilometer	Ton/10,000 ton-kilometers	8.98	8.72	8.61
A1.3	Hazardous waste (maintenance)	Ton	704.903	916.73	2451.4
	Waste gas treatment (maintenance)	10,000 m ³	26080	36000	30240
	Industrial wastewater treatment (maintenance)	Ton	12987.0	10881	10993.2
A1.6	Treatment of aviation food production wastewater	10,000 tons	9.3	6.64	10.28
	Treatment rate of aviation food production wastewater	%	100	100	100
	Hazardous waste treatment rate (maintenance)	%	100	100	100
	Non-hazardous waste treatment rate (onboard service)	%	100	100	100
A2. Resourc	e consumption				
	Aviation fuel consumption	10,000 tons	605.31	453.34	813.84
	Fuel consumed per ton-kilometer	Ton/10,000 ton-kilometers	2.85	2.77	2.73
	Gasoline	Ton	3452.12	2684.53	3128.89
A2.1	Diesel	Ton	6384.37	4969.15	6905.80
	Electricity	10,000 kWh	25651.38	29580.77	35621.80
	Natural gas	10,000 m ³	930.83	1064.829	1310.581
	Liquefied gas	Ton	215.68	146.27	240.92
A2.2	Total water consumption	10,000 tons	477.97	528.33	598.39

SG indicato	rs	Unit	2021	2022	2023
A2.2	Water consumption intensity ³	m ³ /RMB 10,000	0.4703	0.6231	0.359
B. Social					
B1. Number of I	Employees: by gender, type of employme	ent, age group, and region			
B1.1	Total workforce	Person	98098	97899	9946
Candar	Male	Person	58893	59160	6056
Gender	Female	Person	39205	38739	3890
	Guangzhou	Person	25167	23658	2406
Region	Domestic (excluding Guangzhou)	Person	72029	73472	7450
	International	Person	902	769	90
	Master's degree and above	Person	4283	4361	47
Education	Bachelor's degree	Person	52160	52296	551
background	Junior college	Person	28201	26982	2630
	Senior high school and below	Person	13454	14260	132
	<30	Person	38941	35226	339
	31-40	Person	35113	37015	3838
Age	41-50	Person	17985	18684	195
	>50	Person	6059	6974	76
B1.2	Employee turnover rate	%	4.58	3.62	2.
	Female	%	/	/	1.
Gender	Male	%	/	/	1.(
	Guangzhou	%	/	/	0.8
Region	Domestic (excluding Guangzhou)	%	/	/	1.0
	International	%	/	/	0.2

ESG indicators		Unit	2021	2022	2023
	<30	%	/	/	1.58
	31-40	%	/	/	0.79
Age	41-50	%	/	/	0.16
	>50	%	/	/	0.03
B2 . Health a	and safety				
	Work-related deaths ⁴	Person	1	3	2
B2.1	Proportion of employees died at work	%	0.0010	0.00306	0.00201
B2.2	Lost days due to work injury	Working day	12839	12839.5	1096
B3. Developr	ment and training				
	Proportion of trainees: by gender				
	Total number of trainees	Person	81253	78362	77716
B3.1	Male	Person	46879	44682	43201
	Female	Person	34374	33680	34515
	Average training hours of employee	s: by gender			
B3.2	Average training hours of employees	Hours	74.57	219.12	149.48
DJ.Z	Male	Hours	81.65	284.10	150.55
	Female	Hours	63.54	132.91	148.62
B5. Supply c	hain management				
	Number of suppliers: by region				
	Total number of suppliers	Nr.	21636	29270	34228
B5.1	Central South China	Nr.	10368	11898	16315
	Northeast China	Nr.	2315	3690	4202
	East China	Nr.	3130	4668	4320

ESG indicators		Unit	2021	2022	2023	
	North China	Nr.	3248	3799	4955	
B5.1	Northwest China	Nr.	1271	3059	2101	
B0.1	Southwest China	Nr.	1082	1915	2046	
	Outside the Chinese mainland	Nr.	222	241	289	
B6. Product I	B6. Product responsibility					
B6.2	Number of complaints received about products and services					
D0.2	Complaint rate	‰	0.4394	2.65	0.589	
B8. Commun	ity investment					
	Resources used in the focus area					
B8.2	Number of volunteer service participants	Person-time	18000	25000	13000	
	Working time	10,000 hours	1.8	7.7	4	

Note: Unless otherwise specified, the data coverage of this report is consistent with that of the 2023 financial report of China Southern. 1. Carbon dioxide emission factors and calculation methods refer to "Comprehensive Statistical Reporting Form System on Civil Aviation" (average carbon dioxide emission factors of China's regional power grid in 2011 and 2012); 2. Scope I carbon dioxide emissions are direct emissions from aviation kerosene, gasoline, diesel oil, coal, natural gas, and liquefied gas; Scope II carbon dioxide emissions are indirect emissions from the generation of purchased energy. Carbon dioxide emissions = Scope I carbon dioxide emissions + Scope I carbon dioxide emissions + Scope II carbon dioxide emissions;

Water consumption intensity = total water consumption/operating revenue.
 Both of them died suddenly. We have made a deep reflection on such incidents. We will avoid such incidents by reminding employees to pay attention to personal health management, establishing employees' health awareness, providing employees with annual physical examinations, encouraging employees to finish their holidays, and achieving a proper balance between work and rest.

Index of Indicators

ESG Index of Indicators

Main Categ	ory	Content	Location
A. Environment	al		
	General Disclosure	Information on: (a) policies on ; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer, relating to exhaust and greenhouse gas emissions, pollution to discharges into water and land, and generation of hazardous and non-hazardous wastes, etc.; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer.	P58, P65-67, P108
	A1.1	The types of Eemissions and Related Emission Datarespective emissions data	P58-59, P65-67, P110
	A1.2	Direct (scope 1) and energy indirect (scope 2) GHG emissions (in tons) and (if applicable) density (e.g. per unit of production, per facility)	P110
Aspect A1: Emissions	A1.3	Total amount of hazardous waste generatedproduced (in tonnes) and (if applicable) density, where appropriate, intensity (e.g. per unit of production volume, per facility).	P110
	A1.4	Total amount of non-hazardous waste generatedproduced (in tonnes) and, if applicablewhere appropriate, intensity (e.g. per unit of production unitvolume, per facility).	P110
	A1.5	Description of emission targetstarget(s) set and the steps taken to achieve them.	P60
	A1.6	Description of how hazardous and non-hazardous wastewastes are handled, and the wastea description of reduction goalstarget(s) set and the steps taken to	
	General	achieve these goalsthem. Policies foron the efficient use of resources (, including energy, water and other raw materials).	P58
		Direct and/or indirect energy consumption by type (e.g. electricity, gas or oil) (by	
	A2.1	type) consumption (calculated in thousands of kilowatt hourstotal (kWh in '000s) and dintensity (e.g. per unit of production volume, per facility).	P110
Aspect A2:	A2.2	Water consumption in total and dintensity (e.g. per unit of production volume, per facility).	P110-111
Use of resources	A2.3	Description of energy use efficiency goalstarget(s) set and the steps taken to achieve them.	P60
	A2.4	Description of whether there is any issues that may ariseissue in obtaining the applicablesourcing water sources, thethat is fit for purpose, water use efficiency objectivestarget(s) set and the steps taken to achieve these objectivesthem.	P62
	A2.5	Total packaging materials used in thefor finished products (in tonnes) and, if applicable, the percentagewith reference to per production unit produced.	N/A
Aspect A3: The environment	General Disclosure	Policies on minimising the issuer's significant impacts on the environment and natural resources.	P65-67
and natural resources	A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them.	P61-67

Main Catego	ory	Content	Location
Operating pract	ices		
	General Disclosure	Policies on managing environmental and social risks of the supply chain.	P109
	B5.1	Number of suppliers by geographical region	P103, P112
Aspect B5: Supply Chain Management	B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, and how they are implemented and monitored.	P103
5	B5.3	Description of practices used to identify environmental and social risks along the supply chain, and how they are implemented and monitored.	P101-103
	B5.4	Description of practices used to promote environmentally preferable products and services when selecting suppliers, and how they are implemented and monitored.	P101-103
	General Disclosure	Information on: (a) policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer, relating to health and safety, advertising, labelling and privacy matters relating to products and services provided and methods of redress.	P83, P109
	B6.1	Percentage of the total number of products sold or delivered that needshipped subject to be recoveredrecalls for safety and health reasons.	N/A
Aspect B6: Product	B6.2	Number of products and service related complaints received about products and services and how to dealthey are dealt with them.	P83, P113
Responsibility	B6.3	Description of practices relateding to the maintenanceobserving and protection of protecting intellectual property rights.	P40
	B6.4	Description of quality verificationassurance process and product recovery procedurerecall procedures.	N/A
	B6.5	Description of consumer data protection and privacy policy, as well as the relevant implementationpolicies, and monitoring methodshow they are implemented and monitored.	P50-53
	General Disclosure	Information on: (a) policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer, relating to bribery, extortion, fraud and money laundering.	P109
Aspect B7: Anti-corruption	B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the reporting period and the outcomes of the cases.	P38-39
	B7.2	Description of preventive measures and whistle-blowing procedures, and how they are implemented and monitored.	P38-39
	B7.3	Description of anti-corruption training provided to directors and staff	P33, P38
	General Disclosure	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests.	P109
Aspect B8: Community Investment	B8.1	Focus areas of contribution (e.g. education, environmental concerns, labour needs, health, culture, sport).	P96-100
	B8.2	Resources contributed (e.g. money or time) to the focus area.	P96, P113

GRI Standards Index of Indicators

Contents of Repor	t	Corresponding GRI Standards
Letter from the Chairman		2-6, 2-16, 2-17, 2-23, 2-24, 2-22, 201-1
Honors		
About Us		2-1, 2-2, 2-6
ESG Performance		201-1, 303-5, 305-1, 306-3, 404-3, 416-1
Statement of the Board of	of Directors	2-9, 2-17, 2-22
Analysis of Substantive Is	ssues	3-1, 3-2, 3-3
Communication with Sta	keholders	2-16, 2-29
	Never stopped giving back love Supported rural revitalization in an all- round way	203-1, 413-1
Theme Focus	Continuous coordinated development Promoting high- quality development in multiple field	203-1, 413-1
	Improving corporate governance	2-9, 2-12, 2-14, 2-17, 2-23, 2-24, 405-1
Forging Ahead	Strengthening Party building	2-24
Seeking High-quality Development	Operating in compliance with laws	2-24, 2-27, 207-2
	Deepening reform and development	2-24
	Strengthening safety management	403-1, 403-5, 403-6
Safe Flight	Consolidating aviation safety	403-6, 403-7, 403-3
Safe Journey	Ensuring information security	2-23, 2-24, 417-1
	Taking good care of passengers' health	416-1
	Responding to climate change	302-1, 302-4, 302-5, 303-5, 305-1, 305-2, 305-4
Green Flight Practicing Low-carbon	Strengthening pollution control	302-4, 302-5, 303-3, 306-2, 306-3
Development	Advocating green environmental protection	103-2

Contents of Report		Corresponding GRI Standards
	Service quality management	2-23, 2-24
	Ensuring flight punctuality	2-23, 2-24
Joyful Flight Experiences Affinity and Refinement Service	Optimizing the construction of an ecological circle	2-23, 2-24
	Providing exclusive services	2-23, 2-24
	Optimizing customer experience	417-1
	Facilitating employees' achievement of value	2-7, 2-19, 2-23, 2-30, 401-1, 401-2, 401-3, 403-3, 403-6, 404-1, 404-2, 404-3, 405-1, 406-1
Shared Warmth Building a Beautiful Home Together	Dedicating to social responsibility	413-1
	Working with partners for win-win results	413-1
	Outlook	2-22, 2-24
	List of Policies and Regulations	2-23
	Performance Data	2-7, 301-1, 302-1, 302-3, 302-4, 303-5, 305-1, 305-2, 305-4, 306-3, 403-9, 403-10, 404-1
Appendix	Index of Indicators	
	Report Verification	2-5
	Feedback Form	
	About this Report	2-1, 2-2, 2-3, 2-23

Report Verification

TUVNORD

企业社会责任报告审验声明书

Verification Statement of Corporate Sustainability Report

2023 (hereinafter referred to as the Report) Independent third-party verification work was carried out. completeness of the information and data in the report and Responsible for authenticity.

Assurance Scope

The certification declaration is based on the following contents:

- Development Report, Environmental and social indicators;
- Southern Airlines Headquarters is located, did not visit its molecular companies and other project locations;
- responsibility/ESG performance;
- As the economic data is audited by a third party, no repeated audit will be done in this verification.

The on-site inspection time is from March 14th to 15th, 2024.

Assurance Methodology

Assurance process including following activities:

- Review the document information provided by China Southern Airlines;
- Interview with China Southern Airlines report information collectors;
- in the report by sampling method;
- The verification activities are carried out in accordance with TÜV NORD's Implementation Rules for Reporting Verification.

Assurance Conclusion

The report objectively reflects the development status and performance of the company in China Southern Airlines in 2023. The data in the report are reliable and objective, and no systematic or substantive errors have been found in TÜV NORD.



• Importance: China Southern Airlines Co., Ltd. evaluates substantive issues, and discloses the important objective performance of China Southern Airlines Co., Ltd. in the fields of safety, environment, service, employees, society and economy in 2023 from 20 substantive issues such as "ensuring safe flight", "passenger health and safety" and

Feedback Form

TÜVNORD

验证声明书编号: CN-202403-CSR-08

"innovative development", and responds to the expectations of investors and other stakeholders in a timely manner;

- Quantitative: The report discloses the three-year performance data in the environmental, economic and social fields such as jet fuel consumption, emissions, resource use, number of employees, development and training, supply chain management, energy consumption and carbon dioxide emissions in various forms such as appendix "performance data" and chapter "key performance", which is quantitative and comparable to some extent;
- Balance: The report discloses the number of complaints received about products and services, staff turnover rate and other data, which has a certain balance;
- Consistency: The Strategic Planning and Investment Department of China Southern Airlines Co., Ltd. is responsible for collecting, recording, arranging and analyzing the information and process used in preparing the report. The relevant departments of the sampled data in the verification process can provide traceability and have good consistency.

Suggestion for improvement

Through the verification and evaluation activities, we have the following suggestions for improving the practice and management of sustainable development of China Southern Airlines:

- It is suggested to strengthen the monitoring of some pollutants, so as to provide a more accurate basis for the organization's environmental management;
- All relevant departments should keep the original evidence of data collection, so as to facilitate the traceability of the verification process more efficiently.

Special statement

This statement excluding:

- The activity outside information reveal;
- The position, idea, faith, object, future developing direction, and promise which stated by China Southern Airlines;

Statement of Independence and Competence

TÜV NORD Group is the world's leader certification authority in inspection, testing and verification, operating in more than 100 countries throughout the world and providing services which includes management systems and product certification; quality, environmental, social and ethical auditing and training; environmental; social responsibility and sustainability report assurance.

As one of the global branches of TÜV NORD Group, TÜV NORD (Hangzhou) Co., Ltd affirms its' independence from China Southern Airlines and confirms that there are no conflicts of interest with the organization or any of its subsidiaries and stakeholders when conducting the assurance of the Report. TÜV NORD was not involved in any manner with China Southern Airlines, when the latter was preparing the Report.

TÜV NORD (Hangzhou) Co., Ltd.

195 Has

5000

Audit team leader: Ms. Hao Lihong Date : 25.03.2024

The Authorized person: Mr. Song, Haining Date: 25.03.2024

注: 当声明的中文和英文版本有冲突时,请以中文为准

Dear readers,	Optional questions:
Thank you for reading this report. To further improve our work and make the next report more in line with your expectations, we would appreciate your feedback and suggestions.	 1. Are you satisfied with the report as a whole? Yes No General 2. Is the information you are concerned about reflected in the report? Yes No General
Your identity:	3. Do you think the report truthfully reflects the contents of China Southern's social responsibility work and its impact on stakeholders?
O Customers	🗆 Yes 🔲 No 🔛 General
) Investors	4. In the report, can you easily find the information you are interested in?
○ Governments	🗌 Yes 🔲 No 🔛 General
○ Employees	5. Are you satisfied with the layout design of the report? □ Yes □ No □ General
○ Partners	
 Environmental Protection Agencies 	
○ Communities	Open questions:
⊖ Media	6. What do you think are the shortcomings of this report?
○ Peers	
Others	7. What do you wish to disclose on a regular basis in this report?
	8. What opinions and suggestions do you have on our future social responsibility work and reports?
	Please send your suggestions (if any) to Contact: Chen Cheng E-mail: chen_cheng@csair.com

About the Report



This report is the 17th social responsibility report issued by China Southern Airlines Co., Ltd. It systematically discloses the company's practice and achievements in the fields of economic, environmental and social responsibility. Hope you can learn more about China Southern through this report and grow together with China Southern.

Reliability Guarantee

The board of directors and all directors of the company undertake that there are no false records, misleading statements or major omissions in the contents of this report, and are responsible for the authenticity, accuracy and completeness of the contents.

Report Time Frame

The reporting time range is from January 1 to December 31, 2023, and is appropriately extended to enhance the comparability of the report.

Reporting Boundaries

The disclosure boundary of the data indicators in this report is mainly based on China Southern Airlines Co., Ltd., and individual indicators are extended to China Southern Air Holding Co., Ltd. The scope of data disclosure has been specified in the report.

Data Statement

The financial data in this report comes from the audited annual report of China Southern, and other data comes from the public data of government departments, official documents of the company and relevant statistics. The financial data in this report is calculated in RMB, unless otherwise stated. For more economic data, refer to the company's 2023 annual report.

Compilation Basis

The State-owned Assets Supervision and Administration Commission of the State Council of the State Council "Guiding Opinions on the Fulfillment of Social Responsibility by Central Enterprises";

Hong Kong Stock Exchange Environmental, Social and Governance Reporting Guidelines;

Guidelines for the preparation of the "Report on Corporate Social Responsibility" issued by the Shanghai Stock Exchange and the Guidelines for Environmental Information Disclosure of Listed Companies on the Shanghai Stock Exchange;

Global Sustainability Standards Council GRI Sustainability Reporting Standards (GRI Standards);

GB/T 36001–2015 Guidelines for Compilation of Social Responsibility Reports

Appellation Description

For the convenience of expression and reading, "China Southern Airlines Co., Ltd." is also represented by "China Southern", "the Company" or "We", "China Southern Air Holding Company Ltd. " is also represented by "China Southern Group" or "the Group", "Xiamen Airlines Co., Ltd." is also represented by "Xiamen Airlines", local branches are represented by "region name + branch", "China Southern Air Logistics Company Limited" is also represented by "Logistics Company", "China Southern Airlines General Aviation Company Limited" is also represented by "General Aviation Company" and "General Aviation", and "Civil Aviation Administration of China" is also represented by "CAAC".

Report Acquisition

This report includes both Chinese and English versions, and is published in both paper and electronic formats. You can log in to the official website of China Southern Airlines to browse or download this report online.

Contact Information

If you have any questions or suggestions about this report, please write to China Southern Airlines Co., Ltd. Address: China Southern Airlines Building, No. 68, Qixin Road, Baiyun District, Website: www.csair.com Contact: Chen Cheng Email: chen_cheng@csair.com