

中国广核电力股份有限公司

CGN Power Co., Ltd

2022 Annual Results





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Development Strategy

Business Review and Future Outlook

Financial Review



中国广核电力股份有限公司

CGN Power Co., Ltd

Part I Development Strategy







CGN Power

Core Business: We design, build, operate and manage nuclear power plants (NPPs), sell electricity generated by our NPPs, and organize R&D of NPPs.

CGN Power has issued 50.5 billion shares and our controlling shareholder is CGN (supervised by SASAC of the State Council).



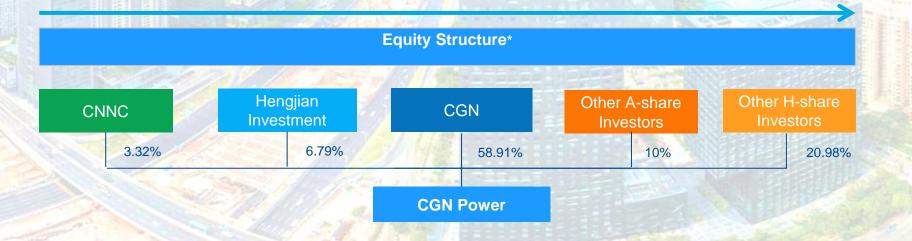
Incorporated on March 25,2014



H-share IPO on December 10,2014



A-share IPO on August 26,2019





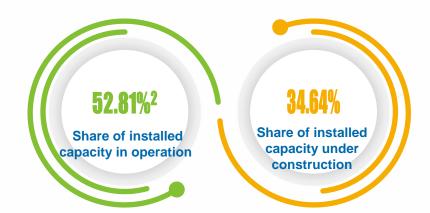
Share of Installed Capacity

Units in operation

- 26 units
- Installed capacity: 29.38GW

Units under construction¹

- 7 units
- Installed capacity: 8.38GW



Note 1: Units under construction include Huizhou Unit 1, Unit 2 and Cangnan Unit 1, Unit 2, which were entrusted to us by our controlling shareholder for management.

Note 2: Statistics only include the Chinese mainland and as of December 31, 2022.

9 Bases

| Guangdong | Daya Bay | 111111 |
|-----------|----------------|--------|
| | Yangjiang | 111111 |
| | Taishan | |
| | Lufeng | |
| | Huizhou | |
| Guangxi | Fangcheng gang | |
| Fujian | Ningde | |
| Liaoning | Hongyanhe | 222222 |
| Zhejiang | Cangnan | |

1000MW(installed capacity) unit in operation

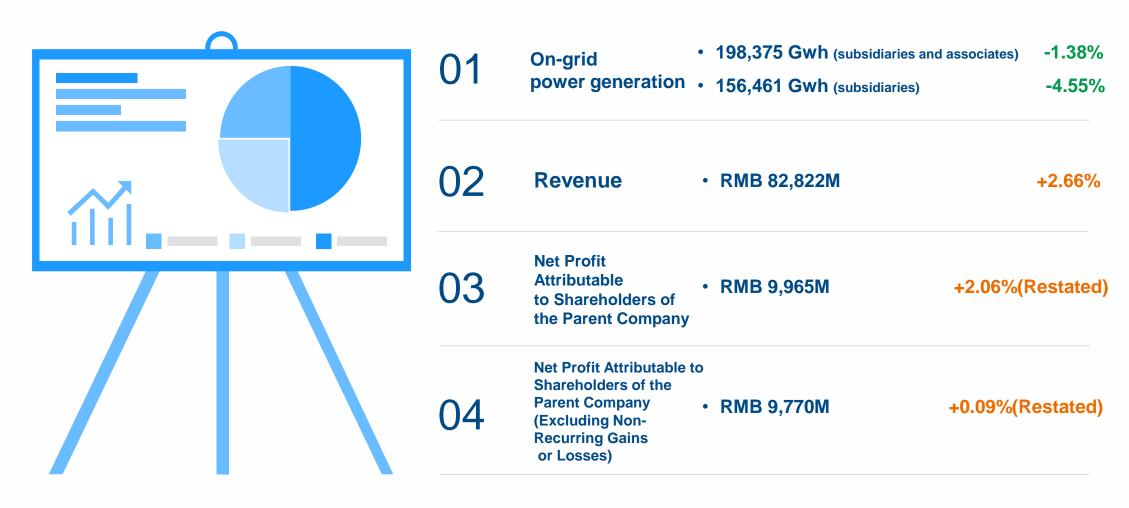
1750MW(installed capacity) unit in operation

1000MW(installed capacity) unit under construction

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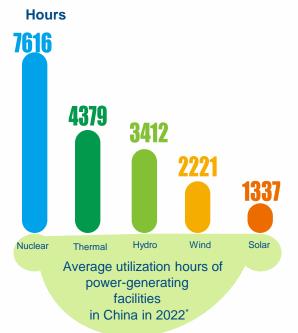
Key Stats of 2022





Unique Advantages of Nuclear Power













Share of nationwide nuclear power generation and installed capacity* in 2022

2.17%
Share of Nationwide Installed Nuclear Capacity

4.81%
Share of Nationwide
Nuclear Power
Generation





Chinese and global energy industry is shifting towards green and low-carbon development, and China strives to achieve carbon dioxide emissions peaking before 2030 and carbon neutrality before 2060, which provides us with broad prospects of nuclear power development.

Report on the Work of the Government (March 5, 2022)

We will take well-ordered steps to achieve peak carbon emissions and carbon neutrality. We will ensure energy supply and push forward the transformation toward low-carbon development.

State Council

Guiding Opinions on Energy Work for 2022 (March 17,2022)

Taking active and wellordered steps to promote the approval for construction of new coastal NPP projects on the premise of ensuring its safety.

NEA

Report to the 20th National Congress of the CPC (October 16,2022)

Working actively and prudently toward the goals of carbon peaking and carbon neutrality. Based on China's energy and resource endowment, we will advance initiatives to reach peak carbon emissions in a well-planned and phased way in line with the principle of building the new before discarding the old. Developing nuclear power in an active, safe and orderly manner.

National Energy Work
Conference
(December 30, 2022)

Ensuring energy security, and promoting green development unswervingly. **Developing nuclear power in a safe and orderly manner**.

National policies to support nuclear power development



Vision

A world-class nuclear power supplier and service provider with international competitiveness

- Robust business, achieving stable performance in operations and highquality commercial operations of construction projects
- Financial stability, ensuring capital security, and stable operating performance
- Stable returns, keeping promises and maintaining long-term stable dividend payout

Purpose

Continuing to create value for our customers, shareholders, employees and the society

- Keeping improving safety performance by benchmarking against world-class standards
- Adopting "centralization, specialization, and standardization"
 (CSS) strategy to enhance multi-unit management and control
- Implementing lean management, reasonably controlling project construction costs and optimizing O&M costs



- Dedicated to developing clean energy, focusing on nuclear power and comprehensive use of nuclear energy
- Improving resources utilization rate and reducing resources consumption
- Controlling emissions strictly and protecting the environment
- Pushing ahead with the approval and kick-off of new projects to maintain good momentum
- Actively developing and mastering new nuclear power technologies to maintain sustainable development
- Strengthening commercialization and promotion of research results to increase business opportunities where appropriate
- Developing energy storage projects related to nuclear power as appropriate and expanding nuclear heating services and etc.





14th Five-Year

- Focusing on the five first-class goals in respect of safety, quality and environmental protection, project construction, technology innovation, operational efficiency, and corporate management;
- Hongyanhe Unit 5&6 have been put into operation. We will push forward the quality commercial operation of Fangchenggang Unit 3&4 and Huizhou Unit 1 as planned;
- Striving to commence the construction of 2 to 3 new units every year.

By 2035

- Becoming a world-class nuclear energy international company competitiveness;
- Achieving excellence in key performance indicators such as safe operation, project construction and operating efficiency with remarkable benefits of comprehensive nuclear energy utilization.

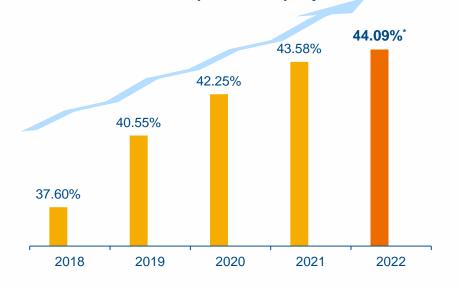


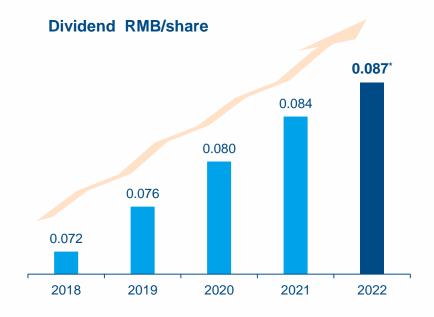


Dividend Distribution Plan for 2021-2025

On the preconditions that there are no significant changes and approval is obtained from AGM of the relevant fiscal year, the Company aims to achieve a reasonable increase in the annual dividend ratio from 2021-2025 based on the dividend ratio in 2020 (42.25%).

Dividend Ratio (total dividends/net profit attributable to shareholders of the parent company*100%)





^{*:} Dividend of 2022 is subject to approval by 2022 AGM and is expected to be distributed in July 2023.

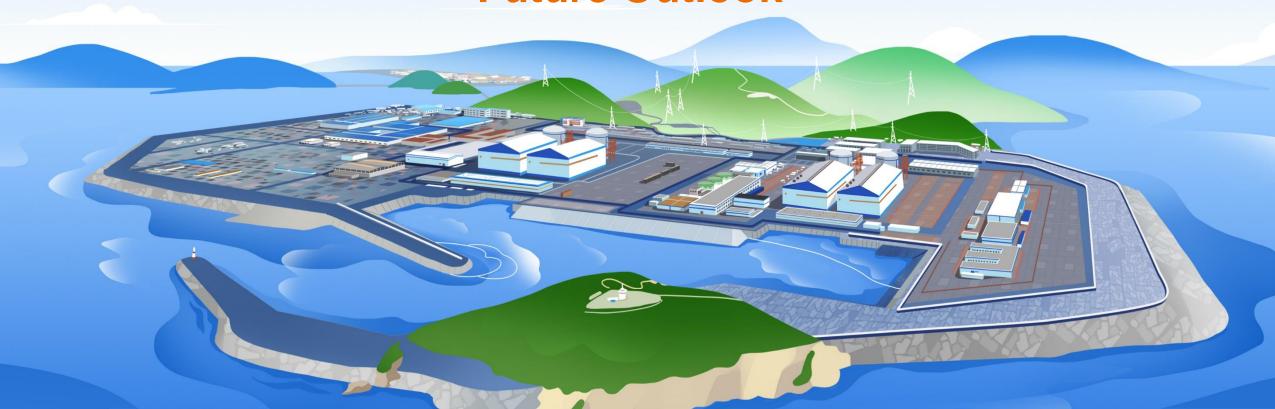


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Part II Business Review and

Future Outlook





on site

Nuclear safety is the cornerstone of the company's survival and development





The ratio of WANO¹ indicators achieving the world's advanced and excellent level remained leading among peers²







Achieving the world's top 1/10 level

No International Nuclear Event Scale(INSE) incidents at level 2 or above occurred

6000 days

As of March 16, 2023, Ling'ao Unit 1 has been operating continuously and safely for 6000 days

Note1:WANO-World Association of Nuclear Operators, WANO organizations, through their members, use them to formulate internationally common performance indicators for unified management and coordination, which is conducive to strengthening the exchange of nuclear power technology, experience and accident information to continuously improve the safety and reliability of NPPs in the world.



655 days

Refueling Outages

2022 2021 19 refueling outages completed and with total completed and with total

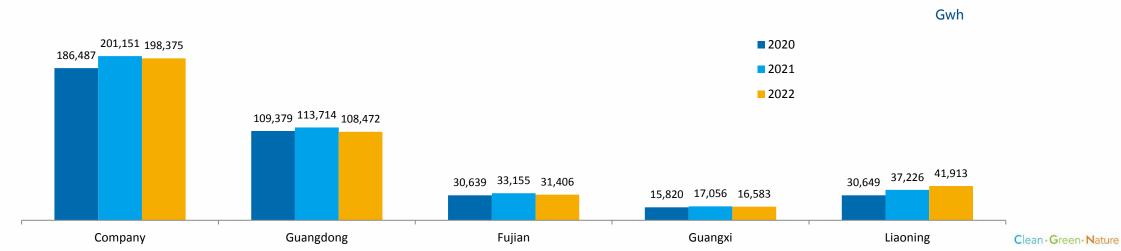
557 days

Average Utilization Hours

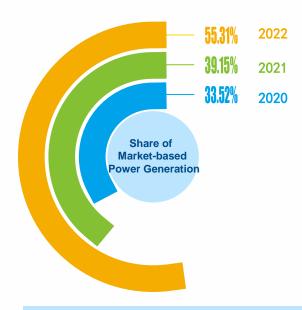




On-grid Power Generation in Total and by Region







Average Market-based Power Tariff (Tax inclusive)

RMB/kwh



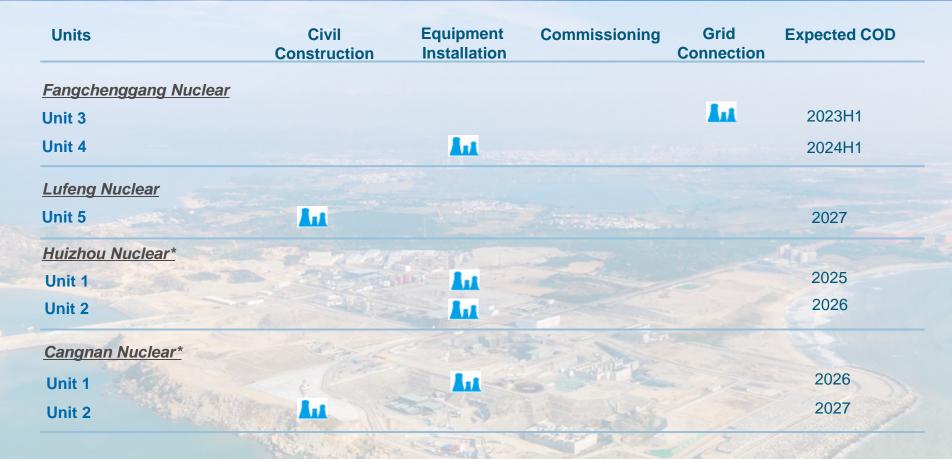












Progress as of December 31, 2022.

Civil construction phase: refers to the process from the First Concrete Day ("FCD") to the proper roof installation of the main plant of the nuclear reactor.

Equipment installation phase: refers to the process from the installation of nuclear island equipment upon the roof installation of the main plant of the nuclear reactor to the nuclear island main system meeting the conditions to conduct cold function tests.

Commissioning phase: refers to the process of conducting cold function tests for nuclear island main system and commencing joint commissioning for the power plant.

Grid connection phase: refers to the commissioning of generators upon the first grid connection with the power grid, demonstrating that the power generating units are capable for power generation.

*: Huizhou Unit 1, Unit 2 and Cangnan Unit 1, Unit 2 are managed by the Company as entrusted by the controlling shareholder.

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Technological R&D

- > Technical specifications designed by China are launched, creating Chinese standards for safety operation of nuclear power;
- The "Wukong" robot helps repair of generator rotor, improving safety and efficiency of outages;
- Using AR head-mounted display effectively reduces the working hours through intelligent prompt of required tools and O&M procedures;
- China's first "diagnosis system of personnel status" enables intelligent management of human-caused potential hazards.

Comprehensive Use of Nuclear Energy

- ➤ Hongyanhe nuclear bases provide clean nuclear heating to the neighboring areas;
- Obtained the controlling development rights of two pumped storage projects in Guangdong province;
- Equity participation in an approved pumped storage project, the main works of which have started construction;
- Building a large-scale nuclear storage complementary electrochemical energy storage demonstration project in collaboration with others.





With heating, the temperature in the classroom of Honghe Hope

Middle School in Hongyanhe Town is 26 $^{\circ}$ C





ESG: Environmental, Social and Governance

ESG promotes sustainable development, focusing on environmental, social and governance standards. Aligned with the philosophy of new development in China, ESG has become one of the most important development directions in the global responsible investment.

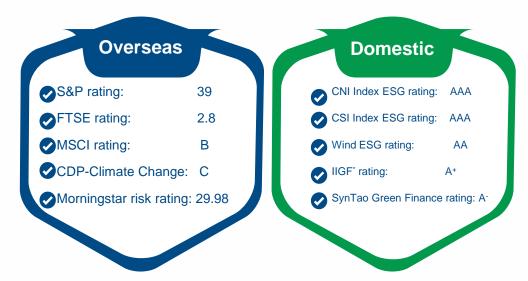
ESG is highly aligned with the management philosophy of CGN Power

E

Natural energy powering nature, fulfill the responsibility of biodiversity conservation, adhere to green development, zero carbon emission, strive for a bluer sky and clearer water.

Care for employees, multi-stakeholder cooperation, boosting local economy and benefiting local people.

Credible and transparent communication, maintain a high standard of corporate governance, create value and give back to society and shareholders.



ESG Rating



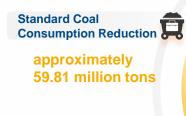


In 2022, a total annual on-grid power generation of 198,375 GWh, equivalent to **0.45 million hectares** of forest















CO₂ Emission
Reduction

Approximately
164.2543 million tons

Oxynitride Emission Reduction

approximately
30,200 tons



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Sound Governance System

Proactive Information Disclosure

Transparent Public Communication

Active Public Service







- √ 499 reactor operators
- √ 961 senior reactor operators
- √ 144 employees obtain the qualification for fuel operators



Rating A by
Shenzhen Stock
Exchange for
information
disclosure

LACP Platinum
Award for
annual report

Best Practices of Board of Directors' Office Award by CAPCO

"Special Contribution Award for Corporate Governance" of Chinese Listed Companies Board

New Fortune Best IR HK-listed Company(A+H shares)

2022 China ESG 50 by Forbes China





Main tasks in 2023



To further develop safety system and ensure absolute safety in nuclear development



To maintain safe and stable operation and conduct 19 refueling outages



To develop the cradle of new technologies and strengthen transformation of research results



To follow changes in external environment and ensure stable development of the company



To push forward construction of units as planned, achieve commercial operation of F3



To follow the market changes closely and strengthen marketing capabilities



To strengthen implementation of CSS strategy and lean management



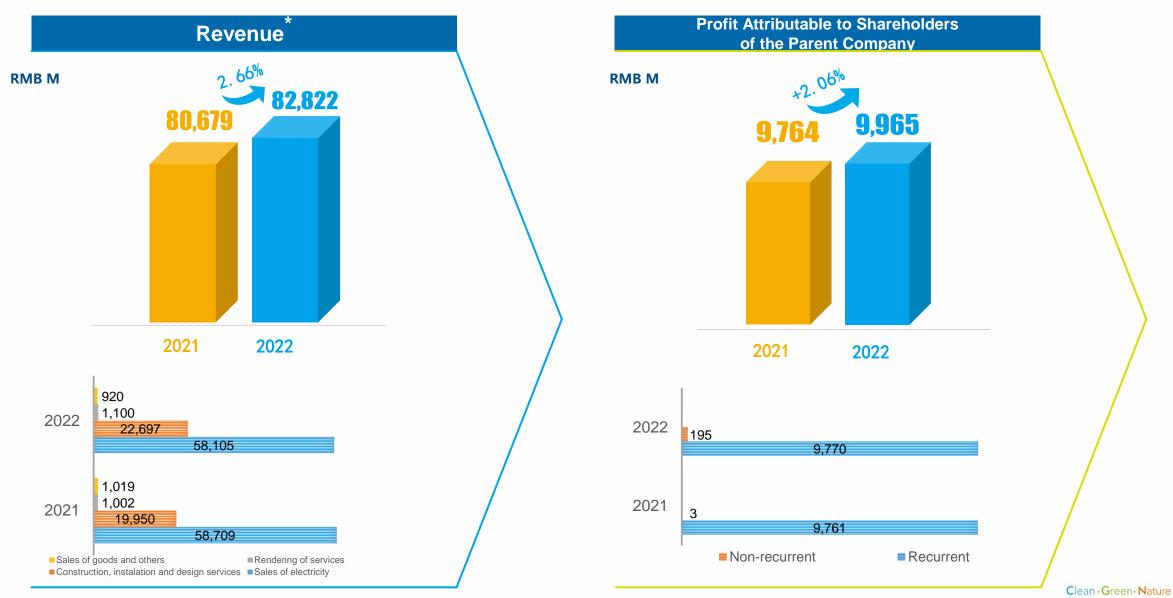
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Part III Financial Review



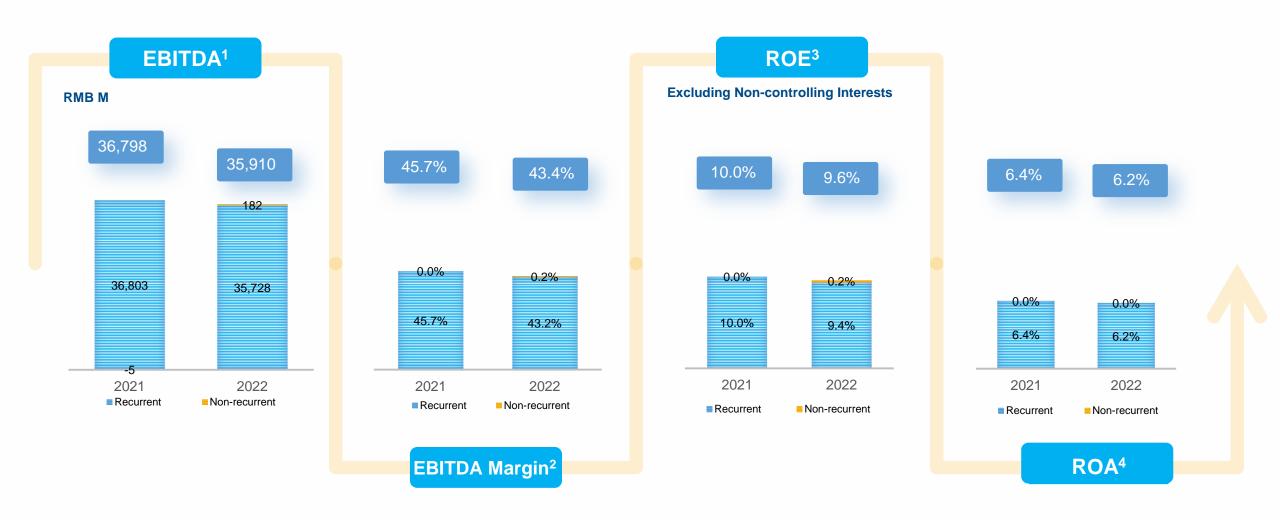








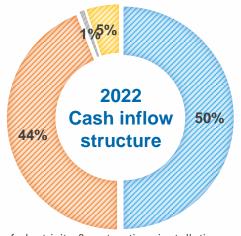




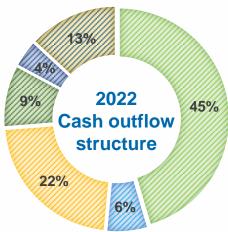
Note 1: EBITDA=Total profit + Interest expenses recognized in profit or loss + Depreciation and amortization Note 3: ROE(Excluding non-controlling interests)= Net profit attributable to shareholders of the parent company/Average equity attributable to shareholders of the parent company (the arithmetic mean of the opening and closing balances) * 100%

Note 2: EBITDA margin= EBITDA/Revenue * 100% Note 4: ROA= (Total profit + Interest expenses recognized in profit or loss)/Average total assets (the arithmetic mean of the opening and closing balances) * 100%





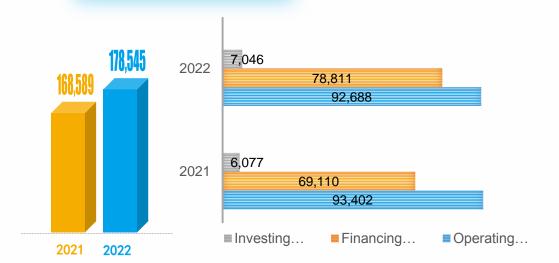
- Sales of electricity &costruction, installation and design services
- Cash received from loans
- Tax refund
- Others



- Pay back loans
- Fixed assets
- Purchase and labor services
- Divedend and interests payment
- Taxes payout
- Others

Cash inflow in 2022

RMB M



Net Operating Cash Flow in 2022

RMB M

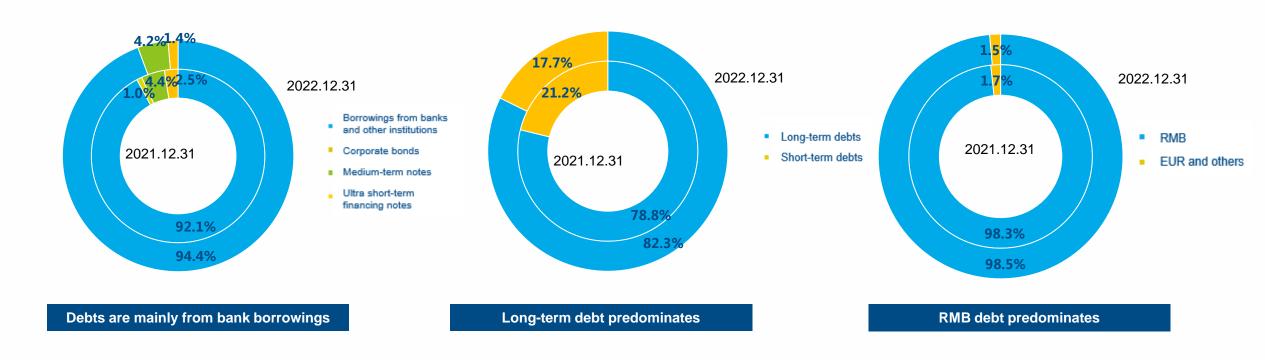


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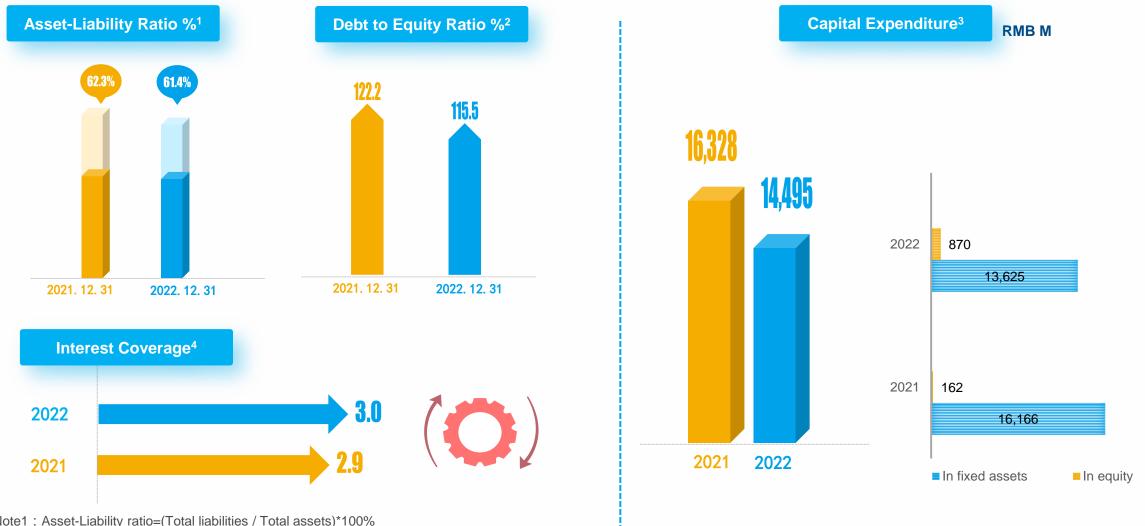




In 2022, the company seized the opportunity to issue six tranches o ultra short-term financing notes and one tranche of medium-term note, raising a total of 9.9 billion yuan. The company also carried out long-term bank borrowings restructuring, thereby effectively reducing financing costs. Average financing costs in 2022 fell by about 24BP from the same period last year.







Note1: Asset-Liability ratio=(Total liabilities / Total assets)*100%

Note2: Debt to equity ratio=Net debt (the total amount of bank and other borrowings less cash and cash equivalents and other deposits over three months)/Total shareholders' equity*100%

Note3: The CAPEX here refers to cash flows.

Note4: Interest coverage=(Total profit + Interest expenses recognized in profit or loss)/(Interest expenses recognized in profit or loss + interest expenses capitalized)





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Thank you!

