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# **Preface to the Report**

# **Reporting Period**

This is an annual report and represents the 14<sup>th</sup> corporate social responsibility (CSR) report issued by China Energy Conservation and Environmental Protection Group (CECEP).

# **Time Frame**

From January 1st to December 31st, 2024. Some content appropriately refers to events prior to or beyond this range.

# **Reporting Scope**

The Report takes CECEP as main body and covers its subsidiaries.

# **Data Description**

The data in the Report is primarily derived from statistical analysis of relevant documents. Operational data mainly comes from the Group's audited Financial Satements and Annual Reports.

## Reference Standards

- Guiding Opinions on Central Enterprises Fulfilling Social Responsibilities issued by the SASAC (State-owned Assets Supervision and Administration Commission) (SASAC Research [2008] No. 1)
- Guidelines for CSR Reports of Chinese Enterprises: Energy Conservation and Environmental Protection Industry (CASS-CSR 4.0) by the Chinese Academy of Social Sciences
- Global Reporting Initiative Sustainability Reporting Standards (GRI Standards)

# **Statement of Credibility**

The data and information cited in the Report are sourced from the Company's publicly available disclosures, internal official documents, and relevant statistical records. All information has undergone internal verification to ensure its authenticity, completeness, and accuracy.

# **Language Versions and Access**

The Report is available in Simplified Chinese in both print and PDF formats.

To download the PDF version, please visit www.cecep.cn. To request a printed version, call (86)010-83052895.

# Terminology

For ease of reading, "China Energy Conservation and Environmental Protection Group" is referred to in the Report as "CE-CEP," "the Group," "the Company," or "we."

## **Report Compilation Process**

#### **Issue Collection:**

Internal Collection: Group departments/ Subsidiaries of the Group / Social Responsibility Promotion Office / Report Compilation Team.

External Collection: Periodic surveys of stakeholders / Ad hoc stakeholder forums / Stakeholder demand research / Seminars with professional institutions.

#### **Content Selection:**

External Review: Expert recommendations, stakeholder communications.

Internal Review: Assessment of the Group's social responsibility perspectives, sustainable development strategies, alignment with domestic and international reporting standards.

Materiality Assessment: Identification of key stakeholders, updating issue repository, filtering potential material issues, questionnaire analysis, information disclosure.

#### **Report Compilation:**

Framework Planning — Data Collection and Analysis—Report Preparation and Design — Internal Review — Stakeholder Feedback — Revision and Improvement — Executive Approval — Report Rating.

## **Report Release and Improvement:**

Report Launch Event — Report Dissemination — Feedback Collection — Continuous Improvement of Report Content.

#### **Report Statement:**

The Report emphasizes process-oriented management and includes a materiality assessment of social responsibility topics. Based on the assessment results, the Report discloses the Company's commitment, actions, performance, and future pledges regarding its social responsibilities.

We affirm the reliability, authenticity, and timeliness of the information presented in the Report. Through its publication, we aim to strengthen communication with stakeholders and work together to promote sustainable development.

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# **Foreword**



As time advances, we embrace a flourishing new era. The Year 2024 marked the 75<sup>th</sup> anniversary of the founding of the People's Republic of China. It was a decisive year for achieving the goals of the 14th Five-Year Plan and a critical juncture on the new journey of building a modern socialist country in all respects. This year, China Energy Conservation and Environmental Protection Group (CECEP) focused on improving quality and efficiency while navigating complex and dynamic industry challenges and opportunities. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, CECEP earnestly implemented the work arrangements and inspection rectification requirements of the Party Committee of the State-owned Assets Supervision and Administration Commission (SASAC). The Company advanced the deepening reform of state-owned enterprises, strengthened Party building, promoted innovation, drove transformation, and expanded strategic positioning. It actively developed new productive forces, striving for both qualitative enhancement and reasonable quantitative growth, and took up its political responsibility in building a Beautiful China—presenting a vivid example of central state-owned enterprises fulfilling their mission.

# This year, we fostered cohesive development through strong Party building.

We always prioritized political development, using ideological construction to steer the direction of reform and organizational strengthening to reinforce our grassroots foundation. We continued to optimize our corporate governance system, embedding compliance into all business operations to guard operational safety. A risk alert mechanism was established through digital platforms, and a safety culture was cultivated to ensure smooth and secure production. With the three-year action plan for fundamentally improving production safety progressing steadily, we laid a solid foundation for sustainable corporate growth.

# This year, we remained rooted in our core mission of environmental protection and energy conservation.

We firmly upheld the overall leadership of the Party and served the national dual carbon goals, supporting the development of policy frameworks and pilot programs. We took the lead in green technology innovation, setting industry benchmarks. Emphasizing ecological safety, we strengthened environmental safeguards and firmly upheld the "safety bottom line" to better protect the natural environment. We proactively aligned with major national regional strategies such as the Yangtze River Protection and the Ecological Protection of the Yellow River Basin, developing exemplary ecological restoration projects and contributing tangibly to the vision of a Beautiful China.

# This year, we built core competitiveness through innovation.

The Company advanced the development of R&D platforms and technology centers, actively participated in enterprise innovation consortia, and achieved steady growth in technological outcomes. R&D investment reached RMB 1.272 billion, accounting for 2.61% of revenue. We secured 681 new patents and added three new provincial or ministerial-level R&D platforms. We also made solid progress in digitalization, completing the construction of an intelligent energy management platform. In the special assessment for "advancing digital supervision capabilities in state-owned capital regulation" among central enterprises, we achieved a full score.

# This year, we fostered a community of shared responsibility through openness and mutual benefit.

The Company strictly controlled social and environmental risks across the supply chain and promoted strategic partnerships and industrial collaboration. In response to the Belt and Road Initiative, we delivered impactful Chinese environmental solutions. We safeguarded employee rights, improved career development pathways, and nurtured a vibrant innovation ecosystem. With a strong commitment to public well-being, we supported rural revitalization through various initiatives, earning the highest rating of "Excellent" in the central government's targeted assistance assessments for four consecutive years.

# With favorable winds, we are poised to set sail.

We understand that fulfilling social responsibility is not only the foundation of a company's existence but also key to earning public trust and support. We will continue to uphold our commitment to social responsibility through concrete actions, aiming to be both a pioneer and practitioner in this field, and to contribute our strength to a brighter future for society.

In year 2025, we will persist in aligning Party leadership with business development, firmly uphold the value-creation goals of state-owned enterprises, and drive all production factors toward the development of new productive forces. We will make greater strides in operations, reform, innovation, market expansion, and risk prevention. With these efforts, we aim to accelerate our transformation into a world-class enterprise in energy conservation, environmental protection, and health industries, shoulder greater responsibilities, and make new and significant contributions to building a modern socialist country, achieving the Second Centenary Goal, and realizing the Chinese Dream of national rejuvenation.

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# **Company Profile**

2024 Corporate Social Responsibility Report

# **About CECEP**

China Energy Conservation and Environmental Protection Group (CE-CEP) is a central enterprise founded in 2010 after the merger between China Energy Conservation Investment Corporation and China New Era Group Corporation with the approval of China's State Council.

As a central state-owned enterprise with core businesses in energy conservation, emissions reduction, and environmental protection, CE-CEP has adhered to its founding mission of "conserving resources and protecting the environment" since its establishment. The Company has remained committed to this original aspiration and has made significant contributions to the initiation, development, and expansion of China's energy conservation and environmental protection sectors. To date, CECEP has over 700 subsidiaries and 6 listed companies, with operations covering all provinces and municipalities in China and extending to approximately 110 countries and regions worldwide. The Company has established a systematic industrial layout by strengthening, optimizing, and expanding its three core business areas—energy conservation and clean energy supply, ecological and environmental protection and resource recycling, and new energy development and equipment manufacturing. At the same time, CECEP is accelerating the development of an emerging business segment centered on chemical reagents, health products, and related services, while proactively deploying in strategic emerging industries and enhancing its capacity for strategic support.

In recent years, CECEP has established a unique advantage through a full industrial chain covering planning and consulting, R&D and design, investment and development, equipment manufacturing, engineering construction, operation and management, as well as investment and financing services. Our business spans all major segments of energy

conservation and environmental protection, enabling the Company to provide integrated energy and environmental solutions for entire regions and river basins.

Since entering the new era, the Company has resolutely implemented the decisions and plans of the CPC Central Committee, and actively participated in major national strategies such as the Yangtze River Protection, the coordinated development of the Beijing-Tianjin-Hebei region, the development of the Xiong'an New Area, the integrated development of the Yangtze River Delta, the ecological protection and high-quality development of the Yellow River Basin, the development of the Guangdong-Hong Kong-Macao Greater Bay Area, and the construction of the Hainan National Ecological Civilization Pilot Zone. The Company has also proactively advanced the Belt and Road Initiative. In May 2018, the Company was designated by the Office of the Leading Group for Promoting the Development of the Yangtze River Economic Belt as the primary platform enterprise for pollution control in the Yangtze River Economic Belt.

Looking ahead, as a central enterprise with energy conservation and environmental protection as its core mission, CECEP will remain true to its original aspiration of conserving resources and protecting the environment. We will continue to shoulder our responsibility to meet the growing demand of the people for a beautiful ecological environment. In alignment with the goals of high-quality development, CECEP will accelerate its transformation into a world-class industrial group in energy conservation, environmental protection, and health, contributing more to ecological protection, the construction of a Beautiful China, and a clean and beautiful world.

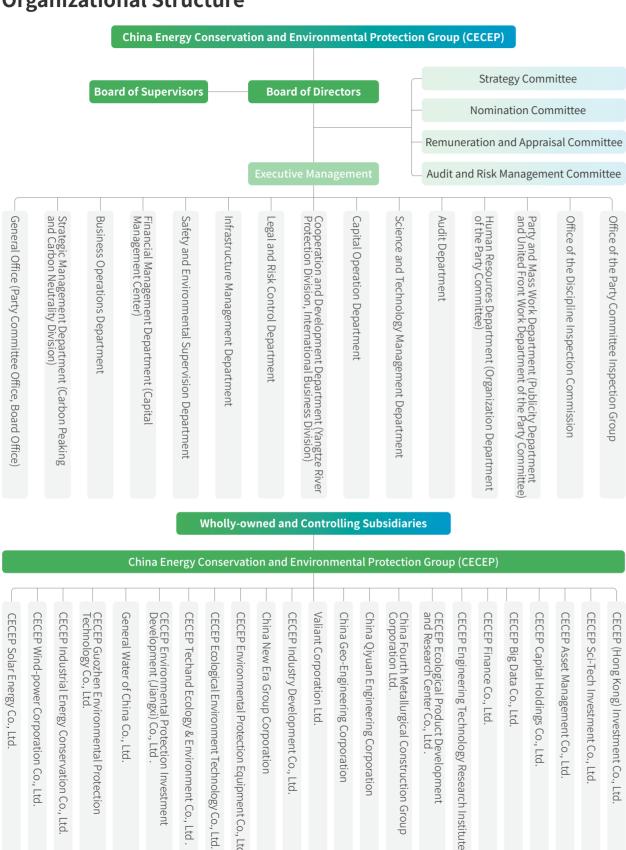




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2024 Corporate Social Responsibility Report

# **Organizational Structure**



# **Honors in Year 2024**





Green Booth Award, 2nd China International Supply Chain Promotion Expo Proactively layout strategic emerging industries and strengthen strategic support capabilities

The China Energy Conservation 2023
Social Responsibility Report received
the highest rating from the Expert
Committee on CSR Report Evaluation
for the ninth consecutive year



# **Subsidiary Recognitions**

# Valiant Corporation Ltd.

Selected as a silver medal in the EcoVadis Corporate Social Responsibility Assessment for the "National 8th Batch of Manufacturing Single Champion"

Top 20 Innovative Development Enterprises and Top 20 Green and Low Carbon Development Enterprises in China's Fine Chemical Industry in 2024

# China Energy Conservation Wind Power Co., Ltd.

Evaluation of Information Disclosure Work of Listed Companies in 2023-2024 by the Shanghai Stock Exchange

Excellent Practice Cases of Sustainable Development of Listed Companies in 2024 by the Association of Listed Companies

#### CECEP Environmental Protection Co., Ltd.

Awarded the "AAA-rated Municipal Solid Waste Incineration Plant" certification by the China Association of Urban Environmental Sanitation, received the Three-Star Low-Carbon Operation Service Rating from the China Society of Technology Economics

# China Energy Saving Solar Energy Co., Ltd.

The Association of Listed Companies' "2024 Excellent Practices in Cultural Construction of Listed Companies, 2024 Best Practice Cases in the Office of the Board of Directors of Listed Companies, and 2024 Excellent Practice Cases in the Board of Directors of Listed Companies"

Received the "Information Disclosure Work A Evaluation" from the Shenzhen Stock Exchange for three consecutive years

# **Major Events of the Year**

# Improving Quality and Efficiency with Steady Progress

The Party Committee of CECEP designated 2024 as the "Year of Quality and Efficiency Improvement." Guided by the goal of enhancing five dimensions of value, the Company focused on its core responsibilities and businesses, expanded market presence, emphasized technological innovation, implemented cost reduction and efficiency improvement strategies, promoted refined management, and strengthened risk prevention. These efforts aim to build new productive forces and foster new development advantages.



## **Expanding Market Reach at a Faster Pace**

Focusing on national regional development strategies, CECEP advanced market development through high-level cooperation with five provinces and autonomous regions—Beijing, Shanxi, Jiangsu, Hainan, and Inner Mongolia—as well as 28 cities including Zhangzhou and Hezhou. The CECEP Techand Ecology & Environment Co., Ltd. Dubai Mag Yunxi Residential Construction and Landscape Project was successfully signed, with a contract value of RMB 5.583 billion, setting a new record for CECEP's largest overseas single project in recent years.



# Enhancing Reform of State-owned Enterprises (SOEs) on an Ongoing Basis

CECEP continued implementing the deepening reform actions for state-owned enterprises. According to the reform plan and task checklist, the Company decomposed and implemented tasks at all levels. Key performance indicators—such as revenue and share of strategic emerging industries and milestone achievements of secondary subsidiaries—were incorporated into business performance evaluation and SOE reform assessments. As of now, all reform tasks scheduled for 2024 have been completed, except for three undergoing dynamic adjustments. Notable accomplishments include reducing 155 legal entities, achieving the Group's legal entity reform goal one year ahead of schedule recovering RMB 4.4 billion since the launch of the receivable's recovery initiative, effectively plugging financial "bleeding points" and exceeding the three-year collection target in advance.

# Building International Image and Demonstrating Strength

#### From November 11<sup>th</sup> to 22<sup>nd</sup>

The 29th Conference of the Parties (COP29) to the United Nations Framework Convention on Climate Change (UNFCCC) was held in Baku, Azerbaijan. CECEP, together with the Chinese Society for Environmental Sciences, co-hosted a series of side events under the "China Pavilion," including a session on climate investment and financing, jointly organized by CECEP Ecological Product Development and Research Center Co., Ltd. and the Society's Climate Finance Committee.



#### From November 26<sup>th</sup> to 30<sup>th</sup>

CECEP and its subsidiaries participated in the 2nd China International Supply Chain Promotion Expo, presenting achievements across five key business chains: Green Agriculture, Healthy Living, Clean Energy, Digital Technology, and Mountains-Rivers-Forests-Farmland Ecosystems. The Company's Green Booth won the Green Booth Award at the Expo.



#### On December 25<sup>th</sup>

CECEP's High-Speed Rail New Town Smart Integrated Energy Station project was selected for the third batch of international "Top Ten Best" Energy Efficiency Technologies and Practices. The project features a digital twin and cloud computing-based energy management platform, utilizes reclaimed water, river water, and solar energy at scale, and incorporates 21 proprietary technologies—including a "mother-child station + cellular pipeline network" model and dynamic two-phase energy storage—enabling precise energy control driven by digital intelligence.

# Fostering New Productive Forces with Focused Efforts

#### On April 9th

CECEP's subsidiary CECEP Wanrun Co., Ltd. was awarded the honor of the Eighth Batch of National Manufacturing Individual Champion Enterprises by the Ministry of Industry and Information Technology of China for its "Euro VI and above emission standard exhaust gas catalytic purification molecular sieves" and "OLED materials."



#### On June 18

The research project led by CECEP's New Era Health Industry Company, titled Key Technologies and Applications for Product Development and Evaluation Based on the Properties and Meridian Tropism of Chinese Maca, was recognized by the China National Light Industry Council as a scientific and technological achievement at the international leading level.

# Empowering Management through Digital Transformation

CECEP has deeply advanced its digitalization initiatives and received a full score in the special evaluation on "enhancing digital capabilities for state-owned asset supervision" among central SOEs.

## On March 16<sup>th</sup>

The 2023 White Paper on the Marketization of Data Elements in the Financial Industry, co-authored by CECEP's big data subsidiary, was officially released, representing the latest domestic practical achievement in data element marketization in the financial sector.



#### On October 22<sup>nd</sup>

Phase I of CECEP's Digital Archives Project was officially launched and passed preliminary acceptance, archiving 386,000 electronic documents. This system enables centralized and unified online management of all types of headquarters archives, greatly improving archival efficiency.

# On November 29th

CECEP's affiliated research center developed and launched China's first digital application platform for project-level ecological product value accounting, which was recognized as a "China Good Technology" innovation.

### Completing Major Project Restructuring

#### On January 22<sup>nd</sup>

CECEP Environmental Protection Co., Ltd. successfully completed its additional share issuance to raise matching funds, securing RMB 3 billion, marking the successful completion of the largest-ever restructuring project in China's waste-to-energy sector on the A-share market.

# Releasing Multiple First-of-Their-Kind Standards

#### On April 19<sup>th</sup>

CECEP Ecological Product Development and Research Center Co., Ltd. released China's first ecological product value accounting standard for infrastructure projects—Technical Guidelines for Project-Level Ecological Product Value Accounting (T/CAQI 363-2023).

# On June 29<sup>th</sup>

The China Research Academy of Environmental Sciences, affiliated with CECEP, participated in the development of the national standard Requirements for *the Treatment and Disposal of Waste Circuit Boards (GB/T 44157-2024)*, the first national standard for the treatment and disposal of waste circuit boards in China.

## Driving Breakthroughs Toward Zero-based Targets

#### On April 10<sup>th</sup>

With the support of CECEP Ecological Product Development and Research Center Co., Ltd. mechanical safety device products for offshore drilling platforms successfully passed the Environmental Product Declaration (EPD) certification, marking China's first EPD certification for export products in this field.

## On October 3<sup>rd</sup>

CECEP's subsidiary China Qiyuan Engineering Corporation successfully completed the hoisting of China's largest-span (96 meters) timber beam for the Guangming International Equestrian Center project, marking the commencement of the timber structure phase of construction.



#### On November 15<sup>th</sup>

The Phase I project of the "Geothermal+" Carbon Reduction and Complementary Clean Heating Demonstration Project of Xi'an Thermal Power, designed by China Qiyuan Engineering Corporation under CECEP, was successfully connected to the grid and put into operation. It is the first domestic demonstration project to use geothermal energy as a centralized replacement for traditional heating, and also the largest single-station geothermal heat source project in China in terms of heat exchange capacity.

# On November 26<sup>th</sup>

The first-phase project of the CEC Nongchuang Kokdala Super Pasture—Asia's largest agrivoltaic integrated project, undertaken by China Qiyuan Engineering Corporationunder CECEP as the general contractor—was officially completed and put into operation.



# Promoting Green Development Along the Belt and Road on a Sustained Basis

#### On March 14<sup>th</sup>

The well-drilling project in Monze District, Southern Province of Zambia, undertaken by China Geological Engineering Group under CECEP, officially commenced. This is a key livelihood project jointly implemented by the Chinese government and the United Nations World Food Programme.

#### On April 18<sup>th</sup>

CECEP Guozhen Environmental Protection Technology Co., Ltd. signed a contract for the Sdong District Wastewater Treatment Plant Project in Ethiopia, which is the largest wastewater treatment project in Ethiopia financed through a World Bank loan.

#### On May 29<sup>th</sup>

The Sindhupalchok Hospital Restoration and Renovation Project in Nepal, designed and managed by China Qiyuan Engineering Corporation under CECEP as part of Chinese foreign aid, was successfully handed over.



## On July 1st

The doctors' dormitory project of the Abdullah Mzee Hospital in Zanzibar, Tanzania—also designed and managed by China Qiyuan Engineering Corporationas part of Chinese foreign aid—was successfully handed over.

#### On July 18th

CECEP's subsidiary Jinghe Technology won the bid for the household solar power system projects for the Republic of Chad and the Democratic Republic of São Tomé and Príncipe. These projects, part of the Ministry of Ecology and Environment's South-South Cooperation "African Solar Belt" initiative to address climate change, will be delivered by Jinghe Technology, which is responsible for providing 7,400 sets of household photovoltaic power systems along with complete supporting services.

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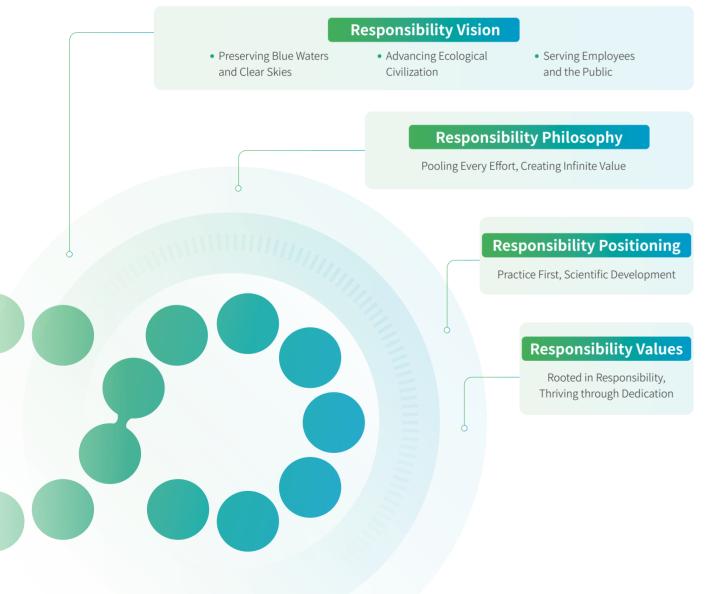
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# **Responsibility Management**

CECEP firmly aligns itself with four core dimensions—political, economic, environmental, and social—and fulfills its fundamental responsibility of creating profits and value, its inherent responsibility in energy conservation and environmental protection, and its enduring responsibility for harmonious coexistence. The Company is committed to ensuring investor confidence, customer satisfaction, win-win outcomes for stakeholders, public recognition, employee well-being, and a better life for all, striving to become a world-class industrial group in energy conservation, environmental protection, and health.

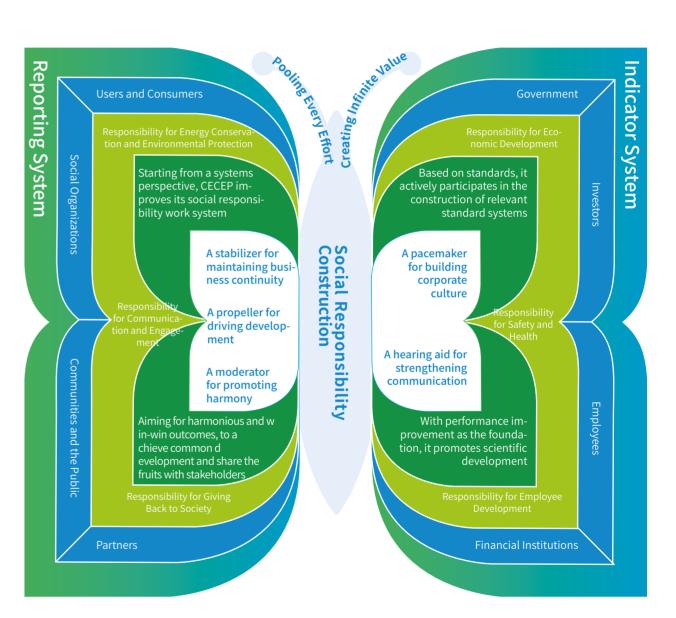
# **Responsibility Philosophy**

Against the backdrop of sustainable development, CECEP upholds the philosophy of "Pooling Every Effort, Creating Infinite Value" as the cornerstone of its social responsibility. Centered on value creation, the Company pursues integrated economic, social, and environmental value, and works toward realizing its responsibility vision of "Preserving Blue Waters and Clear Skies, Advancing Ecological Civilization, and Serving Employees and the Public."



# **Responsibility Model**

CECEP remains steadfast in its sacred mission of "making the sky bluer, the mountains greener, the water clearer, and making life better" deepens the connotation of "gathering small things to create infinite," and fulfills six fundamental responsibilities—including responsibilities for energy conservation and environmental protection, and economic development—while leveraging five major functions of social responsibility in promoting corporate development and social harmony. These responsibilities and functions together form a "Butterfly" model characterized by "One Body and Two Wings," which guides the implementation of the Company's social responsibility efforts.



**Butterfly Model: One Body and Two Wings** 

# **Responsibility Advancement**

CECEP continues to improve its social responsibility management system by integrating social responsibility concepts into the Group's development strategy, corporate governance, and business operations. The Company has steadily strengthened its organizational and governance structures for social responsibility, actively improved its responsibility planning and reporting, and established the CECEP Indicator System. As a result, CECEP's CSR Reports have consistently received the "Excellent" rating from authoritative social responsibility evaluation institutions.



competition





The project titled *Green Energy Illuminates African*Villages—China-Aided Solar Demonstration
Village Project in Mali, submitted by the GuineaMali Branch of CECEP's China Geo-Engineering
Corporation, was selected as one of

The Top 10 Cases in the 2024 Blue Book on Overseas ESG Practices of Central SOEs



The case study *Greening the Mountains with Three Key Measures— Ecological Restoration of Mines*, submitted by China Geo-Engineering
Corporation's Beijing Geotechnical Division, was selected for

The 2024 Blue Book on Social Responsibility of Central SOEs

# **Responsibility Governance**

CECEP has established a Social Responsibility Leading Group led by the Group's senior leadership, in order to enhance organizational capacity, clarify roles and responsibilities, and ensure coordinated management and vertical integration of social responsibility efforts.





# Main Responsibilities of the Leading Group

- Formulate the Group's social responsibility strategy and overall objectives
- Provide organizational leadership and make strategic decisions for the Group's social responsibility work
- Lead the development of the Group's social responsibility management system
- Approve the Group's social responsibility work plans
- Approve and release the Group's social responsibility reports
- Approve major social responsibility activities of the Group



## Main Responsibilities of the Office for Promoting Social Responsibility Work

- Implement the decisions and deployments made by the Group's leadership regarding social responsibility work
- Coordinate the construction and implementation of the Group's social responsibility management system
- Organize the preparation of the Group's social responsibility plans and programs
- Develop and organize the implementation of social responsibility training programs
- Organize key research projects on social responsibility within the Group
- Organize the development of social responsibility management tools for the Group
- Organize the preparation of the Group's social responsibility reports
- Participate in domestic and international exchanges on social responsibility

CECEP always regards social responsibility as a vital cornerstone of its strategic development. Through institutionalized process design, the Company integrates the concept of social responsibility into all aspects of business decision-making, ensuring that stakeholder concerns and sustainable development goals are fully taken into consideration. The Board of Directors and senior management are deeply involved in the top-level design and oversight of social responsibility governance through the Social Responsibility Leading Group, which regularly reviews policies and annual reports, defines strategic directions, and monitors implementation effectiveness. Looking ahead, CECEP will continue to enhance its governance mechanisms, promote the deep integration of social responsibility with core business, and create long-term shared value for society.

# **Responsibility Integration**

CECEP embeds social responsibility into its development strategy, daily operations and management, supply chain governance, and international business practices, transforming responsibility into an intrinsic driver of corporate growth. The Company encourages its subsidiaries to innovate in social responsibility management, carry out distinctive practices, and build social responsibility brands, thereby elevating the overall level of social responsibility across the Group.

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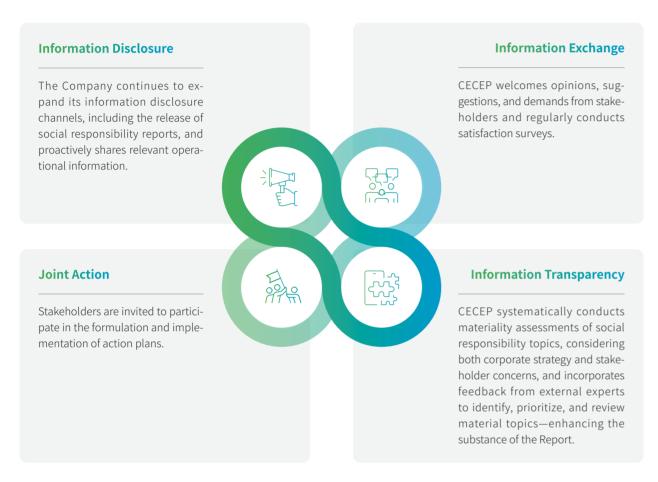
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# **Responsibility Communication**

CECEP actively broadens its communication channels with stakeholders, establishes regular engagement mechanisms, discloses key corporate information in a timely manner, enhances operational transparency, fully understands stakeholder expectations and responds accordingly, aiming to earn their recognition and foster stable and harmonious relationships.



In year 2024, through questionnaires, expert consultations, and discussion sessions, CECEP gained a full understanding of stake-holder expectations and concerns. These findings are fully reflected in the preparation and publication of the Social Responsibility Report, highlighting the varying degrees of importance different stakeholders place on different issues, thereby further enhancing the Report's materiality.



# Materiality Matrix of CECEP



# **Governance Topics**

- 01 Corporate Governance
- 02 CPC Leadership
- 03 Integrity and Compliance in Operations
- 04 Social Responsibility Management
- 05 Technological Innovation
- 06 Product Quality
- 07 Service Quality08 Intellectual Property Pro-
- 09 Anti-corruption and Integrity
- 10 SOE Reform

tection

Risk Management and Control

# **Environmental Topics**

- Resource Conservation
- 13 Ecological Civilization
  Development
- 14 Clean Energy
- 15 Energy Efficiency
- 16 Pollution Prevention and Control
- 17 Circular Economy
- 18 Climate Change Response
- 19 Biodiversity
- 20 Energy Conservation and Environmental Protection Culture

# **Social Topics**

- 21) Compliant Employment
- 22 Employee Career Development
- 23 Responsible Supply Chain
- 24 Employee Health
- 25 Work Safety
- 26 Employment Promotion
- 27 Volunteer Service
- 28 Rural Revitalization29 Serving National Strategies
- 30 Overseas Project Operation
- 31 Digital and Intelligent
  Transformation

# Stakeholder Communication and Response

## Stakeholder

**Government Agencies** 

#### Communication and Response

Supervision and inspection

Strengthening cooperation

in environmental protection

acceptance

- Concerns Law compliance
- Preservation and appreciation of state-owned assets
- Environmental protection Job creation Technological innovation
- Workplace safety

# Scope

 National Development and Reform Commission (NDRC). State-owned Assets Supervision and Administration Commission (SASAC), Ministry of Ecology and Environment, Ministry of Industry and Information Technology (MIIT), Ministry of Commerce, Ministry of Housing and Urban-Rural Development (MOHURD), National Health Commission, etc.



Investors

Anti-corruption and integrity
 Regulated operations

and related industries

- Improved governance mechanisms Cost reduction and efficien-
- cv enhancement Profitability improvement
- Scientific management
- Risk control Asset preservation and
- appreciation Investment return

 SASAC and non-CECEP shareholders of its controlled or partially owned subsidi-



**Partners** 

• Supplier audits and deeper strategic cooperation with various partners

- Fulfilling commitments
- Integrity in operations
- Fairness and transparency Mutual benefit and win-win
- Suppliers, service providers, distributors, and other business partners



**Financial Institutions** 

• Strengthened strategic cooperation with banks

- Prudent operations
- Timely debt repayment • Corporate creditworthi-
- Risk management

• China Development Bank, Export-Import Bank of China, Industrial and Commercial Bank of China, China Construction



**Users and Consumers** 

- Responsible marketing • Customer information and privacy protection
- Product quality assurance
- Timely service
- Health and environmental
- Domestic and international users and consumers of CECEP's products and



**Social Organizations** 

- Participation in NGO activities • Leadership or co-partici-
- pation in drafting industry standards
- Industry engagement
- Support and participation
  - Regulatory compliance Fulfilling obligations
  - Shared development
- Various public interest and industry associations and social organizations



Community surveys

- Regular community com-
- munication Community welfare activi
- Environmental protection
- Community harmony Workplace safety
- Common prosperity
- Social employment
- Social stability
- · Communities where CECEP's headquarters and subsidiaries are located, and regions where CECEP operates



• WeChat public account

- Thematic education
- Employee congress
- Internal publications
- OA office system
- Compensation and benefits
- Career development
- Rights protection
- Occupational health and
- All employees

# **Responsibility Sharing**

CECEP actively promotes responsibility sharing and communication, building effective bridges for engagement with the government, media, and the general public. Through strengthened dialogue and exchange, the Company seeks to establish its brand, set industry benchmarks, and develop a collection of best practices and replicable, scalable cases to promote the healthy and sustainable development of both the Company and the wider industry.



Leaders of the Group Attended the China Top 500 Enterprises Summit Forum

In September 2024, leaders of the Group company attended the 2024 China Top 500 Enterprises Summit, hosted by the China Enterprise Confederation and the China Enterprise Directors Association. Delivering a keynote speech themed "Embracing the New to Build More World-Class Enterprises," and participated in a roundtable dialogue with the Tianjin Municipal Government and enterprise representatives to discuss opportunities for cooperation.



China Top 500 Enterprises Summit Forum



# CECEP Co-hosted the Third China Climate Investment and Financing International Seminar

In May 2024, CECEP and the Chinese Society for Environmental Sciences jointly hosted the Third China Climate Investment and Financing International Seminar under the theme "Pursuing Carbon Peaks and Green Innovation: Climate Finance Empowering a Green and Low-Carbon Future." The event brought together policymakers, financial institutions, investors, and domestic and international research organizations to exchange insights on policy trends, share the latest research outcomes, and explore best practices in the climate finance sector.

Leaders of the Group company delivered opening remarks. Senior representatives from Agricultural Bank of China, China National Salt Industry Group, Global Energy Interconnection Development and Cooperation Organization, Hengfeng Bank, the International Sustainability Standards Board (ISSB), and China International Engineering Consulting Corporation also delivered keynote addresses.



On site International Symposium on Climate Investment and Financing

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# Thematic Focus

# Year of Quality and Efficiency Improvement ——Dual Drivers of Innovation Deepening and Management Upgrading

With a bold vision and determined actions, CECEP is writing a new chapter in its journey of reform. The year 2024 marked a pivotal stage in implementing the SOE Reform Deepening and Enhancement Action Plan. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, the Company earnestly implemented the guiding principles of the 20th CPC National Congress and the Second and Third Plenary Sessions of the 20th Central Committee. We also thoroughly studied General Secretary Xi Jinping's important methodological insights on comprehensively deepening reform, strictly followed the strategic deployments of the SASAC, and strengthened top-level design, coordination, integrated advancement, and supervision of reform implementation. In alignment with the Group's SOE Reform Deepening Action Plan, CECEP adopted a visualized task management system to track the execution of 86 reform initiatives, advancing them with focus and resolve. The results of these reforms provided strong momentum for the Company's high-quality development.



# Strengthening Party Building as the Red Engine

Upholding the leadership of the Party and strengthening Party building is the "root" and "soul" of central SOEs. CECEP ensures that Party leadership and Party building are fully integrated throughout the reform and enhancement process. By fulfilling the political responsibility of strict Party governance, the Company uses high-quality Party building to drive high-quality development.

# **Improve the Quality of Party Building**



CECEP convened a Group Party Committee symposium on standardizing and improving grassroots Party building, organized training sessions for Party affairs personnel and newly appointed branch secretaries, developed implementation guidelines for Party work supervisors, and launched a "Strengthening Institutional Foundations" campaign across all Party organizations. These efforts aimed to address the weakness in grassroots Party strength identified during SASAC Party Committee inspections.

#### **Results Achieved**

In 2024, we promptly reviewed the basic status of grassroots Party organization setup, re-election, and the implementation of the "two 1%" policy across the system. We guided one newly established secondary subsidiary to set up a Party branch and sent timely re-election reminder letters to five secondary subsidiary Party committees and the Party branch at headquarters, ensuring that Party organizations are established and re-elected wherever required. We also held the 2024 training program for Party membership applicants and prospective members, with over 210 participants taking part in the training.

# Strengthen Accountability in Party Building



• CECEP has established a robust system for the comprehensive and strict governance of the Party, incorporating the implementation of SOE reform enhancement tasks into political supervision. With a reform-oriented mindset and strict standards, the Company enforced clear responsibilities among Party committees, branch secretaries as primary accountable leaders, and leadership team members under the "dual responsibility" framework.

## **Results Achieved**

In 2024, CECEP convened its annual Party building work conference, issued key action plans, and conducted the 2023 Party building performance evaluations and secretary accountability assessments. The Company also thoroughly addressed feedback from the SASAC Party Committee's 2023 assessment by drafting and executing problem, task, and responsibility lists, ensuring effective and timely rectification.

# **Enhance Integration Effectiveness**



• CECEP integrates Party building with core business activities through unified planning and synchronized execution. The Company aligns Party work with key initiatives such as market expansion, R&D breakthroughs, operational management, workplace safety, and the "Year of Quality and Efficiency Improvement."

# **Results Achieved**

In 2024, CECEP expanded its "Party Building +" model, continuously promoting initiatives such as Party member responsibility zones, demonstration posts, and pioneer teams. These activities encouraged Party organizations and members at all levels to translate organizational strengths into driving forces for high-quality development. One individual Party member and one grassroots Party organization were honored among the "Outstanding and Advanced Collectives" of central SOEs.

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Breakthroughs, Activating Synergistic Development

**Energizing Development** 

# **Enhancing Quality Through Technological Innovation**

Technological innovation is the fundamental driving force and core competitive advantage of enterprise development. CECEP focuses on achieving independent innovation, strengthening the integration of industry, academia, and research, and accelerating the transformation and application of scientific achievements. These efforts comprehensively enhance the Company's technological competitiveness and create new advantages for high-quality development.

## Sustained Increase in R&D Ir vestment



# · CECEP is committed to disruptive and sustained in-



#### **Results Achieved**

 In 2024, CECEP's R&D intensity reached 2.61%. The Company established three new provincial or ministerial-level R&D platforms and secured 681 new patents, including 320 invention patents. We also received **six** awards at or above the provincial or ministerial level.

# **Breakthroughs in Core** Technologies



novation, addressing critical bottlenecks, resolving systemic constraints, and targeting complex challenges. The Company emphasizes original, leading, and cutting-edge technological breakthroughs.

## **Results Achieved**

• In 2024, Valiant Corporation Ltd.'s thermoplastic polyimide (PEI) special engineering material was included in the 2023 Scientific and Technological Innovation Product Manual of Central SOEs published by SASAC. Its "Euro VI-compliant exhaust gas catalytic molecular sieve" and Yantai Jiumu Chemical's "OLED materials" were selected among the eighth batch of National Manufacturing Single Champion Enterprises. CECEP Zhonghuan Water's project on "Key Technologies for Water Pollution Control and System Management in Industrial Parks" won the Second Prize of the **Environmental Protection Science and Technolo**gy Award.

# **Building a Collaborative Innovation Chain**



 CECEP maximizes the role of platforms such as the Yangtze River Protection Science and Technology Innovation Alliance and the CECEP Environmental Protection Brand Cluster. The Company aggregates high-quality resources from universities and research institutions and expands integrated innovation across the entire chain of production, education, research, and application, strengthening its influence on key segments of the industrial value chain.

#### **Results Achieved**

• In 2024, CECEP deepened its cooperation with China Electronics in the central SOE innovation consortium, actively participated in Sinopec's consortia on "Wet Electronic Chemicals" and "Deep Geothermal Development for Future Space," and collaborated with China Building Technique Group in the development of the National Innovation Center for Green and Low-Carbon Building Technologies. The consortium for key technologies in integrated intelligent PV-storage-charging systems was formally launched at CECEP Solar Technology (Zhenjiang) Co., Ltd.

# **Enhancing Efficiency** through Lean **Management**

Improving quality and efficiency is not only a core pathway for enterprises to serve national strategies, but also an inherent requirement for achieving high-quality development. CECEP regards development as its top priority, stays focused on operational targets, and takes "lean management" as the main approach. By targeting efficiency enhancement across the full production and operation chain, enforcing rigorous quality control, showcasing the excellence of central SOEs, seizing market opportunities, and broadly expanding revenue channels, the Company continuously improves development quality and performance and strengthens the foundation for sustainable, high-quality growth.

## **Cost Reduction and Efficiency** Improvement



# **Structural Optimization**



 CECEP continues to enhance its business management capabilities, strengthen board governance, reinforce performance evaluation, implement "penetrative" operational scheduling, reduce operating costs and expenses, and strictly control the three major categories of expenditure.

# **Results Achieved**

 By the end of 2024, CECEP had reduced total expenses under the consolidated scope by RMB 936 million year-on-year, an 8.57% decrease. Fifteen secondary subsidiaries achieved significant cost control outcomes, with enterprises such as CECEP Environmental Protection and CECEP Zhonghuan Water continuously optimizing unit consumption indicators, fully demonstrating the effectiveness of refined management.

# CECEP deepens its legal entity reduction campaign, enhanced the management of receivables and inventory, recovered outstanding payments in accordance with law, and improved governance over loss-making enterprises, thereby continuously improving operational efficiency and management capabilities.

## **Results Achieved**

• In 2024, CECEP reduced 75 legal entities, recovered RMB 310 million in cash, downsized staff by 138 people, and resolved RMB 160 million in internal receivables and payables.

# **Value Creation**



· CECEP's leadership takes the lead in advancing the quality and efficiency initiative at the grassroots level, continuously strengthens implementation efforts, enhances corporate profitability and value creation capacity, and ensures the achievement of targets for profit stability and sustains optimization across five key indicators.

## **Results Achieved**

• We have carried out value creation actions in depth, and the group company has completed 63 out of 66 key tasks in the value creation actions, with a completion rate of 95.5%. At the same time, actively select 13 action benchmarks for the value creation action of the Tree Group.

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# Expanding Opportunities Through Green Transition

Green development is increasingly embedded across the entire economy and society, and green transformation has become the key to unlocking new space for enterprise advancement. CECEP leverages its "dual-carbon" practices to establish benchmarks, drives technological innovation to overcome emissions bottlenecks, and empowers value creation through forward-looking planning, contributing to the green transition of China's economic and social development.

# Standard-Based Support: Creating a New Transformation Paradigm



• CECEP is deeply involved in China's national standardization strategy and proactively builds a multi-level, multi-dimensional energy conservation standard system from a full-industry-chain perspective. Internally, the Company advances green system innovation, while externally it plays a leading role in standard setting.

## **Results Achieved**

 In 2024, CECEP introduced 39 new standards, issued the Interim Measures for Carbon Emission Evaluation of Investment Projects of CECEP, participated in the formulation of Basic Data Standards for Carbon Emission Factors of Civil Buildings and Terminology of Building and Civil Engineering – Part 3: Sustainability Terms, and officially released the Technical Guidelines for Project-Level Ecological Product Value Accounting through CECEP Ecological Product Development and Research Center Co., Ltd.

# Echnological Innovation: Tackling Hard Issues in Carbon Reduction and Efficiency Enhancement



 CECEP is committed to green technology innovation, updated its List of Key and Core Technologies for Priority Breakthroughs, and actively pursued breakthroughs in core technologies related to energy conservation, clean energy, and low-carbon environmental governance.

# **Results Achieved**

• In 2024, CECEP was commissioned by the Ministry of Ecology and Environment to compile the Catalogue of Nationally Promoted Low-Carbon Technologies (Fifth Batch). CECEP Solar Energy (Zhenjiang) Co., Ltd.'s "wide-bandgap perovskite-silicon tandem solar cell technology" was named a key industrial innovation project under Jiangsu Province's "Strengthening the Manufacturing Sector" initiative. Valiant Corporation Ltd.'s thermoplastic polyimide (PEI) material was included in the 2023 Central SOE Scientific and Technological Innovation Product Manual by SASAC. Our Euro VI-compliant catalytic molecular sieve and Yantai Jiumu Chemical's OLED materials were named among the eighth batch of National Manufacturing Single Champion Enterprises. The CE-CEP Big Data Co., Ltd.'s project on "Key Technologies and Applications for Smart Management and Control of Urban Water Quality Safety" won First Prize in the Science and Technology Progress category of the 2024 Environmental Protection Science and Technology Awards.

#### Multi-Energy Complementarity: Activating New Drivers for Green Growth



 CECEP leverages its complete industrial chain in energy conservation and environmental protection, along with its specialized service system, to establish a dedicated institution for enhancing integrated solution capabilities and accelerate the clean energy layout through "multi-energy complementarity."

## **Results Achieved**

• In 2024, CECEP summarized and refined 20 typical scenarios and 25 model cases related to regional integrated green energy and environmental solutions. The "Geothermal+" carbon-reduction-based clean heating demonstration project designed by CECEP China Qiyuan Engineering Corporation in Xi'an was successfully connected to the grid and put into operation, becoming China's largest single-station geothermal heat source project. China Qiyuan Engineering Corporation also completed and commissioned Asia's largest agrivoltaic integration project—the Phase I Kokdala Super Pasture Project of CEC Nongchuang. CECEP Guozhen Environmental Protection Technology Co., Ltd. actively advanced integrated "sewage treatment + photovoltaic + energy storage" projects. CECEP Industrial Energy Conservation Co., Ltd. invested in a biogas purification project linked to waste-to-energy in Feixi.

# Enhancing Resilience through International Expansion

Against the backdrop of deepening globalization and the "dual circulation" development pattern, central SOEs' global business deployment is both a strategic imperative and a key pathway to building global competitiveness. CECEP strives to develop influential overseas projects in energy conservation and environmental protection, contributing China's wisdom and solutions to global efforts in maintaining supply chain resilience and addressing climate change.

# Accelerated Overseas Market Expansion and Strengthened Partnership Network



Anchored in its internationalization strategy, CECEP participates in global industry division, promotes Chinese solutions, supports industrial upgrading and livelihood improvement in "Belt and Road" countries, and actively promotes the international dissemination of Chinese technical standards, management models, and green development concepts. These efforts steadily advance CECEP's overarching strategy for high-quality growth.

## **Results Achieved**

- As of today, ten second-tier subsidiaries of China Energy Conservation—China Geo-Engineering, China Qiyuan Engineering Corporation, CECEP Wind-power Corporation, Valiant Co., Ltd., CECEP Techand Ecology and Environment, CECEP Solar Energy, CECEP Guozhen Environmental Protection Technology, and three others—operate in 107 countries and territories across Asia, Europe, the Americas, Africa and Oceania, including 39 Belt and Road economies.
- In 2024, CECEP Techand Ecology and Environment signed the Dubai Meydan Cloud Creek Residential and Landscape Project, the Group's largest single overseas award in recent years; CECEP Guozhen Environmental Protection Technology secured Ethiopia's largest wastewater-treatment project; and China Environmental Protection Technology, in consortium with China Geo-Engineering Overseas Group, won the DBO contract for an Ethiopian wastewater-treatment plant.



# Strengthening the Foundation for Steady and Enduring Progress

Party building provides the ideological anchor, governance reform enhances quality and efficiency, risk management fortifies the bottom line, and safety serves as the fundamental safeguard. CECEP systematically builds a support framework for high-quality development, transforming the institutional advantages of a modern enterprise with Chinese characteristics into governance effectiveness. This foundation ensures systemic security for advancing national strategies and injects strong momentum into sustainable development.

# **Risk and Opportunity Management**

Risk / Opportunity	Potential impact	Response Measures
Policy Change and Market Competition Risk	Continuous policy updates may affect corporate development; intensifying competition in the green industry sector may exert market pressure.	Deepen the implementation of SOE reform enhancement initiatives, develop and execute the "Quality and Efficiency Improvement" plan, focus on core responsibilities and main business, and cultivate new quality productive forces.
Compliance Risk	May expose the Company to vio- lations, leading to legal disputes, financial loss, and reputational damage.	Establish and improve the compliance management system, strengthen internal controls, conduct compliance training, and enhance awareness of compliance and risk prevention.
Safety Risk	Natural disasters or production safety accidents may threaten the safety of corporate assets and personnel.	Develop a safety management system, conduct safety inspections, hazard identification, emergency drills, and personnel training to raise safety awareness.





# Strengthening the Party's Role as the Soul of the Enterprise and Consolidating the Foundation

The CECEP Party Committee adheres to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era as its guiding ideology, earnestly implements General Secretary Xi Jinping's important discourses on the reform and development of state-owned enterprises and on Party building and closely aligns with the strategic decisions of the SASAC Party Committee. Centering on the theme of "quality and efficiency improvement" and leveraging disciplinary education as a key tool, the Company focuses on enhancing the political and organizational functions of grassroots Party organizations. CECEP comprehensively strengthens political development, deepens ideological guidance, and consolidates organizational foundations to provide strong political assurance for building a world-class industrial group in energy conservation, environmental protection, and health.

# **Political Development**

The Group places Party political development as the highest priority. We firmly uphold the "Four Consciousnesses," resolutely safeguard General Secretary Xi Jinping's core position in the CPC Central Committee and in the whole Party, and resolutely uphold the authority and centralized, unified leadership of the CPC Central Committee. We deeply understand the decisive significance of the "Two Establishments," continuously enhance political judgment, political understanding, and political execution while upholding the "Two Upholds." The Group reinforces political responsibility, emphasizes political standards, strengthens implementation of the Party building accountability system, and promotes the full and strict governance of the Party.

# **Party Discipline Education**

In accordance with the unified arrangements of the CPC Central Committee and the SASAC Party Committee, the Group's Party Committee thoroughly studied and implemented General Secretary Xi Jinping's important speeches and instructions on Party discipline education, always treating this task as a major political responsibility. Through the collective study of the Party Committee's theoretical learning center group, cadre workshops, and the "CECEP Lecture Hall," the Group focused on the General Secretary's important discourses on strengthening Party discipline, the guiding principles of the Third Plenary Session of the 20th CPC Central Commission for Discipline Inspection, and *the Regulations on Disciplinary Actions of the Communist Party of China*, aiming to further advance the full and strict governance of both the Party and the enterprise, ensuring the implementation of the important "2·26" directive.

In 2024, we formulated *the Implementation Plan for Party Discipline Education* and a key task list, detailing 16 specific measures in 8 areas. A total of 565 Party organizations and over 8,500 Party members across the system studied the *CPC Disciplinary Regulations* in a systematic manner. The Group held two sessions of themed study classes for the Party Committee on Party discipline, combined with expanded sessions of the theoretical learning center group. In total, 80 center group study sessions, 50 reading seminars, and 3,200 "Three Meetings and One Class" sessions were conducted. Party organizations at all levels made full use of Party schools and cadre academies, organizing more than 40 expert seminars via video links and regional collaborations, as well as 84 sessions of warning education, achieving full Party member coverage.



# **CECEP Lecture Hall Widely Welcomed**

In June 2024, CECEP hosted the second session of the 2024 "CECEP Lecture Hall." Mr. Xian Tieke, a member of the Standing Committee of the National People's Congress and member of the Supervisory and Judicial Affairs Committee, was invited to deliver a special lecture titled *Discipline in Mind, Steady Progress – The Fight Against Corruption is Always Ongoing.* The lecture provided indepth interpretation of the significance, core principles, and practical requirements of the revised *CPC Disciplinary Regulations*, guiding Party members and cadres across the system in fully understanding the revision.



The Second Session of the CECEP Lecture Hall



#### Party Discipline Education Achievements Recognized

CECEP's Party discipline education efforts were featured in issues 1 and 14 of the Party Discipline Education Briefing issued by the SASAC Party Committee. The SASAC website published an article titled *CECEP: Advancing Party Discipline Education through Quick, Deep, and Integrated Action*, highlighting the Group's best practices in deepening and solidifying Party discipline education.

# Deepening Political Inspection and Rectification

The Group thoroughly studied and implemented *the Regulations on Inspection Work of the Communist Party of China*, comprehensively revised *the Inspection Work Measures of the Group Party Committee* and other supporting systems, and proposed 44 "observation points" and 165 "yes-or-no" questions as the focus of supervision. CECEP comprehensively aligned with the requirements of SASAC's inspection of central enterprise Party committees and carried out two rounds of inspections. The Group also conducted pre-inspection training to improve the professionalism and effectiveness of the inspection teams.

In parallel, the Group promoted synchronized progress on the special inspection review from the SASAC Party Committee and internal inspection rectifications, driving system-wide, vertically coordinated improvements in inspection practices. In 2024, 15 secondary and tertiary Party committees conducted inspections of 52 affiliated company Party organizations, contributing to the normalization and institutionalization of inspection rectifications and fostering a clean and upright corporate environment.

In May 2024, the Group Party Committee convened the Inspection Work Conference and Mobilization Meeting for the First Round of Inspections in 2024. The meeting conveyed the spirit of the National Inspection Work Conference, the mobilization meeting for the third round of the 20th Central Committee inspections, and the SASAC Party Committee's mobilization meeting for the first round of inspections in 2024. The Group reviewed the work of the previous year and deployed key tasks for the current year.



Inspection and Supervision Work Meeting and 2024 First-Round Inspection Mobilization and Deployment Conference

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# Party Conduct and Integrity Building

The Party Committee of the Group insists on a dual approach of political oversight and disciplinary rectitude, comprehensively implementing accountability for Party conduct and integrity. Weheld a conference on Party conduct, anti-corruption, and warning education, signed responsibility agreements with Party organization secretaries of secondary subsidiaries, and formulated The 2024 Key Tasks for Party Conduct and Lntegrity Building and the Working Rules of the Leading Group for Party Conduct and Anti-corruption Work to establish a systematic accountability framework.

We integrated Party discipline education with special rectification campaigns, launching The *Special Action Plan to Address Misconduct Around the People*. Focusing on issues identified in SASAC Party Committee's inspections, such as work style, harm to employees' interests, formalism, bureaucracy, and grassroots corruption, we comprehensively promoted education, relief of burdens at grassroots level, and corruption rectification. Misconduct harming employee interests was severely addressed, forming a closed-loop mechanism of supervision, education, and correction, thus fostering a clean and upright political environment for reform and development.



## **Strengthened Supervision of Leadership Teams**

In 2024, the Discipline Inspection Commission of China Energy Conservation enhanced supervision over Party organization heads and leadership teams at all levels, conducting 9 supervisory talks, urging them to be self-disciplined, responsible, and strictly manage subordinates. The political integrity, competence, and probity of personnel appointments were strictly reviewed, with 17 feedbacks provided on integrity assessments, effectively preventing the promotion of individuals with integrity issues.

# **Ideological Development**

Ideological development is a fundamental aspect of Party building—crucial for unifying will, guiding direction, and fostering cohesion. The Party Committee of the Group consistently regards ideological development as a soul-crafting project, adhering to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era as its guiding compass. We have firmly implemented mechanisms such as the "First Topic", "Top Priority", and "First Lesson" systems.

# **Continued Reinforcement of Theoretical Grounding**

The Group's Party Committee has deepened the implementation of Xi Jinping Thought by strengthening political leadership and improving the "First Topic" learning mechanism centered on studying General Secretary Xi's key speeches and instructions. In 2024, the Group conducted 7 training sessions for Party cadres, 1 reading seminar, and 10 study sessions by the Party's central group. We also observed theoretical sessions of 5 subsidiaries. This facilitated deepening, internalizing, and applying theoretical learning, helping institutionalize the outcomes of thematic education and providing solid ideological support for reform and development.



#### **Translating Theoretical Innovation into Practice**

In April 2024, Leadership of the Group published a theoretical article titled *Shouldering the Political Responsibility of Building a Beautiful China in Study Times*. The article systematically elaborated on central SOEs' political responsibility in ecological civilization and demonstrated how such responsibility can be translated into technical solutions, governance models, and industrial contributions—offering a replicable model of integrated knowledge and action for building a Beautiful China.



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# Securing the Ideological Frontline

The Group has firmly upheld ideological leadership by fostering consensus through cultural influence and motivating morale through exemplary models—laying a strong ideological foundation for unity and action. In 2024, a "Clean Cyberspace" special campaign was launched, alongside the issuance of a notice on studying the Regulations on the Online Behavior of CPC Members. The Group also reinforced guidelines for improving the moral and ideological quality of Party members and employees. Key achievements included the celebration of the 103rd anniversary of the CPC, poverty alleviation work, and efforts in united front work. A total of 17 issues of the Pioneer Party-building newsletter were published.



#### Sustained Advancement of Spiritual Civilization

In 2024, China Energy Conservation actively participated in the "2024 Central SOEs Core Socialist Values Microfilm/Microvideo and Grassroots Theoretical Promotion Video Showcase" campaign.

The CECEP Wind-power Corporation Co., Ltd.'s submission *Winds Rise over Majestic Mountains* won the "5th Core Socialist Values Microfilm Excellence Award". CECEP Guozhen Environmental Protection Technology Co., Ltd.'s submission 'earned the "2024 Central SOE Grassroots Theoretical Promotion Video Excellence Award."



# Youth Ideological Leadership and Innovative Breakthroughs

In accordance with the requirements of the Communist Youth League Central Committee's Opinions on Consolidating and Expanding the Achievements of Thematic Education for League Members and Youth on Studying and Implementing Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, the Group has innovated youth ideological education platforms and deeply integrated political guidance with job performance to consolidate learning outcomes.

In 2024, we held the third session of the "Youth Marxist Training Program," sending 65 youth representatives to Jinggangshan for a thematic study session on the 3rd Plenary Session of the 20th CPC Central Committee. We studied General Secretary Xi Jinping's messages to youth on the May Fourth Youth Day, hosted a discussion forum, conducted three high-quality youth book salons, launched the first "I Am an Ecological Interpreter" contest, and established the CECEP Youth League's "Beautiful China" lecture team. A 12-member "Beautiful China" Publicity Team was established under the Youth League Committee of China Energy Conservation Group, and two members received the National Excellent Environmental Interpretation Award.



# Remarkable Progress in New Media Platforms

In 2024, the "China Energy Youth" WeChat public account published 85 articles with over 60,000 total reads. The Central SOE Youth League Committee highlighted CECEP's achievements in articles such as *Looking Back at 2024: Top Ten Buzzwords of CECEP's Youth Work* and *CECEP Hosts May Fourth Youth Festival Events and Youth Forum*.

# **Organizational Development**

# Upholding a Strong Focus on Grassroots Development

The Group has focused closely on the "Seven Priorities" of grassroots Party building, fully implementing the *Guidelines for Appointing Party-Building Instructors*. These efforts enhanced the standardization, functionality, and operational effectiveness of Party organizations, strengthened the selection and capacity-building of three key groups (Party members, officials, and reserve cadres), and ensured comprehensive coverage of foundational Party education and management. Adapting to enterprise realities, the Group explored flexible modes of Party functioning, carried out practical initiatives under the "Party Building +" model, and deepened Party development in mixed-ownership and overseas units. New integration approaches between Party work and core operations were also actively tested. The Group standardized and streamlined assessments of Party-building responsibilities in second-tier subsidiaries, setting scientific evaluation metrics, improving assessment methodologies, ensuring appropriate differentiation, and strengthening the application of evaluation results.

# Comprehensive Construction of the Youth Work System

The Group promoted youth work through Party-led initiatives, encouraged standardized development to boost Youth League vitality, and guided young people to take the lead in technological innovation and tackling urgent and challenging tasks—demonstrating the strength of youth. In 2024, we completed the Youth League Committee reshuffle, promoted standardized development in five second-tier youth organizations including CECEP Environmental Protection Investment Development (Jiangxi) Co., Ltd. and CECEP Solar Energy Co., Ltd. subsidiaries. We deepened the "Outstanding Youth Recommendation for Party Membership" mechanism and established an integrated Party-League talent development system. It recommended five outstanding young individuals for Party membership and built a talent pool of 32 League-affiliated youths. Flagship events such as the "Youth Official Document Writing Contest" gained increasing influence under the "One Enterprise, One Brand" initiative.

# **Empowering Talent Development**

"Forge a High-caliber, Professional Workforce to Support, High-quality Development," the Company has established a full-chain talent cultivation system encompassing selection, training, utilization, and retention. This system provides solid intellectual support for deepening reform and contributing to the national "dual carbon" strategy. In the Year, the Company enhanced grassroots managerial capacity by holding the 14th session of foreman training, organized participation in the national "Red Flag Cup" Foreman Competition, and received an "Organizational Award" in the semi-finals. We also strengthened the construction of skilled talent teams by advancing the development of the Xiangtan Craftsman College and institutions under Jinghe Technology Co., Ltd. (a subsidiary of the CECEP Environmental Protection Investment Development (Jiangxi) Co., Ltd.), thereby enhancing social training and evaluation qualifications.



# Strengthening the Construction of Youth Commando Teams

In the Year, the Company registered a total of 176 youth commando teams, including 69 general teams and 107 specialized teams. Among these, 14 teams focused on the reduction of outstanding receivables and inventory as well as law-based recovery, 67 teams on improving quality and efficiency, and 26 teams on technological innovation. Each team, at various levels, conscientiously implemented the Company's decisions on key initiatives, actively advancing critical tasks from their respective positions and taking on urgent, difficult, and high-risk assignments.



# Diversifying Team Building Formats

In the Year, the Company held its 13th Team Building Work Conference and produced a promotional video titled *Uniting Efforts to Cultivate Fertile Ground for Teams, Forging Pioneers in Green Development—A Record of Team Building by CE-CEP.* We hosted two forums, "Red Flag Teams Exchange" and "Face-to-Face with Model Workers," using a mix of on-site case presentations, experience sharing, host interviews, and audience interaction to promote the spirit of model workers, labor, and craftsmanship, galvanizing employee engagement and supporting further upgrades of reform in industrial relations.

# **Governance Innovation: Unlocking Reform Vitality**

The Company fully activated the momentum for high-quality development and deepened the implementation of SOE reform enhancement actions. Using governance innovation as a driving force, it coordinated efficiency improvements with law-based operations and transitioned from "Scale Driven" to "Quality and Efficiency-oriented Growth." This marks a practical pathway where governance innovation empowers green development.

# **Improving Quality and Efficiency**

The Year was designated as the "Year of Quality and Efficiency Improvement." The Company resolutely implemented the decisions of the CPC Central Committee and the State Council on SOE reform and development, taking national strategies and industry upgrading as its mission. Guided by the "Five Dimensions of Value," it focused on core responsibilities and built new productive forces to support the green, low-carbon, and circular development system.

# Strategic Leadership

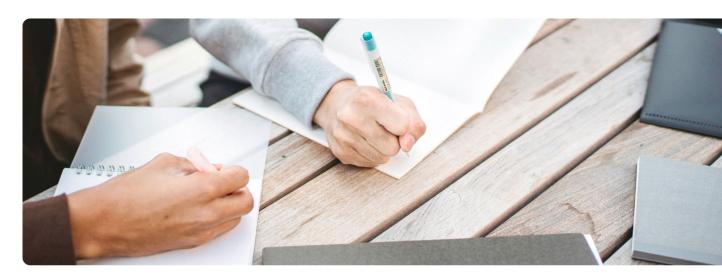
To align with high-quality development goals, the Company issued the Implementation Plan for the Year of Quality and Efficiency Target Path Responsibility grassroots units, ensuring the implementation of key goals such as sustained optimization of five profitability and efficiency ratios. Strategic leadership was thus transformed into industrial competitiveness.

# **Institutional Safeguards**

Adhering to the principle Upholding Both Party Leadership and Corporate Governance the Company refined the modern corporate system with Chinese characteristics. It institutionalized market-oriented operations and incentive–constraint mechanisms, turning institutional advantages into governance effectiveness and strengthening the structural foundation of market-oriented reforms.

# In the Year, the Company

- Dynamically optimized the list of pre-approval items to improve the alignment and efficiency of decision-making among the Party Committee, the Board of Directors, and management.
- Refined the external director evaluation mechanism, building a high-quality external director team to ensure more professional and effective board operations.
- Deepened the reform of the Three Institutional Mechanisms by promoting competitive selection for managers, implementing elimination policies for underperformers, and ensuring proper execution.
- Implemented special incentives for outstanding teams and individuals, and supported subsidiaries in recruiting high-end talent through dedicated wage quota policies.



# **Structural Optimization**

Focusing on its core businesses, the Company accelerated professional integration and strategic restructuring to enhance the allocation and operational efficiency of state-owned capital, laying a solid foundation for sustainable development.



- Achieved breakthroughs in key areas such as reducing legal entities and recovering receivables. We reduced 155 legal entities, surpassing the annual target one year ahead of schedule.
- Recovered a total of 4.434 billion yuan in cash through targeted collection actions, continuously improving asset operation efficiency.

# Innovation-Driven Development

Adhering to the strategy of prioritizing innovation, the Company organized continuous improvement activities on production sites and implemented quota-based management of operations and maintenance. Grassroots enterprises uncovered potential and improved efficiency through cost reductions in technology and management, as well as energy conservation. Major production consumption indicators decreased year-on-year.

Meanwhile, the Company advanced refined and standardized management by establishing operational and maintenance indicator libraries for key business segments such as waste-to-energy, wind power, solar power, and wastewater treatment, and by setting engineering cost benchmarks for wind, solar, solid waste, and water sectors—enhancing the efficiency and effectiveness of production processes.



#### **Promoting Mass Innovation Practices**

At CECEP, young employees emerged as a key force for innovation. Centered on the "Year of Quality and Efficiency Improvement," they conducted in-depth discussions and contributed 910 suggestions through the "My Proposal for Quality and Efficiency" campaign. These covered areas such as strategic management, market expansion, and risk prevention, and were implemented in real work scenarios, injecting wisdom into the Company's actions.

# **Market Expansion**

Focusing on major national regional development strategies, the Company accelerated the establishment and improvement of its domestic market development system, targeting key markets with determined efforts. In the Year, the Company optimized top-level design by issuing the Construction Plan for the Domestic Market Development System. This plan gradually improved a tiered framework where the Company headquarters coordinates overall strategy, second-level subsidiaries and regional centers serve as primary actors, and third-level subsidiaries and project teams engage in localized and rolling development. The Company engaged in high-level exchanges with five provinces and regions—Beijing, Shanxi, Jiangsu, Hainan, and Inner Mongolia—as well as with 28 municipalities including Zhangzhou and Hezhou, continuously deepening central-local cooperation. Signed and approved projects increased by 6.73% yearon-year, and newly added capacity in the new energy sector hit record highs.

# **Law-Based Governance**

The Company thoroughly implemented the State-owned Assets Supervision and Administration Commission's (SASAC) directives on law-based enterprise governance. The Party Committee assumed principal responsibility for legal governance, embedding rule-of-law thinking throughout the implementation of the Dual Carbon strategy and green industry development. A coordinated governance mechanism was built integrating legal compliance, internal control, auditing, and accountability. The Company also conducted diversified legal awareness campaigns and implemented targeted, pragmatic initiatives, steadily advancing law-based governance. Efforts were made to improve the system of Chief Legal Counsel and strengthen organizational safeguards for integrated compliance management, thereby ensuring robust legal support for corporate reform and development.

# **Governance System**

The Company continued improving its modern corporate governance system with Chinese characteristics, ensuring organic unity between Party leadership and corporate governance. It strictly followed procedures requiring prior deliberation by the Party Committee, and formulated rules of procedure for Party Committee meetings, Board meetings, and executive management meetings. The Board of Directors now fully covers all required structures, with a majority of external directors as mandated reforms, while term-based and contract-based management for executives is being fully implemented. The governance framework has clarified the responsibilities of each body: the Party Committee sets direction, oversees the big picture, and ensures implementation; the Board sets strategy, makes decisions, and mitigates risk; and the management executes operations, enhances administration, and drives implementation. These roles form a system of coordinated operations and effective checks and balances.

As of the Year, the Board consisted of nine directors, including five external directors, ensuring its operations are professional and effective. Four special committees have been established under the Board: the Strategy Committee, the Nomination Committee, the Remuneration and Appraisal Committee, and the Audit and Risk Management Committee, providing expert consultation to support Board decision-making.



# 2024 Law-Based Governance Conference

In October 2024, the Company held its annual law-based governance conference in Beijing. Senior executives of the Company attended the meeting and delivered remarks, setting out key requirements for advancing the Company's legal governance. They emphasized the need to apply rule-of-law thinking to promote all aspects of business and management, ensuring that law-based and compliant practices are fully integrated throughout the Company's operations. The speeches also called for further strengthening of capabilities in five key areas to ensure that high-quality legal governance supports the Company's high-quality development. In addition, the integration of legal affairs with the Company's core reform and development tasks was highlighted, along with the importance of reinforcing the Three Lines of Defensein compliance management, with a focus on achieving tangible results while laying the groundwork for longterm effectiveness.



CECEP Convenes 2024 Annual Law-Based Governance Conference

# Risk Barriers: Safeguarding the Development Baseline

The Company continued to fortify the bottom line for high-quality development by addressing both root causes and symptoms through a comprehensive, multi-pronged approach. We further improved our compliance management system and steadily advanced the integrated construction of legal affairs, compliance, internal control, auditing, and accountability mechanisms. The Company also strengthened risk control in key areas, proactively resolved risks in critical subsidiaries, and formulated comprehensive support plans to help troubled enterprises, firmly safeguarding the baseline of preventing major risks.

# **Compliance Management**

Compliance management is the lifeline for the Company's long-term, steady development. The Company strictly abides by laws and regulations, adheres to a bottom-line mindset, upholds compliance as a core principle, and maintains honest and law-abiding operations. We systematically optimized our regulatory framework to provide institutional safeguards for stable and sustainable development.

In the Year, the Company made steady progress in building a comprehensive compliance system, establishing a "1+N" compliance policy framework. *The Compliance Management Policy* clearly defined the overall objectives, responsibilities, key areas, operational guidelines, performance evaluation, and supervision and accountability mechanisms for compliance management. *The Compliance Management Manual* provided guidance for the formulation and implementation of specialized compliance manuals across various business areas. A grid-based management model was established, covering 11 major business domains, 45 key compliance focus areas, 269 negative lists, and 263 compliance obligations. The Company also continued to improve standardized compliance management by issuing a series of specialized guidelines covering safety and environmental protection, overseas anti-bribery, overseas labor practices, and overseas anti-unfair competition.

Following the principle of Whoever Manages the Business is Responsible For Compliance the Company establishes a compliance management system characterized by full participation, end-to-end monitoring, and full coverage—forming a Three Lines of Defense structure. The first line of defense lies with business departments. All business operations must integrate compliance, making it a precondition for corporate activity. Compliance must be embedded into business processes, with department heads and compliance managers playing a frontline role. The second line of defense consists of the compliance management department, which serves as a central hub for coordination and oversight. It ensures a 100% review rate for major decisions and continuously improves the quality of compliance reviews. The third line of defense is supervision and accountability, where disciplinary, audit, and inspection departments actively collaborate to investigate violations, enforce strict accountability, and use each case to educate and deter across the organization.

For overseas operations, the Company issued three tailored *Overseas Compliance Guidelines*, establishing a grid-based, full-coverage compliance management model adapted to local conditions.

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Sharing Development, Nurturing Well-being

Appendix

# **Risk Control**

Risk prevention and control serve as the foundation for the Company's stable development. The Company focused on enhancing its risk resilience and improving operational quality by building a long-term risk prevention and control mechanism. It identified risk bottlenecks and management vulnerabilities, actively resolved risks facing key subsidiaries, and further strengthened its role in ensuring a secure and sustainable transition toward green economic and social development.

## **Institutional Foundations**

Using a system-building approach, the Company continuously improved its risk management and internal control mechanisms, promoting more standardized and refined management. Through initiatives such as risk awareness campaigns, policy development, risk assessments, and the formulation of response plans, the Company establishes a risk and internal control system with CECEP characteristics.

## Five-Level Coordination Framework

The Company formed a risk management system involving the Board of Directors, the Audit and Risk Management Committee, the executive team, functional departments, and second-level subsidiaries. This framework ensures clear responsibilities and tiered control.

# **Operational Policies**

The Company successively issued several key documents, including the Comprehensive Risk Management Policy, Risk Analysis Report Management Measures, Investment Project Risk Management Regulations, Risk Management Handbook, Internal Control System Construction Guidelines, and the Internal Control Handbook, to ensure that risk management is well-regulated and traceable.

## Delegation of Authority Management

By clarifying responsibilities between the management and executive levels through process optimization, the Company built a clearly defined, mutually constrained accountability system to prevent operational risks at the source.

## **Proactive Prevention**

The Company adheres to a strategy-oriented approach by embedding risk prevention into its overall development agenda. Centered around the annual strategic objectives, it systematically conducted risk identification and assessment to pinpoint major risks that could hinder the implementation of strategy or disrupt daily operations, and developed targeted solutions accordingly. Through dynamic monitoring and vertical, penetrative oversight, the Company integrates risk control into the entire business cycle, enabling early warning systems to be deeply aligned with actual business operations.



#### Strengthening Risk Prevention with Digital Tools

Leveraging its financial statement management platform and the second phase of its treasury management system, the Company organized annual major risk assessments and quarterly quantitative monitoring of key risks. A digital early warning mechanism was established, built on these financial platforms, incorporating tools for detecting fictitious transactions and unauthorized affiliations. Visual dashboards for accounts receivable and payable, as well as for risk indicators, were developed to deliver real-time alerts. These tools enabled monitoring of over 60 critical areas, including account management, fund settlement, and financing operations, thereby significantly enhancing the Company's risk response capabilities.

# **Strengthening Internal Control**

With a focus on process optimization, the Company continuously improved its internal control system in response to evolving external laws, regulations, policies, and supervisory directives, while taking into account its own management practices. The aim was to standardize operational procedures, control process-level risks, and ensure that all business activities are conducted in accordance with established protocols and legal requirements.

Since 2012, the Company has revised its *Internal Control Handbook* annually to refine management processes and reduce the probability of procedural risks during task execution. Each year, based on issues identified through internal control assessments and other supervisory inspections, the Company organized targeted rectification initiatives, formulated remediation plans for control deficiencies, assigned responsibilities to specific departments, and advanced implementation through centralized inspections and self-supervision. These efforts enabled the Company to promote improvement through correction and reduce the likelihood of risk occurrence.

For subsidiaries with significant legacy risks, the Company developed comprehensive support plans to facilitate turnaround and risk resolution. Key initiatives such as the reduction of outstanding receivables and inventory, streamlining of legal entities, and governance of loss-making enterprises were vigorously implemented to effectively stop financial "Bleeding Points."

# Safety as the Foundation: Strengthening the Corporate Defense Line

The Company adhered to the guiding principles of General Secretary Xi Jinping's important instructions on production safety and disaster prevention, mitigation, and relief. It fully implemented the primary responsibility for safety management, advanced the three-year action plan for tackling fundamental safety issues, and deepened the development of intrinsic safety capabilities to effectively prevent and resolve major risks. In the Year, the Company reported no major or severe production safety accidents across all business units, maintaining a stable and improving safety performance.

# **Safety Management**

# Continuous Improvement of the Safety Supervision System

The Company steadily improved its safety management system, supported by 39 institutional documents, procedures, and regulations. It strengthened organizational safeguards and established a distinctive "Four Must-Haves" safety framework tailored to CECEP's needs.

For leadership teams at all levels of legal entities, the following requirements were strictly implemented:

- Must include a leader responsible for safety and environmental protection
- Must have a full-time or part-time Chief Safety Officer
- Must establish a dedicated or combined safety and environmental protection department
- Must employ full-time safety and environmental protection personnel

As of the end of the Year, more than 800 legal entities and their key branches had fully implemented the "Four Must-Haves." Across the Group, over 800 full-time and part-time safety personnel were assigned, including 303 certified safety engineers, initially forming a professional safety workforce with certified engineers as the backbone.



# Thorough Investigation and Rectification of Hazards

The Company fostered a vertically integrated safety management structure with shared responsibility across all levels. We issued the *Trial Compilation of Internal Major Safety Hazard Determination Standards of CECEP*, including 665 specific determination criteria. Throughout the Year, more than 47,000 safety hazards were rectified and eliminated. Internal reporting of potential accident hazards led to over 3,300 employee rewards, with a total incentive amount exceeding RMB 440,000—laying a solid foundation for maintaining overall safety stability across the Group.

#### In 2024

- The Company held **3** Group-wide safety production conferences and **7** special sessions of the Party Committee Standing Committee to study and implement General Secretary Xi Jinping's directives on safety and disaster prevention, as well as national and central SOE safety conference guidance.
- Group executives led **42** safety inspections and field visits, organizing special inspections during key periods such as before and after Spring Festival, during the "Two Sessions," around Labor Day, and throughout the flood season. **6** rounds of routine safety inspections were conducted, and over **800** hazards were resolved at the Group level.
- Primary-level subsidiaries emphasized the role of top leadership in safety management, addressing and rectifying **243** major hazards through inspections and supervision.



#### Three-Year Action Plan for Tackling Fundamental Safety Issues

In line with the national three-year action plan for addressing root causes of safety risks and the corresponding plan for central SOEs, the Company developed an implementation framework based on "one overarching requirement + 45 specific tasks + five supporting measures," covering nine major actions. Coordinated between headquarters and second-level subsidiaries, a detailed task list comprising 1,299 key items was developed.

As of the end of 2024, 822 tasks had been completed, representing 63.27% of the total. The Company issued 54 safety notices and risk alerts during the Year, focusing on key industries and critical operations such as construction, hazardous chemicals, manufacturing, transportation, gas, power, high-rise buildings, public gathering places, and electric bicycles, with targeted prevention and mitigation efforts.

# **Safety Drills**

Upholding the principle of People First, Life First the Company rigorously organized emergency drills and actively participated in the nationwide "Work Safety Month" campaign under the theme "Everyone Speaks Safety, Everyone Knows Emergency Response—Unblock the Lifeline." 12 core activities were implemented to enhance safety awareness across the Group. Throughout the Year, over 3,200 emergency response drills were conducted across the Group.



#### CECEP Solar Energy Co., Ltd. Hosts Comprehensive Emergency Drill for Natural Disasters

In June 2024, CECEP Solar Energy Co., Ltd., a subsidiary of the Company, hosted a comprehensive emergency drill for natural disasters in the new energy sector. The exercise was jointly organized by the Guizhou Regulatory Office of the National Energy Administration and the Guizhou Provincial Energy Administration, significantly improving the Company's capacity to respond to natural disasters.



Guizhou Natural Disaster Emergency Drill

# **Safety Culture**

Guided by the goal of achieving "intrinsic safety and environmental protection," the Company emphasized the importance of establishing strong standards, strengthening training, and cultivating a robust safety culture that evolves from institutional enforcement to value-based recognition.

The Company continued to deepen the construction of its standardized safety system. In the Year, nine sites were newly recognized as "CECEP Beautiful China Construction · Safety and Environmental Protection Standardized Demonstration Sites," and ten entities were awarded "Demonstration Units." To date, a total of 36 demonstration sites and 34 demonstration units have been established, inspiring subsidiaries to proactively enhance intrinsic safety and environmental protection capabilities.



#### Best Practice by General Water of China Co., Ltd.

General Water of China Co., Ltd. was selected by the Ministry of Emergency Management's Publicity and Education Center as one of the Best Practices in Corporate Safety Culture of 2024 (5th Edition) for its "Company-Wide Risk Prevention + Intelligent Monitoring" management system, offering a replicable model of safety standardization for the water sector.





General Water of China Co., Ltd.'s "Company-Wide Risk Prevention + Intelligent Monitoring" Management System

The Company organized a wide range of activities to promote safety awareness. In 2024, a total of 283 specialized events were conducted in alignment with the Work Safety Month theme. Leadership conducted 2,703 safety training sessions, reaching more than 44,000 participants; 783 emergency drills were held with over 12,000 participants; 1,422 accident warning education sessions were organized; and 710 contractor training sessions were conducted. Over 99,000 employees participated in safety knowledge competitions. In total, 287,000 employees received safety training, accumulating 72,000 training hours across the Group.



#### **Safety Knowledge Competition**

The Group's labor union, together with the Safety and Environmental Protection Department, organized a safety knowledge competition under the campaign "Ten Thousand Employees Break Through—Online Safety Challenge." A total of 27,000 employees participated in the event, submitting more than 614,900 answers cumulatively.

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innovation, and actively participate in international climate governance activities.

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# Leading with Green Initiatives, Drawing an Ecological Blueprint

Making the Sky Bluer, the Mountains Greener, and the Waters Clearer development, the Company enhances its core capabilities to better serve the national ecological civilization construction and green development strategies, injecting the sense of responsibility of a central enterprise into the building of a beautiful China.

# **Risk and Opportunity Management**

#### **Risk / Opportunity Countermeasures Reputation and Brand Risk** Environmental incidents may Leveraging the advantages of our tarnish the Company's image and core business, the Company has undermine market trust. established an environmental management system, advanced pollution prevention and control measures, and contributed to regional ecological protection **Compliance Risk** Extreme weather conditions may Improve emergency response impact the Company's production measures for extreme weather operations and the stability of its events, formulate the Carbon Peak supply chain, while policy regula-Action Plan, conduct research on tions may tighten further, posing carbon management, intensify transition risks. efforts in low-carbon technology



# **Low Carbon Navigation**

CECEP has thoroughly implemented the major strategic decisions and arrangements made by the CPC Central Committee and the State Council regarding carbon peak and carbon neutrality. The Company has effectively leveraged its exemplary and leading role as the sole central enterprise primarily engaged in energy conservation, environmental protection, and health sectors. We has formulated the Carbon Peak Action Plan of China Energy Conservation and Environmental Protection Group Co., Ltd. and broken it down year by year, clarifying the leading functional departments or secondary subsidiaries responsible for key tasks and major projects, and proposing corresponding safeguard measures to steadily advance the implementation of the action plan.

## Continuously Refine the Toplevel Design

• The Group Company, based on its business characteristics, has initiated the research project titled Work Plan for Carbon Asset Management exploring specific approaches for carbon emissions management, carbon asset management, and carbon trading management. We has issued and implemented the Measures for Carbon Emissions Assessment of Investment Projects of China Energy Conservation and Environmental Protection Group Co., Ltd. (Trial), further integrating carbon emissions management into the daily operational management of the entire Group, thereby providing robust support for the realization of the Group's "dual carbon" strategic goals.

# Enhance the Layout and Research of Low-carbon Technologies

- Focusing on the Dual Carbon goals, the Group Company has undertaken technological breakthroughs, revising the *List of Key Core Technologies to be Focused on for Breakthroughs by CECEP* and actively advancing research on core technologies in energy conservation, clean energy, and low-carbon environmental governance.
- Among these efforts, the project "Key Technologies and Applications for Intelligent Management and Control of Urban Water Quality Safety," in which the CECEP Big Data Co., Ltd. participated, was awarded the "First Prize for Scientific and Technological Progress in Environmental Protection in 2024."

# Strengthen the Supply of Intellectual Standards for "Dual Carbon" Goals

• The Group actively participates in the national efforts related to Dual Carbon policy formulation, standard-setting, and pilot projects on climate investment and financing, continuously enhancing its influence in the national Dual Carbon Area.



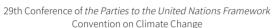
- We commissioned by the Ministry of Ecology and Environment to research and compile the National Key Promotion
   Low Carbon Technology Catalogue (Fifth Batch)
- We commissioned by the National Energy Administration to conduct research on the Guiding Opinions on Financial Support for High Quality Development of Energy project
- Under the guidance and support of the Electronic Information Department of the Ministry of Industry and Information
   Technology, we participated in the construction of the national lithium battery carbon footprint accounting system
- We completed the research on the transition mechanism from dual control of energy consumption to dual control of carbon emissions in the energy sector of Shanxi Province
- We actively assisted Bao'an District of Shenzhen in preparing the near zero carbon work guidelines, screen near zero carbon demonstration projects, and assist Bao'an District in the energy conservation review of fixed assets investment projects
- We assisted in promoting research on climate investment and financing project screening, platform construction, etc.
  in Beijing, Shenzhen, and other cities

In the Year, the Company

#### The Voice of Energy Conservation in China on the International Stage

In 2024, CECEP hosted the side events on "Climate Investment and Financing" and "Chinese Enterprises' Journey Towards Green Development" at the China Pavilion during the United Nations Climate Change Conference (COP29). Prior to this, the Company had jointly organized the side events on climate investment and financing at the China Pavilion during the 27th and 28th sessions of the Conference of the Parties (COP). By doing so, the Company has contributed to sharing China's experiences in global climate governance and voiced the perspectives of central state-owned enterprises, thereby significantly enhancing its domestic and international influence.







29th Conference of the Parties to the United Nations Framework Convention on Climate Change



## Research on Low Carbon Development Evaluation System

In April 2024, SASAC organized the "2023 SASAC Annual Research Project Centralized Evaluation Conference" in Beijing. The research outcome of *the Study on the Evaluation System for Green and Low-carbon Development of Central Enterprises*, undertaken by the Research Center, was rated as "Excellent." This achievement fills the gap in the evaluation of green and low-carbon development among central enterprises and provides a crucial tool for accelerating their green and low-carbon development.





#### **Innovation of Ecological Environment Data Products**

In 2024, CECEP Digital Technology Co., Ltd. engaged in in-depth cooperation with the Ecological Environment Bureau of Hengshui City, Hebei Province, to create the country's first full-process product for transforming ecological and environmental data into production factors, which integrated "ecological and environmental data + privacy-preserving secure computation + green services." This product serves the green businesses of financial institutions and also became the nation's first blockchain-based carbon emission allowance verified carbon asset transaction.

# Integrating Intelligence with Green, Refining Green Operations

# **Environmental Management**

CECEP adheres to the implementation of Xi Jinping Thought on Ecological Civilization, continuously promoting the establishment and improvement of an ecological and environmental protection management system and institutional framework, thereby contributing replicable experiences to enhancing environmental management standards within the industry. In 2024, we revised and refined the systemic and programmatic document *Regulations on Environmental Protection Compliance Management*. Companies at all levels, in alignment with their respective business characteristics, have continuously enhanced their ecological and environmental protection management systems and institutional frameworks, establishing and refining 3,344 relevant institutional documents. A total of 121 entities have obtained certification for their environmental protection management systems. We regularly organize environmental protection training sessions and practical activities aimed at elevating employees' environmental awareness and practical capabilities, ensuring that every employee actively embraces green principles in their daily work and collectively propels the sustainable development of the enterprise.

Meanwhile, CECEP, taking into account its own environmental risks, places great emphasis on the establishment of early warning and emergency response mechanisms for environmental protection, thereby solidifying the defense line for ecological security.

In the Year, the Company

- Develop an *Emergency Plan for Sudden Environmental Incidents*, clarifying the classification and grading of incidents, institutions and responsibilities, monitoring and early warning, graded response, information reporting and emergency response mechanisms;
- Companies at all levels should establish and improve emergency plans for sudden environmental incidents, special emergency plans, and on-site disposal plans based on their own industry characteristics;
- Establish an information management and control platform to manage emergency plans for sudden environmental incidents at all levels of companies, and revise warning prompts **90** days before their expiration date;
- The Group conducted comprehensive inspections, governance, supervision, and assistance for potential ecological and environmental protection risks and hazards. As a result, 270 issues and hidden dangers were eliminated, upgrades of 52 outdated environmental protection facilities and process technologies were completed, and 59 grassroots units were prompted to improve their monitoring and surveillance systems.

# **Green Production**

Relying on the synergistic advantages of its entire industrial chain, the Group integrates the concepts of resource conservation, pollution prevention, and green and low-carbon development into every aspect of its production and operations. We continuously enhances its capabilities in providing comprehensive environmental solutions, aiming to minimize negative environmental impacts.

In 2024, the Group Company compiled and issued the Implementation Plan for Enhancing the Provision Capability of Comprehensive Green Regional Energy and Environmental Solutions, aiming to guide its subsidiary companies in improving the Group Company's capability to deliver comprehensive solutions.

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Each subsidiary of the Company, taking into account their respective business characteristics, has actively made strategic arrangements for the development of emerging technologies and carried out green production and operation practices, resulting in the formation of benchmark projects with industry-demonstration effects:

# CECEP Guozhen Environmental Protection Technology Co., Ltd.'s "Wastewater Treatment Plant + Photovoltaic + Energy Storage" project

the newly installed total capacity of photovoltaic power generation reached 1,350.65 kW, with an average annual power generation of 1.5154 million kWh. One new energy storage power station was constructed, with an installed capacity of 100 kW/215 kWh. The proportion of green electricity increased from 1.49% in 2023 to 2.59%.

# The Feixi Landfill Gas Purification Project of the CECEP Industrial Energy Conservation Co., Ltd.

Focusing on the Yangtze River Economic Belt and provincial capitals as well as economically developed cities in South China, the Company prioritizes the utilization of industrial and sewage waste heat, along with shallow geothermal energy, to provide multi-energy complementary regional clean energy supply services. Upon commissioning, the invested Feixi Landfill Gas Purification Project is expected to save 2,815 tons of standard coal annually and reduce carbon dioxide emissions by 7,320 tons per year.

#### The Low-Carbon Industrial Park Plan of CECEP Industry Development Co., Ltd.

The Company continues to advance the construction of demonstration parks featuring CECEP's distinctive low-carbon (near-zero carbon) industrial parks, and has developed the Green Building Plan for the Zero-Carbon Pavilion in the Near-Zero Carbon Park of CECEP (Jiashan) Intelligent Manufacturing Industrial Park.



#### **Training on Environmental Protection**

From May to October 2024, The Group organized training sessions on the Introduction to Safety and Environmental Protection Regulations in Production Processes, along with an evaluation activity for outstanding works and instructors in training promotion and implementation. A total of 650 training sessions were conducted, reaching 14,000 participants. Fifteen outstanding works and ten excellent instructors in training promotion and implementation were selected, creating a benchmarking and demonstrative effect. This initiative facilitated the widespread application of training outcomes and promoted the in-depth dissemination of key environmental protection points and related knowledge and skills within the production processes across the Group.

# **Green Office**

The Group has established a digital management cloud platform to promote low-carbon and environmentally friendly office practices. By leveraging digital technologies, the Group enables monitoring, analysis, and early warning of energy usage, thereby facilitating energy conservation and consumption reduction. Additionally, the Group encourages green office initiatives, vigorously promotes water and electricity conservation, and utilizes green electricity.

# Preserving Green Waters and Mountains, Fostering Harmonious Ecological Coexistence

Guided by Xi Jinping's thought on ecological civilization, CECEP is committed to realizing a modern vision of harmonious coexistence between humanity and nature. It deeply embeds the concept that lucid waters and lush mountains are invaluable assets into the fabric of ecological governance, injecting the strength of a central state-owned enterprise into painting a harmonious picture in the new era where All Living things Coexist in Harmony and Humanity is In Unity With Nature.

# **Pollution Control**

The Group convened an environmental protection and low-carbon work conference to convey the spirit of the Central Enterprises' Environmental Protection and Low-Carbon Work Conference held by the State-owned Assets Supervision and Administration Commission of the State Council (SASAC). The aim is to encourage units at all levels to further enhance their intrinsic environmental protection capabilities, continuously and thoroughly wage a tough battle against pollution, and firmly uphold the bottom line and red line of ecological security.



- The water treatment capacity is 36.88 tons, and the daily treatment capacity for water production and sewage is 14.083 million tons
- The solid waste processing capacity is **25.846** million tons, with a daily solid waste processing capacity of **102,400** tons
- COD reduction of **523,800** tons



# Development of an Information Supervision Platform for Key Polluting Enterprises

CECEP has developed the "Green Account Big Data Management Platform - Green Archive," establishing a direct and streamlined data pathway for ecological and environmental compliance management. This platform enables a One-Map visualization for key pollution-discharging enterprises, One-Click reporting of issues and hidden risks, and One-Network management of work tasks. After public testing by 682 units, the platform was officially launched, marking a breakthrough from "0" to "1" in the Company's information-based supervision of ecological and environmental protection and ushering in a new chapter of digital governance in this field.



#### Breakthrough in Pollution Control Technology

In 2024, the project "Key Technologies and Applications for Pollution Source Analysis and Systematic Governance of Point and Non-point Sources in Urban Small Watersheds," led and completed by CECEP Guozhen Environmental Protection Technology Co., Ltd., was evaluated by the Chinese Society for Environmental Sciences as having Achieved International Advanced Standards, With Internationally Leading Advancements In Pollution Source Analysis and Spatial Layout Design for Urban Small Watershed Governance."



Appraisal Certificate for Environmental Protection Achievements of CECEP Guozhen Environmental Protection Technology Co., Ltd.



#### The First National Standard for the Treatment and Disposal of Easte Circuit Boards in China

In June 2024, the national standard Requirements for Treatment and Disposal of Waste Printed Circuit Boards (GB/T 44157-2024), in which the China Research Institute under China Energy Conservation and Environmental Protection Group participated in its compilation, was officially issued.

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# **Ecological Protection**

The Group remains unwavering in its commitment to serving major national strategies, shouldering the primary responsibility for pollution control in the Yangtze River Economic Belt. We actively participates in the special planning for ecological environmental protection and restoration in the Yellow River Basin, focusing on developing integrated solution scenarios to contribute to the construction of ecological civilization.

We have developed and enriched a range of integrated solution scenarios, including "Dual-carbon Formulation + Customized Services Ecological Environment Restoration and Governance + Clean Energy," "Green and Low-carbon Development of Industrial Parks + Full Lifecycle Services," "Big Data + Precision Environmental Governance," and "Integrated Protection and Systematic Governance of Mountains, Rivers, Forests, Farmlands, Lakes, Grasslands, and Deserts." These solutions are being deeply promoted and applied in major national regional strategies, such as ecological environment governance in the Yellow River Basin, the construction of the Xiong'an New Area, the Guangdong-Hong Kong-Macao Greater Bay Area, and the integrated development of the Beijing-Tianjin-Hebei region.



#### **Ecological Compliance System**

The Regulations on *Environmental Protection Compliance Management* of CECEP explicitly stipulate that units at all levels must implement biodiversity protection measures in local areas during investment and construction activities. Investment and construction projects shall comply with the overall plans for biodiversity protection formulated by local governments, and construction may only proceed after obtaining compliant approvals.

# **Ecological Greening**

CECEP has focused on enhancing its capabilities in ecological restoration business. We have implemented a series of ecologically significant restoration projects in key regions, which have notably improved local ecological environmental quality, effectively restored ecosystem service functions, and innovatively explored the value of ecological products. These efforts have provided strong support for regional sustainable development.

# "Ecological Environment Restoration and Governance Plus" Industrial Model

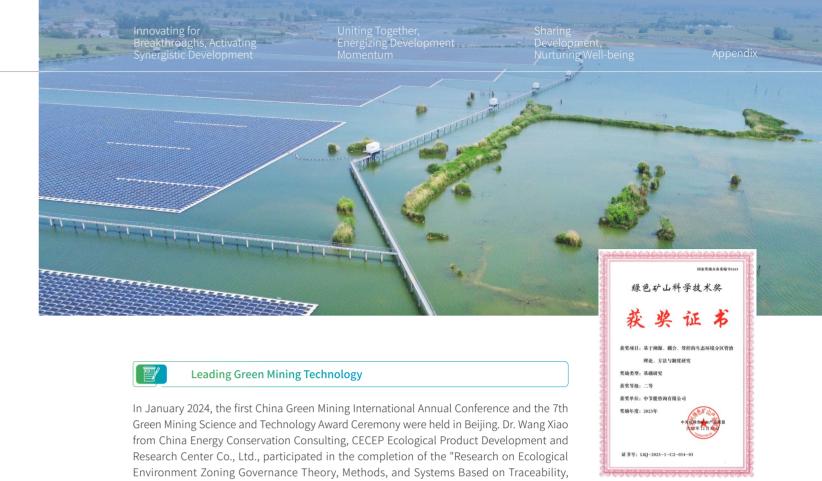
Leveraging its self-developed ecological restoration technologies for river basins and lakes, comprehensive treatment technologies for black and odorous water bodies, seed packets for slope restoration, and remediation agents for heavy metal-contaminated soil, among other ecological environment restoration and governance technologies, the Group has implemented a series of projects, including "Land Quotas + Mine Ecological Restoration + Residual Waste Stone Disposal," "Tailings Management + Ecological Restoration + Bench-Mark Cultural and Tourism Construction + Integrated Development of Industry, City, and Landscape," and "Ecological Restoration + Photovoltaics + Agriculture (Animal Husbandry, Fishery)." These initiatives have formed an ecological product industrial model that balances protection, restoration, and development. In Changxing, Zhejiang Province, CECEP has constructed the nation's first smart agricultural comprehensive demonstration project integrating agriculture, fishery, and photovoltaics. While improving the water quality of local ponds, the project has effectively enhanced land utilization value. According to calculations, the ecological product value generated throughout the project's full lifecycle has reached 2.3 billion yuan.



#### Qinling Mountain and Water Project

As the full-process management service provider for the Qinling Mountains and Waters Project, China Qiyuan Engineering Corporation (a subsidiary of CECEP) has fully leveraged its technological and managerial strengths in the core business of "Ecological Governance." It has implemented comprehensive oversight over the project's four restoration zones—encompassing "One Ecological, One Belt, One Mountain, and Six Water Systems"—by planning and constructing seven major categories of engineering projects with 35 sub-components. These include groundwater recharge, biodiversity conservation, water source conservation enhancement, land consolidation and geological environment remediation, soil erosion control, integrated watershed ecological environment improvement, and intelligent management and control systems.

As of the end of 2024, the Qinling Mountain and Water Project has completed a cumulative ecological restoration area of 35000 hectares, and 668.85 kilometers of riverbank and embankment restoration, enabling the overall protection and systematic restoration of the ecological security barrier at the northern foot of the Qinling Mountains.



Coupling, and Control" project, which won the second prize in the Basic Research category

of the 2023 Green Mining Science and Technology Award.



China Geology Undertakes the Demonstration Project of Ecological Restoration of Abandoned Historical Mines at the Southern Foot of the East Tianshan Mountains in Xinjiang (Turpan City)

In October 2024, the groundbreaking ceremony of the ecological restoration demonstration project for abandoned historical mines at the southern foot of the East Tianshan Mountains in Xinjiang (Turpan City) was successfully held. The launch of this project marks the official start of the first batch of national level ecological restoration demonstration projects for abandoned historical mines in the autonomous region and Turpan City.

The total investment of this project is 520 million yuan, mainly for ecological restoration of 134 historical abandoned mines in the project area, with a cumulative restoration area of 1,599.63 square meters. It plays a crucial role in eliminating geological and environmental safety hazards in mines, repairing and improving the ecological functions of land production, enhancing regional wind and sand fixation capabilities, ensuring the safety of important national facilities and the inheritance of historical and cultural sites, and creating a demonstration model for ecological restoration of abandoned mines in the northwest arid regions and even in the international arid regions at the same latitude.





Ecological Restoration Demonstration Project for Abandoned Mines in the Southern Foothills of the Eastern Tianshan Mountains in Xinjiang (Turpan City)

# Innovating for Breakthroughs, Activating Synergistic Development

CECEP has profoundly grasped the essence and significance of the important expositions on new quality productive forces, conscientiously shouldering the responsibility of serving as the "National Team" for green and low-carbon technological innovation. It has taken proactive initiatives in establishing an industrial technological innovation system, courageously shouldering heavy responsibilities in tackling key core technologies, and accelerating the concentration of production factors toward the development of new quality productive forces.

# **Risk and Opportunity Management**

### **Risk / Opportunity Potential Impact Countermeasures Opportunities for Techno-**The government's support for Build a technology innovation logical Innovation green industries continues to increase, and market demand is around business needs, increase investment, gather science and technology innovation talents, and continuously improve technological level and innovation Compliance Risk Digital means can improve en-Establish a digital transformation management system, starting from actual business and accumu enhance customer experience, and promote business innovation. lating successful practical experi-



# Collaborating for Innovation, Jointly Building an Innovation System

CECEP remains steadfast in implementing the innovation-driven development strategy, adopting a multi-pronged approach to stimulate vitality in scientific and technological innovation. Supported by the synergistic advancements in management system reform, platform and carrier development, and talent pipeline cultivation, the company is accumulating momentum for fostering new quality productive forces.

# **Management System**

Centered around the business development needs, CECEP has continuously improved the construction of its top-level management system, empowering scientific and technological breakthroughs through institutional innovation. In 2024, we successively issued and revised multiple policies, including the *Guidelines on Implementing Enterprises' Leading Role in Innovation, the Administrative Measures for National Science and Technology Special Tasks,* and the Assessment Measures for Scientific and Technological Innovation (2024 Revision). We have consistently strengthened the strategic guidance, institutional standardization, and practical operability of scientific and technological innovation, while solidifying risk management and financial safeguards. These efforts provide a robust institutional foundation for achieving breakthroughs in green technologies and driving industrial upgrading.



2024 Science and Technology Innovation Conference and Artificial Intelligence Conference

In December 2024, CECEP convened its 2024 Science and Technology Innovation Conference & Artificial Intelligence Summit in Beijing.



CECEP Science and Technology Innovation Conference & Artificial Intelligence Summit

# **Innovation Platform**

CECEP has adopted "Platform Foundation-Building and Ecosystem Empowerment" as its core strategy, positioning itself at the forefront of green and low-carbon technology innovation. Through systematic planning, specialized operations, and open collaboration, the company is driving its innovation platforms from quantitative accumulation toward qualitative transformation.

# High End Platform Expansion and Quality Improvement

We promote the construction of the group's R&D platform by category, strengthen the scheduling and management of professional institutes, and add 3 provincial and ministerial level R&D platforms; the second phase of Shunyi Technology Innovation Base of the group company has been officially put into use; organize the establishment of a sub center for the National Building Green and Low Carbon Technology Innovation Center.

# Dynamic Optimization of Innovation Ecosystem

We continuously strengthen the dynamic management and business guidance of high-tech enterprises. Based on sufficient research and investigation, we have determined and released the second batch of recommended "Stop Maintenance" and "Closely Monitor" high-tech enterprise lists.



CECEP Environmental Protection Investment Development (Jiangxi) Co., Ltd. Showcases the Style of "New State-Owned Enterprise"

In May 2024, a media consortium under the "Exploring New SOEs – Pioneering Innovation, Shaping the Future" integrated media campaign visited CECEP Environmental Protection Investment Development (Jiangxi) Co., Ltd., experiencing firsthand the construction and operation of the Smart Integrated Pole demonstration project in Ganjiang New Area.



"Entering the New State Owned Enterprise - Moving towards the New and Intelligent Future" Integrated Media Visit

# **Innovative Talents**

CECEP has optimized its talent strategy by adopting a dual-drive approach of "Internal Cultivation and External Recruitment," establishing a multi-tiered talent development system. Through diversified channels including flexible talent acquisition and university-enterprise joint training programs, the company attracts top-tier scientific research forces while strengthening a full-cycle cultivation mechanism for technical and skilled professionals. Emphasis is placed on building interdisciplinary R&D teams with scientifically structured age gradients, complementary professional expertise, and outstanding innovation capabilities, thereby providing intellectual support for sustainable development.

In 2024, the Group's scientific and technological personnel has exceeded 5,216, of which 80% (4,169) are R&D personnel. High-density allocation of resources are used to tackle technical challenges.

# Pioneering with Technology, Overcoming Technical Challenges

Technology Pioneering, Innovation Breakthrough. CECEP has fully activated its dual-drive engines of technological breakthroughs and industry-university-research integration, unlocking critical links in the industrial chain while accelerating the establishment of an independent innovation system for green and low-carbon technologies.

# **Technological Dreakthrough**

CECEP has continuously optimized its technological deployment, dynamically revised the List of Critical Core Technologies, and made solid progress in tackling key technological challenges, resulting in a steady increase in scientific and technological achievements.



- The R&D expenditure is **1.272** billion yuan, the R&D expenditure is **1.301** billion yuan, and the investment intensity is **2.61%**
- **681** new patent authorizations have been granted, including **320** invention patents and **6** awards at or above the provincial and ministerial levels
- Participated in the preparation of **2** national standards, *Basic Data Standards for Carbon Emission Factors of Civil Buildings* and *Building and Civil Engineering Vocabulary Part 3: Sustainability Terminology*



#### Leading by Ecological Product Value Standards

In May 2024, the Eco-Product Development Research Center under CECEP Environmental Protection Group Co., Ltd. officially released *the General Technical Rules for Eco-Product Value Accounting at Project Level (T/CAQI 363-2023).* This standard represents China's first-ever eco-product value accounting framework specifically designed for infrastructure projects.





#### Green Technology Breakthrough Landing

In 2024, the "Broadband Gap Perovskite-Silicon Tandem Solar Cell Technology" project undertaken by CECEP Solar's Zhenjiang Subsidiary achieved significant improvements in cell conversion efficiency and reduced levelized cost of electricity (LCOE). The project was selected as a pilot initiative under the state-owned enterprises' reform program for empowering professional scientific and technological achievements, and recognized as a key industrial technology innovation project for Jiangsu Province's manufacturing powerhouse construction in 2024 by the Jiangsu Provincial Department of Industry and Information Technology.



#### Running In The Field Of New Materials and High-end Manufacturing

In 2024, Valiant Corporation Ltd.'s thermoplastic polyetherimide (PEI) special engineering material was included in the Product Catalog of Scientific and Technological Innovation Achievements by Central Enterprises (2023 Edition) published by the SASAC of the State Council. Meanwhile, its molecular sieve products for catalytic purification of exhaust gases meeting Euro VI and above emission standards, along with Yantai Jiumu Chemical's OLED materials, were recognized as national manufacturing single champions in the eighth batch of selections.

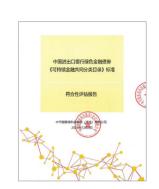


Valiant Corporation Ltd.'s zeolite series environmentally friendly materials



#### **Innovation in Green Finance Business**

In 2024, following certification by CECEP Heng Certification under the Research Center, three green financial bonds issued by the Export-Import Bank of China (Exim Bank), totaling 20 billion yuan, were successfully included in the List of China's Outstanding Green Bonds Aligned with the EU-China Common Ground Taxonomy for Sustainable Finance (hereinafter referred to as the "Common Ground Taxonomy"). These bonds represent the first batch of policy bank debt securities admitted to the list, further diversifying China's high-credit-rating green bond portfolio under the Common Ground Taxonomy framework.



In the Year, the Company

- The Key Technology Research and Application Project for Quality Control of Maca in China has won the third prize of Science and Technology from the China Food Industry Association
- The Key Technologies and Applications for High Quality Development of Marine Organism Collagen won the second prize of the Ministry of Natural Resources Science and Technology Progress Award
- The Key Technologies and Integrated Applications of Low Carbon Flexible Smart Building Regional Energy System won the third prize of Jiangsu Science and Technology Award
- The key technology of high parameter collaborative and efficient clean incineration of multi-source organic solid waste won the first prize of Hainan Provincial Technology Invention Award
- The innovation and application of precise green remediation materials and key technologies for polluted sites won the first prize of Zhejiang Provincial Science and Technology Progress Award

# **Integration of Production and Research**

CECEP remains committed to achieving self-reliance and strength in scientific and technological innovation by establishing a multi-tiered collaborative innovation network. This approach facilitates the transformation of industry-academia-research cooperation from "Physical Collaboration" to "Chemical Integration," thereby comprehensively enhancing our technological competitiveness. In 2024, we actively participated in the construction of innovation consortia among central enterprises, forging in-depth partnerships with other state-owned enterprises.



# Key Technology Innovation Alliance for Intelligent Light Storage and Charging Integration

In November 2024, the Innovation Consortium for Key Technologies in Intelligent Photovoltaic-Energy Storage-Charging Integration was officially established through a signing ceremony at CECEP Solar Technology (Zhenjiang) Co., Ltd. This initiative further promote the deep integration of innovation chains, industrial chains, and talent ecosystems, thereby facilitating the transition from incremental technological innovation to disruptive technological breakthroughs.



Signing Ceremony for the Establishment of a Key Technology Innovation Consortium for Intelligent Light-Storage-Charging Integration

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# Leveraging Digital Intelligence as an Engine, Driving Efficiency Upgrades

CECEP has firmly grasped the strategic initiative of digital management, systematically advancing digital transformation practices through a series of measures including upgrading digital infrastructure, establishing intelligent control systems for key business domains, and fortifying cybersecurity defenses for information infrastructure. These efforts comprehensively unleash the leading role of digitalization in driving management upgrades and business innovation.

# **Digital Management**

CECEP has deepened its digital transformation strategy by systematically establishing a digital governance framework. Through the dual-drive approach of strengthening organizational safeguards and institutional innovation, the company has comprehensively enhanced its digital institutional framework across six key dimensions: work management, project development, safety management, data governance, operation & maintenance (O&M) support, and infrastructure management. In 2024, CECEP successively implemented five institutional norms including the Data Security Management Rules and Cybersecurity Management Work Rules. Concurrently, the Company continued to consolidate its digital platform foundations, providing robust digital resources and O&M support for digital construction initiatives. This effort earned CECEP a perfect score in the special assessment task of "Advancing Digital Supervision Capabilities for State-owned Assets" among central enterprises.

# **Digital Transformation**

The Group Corporation is actively exploring the deep integration of digital technologies with business processes, leveraging scientific and technological innovation to enhance development quality and efficiency while providing digital solutions for pollution reduction and carbon mitigation.

# CECEP Big Data Co., Ltd.

The 2023 White Paper on Market-Oriented Development of Data Elements in the Financial Sector was officially released, and its case study Leveraging Digitalization to Foster Agile Management and Drive Corporate Innovation through Data-Centric Human Connectivity was selected for inclusion in the SASAC's Case Collection for Deepening Reform and Elevating Competitiveness Initiatives.

# Solar Energy Zhenjiang Company

Selected for the Pilot Enterprise List for Digital Transformation of State-Owned Enterprises, with its project "5G+ Photovoltaic Intelligent Manufacturing & Maintenance Integrated Industrial Internet Cloud Platform" chosen for the Pilot Reform Program on Empowering State-Owned Enterprises with Institutional Scientific and Technological Achievements.

#### CECEP Ecological Product Development and Research Center Co., Ltd.

The nation's first project-level information application platform for ecological product value accounting has been awarded the title of "China's Excellent Technology."

## Wind Power Company

Initiated the 2023 Key R&D Project under the "Central Enterprises Advanced Computing Innovation Consortium," focusing on localized breakthroughs in the "Development and Application of Wind Power Centralized Monitoring & Big Data Intelligent System Platform."

CECEP's Digital Archives Project (Phase I) has been launched and successfully passed its preliminary acceptance, with 386,000 electronic documents archived and the system enabling centralized, unified online management of all archive categories across the headquarters.





#### Construction of Smart Energy Management

In December 2024, CECEP's energy-saving practice at the Smart Integrated Energy Station in the High-Speed Rail New Town was successfully selected for the third batch of the International "Top Ten Best" Energy-Saving Technologies and Practices List. This initiative leverages digital twin cloud computing and other technologies, utilizing urban reclaimed water, river water, solar energy, and other resources on a large scale. Through the "Energy Hub-and-spoke + Cellular Pipe Network" model and the integration of 21 self-developed technologies including dynamic two-phase energy storage, it has established a data-driven smart energy management platform that enables precise energy control.

# Uniting Together, Energizing Development Momentum

Guided by CECEP's "Symbiotic Responsibility" philosophy, the Company orchestrates stakeholder engagement practices that prioritize employee rights and development, emphasize customer needs and experiences, actively expand global operations, build resilient supply chains, and foster industry collaboration. Together with stakeholders across the entire value chain, CECEP is co-creating a sustainable future of shared prosperity and symbiosis.

# **Risk and Opportunity Management**

Risk / Opportunity	Potential Impact	Countermeasures
Employee Rights and Development Risks	Inadequate protection of employ- ee rights and insufficient training and growth may lead to talent loss, negative public opinion, and legal disputes.	Fully protect the rights and interests of employees, provide caring care, establish a talent cultivation and development mechanism, and open up promotion channels
Quality Risk	Fluctuations in product and service quality may affect a company's brand image and market trust.	Establish a quality management system to enhance customer demand response capability.
Supply Chain Risk	Supplier non-compliance leads to production interruption or reputation damage.	Strengthen supplier admission evaluation, rely on electronic plat forms to enhance management, and drive the green transformation of the industrial chain.
Opportunities for Strategic cooperation and Industrial Synergy	Through cooperation, resource sharing and complementary advantages can be achieved, forming industrial clusters and promoting the common development of	Continuously deepen cooperation between the central and local governments, enterprises, and schools, and promote the coordinated development of the

industrial chain.



# Strengthening Enterprise via Talent, Cultivating Fertile Ground for Growth

CECEP upholds "People-Oriented" as its core corporate value, safeguarding employee rights, fostering professional growth, and caring for employees' well-being. This approach ensures every employee can realize their career potential in a safe, equitable, and dignified work environment.

# **Employee Rights and Interests**

The Group strictly adheres to labor laws, the Labor Contract Law, and other relevant regulations, upholding equal employment principles. We continuously improve institutional frameworks for recruitment, attendance tracking, compensation management, and democratic participation, fully safeguarding employees' rights and interests. In 2024, we achieved 100% labor contract signing rates and 100% social insurance coverage.

# Equal Employment

We adhere to respecting and safeguarding human rights, practicing equal employment, respecting and protecting employees' personal privacy, resolutely resisting any form of discrimination based on nationality, gender, age, race, religion, pregnancy or disability, paying attention to the rights and interests of female employees, eliminating child labor, opposing any form of forced labor, and ensuring equal employment opportunities for employees.

# Democratic Management

We improve the trade union system, perfect the democratic management work based on the workers' congress, open up channels for democratic communication among workers, promote people's democracy throughout the entire process, cultivate and mobilize the sense of ownership among workers, and safeguard their rights to know, participate, and supervise.

# Welfare and compensation system

We establish a salary management system with appropriate level, reasonable structure, standardized management, and effective supervision, clarify the salary structure, adhere to the principle of salary based on job performance and contribution, establish a linkage mechanism linking the total salary of the group company with economic benefits and labor efficiency indicators, and participate in the basic pension insurance for enterprise employees in accordance with the law, providing supplementary medical insurance, etc.

# Occupational Health

We continuously refine our occupational health management system, ensuring robust implementation of related work while actively promoting occupational health culture and strengthening employees' awareness in this area. In 2024, the Group revised its *Occupational Health Management Measures*, with 126 subsidiaries obtaining ISO 45001:2018 Occupational Health and Safety Management System certification. CECEP Ecology Company Lijiang, CECEP Environment Feixi, Yanshan, Dongguang, and Shanghe companies all received the "Healthy Enterprise" honor, while 10 employees system-wide were awarded the title of "Municipal Health Ambassador." No occupational health reputation-damaging incidents occurred throughout the year.



#### Occupational Health Care



Zhenjiang Company, a subsidiary of Solar Energy Company, entrusts psychologists to provide psychological counseling to employees.



CECEP Environment's Lijiang subsidiary hosted the launch ceremony for the local government's *Occupational Disease Prevention Law* Publicity Week.



CECEP Guozhen Environmental Protection Technology Co., Ltd.'s Wangjiang Guozhen subsidiary conducted occupational health prevention and control publicity in the local community.



# Workers' Congress

In 2024, CECEP convened the Second Session of the Third Workers' Congress of the Group Company, receiving a total of 42 proposals from employee representatives, with 7 cases formally filed. Despite challenges such as heavy inspection tasks and busy routine operations, relevant departments made conscientious efforts to advance and resolve the filed proposals.

# **Employee Growth**

Guided by the philosophy of "Symbiotic Growth Between Corporate Development and Employee Advancement," CECEP has refined its talent cultivation mechanisms, strengthened practical training experiences, and ignited innovative vitality among personnel, thereby providing employees with a career platform that fosters both a sense of growth and accomplishment.





#### Support talent cultivation

We firmly promote the strategy of strengthening the enterprise through talent, focus on the company's development strategy and employee development demands, build a multi-level training system and a broad development platform, and continuously strengthen the construction of the "Three Talents" team of scientific and technological talents, skilled talents, and management talents.

#### Diversified development channels

Job Fit and Full Utilization of Talents Management Sequence, Business Sequence velopment needs and employees' personal career interests and professional strengths, we support employees to switch career development channels between the management sequence and business sequence, and provide diversified development directions for employees.

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# **Organizational System Training**

This year, we have implemented the Science and Technology Talent Training Program and organized specialized training on scientific and technological innovation networks; Organize vocational skill evaluation and financial training for union cadres in Beijing, and study benchmarking at China Mobile's new industry IoT company; Organize themed group courses, youth symposiums, and other activities to care about and pay attention to the growth and development of young groups such as active party applicants and newly employed graduates.



Craftsman College Supports the Construction of Skilled Talent Team

In 2024, CECEP (Xiangtan) Craftsman Academy saw increases in both the number of occupation categories authorized by the provincial Human Resources and Social Security Department for socialized vocational assessment and internal evaluation programs. Externally, it newly acquired qualifications from the provincial Market Supervision Administration to conduct socialized training and assessment for multiple occupation categories. The academy hosted over 5,000 trainees across provincial and municipal training programs, securing RMB 1 million in various training subsidies.



#### **Vocational Skills Competition**

In 2024, CECEP successfully hosted the 3rd National Vocational Skills Competition for the Energy Conservation and Environmental Protection Industry, themed "Showcasing the Craftsmanship of CECEP's Talents, Forging a World-Class Cohort of Skilled Professionals." The event identified a new cohort of "CECEP Technical Experts."

Guided by the national competition, trade unions at all levels have carried out activities such as competition work efficiency, competition safety production, competition job innovation, and competition management innovation. They have held 166 skill competitions with 7912 participants, cultivating and nurturing a group of skilled operators and technical backbones.

# **Employee care**

The Group focuses on employee well-being and builds a comprehensive care and service system. The group carries out normalized assistance for difficulties and holiday condolences to convey organizational warmth; Upgrade the office environment and activity space to create comfortable working conditions; Regularly organize diversified cultural and sports events and interest clubs to help employees achieve dual improvement in work value and quality of life.

The group trade union conducted research on key work, held discussions and exchanges with front-line workers, and focused on solving urgent and difficult problems for employees.

On the eve of the Spring Festival, we carried out in-depth visits and condolences to elderly party members and cadres during the New Year and Spring Festival period, and organize the 2024 Elderly Cadres Tea Reception Symposium.

Organize a themed calligraphy and painting competition on "Upholding Family Traditions, Emphasizing Inheritance, Spreading Love, and Becoming a New Woman in Energy Conservation and Environmental Protection in the New Era".

Before the Spring Festival, Secretary Song Xin and Deputy Secretary of the Army led teams to visit and comfort frontline workers at grassroots units.

On the occasion of Women's Day on March 8th and Labor Day on May 1st, Secretary Song Xin and General Manager Jiaqiang sent condolence letters to the vast number of employees.

The China Energy Conservation Second "Gathering and Creating the World" Workers' Track and Field Games, with the theme of "Energy saving Athletes Strictly, Deeply, Carefully, Practically, Grasping Quality and Efficiency Improvement, Environmental Protection Pioneers Overcoming Difficulties and Bravely Creating World Class".

# Aligning with Customers, Co-creating Value Ecosystem

CECEP adopts a customer-centric approach, positioning quality management and customer demand responsiveness as the core drivers for service enhancement, and consistently strives to deliver comprehensive solutions that ensure safety, efficiency, low-carbon performance, and customer satisfaction.

# **Quality Assurance**

The Group systematically builds quality control and integrity management, supervises subordinate units to build a quality management system covering the entire process, and carries out quality management system certification work to achieve standardized architecture, standardized processes, and scientific methods. Simultaneously implementing the quality culture cultivation project, utilizing various forms such as scenario based training, strengthening the awareness of responsibility among all employees, and promoting efficiency improvement driven by quality culture.



At present, several subsidiary companies of the group, including CECEP Environmental Protection Investment Development (Jiangxi) Co., Ltd, Research Center, and Valiant Corporation Ltd., have obtained ISO9001:2015 quality management system certification.

Among them, all factories of Valiant Corporation Ltd. have passed the ISO9001:2015 quality management system certification, and some factories have also passed the IATF 16949:2016 quality management system certification and QC0 80000:2017 hazardous substance process management system certification. The company's analysis and testing center has passed CNAS laboratory accreditation and successfully passed the reevaluation in 2024, effectively ensuring product quality control.



#### **Quality Management System of Wanrun Pharmaceutical**

Wanrun Pharmaceutical, a subsidiary of the group, has established a comprehensive drug quality management system based on Good Manufacturing Practice (GMP), established a drug alert quality system, and formulated the *Product Recall Management Regulations* in accordance with national regulations. Implement full process control over product health and safety, strictly organize production and quality control in accordance with registered processes and quality standards; At the same time, by using Alibaba Health's "Code on Trust" traceability system, it is possible to quickly and accurately track the flow of each batch of products; Conduct risk identification, develop post marketing risk management plans for drugs, conduct post marketing safety research, and adopt effective drug risk control measures. In 2024, the company organized emergency drills for drug safety incidents and simulated recalls of active pharmaceutical ingredients and formulations.



Wanrun Pharmaceutical uses a drug traceability system for production coding

# **Customer Privacy Protection**

The Group attaches great importance to protecting customer privacy, ensuring that all information acquisition methods are legal and fair, and fully respecting customers' right to know and choose. Each subsidiary enterprise has established information security and customer privacy protection mechanisms applicable to its own business, strictly controlling access to customer information to prevent information leakage, abuse, or loss.

#### Valiant Corporation Ltd.

Customer names are encrypted using code, and customer information access permissions are strictly controlled to prohibit the disclosure of customer information.

#### **China Energy Conservation Environment**

Develop the Data Asset Management Measures and Information Security Management Measures, and establish a network security leadership group chaired by the chairman; By strengthening network strategy configuration and conducting asset information inventory, ensure the safe and stable operation of various systems.

# Solar Energy Company

Strictly follow the *Regulations on Confidential-ity Work* and applicable laws and regulations to carry out confidentiality work, and conduct comprehensive audits of all IT infrastructure and information systems of the company and individuals through network self inspection and self correction, "Clean up Action", communication equipment self inspection, and other methods.

# **Demand Response**

The Group has always deeply integrated customer demand response with social responsibility fulfillment. Through diversified energy supply models and refined service management, we continue to provide solutions for optimizing regional energy structure and improving people's well-being.



#### "Welcoming Peak Summer" Energy Supply Guarantee

During the summer of 2024, extreme heatwaves swept across China, triggering a sharp surge in energy demand. CECEP proactively implemented operational plans and emergency response protocols, adopting a multi-pronged approach to boost production and supply capacity while prioritizing uninterrupted energy services for civilian needs and critical infrastructure.

The CECEP Wind-power Corporation Co., Ltd. continued to deepen lean operation and maintenance (O&M) practices by implementing a 24-hour dual-shift combining inspection and maintenance operations. With a focus on summer electricity market's "Peak-Valley-Flat" time-of-Use pricing period, it developed optimized maintenance schedules. The Solar Energy Company enhanced station operations through integrated digital, information-based, and intelligent management tools. China Environmental Protection's project subsidiaries actively coordinated with local authorities to increase waste intake volumes, maintaining high inventory levels in waste storage facilities. CECEP Industrial Energy Conservation Co., Ltd.'s regional energy supply projects formulated targeted equipment start-stop and load adjustment strategies based on time-of-use electricity consumption patterns.



Solar Energy Company



#### Shijiazhuang Company's Heating Service Is Recognized

In 2024, CECEP Environment's Shijiazhuang Company successfully fulfilled its centralized heating mission during the heating season with exceptional quality. Guided by the core mission of "Delivering Warmth to Tens of Thousands of Households," the company provided heartfelt and dedicated heating services, earning widespread acclaim from both residents and district heating regulatory authorities.

During the heating period, customer service staff stay on duty 24 hours a day, using the smart heating platform to monitor heating parameters in real time, accurately adjust heating temperature according to weather changes, and ensure that indoor temperature remains within a comfortable range. The customer service hotline has answered a total of 470 calls from users, achieving a 100% response rate and completion rate. In order to improve the satisfaction of heating services, customer service personnel have been arranged to visit 126 households and solve heating problems on-site.



Shijiazhuang Company's Heating Service Has been Recognized

# Opening for Win-Win, Expanding Overseas Collaboration

CECEP remains steadfast in implementing its internationalization strategy by engaging in overseas infrastructure development, deepening cross-border exchanges and cooperation, and undertaking humanitarian aid projects. These efforts drive local community development while advancing China's high-standard opening-up and contributing to the shared vision of building a global community with a shared future.

# The Belt and Road Initiative

The Group actively participates in the high-quality co construction of the "the Belt and Road," strives to build influential overseas energy conservation and environmental protection projects, vigorously develops new markets, new fields and new businesses, and injects new impetus into the development of the co construction countries and regions.



CECEP Guozhen Environmental Protection Technology Co., Ltd. Signs Contract for Ethiopia's Largest Sewage Treatment Project

In 2024, CECEP Guozhen Environmental Protection Technology Co., Ltd. leveraged its specialized expertise to "Ride the Wave of International Collaboration," securing the DBO (Design-Build-Operate) contract for the Eastern Ethiopia Wastewater Treatment Plant Project through a joint venture with CGCOC Group Consortium. Located in Addis Ababa, Ethiopia's capital, the project involves constructing two 54,000-ton/day wastewater treatment plants. Funded by a World Bank loan, the facilities served the Bole and Yeka districts upon completion, benefiting approximately 885,000 residents in eastern Addis Ababa.





Kitime Wastewater Treatment Plant Rendering

Effect picture of Koye Fetche Sewage Treatment Plant after Renovation



The Ministry of Ecology and Environment's South-South Cooperation "African Light Belt" Project to Address Climate Change

In July 2024, CECEP's subsidiary Jinghe Technology successfully secured the contract for the Household Solar PV System Project aiding the Republic of Chad and the Democratic Republic of Sao Tome and Principe. Funded under the Ministry of Ecology and Environment's South-South Cooperation "Africa Solar Belt" Initiative for Climate Change Response, the project requires Jinghe Technology to supply 7,400 household solar PV systems, along with comprehensive services including cargo inspection, export customs clearance, domestic and international transportation, and technical training.





Jinghe Technology's "African Light Belt Project"

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# **Overseas Responsibilities**

The Group regards overseas responsibility fulfillment as the core of its globalization strategy, follows the local win-win concept, and carries out love assistance work along the "the Belt and Road" and in the global market to help the sustainable development of local communities.



#### China Geo-Engineering Corporation Aid to Zimbabwe for 300 Water Wells Project

In 2024, Zimbabwe suffered a severe drought. In July, the groundbreaking ceremony of the 300 water well project supported by China Geo-Engineering Corporation was held in Malongdra, Mashonaland Province, East Zimbabwe, to help Zimbabwe cope with severe drought and food crisis.

Over the past 40 years since its establishment, China Geo-Engineering Corporation has completed tens of thousands of high-quality wells on the African continent, providing systematic urban water supply solutions for many countries and solving the drinking water problem for millions of people. In the future, it will continue to pay attention to and respond to people's livelihood demands, actively promoting local economic and social development and improving people's livelihoods.



The Groundbreaking Ceremony for the 300 Water Well Project in Zimbabwe



China Qiyuan Engineering Corporation Aid in the Construction of Doctor's Dormitory in Tanzania Hospital Successfully Transferred Project

In July 2024, CECEP's subsidiary China Qiyuan Engineering Corporation, successfully handed over the project of assisting in the design and management of the doctor's dormitory at a hospital in Tanzania. Abdulram Hospital sent a thank-you letter, highly praising the company's excellent design and management capabilities.

The project covers an area of approximately 2800 square meters, with a building area of approximately 3,700 square meters, including 4 residential buildings and supporting facilities. After the handover, the living conditions of local medical staff will be improved, the medical level will be enhanced, and the construction of China Tanzania friendship and China Africa health community will be promoted.





The Project of Assisting in the Construction of Doctors' Dormitories in Tanzania Hospitals Has Been Successfully Handed Over

# **Strengthening Chain Resilience, Forging Industrial Tenacity**

CECEP strictly implements the directives of the State-owned Assets Supervision and Administration Commission (SASAC) of the State Council, adhering to the principles of "Open Sourcing, Dynamic Management, Scientific Merit-based Selection, and Mutually Beneficial Cooperation." Through regular supplier social responsibility audits, provision of training resources, and other initiatives, CECEP guides and supports partners across its upstream and downstream industrial chains to comply with social responsibility requirements, standards, and initiatives. This approach fosters a transparent, resilient, and sustainable supply chain ecosystem while creating long-term shared value for all stakeholders.

# **Supply Chain Management**

The Group is deeply promoting the optimization of the procurement management system, formulating relevant regulations such as the *Procurement Management Measures* and *Supplier Management Measures*, and standardizing supplier evaluation and admission; Formulate and issue *the Management Regulations for Blacklist of Group Company Suppliers (Trial)*, which includes suppliers who violate laws and regulations, bidding rules, or use commercial bribery to seek benefits during the bidding, procurement, and performance processes in the "Supplier Blacklist"; and through promotion and training, continuously improve the standardization and sustainability of supply chain management, and build a solid supply chain security barrier for high-quality development. In 2024, the 98 suppliers who failed the annual assessment and evaluation will be placed on the "Gray List" of the group's suppliers and will be punished by suspending their trading qualifications for 2 years.

At the same time, the Group has independently designed and built an electronic procurement platform supported by digital services and centered on online management of the entire procurement process. It strictly adheres to the technical specifications of the national electronic bidding platform, connects with the China Tendering and Bidding Public Service Platform, and shares information such as bidding announcements, bid results announcements, and bid results announcements. Require secondary companies to fully leverage the role of electronic platforms, establish a traceability mechanism throughout the entire process, and promote transparent procurement, green procurement, and clean procurement.

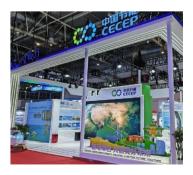
# Responsible procurement

The Group implements the work requirements of the higher authorities on building a green supply chain. In the revised *Supplier Management Measures* in 2024, firstly, it sets requirements for carbon emission monitoring and carbon footprint tracking, green supply chain management system, etc. in the "Basic Conditions of Strategic Suppliers"; The second is to add requirements such as establishing a good environmental and low-carbon management system, possessing safety and environmental qualifications and good safety and environmental performance, and actively promoting green and low-carbon production and manufacturing in the "Basic Conditions for Centralized Procurement Suppliers". Develop four internal control processes, including procurement plan management and procurement execution management, and solidify them into the electronic procurement platform through information technology to achieve complete coverage of procurement management activities and procurement operation activities.



# The title of "Green Booth" at the 2nd China Energy Conservation Chain Expo

In November 2024, the Group participated for the first time in the 2nd China International Supply Chain Expo, with the theme "Chain-Driven Green Energy, Co-Creating a Better Future." The Group systematically presented five major industrial chains: the green agriculture chain of "Photovoltaics + Green Agriculture in Africa + People's Livelihood," the healthy living chain of "Pine Pollen + Scientific Research + Intelligent Factory Manufacturing + People's Livelihood," the clean energy chain of "Energy Extraction from River Water or Even Wastewater + 5G + People's Livelihood," the digital technology chain of "Digital Technology + Smart Environment + Green Account + Green Finance," and the ecological chain of "Technologies for Mountains, Rivers, Forests, Farmlands, Lakes, Grasslands, and Deserts + Low-Carbon Industrial Parks + Regional 'First' Tech-Finance Headquarters of Renowned Enterprises" and "Waste-to-Energy + Solid Waste Treatment." These fully showcased the Group's positive contributions to initiatives such as Beautiful China, Healthy China, and the building of a community with a shared future for mankind. The Group's exhibition booth received the "Green Booth Award."



The China Energy Conservation Group's Booth at the 2nd China International Supply Chain Expo

# Leading the Industry, Advancing Responsibility Dialogue

CECEP adheres to a development philosophy of mutual benefit and win-win cooperation, leveraging its operational strengths to actively engage in partnerships with governments, academic institutions, and enterprises through technological exchange, resource sharing, and value co-creation, all aimed at pursuing shared development.

# **Strategic Cooperation**

The Group continues to deepen cooperation between the central and local governments. In 2024, we engage in high-level communication with 5 provinces and cities including Beijing, Shanxi, Jiangsu, Hainan, and Inner Mongolia, as well as 28 cities including Zhangzhou, and sign strategic cooperation framework agreements with 9 provincial and municipal government units.



CECEP Signs Framework Agreement to Deepen Strategic Cooperation with Hainan Province

In January 2024, leader of the group, paid a visit to Liu Xiaoming, Governor of Hainan Province, and signed a deepening strategic cooperation framework agreement in Haikou. The agreement covers cooperation in multiple fields and promotes the construction of a national ecological civilization pilot zone in Hainan.



CECEP Signs Framework Agreement with Hainan Province to Deepen Strategic Cooperation



CECEP Signs Strategic Cooperation Framework Agreement with Nanjing Municipality

In June 2024, CECEP and the People's Government of Nanjing Municipality signed a Strategic Cooperation Framework Agreement at the Energy Conservation Building. During the event, CECEP Big Data Co., Ltd. also inked multiple agreements with Nanjing to jointly advance the city's green, low-carbon, and circular development.



CECEP Signs Strategic Cooperation Framework Agreement with Nanjing Municipality

The group company focuses on industrial chain cooperation and collaboration, actively participates in industry exchanges, and has established cooperation networks with multiple ecological partners.



2024 World Conference on New Energy and New Materials

In July 2024, the 2024 World New Energy and New Materials Conference with the theme of "New Quality, Productivity, Economy, and New Momentum" opened in Ordos City. Group company leader, was invited to attend. As a specially invited enterprise, the group company participated in the exhibition of new energy and new materials, showcasing relevant products and services in the field of new energy and new materials, which received widespread attention from the attending guests.



2024 World Conference on New Energy and New Materials

#### **CECEP Signs Strategic Cooperation Framework Agreement with CRRC**

In July 2024, CECEP and CRRC signed a Strategic Cooperation Framework Agreement, with leaders from both sides attending the ceremony. The parties aim to deepen collaboration across environmental comprehensive governance, high-end equipment manufacturing, "Dual Carbon" strategic consulting, and clean energy utilization through technology, market, and capital synergies, thereby advancing green transformation of the economy and society.



CECEP Signs Strategic Cooperation Framework Agreement with CRRC

# **Industrial Upgrading**

The group company regards school enterprise cooperation as the "Source of Vitality" for technological innovation. By jointly building platforms, researching topics, and nurturing talents, it constructs an ecosystem of industry university research cooperation and promotes the efficient transformation of green technology from academic theory to enterprise productivity.

In 2024, we completed the signing of the task book for the industry university research cooperation project, the signing of the special subsidy agreement, and the first disbursement of funds. China Geology and China Mining University have collaborated to develop and apply key technologies such as efficient microbial agents for treating acidic mine water, achieving source control and systematic restoration of the mining ecological environment.



The Ten Year Journey of CECEP Environmental Protection Investment Development (Jiangxi) Co., Ltd

CECEP Environmental Protection Investment Development (Jiangxi) Co., Ltd., established in 2012, initially faced challenges including substandard influent water quality in pipeline networks and inadequate industrial park infrastructure. The company proactively fostered government-enterprise, university-enterprise, and industry-enterprise collaborations, securing support from local environmental protection bureaus at all levels and park management authorities. It partnered with leading institutions such as the Chinese Academy of Environmental Planning (CAEP) under the Ministry of Ecology and Environment, the Research Center for Eco-Environmental Sciences of the Chinese Academy of Sciences (RCEES-CAS), Jiangxi Academy of Sciences, CECEP Industrial Technology Research Institute, Nanjing University, Tianjin University, and Nanchang Hangkong University. These collaborations delivered systematic solutions and operational guidance for comprehensive wastewater treatment across various industrial sectors. By extending pollution control measures to upstream manufacturing enterprises, the company secured cooperation agreements with multiple industrial parks.

After more than ten years of pioneering development, the CECEP Environmental Protection Investment Development (Jiangxi) Co., Ltd. has invested in and built 55 industrial park sewage treatment projects in Jiangxi Province, with a designed treatment capacity of nearly 600000 tons/day. Significant achievements have been made in sewage treatment, research and development, and a solid influence has been formed in the segmented industry.



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# Sharing Development, Nurturing Well-being

CECEP integrates social responsibility into its development strategy, anchoring on three pillars—rural revitalization, public welfare services, and community engagement. Through green empowerment, livelihood care, and mutual trust, the company drives synchronized progress toward sustainable development for both the enterprise and society.

# **Risk and Opportunity Management**

Risk / Opportunity	Potential Impact	Countermeasures
Rural Revitalization and Opportunities for Social Charity	Enhancing the social image of enterprises and promoting harmonious development between enterprises and society.	Increase investment in revitalizing five types of resources, innovate assistance models, and actively participate in social charity activities.
Public Communication Risk	Public recognition may constrain market expansion and business development, affecting community development.	Carry out public communication activities, enrich communication methods, and enhance public environmental awareness.



# **Empowering Rural Areas, Painting a Shared Prosperity Canvas**

CECEP has strategically integrated its political strengths, organizational capabilities, grassroots connectivity, and specialized expertise in energy conservation and environmental protection with the resource endowments and regional advantages of its designated assistance areas. The company has fully committed to delivering targeted poverty alleviation and rural revitalization efforts in Song County, Luoyang City, Henan Province, and Fuchuan Yao Autonomous County, Guangxi Zhuang Autonomous Region (hereinafter "Fuchuan"), achieving the highest "Excellent" rating in the central government's performance evaluation of designated assistance programs for four consecutive years.

# **Organizational Leadership**

The Company deeply studies and implements General Secretary Xi Jinping's important discourse on the work of agriculture, rural areas, and farmers, resolutely implements the decision-making and deployment of the Party Central Committee on implementing the rural revitalization strategy, as well as the relevant requirements of the Party Committee of the State owned Assets Supervision and Administration Commission of the State Council and the Ministry of Agriculture and Rural Affairs.

In 2024, the CECEP Party Committee convened one dedicated meeting on targeted assistance programs and conducted semi-annual strategic reviews of poverty alleviation and rural revitalization efforts. The Party Committee Standing Committee deliberated and approved the 2024 assistance funding allocation and project pipeline, while formulating the CECEP 2024 Rural Revitalization Action Plan. Group leadership spearheaded over 100 field research missions and reciprocal exchange visits, driving tangible outcomes in rural development. The company issued the Notice on Integrating Rural Revitalization and Xinjiang/Tibet/Qinghai Aid Initiatives into Procurement and Supply Chain Management, mobilizing subsidiaries to align operational needs with national strategies. This facilitated the efficient implementation of the "Workwear Aid for Xinjiang" program, leveraging industrial resources to support border region development.

# Industrial Revitalization

# Empowering the Cultural and Tourism Industry

Over 10 million yuan has been donated to support the cultural and tourism projects in Song County, including the Wanghulou complex, high-end homestay clusters, tourism facility upgrades, and cultural and creative product development. This has driven the daily reception of more than 2000 tourists at scenic spots and radiated more than 1000 people in the surrounding areas to increase their income.



### **Employment Security Support**

CECEP Songxian Environmental Service Company has recruited 1015 local employees (including 332 poverty alleviation monitoring households), with a cumulative salary of approximately 11.85 million yuan; donate 1.5 million yuan to support projects such as relocation industrial parks to help people find employment nearby and enhance their income stability.

### Industrial Chain Linkage Development

Signed a 420000 kilowatt project development agreement with Zhaoping County, Hezhou City; signed a cooperation agreement with Fuchuan for a multifunctional complementary integration demonstration project of photovoltaic, animal husbandry, and fishery, with a planned investment of approximately 1.25 billion yuan; promote the construction of the 100MW wind farm project in Jiugao Town, Song County, which is a provincial key project for energy conservation; through the guidance of biomass resource utilization and construction waste recycling technology, we have helped Song County save more than 30 acres of land and approximately 50 million yuan in funds.

### Agricultural Technology Support

Investing 1.5 million yuan to build a Huanglong disease prevention and control system and a citrus new variety experimental park in Fuyang Town, reducing the risk of pests and diseases and increasing farmers' income.



# **Assistance Measures**

The Company focuses on the "Five Major" revitalization of industry, talent, ecology, culture, and organization, continuously invests and introduces assistance funds, increases assistance efforts, innovates assistance methods, and gradually achieves "Prosperous Industries, Livable Ecology, Civilized Rural Culture, Effective Governance, and Prosperous Life" in rural areas.

In 2024, we had dispatched one acting deputy county head and one resident first secretary to each of Song County and Fuchuan County. They worked full-time in the counties and villages, maintaining weekly communication, supervision, and guidance. We had invested 23 million yuan in non-reimbursable aid funds and 187.379 million yuan in reimbursable aid funds, purchased 8.3038 million yuan worth of consumer assistance products, introduced 2.504 million yuan in non-reimbursable aid funds and 16.2 million yuan in reimbursable aid funds, and attracted 12.01 million yuan in investment. The procurement amount for the "Workwear Assistance to Xinjiang" program reached 7.5588 million yuan, with a total of 39,200 workwear items purchased.

## Talent Revitalization

 A total of 2101 people were supported in organizing various types of training in two counties, including 986 grassroots cadres in counties and villages, 358 leaders in rural revitalization, and 757 professional and technical personnel. • Implement the "Dream Fulfillment Action" and "Spring Seedling Plan" to support disadvantaged students to go to school; Donate special funds to Jiugao Town, Song County to support school construction and improve educational conditions; Organize high school students from Fuchuan to participate in the "2024 Dream Pursuing Beijing Tour" summer camp and various ethnic youth exchange and integration activities; Organize the theme activity of "Warmth of Childhood, Lighting up Micro Wishes" for Lei Feng Learning Day.

# Cultural Revitalization

• Investing 800,000 yuan to support the construction of Fuchuan culture, including building an agricultural culture exhibition hall, upgrading rural cultural projects, promoting intangible cultural heritage and folk customs, and organizing activities such as the New Year's Day/Spring Festival intangible cultural heritage exhibition in Shichang Village, Song County, to enrich the cultural life of villagers, assist in the creation of a comprehensive tourism demonstration zone, and promote the integrated development of culture and tourism.

# **Ecological Revitalization**

• Give full play to the advantages of our main business, promote cooperation between Song County and China Energy Conservation Consulting, and formulate the Song County Carbon Peak and Carbon Neutrality Path Research Project Work Plan. Donate 800,000 yuan for the launch of the Fuchuan Ecological Product Value realization planning project, which comprehensively plans Fuchuan's ecological resources and other aspects.

# Organizational Revitalization

• Establish a contact and mentoring system with the Party branch of the assisted village, organize 7 Party branches within the system to hold themed Party Day activities in the village, provide 30000 yuan of work funds for the first secretary stationed in the village, and ensure the development of rural revitalization work.

Assist in cultivating four new types of agricultural management entities (leading enterprises, family farms, cooperatives, etc.), help establish a five-star branch in Shichang Village, Song County, and assist in training grassroots cadres in Xinshi Village, Fuchuan.

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## CECEP Launches "Ton-Bag Village Support Initiative"

CECEP has established a "Prosperity Workshop" for rural revitalization in Shichang Village, Song County, constructing a farmer-linking and farmer-driving mechanism that combines "enterprise order-driven operations, revitalization of village collective assets, and operation by prosperity leaders." The village liaison officers appointed by CECEP precisely matched resources, expanded the workshop's business to include industrial ton-bag production, and collaborated with over 20 units within the system to form a stable procurement chain. Cumulatively, more than 100,000 orders have been completed, achieving sales revenue of 2.1843 million yuan.

In 2024, the "Ton Bag Assistance to Villages" program has achieved significant results, with a total contract amount of over 2.6 million yuan and enterprise revenue of over 5.3 million yuan. Villagers can increase their annual income by about 30000 yuan, promote collective income growth of 12000 yuan, and pay more than 100000 yuan in taxes to the local government.



#### CECEP Wind-Power Corporation Creates a Key Project of "Wind Power+Rural Revitalization"

The 100MW Wind Farm Project in Jiugao Town by CECEP Wind-power Corporation Co., Ltd. is the wind power firm's first key industrial project aimed at bolstering rural revitalization. With a total investment of approximately 700 million yuan, the project saw an investment of 1,870.79 million yuan completed in 2024. Upon completion, it is projected to generate nearly 200 million KWh of ongrid electricity annually, sufficient to meet the annual electricity consumption of 200,000 people. This is equivalent to saving 63,000 tons of standard coal. The project is expected to generate annual sales revenue of nearly 50 million yuan and annual tax payments of around 100 million yuan, directly creating over 100 job opportunities.

In August 2024, Xin Junfeng, the Party Secretary and County Magistrate of Song County, Henan Province, along with his delegation, visited the construction site of the main structure of the step-up substation for CECEP's Jiugao Town Wind Farm Project in Song County. They fully recognized the achievements made by CECEP Henan Company in advancing the project through the "Wind Power + Rural Revitalization" model.



CECEP Jiugao Town Wind Farm

# **Spreading Boundless Love, Delivering Energy-Saving Warmth**

CECEP, as a responsible central state-owned enterprise, prioritizes the urgent needs and difficulties of the people. Through systematic public welfare projects and company-wide volunteer services, it continuously makes efforts in the field of people's livelihood care, driving the upgrade of social responsibility from "Providing Immediate Relief" to "Fostering Self-sustaining Development."

# **Devoted to Public Welfare**

Our group actively practices social welfare undertakings, carries out various public welfare and charity activities such as flood prevention and control, emergency rescue and disaster relief, and practices corporate social responsibility with practical actions.

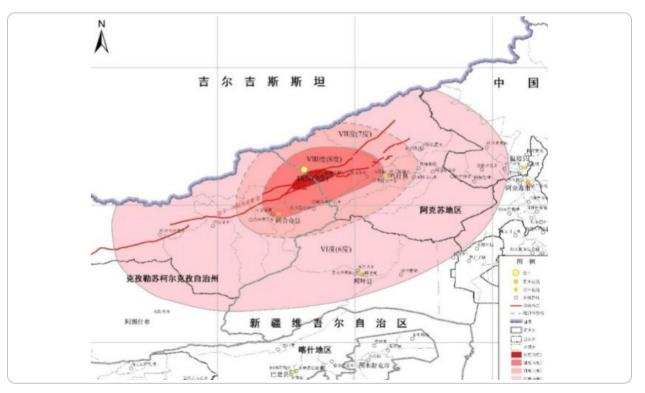


#### China Geo-Engineering Corporation Aksu Mountain Water Project Department Earthquake Relief

In January 2024, a 7.1-magnitude earthquake occurred in Wushi County, Aksu Prefecture, Xinjiang Uygur Autonomous Region. The China Geo-Engineering Aksu Mountain and Water Project Department, located 130 kilometers away from Wushi County, fully supported the earthquake relief work, dispatched personnel and vehicles to Wushi County in the first time, and provided necessary living support materials to local staff. Geological professional and technical personnel conducted inspections of geological disaster control projects around Wushi County, fully utilizing their professional expertise to assist experts and technical personnel in inspecting post earthquake geological disaster points, eliminating potential geological disaster hazards, minimizing the threat and losses caused by secondary geological disasters, and fully demonstrating the responsibility and leading role of central enterprises.



Thank You Letter from the People's Government of Wushi County, Xinjiang



Intensity Map of the 7.1 Magnitude Wushi Earthquake in Xinjiang

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# CECEP Guozhen Environmental Protection Technology Co., Ltd.'s Flood Prevention, Control, and Disaster Relief Efforts

During the 2024 flood season, CECEP Guozhen Environmental Protection Technology Co., Ltd. coordinated and deployed emergency rescue teams from its subsidiary units in Hefei, Wuhu, Bozhou, Suzhou, and other locations. A total of over 1,380 personnel, more than 350 emergency rescue vehicles, and over 1,000 sets (units) of rescue equipment were mobilized to actively participate in local flood prevention, control, and disaster relief efforts. The company received letters of commendation from the Anhui Provincial Department of Housing and Urban-Rural Development and letters of appreciation from local governments. Additionally, its subsidiary, Bozhou Guozhen Drainage Facilities Operation and Management Co., Ltd., was honored with the title of "2024 Advanced Collective for Flood Prevention and Disaster Relief in Anhui Province," demonstrating through concrete actions its image as a "Model Enterprise Serving the Party and the People."



# **Volunteer Service**

The Group responds promptly to social needs, actively carries out various volunteer service activities, supports and promotes community development, and demonstrates social responsibility through the power of public welfare.



#### CECEP Wind-Power Corporation Co., Ltd.'s "Learn from Lei Feng" ThemedSeries of Activities

The CECEP Wind-power Corporation Co., Ltd. system carries out various forms of "Learn from Lei Feng" themed volunteer service activities, actively contributing wind power to society. In 2024, the Youth League Committee hosts the third Lei Feng themed activity "Warmth of Childhood, Lighting up Micro Wishes" to help rural children grow up healthy and happy; zhangbei Company and Shanxi Company organized party members and members to carry out snow sweeping volunteer labor, using practical actions to sweep a "Safe Path" for local people; inner Mongolia Company focused on the practical difficulties of the herdsmen around the wind farms, and organized the staff of Jinqi Wind Farm to help the herdsmen sort out the material warehouse and feed the lambs; shuncheng Wind Farm, in collaboration with the Yongxing Town Government, has launched a campaign at Yongxing Town Primary School to encourage students to learn from Lei Feng and provide safety education on campus; zixia Wind Farm launches the "Protect Mother River Beach Clean Action".



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### Valiant Corporation Ltd. ConductsVolunteer Services

In 2024, Valiant Corporation Ltd. organized its employees to go deep into the community to carry out public welfare activities such as visits and condolences, publicity and teaching, and assistance and education. A total of 160 people participated in volunteer activities, benefiting 3306 people and receiving unanimous praise from residents.





Valiant Corporation Ltd. Community Activities



#### Research Institute under CECEP Industrial Energy Conservation Co., Ltd. Launches Themed Charity sale Activity

In May 2024, on the occasion of the 74th International Children's Day, the labor union and youth league branch of the research institute under CECEP Industrial Energy Conservation Co., Ltd., together with the Galaxy Cloud Peak Kindergarten in Xinbei District, jointly launched a themed charity sale activity of "Big Hands Hold Hands, Love Conveys Together" to fulfill the social responsibility of central enterprises. After the event, the volunteers of the labor union donated all the money raised from the charity sale to the Red Cross Society.



Research Institute under CECEP Industrial Energy Conservation Co., Ltd. Launches Themed Charity Sale Activity

# Harmoniously Coexisting, Jointly Building a Beautiful Homeland

CECEP regards community health, well-being, and sustainable development as its core responsibilities, actively advancing the implementation of China's Healthy China strategy. Through in-depth communication, it fosters community consensus, achieving mutual empowerment between corporate development and community co-construction.

# **Health Protection**

The Group actively serves the Healthy China strategy, deeply cultivates the big health industry, develops high-quality health products, provides comprehensive health solutions, vigorously spreads health knowledge, popularizes healthy lifestyles, and implements health care.

In 2024, China New Era Group Corporation continues to carry out activities such as Healthy China Volunteer Service, Health Science Popularization Tour, and Health Management Salon across the country. A total of 5460 Healthy China Volunteer Service activities was carried out, covering 295000 users. The group is committed to enhancing the public's awareness and health level of healthcare, empowering the whole nation to live a healthy new life.



# **Neighborhood Symbiosis**

The Group has established a community participation and two-way communication mechanism, carried out public communication activities, timely understood community demands, and achieved win-win development between enterprises and local areas.



### CECEP Environment Launches "Public Open Month" Series of Events

In June 2024, CECEP Environment launched the "Public Open Month" environmental public welfare series activities around the theme of "Practicing Green and Low-carbon Development, and Supporting the Construction of A Beautiful China". Each project company actively responds to the call and takes innovative measures, organizing activities with rich content and diverse forms, including popularizing knowledge of ecological environment protection, strengthening communication and cooperation, cultivating young talent preaching teams, innovating open forms, and advocating energy conservation and emission reduction. Through themed party courses, bulletin boards, symposiums, and visits to campuses and communities, we aim to spread the concept of ecological and environmental protection, help enhance citizens' awareness of environmental protection, and mobilize all sectors of society to actively participate in the construction of a beautiful China. Nearly 50 project companies participated in the event, carrying out over 130 activities and attracting more than 8,600 participants.



Ziyang Company Welcomes the Visit of Ziyang Jiuyi School to the Factory for Learning



Tianshui Company Participates in the Home Event of Tianshui City's June 5th Environment Day



Chengdu Company Enters Qingbaijiang Experimental Primary School for Science Popularization Promotion with the Theme of "Garbage Classification and Treatment"



Hengshui Company Launches Energy-Saving and Environmental Protection Themed education and Practice Activity of "Turning Garbage into Treasure, Promoting Civilization, and Walking Together With You"

# Prospect

2025 is the final year of realizing the 14th Five Year Plan and also the year of value creation for China's energy conservation. The group will focus on the theme of high-quality development, enhance core functions and competitiveness, take value creation as the main line, further improve quality and efficiency, deepen reform, strengthen innovation, optimize layout, and strive to prevent and resolve major risks and challenges. The group will continue to strengthen, optimize and expand its main business, better play the role of scientific and technological innovation, industrial control, and safety support, strive to complete the goals and tasks of the 14th Five Year Plan, and make positive contributions to accelerating the construction of a beautiful China where humans and nature coexist harmoniously.

#### In the Economic Field

Driven by innovation, optimizing internal management processes, improving management efficiency, exploring new growth points, strengthening core competitivenes and injecting strong impetus into the steady progress of the national economy.

## (In Terms of Ecological Environment Protection

We adhere to the concept of green development, increase investment in environmental protection, promote the application of clean energy, reduce pollutant emissions safeguard blue skies and clear waters, and contribute to the construction of a beautiful China.

#### At the Level of Social Welfare

well-being of employees, actively participate in public welfare, charity and rural re vitalization undertakings, promote social progress with practical actions, and make unremitting efforts for a better life for the people.

# **Appendix**

# **Key Performance Table**

Performance indicators	Unit	2022	2023	2024
Operating Revenue	Yuan	59,129,000,000	55,682,000,000	48,654,000,000
Asset Liability Ratio	%	69.52	68.17	69.74
Total Tax Payment	Yuan	3,886,000,000	4,301,000,000	4,372,000,000
R&D Investment in Energy Conservation and Environmental Protection	Yuan	1,663,000,000	1,774,000,000	1,276,000,000
Proportion of R&D investment in Energy Conservation and Environmental Protection to Operating Revenue	%	2.81	3.19	2.6
Number of Technology Personnel	Person	4,941	5,755	5,210
Number of Major Scientific Research Platforms	Count	3	3	:
Number of Provincial and Ministerial Level Scientific and Technological Achievement awards	Case	7	2	(
The Rate of Technology Transfer	%	100	100	10
Number of Patent apPlications	Case	788	828	70
Number of Authorized Patents	Case	735	740	68
Host or Participate in the Compilation of National, Industry, and Local Standard Quantities	Count	22	25	2
Add Research and Development Platforms at or above the Provincial and Ministerial Level	Count	5	14	
Newly Added Invention Patent	Case	164	201	32
Conduct a Warning Education Conference	Session	/	6	
Warning Education Conference Covers Attendees	Person-time	/	3,333	7,20
Conduct a Pre Tenure Integrity Talk	Person-time	/	21	
Carry Out Clean Party Courses	Person-time	/	2,677	7,79
Number of Directors	Person	9	9	
Outside Director	Person	5	5	
Employee Director	Person	1	1	:
Total Number of Employees	Person	37,062	36,234	32,98
Labor Contract Signing Rate	%	100	100	10

Performance Indicators	Unit	2022	2023	2024
Proportion of Female Employees in the Total Number of Employees	%	26.4	22.59	23.15
Proportion of Female Managers	%	32.37	33.59	33.16
Proportion of Employees from Ethnic Minorities	%	2.81	2.79	3.03
Per Capita Paid Vacation Days	Day	10.1	10.1	10.1
Employee Turnover Rate	%	9.2	8.99	9.1
Medical Examination Coverage Rate	%	100	100	100
Social Insurance Coverage Rate	%	100	100	100
Employee Satisfaction	%	96.7	96.7	96.7
Accumulated Investment in System Wide Safety Production	Yuan	240,000,000	245,000,000	284,000,000
Accumulatively Conducting Emergency Drills	Number	2,500	3,000	3,200
Number of Major and above Production Safety Accidents	Case	0	0	0
Production Safety Accidents with a Production Value of 100 Million Yuan and a Work Death Rate	%	0.0019	0.0017	0.0016
Average Duration of Employee Health Training	Hour	/	2.57	2.35
Organize Safety Training	Session	/	8,000	10,000
Number of Participants in Safety Training	Person-time	/	330,000	287,000
Total Hours of Safety Training	Hour	/	66,000	72,000
Organize a Series of Safety Lectures	Number	/	1,400	2,700
Number of Participants in Safety Series Lectures	Person-time	/	30,000	44,000
Total Amount of Public Welfare Donations	Person-time	36,766,000	2,760,600	26,027,000
Total Amount of Consumer Assistance	Person-time	10,880,000	1,191,000	12,076,000
Invest in Free Assistance Funds	Person-time	/	22,500,000	23,000,000
Invest in Paid assistance funds	Person-time	/	50,860,000	187,379,000
Water Treatment Capacity	Ton	3,496,000,000	3,601,000,000	3,688,000,000
Solid Waste Processing Capacity	Ton	24,364,300	25,360,000	25,846,000
COD Reduction Amount	Ton	502,000	500,000	523,800

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	Key Performance Table	A2	85	
	Index of indicators	A5	88	
ppendix	Report Rating	A4	89	
	Feedback	A6	90	

Performance indicators	Unit	2022	2023	2024
Total Green Electricity Production	kWh	28,168,000,000	27,820,000,000	28,313,000,000
Green Electricity Reduces Carbon Dioxide Emissions	Ton	/	20,980,000	21,280,000
Green Electricity Saves Energy	Tons of standard coal	/	8,410,000	8,540,000
Annual Total Energy Consumption	Tons of standard coal	/	/	547,000
Comprehensive Energy Consumption Per Unit Output Value	Ton of standard coal/10000 yuan	/	/	0.1119
Organize Environmental Protection Training	Number	758	828	1,231
Total Number of Environmental Training Participants	Person-time	15,578	20,516	30,037
Electricity Consumption of the Group Office Building	kWh	2,405,000	2,272,600	2,721,100
Water Consumption of the Group Office Building	Ton	24,700	24,800	25,200
Develop Green Building Area	Square Meter	/	3,300,000	3,126,600
Operating Energy Supply Stations	Number	/	53	42
Actual Energy Supply Area	Square Meter	/	20,500,000	21,642,400
Solid Waste Daily Processing Capacity	Ton	/	106,000	102,400
Daily Water Production and Sewage Treatment Capacity	Ton	/	14,413,000	14,083,000
Green Power Installed Capacity	kWh	/	2,193,000	25,688,500
Solar Energy Installation	kWh	/	12,698,200	15,101,200
Green Power Installed Capacity: Wind Power Installed Capacity	kWh	/	7,132,500	8,505,500
Green Power Installed Capacity: Solid Waste Power Generation Installed Capacity	kWh	/	1,908,500	1,902,000

Ecological Blueprint

Breakthroughs, Activating Synergistic Development

Nurturing Well-being

# **Report Rating**

GoldenBee ThinkTank **Evaluation Centre** 

Report No.: 2025K11202 Evaluation Date: June 2025

# GoldenBee Evaluation Report on CSR Report

**Entrusting** China Energy Conservation and Environmental Protection Group

**Evaluation** GoldenBee ThinkTank Evaluation Centre **Institution:** 

**Evaluation** In accordance with the national standard GB/T 36001-2015 "Guidelines for Social Responsibility Reporting" and the requirements of the GoldenBee China CSR Reporting Evaluation System



CECEP 2024 Corporate Social Responsibility Report

## GoldenBee ThinkTank **Evaluation Centre**









### Structural Completeness (A+) -

The report is structurally complete and comprehensive in information disclosure. It systematically presents the company's philosophy, practices, and outcomes in five chapters. It includes risk and opportunity analyses for various issues, with detailed disclosures of responsibility concepts and models. The report is well-organized, demonstrating excellent structural completeness.

#### Report Credibility (A) -

The report is meticulously worded, proactively disclosing negative information such as "employee turnover rate." It presents stakeholder evaluations through a thank-you letter from the People's Government of Wushi County, Xinjiang, and discloses the sources of cited data and information. Further credibility is achieved through the report's declarations, with neutral and objective language, indicating excellent report credibility.

### Report Readability (A+) —

Effectively uses illustrations, data, and logical diagrams to present content, balancing information conveyance and reading experience, demonstrating excellent readability.

#### Performance Comparability (A+) -

The report discloses 66 sets of performance data, including "total tax paid" and "total green electricity produced," spanning three consecutive years. It highlights comparative performance through honors such as ranking first in the "Central Enterprise Digitalization of State-owned Assets Supervision Capability Building" special assessment task, demonstrating excellent performance comparability.

#### Report Innovation (A) —

The report features innovative cover design, integrating green equipment with leaves to showcase industry characteristics. It highlights the company's unique responsibility initiatives and achievements through the "Quality and Efficiency Improvement Year—Dual-Drive of Innovation and Management Upgrade," demonstrating excellent innovation.

#### Content Substantiveness (A+) -

The report refers to domestic and international guidelines, detailing the process of stakeholder engagement and materiality topic identification. It systematically discloses 31 material topics, including "Central Enterprise Reform," "Ecological Civilization Construction," and "Rural Revitalization," demonstrating excellent content substantiveness.

#### Overall Evaluation

Upon evaluation, the "CECEP 2024 Corporate Social Responsibility Report" is rated as "Outstanding (A+)" quality level, serving as a benchmark and model for corporate social responsibility reporting.

**Evaluation Institution:** 



Overview

Strengthening the Foundation for Steady, Enduring Progress

Leading with Green Initiatives, Drawing an Ecological Blueprint Innovating for Breakthroughs, Activating Synergistic Development Uniting Together, Energizing Development Momentum Sharing Development, Nurturing Well-being

Appendix

# **Feedback**

recuback		
Dear readers:		
Hello! Thank you for reading this report. To f pectations, we hope you can provide feedba	further improve our work level and make the ck and suggestions in the following areas.	next report more in line with your ex
1. Are you satisfied with the overall report?		
☐ Yes	□No	☐ General
2. Are all the information you are concerned a	bout reflected in the report?	
□ Yes	□No	☐ General
3. Do you think the report truthfully reflects the pact on stakeholders?	he social responsibility work of China Energy C	ionservation and its im-
□ Yes	□No	☐ General
4. Can you easily find the information you are	concerned about in the report?	
□ Yes	□No	☐ General
5. Are you satisfied with the formatting design	of the report?	
□ Yes	□ No	☐ General
6. What is your opinion on our future social re	sponsibility work and social responsibility repo	rts?

Please leave your information, we will keep it strictly confidential
Full name:
Unit/Occupation:
Contact number:
E-mail:
Postal address:
Postal Code:

# Our contact information:

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