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Clean · Green · Nature





严・慎・细・实





Note: As of December 31, 2021.

中广核GOCGN Distribution of Our Nuclear Power Projects

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01	On-Grid Power Generation	 201,150.85Gwh (Subsidiaries & Associates) 163,924.42Gwh (Subsidiaries) 	+7.86%yoy +5.19%yoy
02	Revenue	• RMB 80,679M	+14.30%yoy
03	Net Profit Attributable to Shareholders of the Parent Company	• RMB 9,733M	+1.78%yoy
04	Net Profit Attributable to Shareholders of the Parent Company (Excluding the Effect of Non-Recurring Gains or Losses)	• RMB 9,730M	+3.42%yoy



Clean, Reliable and Efficient, help to peak carbon dioxide emissions before 2030 and achieve carbon neutrality before 2060

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Unique Advantages of Nuclear Power





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Note: Data from the 2021 National Power Industry Statistics Overview issued by the CEC.

Active, Safe and Well-ordered, Maintain Stable Development

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Green and Low-carbon Transformation of Energy, Undertaking Important Missions

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Share of Nationwide Nuclear Power Generation and Installed Capacity^{Note}



Note: Data from the 2021 National Power Industry Statistics Overview issued by the CEC.

Benchmarking the International First-class, Pursuit of Excellence, Stable Operation

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Vision

A world-class nuclear energy enterprise with international competitiveness • Robust business, achieving stable performance in operations and high-

quality 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 optimal benefits 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, strictly 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 leading position in installed capacity
- Accelerating the R&D of advanced nuclear power technology, improving the level of independent innovation
- Exploring investments in supportive energy storage projects related to nuclear power as appropriate



Focus on Long-term Development, Anchor Short-term Goals

严・慎・细・实



- Achieving excellence in key performance indicators such as safety operations, project construction, and operational efficiency;
- Expanding the use of nuclear energy for services such as heating, steam supply to an appropriate extent to enhance the comprehensive benefits of the comprehensive use of nuclear energy.

14th Five-Year

- Focusing on the five aspects comprising safety, quality and environmental protection, project construction, science and technology innovation, operational efficiency, and corporate management;
- ✓ To realize the quality commercial operation of Hongyanhe Unit 5&6, Fangchenggang Unit 3&4 and Huizhou Unit1;
- ✓ Striving to commence the construction of 2 to 3 new units every year.

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Attention to Shareholder Return, Achieving Long-term Stable Dividend Payout

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the Dividend Distribution Plan for 2021-2025^{Note1}

On the preconditions that no significant changes happen to our business, performance and finance, and approval is obtained from AGM of the relevant fiscal year, the Company aims to achieve a moderate increase in the annual dividend ratio based on the dividend ratio in 2020(42.25%), and provide shareholders with stable and reliable returns.

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



0.068 0.072 0.076 0.080 0.072 0.0800

Dividend RMB/share

Note1: The Dividend Distribution Plan for 2021-2025 has been approved at the 2020 AGM.

Note2: All dividend in 2021 will be distributed after being approved by our shareholders at the 2021 AGM and is expected to be distributed on around July 7, 2022.



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Nuclear Safety is Paramount, Pursuit of Excellence

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



On-site Management



the ratio of WANO^{Note} indicators achieves the world's advanced level and excellent level, leading among industry peers



No International Nuclear EventAs of December 31, 2Scale(INSE) incidents at level 2has been operating ofor above occurred.safely for 5622 days.

As of December 31, 2021, Ling'ao Unit 1 has been operating continuously and

Note : 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.



All operating nuclear units operated with more and full load power generation to ensure the social demand of the power supply

严・慎・细・实

广东省积极应对电力供应紧张局面全力保障全省电力有序供应



2021年9月25日 证券时报e公司讯,广东省委省政府高度重视,精心组织 并全力采取有效措施,积极应对近期电力供应紧张状况。全力增加电力供 给,保障广东省电煤供应,督促天然气供应主体保障天然气供应... %人民资讯 ③ 百度快照

<u>广西明确:限电不拉闸,限气(天然气)不关阀_腾讯新闻</u>



2021年10月20日 今年以来,国内电力、煤炭供需持续偏紧,一些地方出现 拉闸限电。广西能源供应基本平稳有序,但能源电力供需形势仍十分严 峻。《通知》对做好广西能源电力保供工作进行了明确要求。坚决... 腾讯网 ③ 百度快照

福建启动阶段性有序用电,官方:不是拉闸停电



面对全国限电,东三省辽宁首当其冲,黑吉紧跟其后_腾讯新闻



2021年9月25日 限电政策在辽宁出台以后,吉林,黑龙江也陆续开始限电。 限电政策要从当前执行到年底,国家确实是高瞻远瞩。怎么做目的简单来 说一下,并不是说国家没有钱了,用不起电了。是国际环境有变化... 腾讯网 ③ 百度快照





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Note: Data from the 2021 National Power Industry Statistics Overview issued by the CEC.

中广核GOCGN 严・慎・细・实 Well-organized Refuelling Outages, Excellent Utilization Hours **Utilization (Hours) NPPs** 2019 2020 2021 Daya Bay 8231 8437 8369 2020 2021 Ling'ao 8212 7589 7679 Total: 17 Outages, 553 days, Total: 16 Outages, 557days Including 15 refuelling outages Including 13 refuelling outages, Lingdong 7585 7288 7177 and 2 initial outages 2 ten-year outages and an initial outage Yangjiang 7442 6953 8031 Created excellent records of refuelling outages Taishan 5642^{Note} 7502 6605

L409: ten-year outage created the record of the shortest duration for the refuelling outages of the same type units Y304: refuelling outage created the record of the shortest duration for the refuelling outages of the CPR1000 units Fangchengg 7752 8345 7898 ang Ningde 7200 7519 8102 Hongyanhe 7314 7307 8014 7507 7731 7309 Average

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Note: Taishan Unit 1 began shutdown and inspection on July 30, 2021.



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Share of Market-based Power Generation



Construction Proceeding at a Steady Pace, Safety and Quality First

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Hongyanhe Unit 5 commenced commercial operation on July 31, 2021.



Fangchenggang Unit4 completed the roof installation on January 24,2021. Fangchenggang Unit3 commenced the cold functional test on May 15, 2021.



Cangnan Unit 2 officially commenced construction on December 30, 2021.



Huizhou Unit 1 completed the roof installation on December 24, 2021.

Units	Civil Construction	Equipment Installation	Commissioning	Grid Connection	Expected COD			
Hongyanhe Nuclear								
Unit 6			La		2022H1			
Fangchengang Nuclear								
Unit 3			<u>Aut</u>		2022H2			
Unit 4		<u>Li</u>			2024H1			
Huizhou Nuclear*								
Unit 1		<u>Li</u>			2025			
Unit 2					2026			
Cangnan Nuclear	*							
Unit 1	<u>A.</u>				2026			
Unit 2	<u>Lit</u>				2027			

Note1: As of December 31, 2021.

Note2: 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.

Note3: 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.

Note4: Commissioning phase refers to the process of conducting cold function tests for nuclear island main system and commencing joint commissioning for the power plant.

Note5: 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.

Note*:Huizhou and Cangnan NPPs are managed by the Company as entrusted by the controlling shareholder.

Increase R&D Strength, Strengthen Application of R&D Results







Technical improvements and innovations solve key technical issues

- Huizhou Unit 1 used 3D modeling to ensure roof installation was accurate and attained success in installation in one take.
- During the 10- year outage, Lingdong Unit 1 used a robot in the anti-corrosion maintenance of the pipeline, which the effect of the maintenance is better than that with traditional technology. The safety is guaranteed and the reliability of pipeline is highly improved.
- Hongyanhe NPP used the cold source safety comprehensive information management system, which improved the efficiency of cold source information acquisition and provided technical support for timely and effective cold source decision-making.

Intellectual property rights strengthen competitiveness

In 2021, the number of patents we have applied for reached 1,282, of which 893 obtained patent authorization. 4 invention patents won the 22nd WIPO-CNIPA Award for Chinese Outstanding Patented Invention & Industrial Design issued by the China National Intellectual Property Administration.

CNPRI: Fuel Assembly Loading and Unloading Method of Pressurized Water Reactor Nuclear Power Plant

- 2 CGN Engineering: Transient Test Control Method and System During the Commissioning and Start-up of a Nuclear Power Plant
- 3 CGN Engineering: Nuclear Power Plant Unit Frequency Control Method and System
- GGN Engineering: Cable for High Temperature Resistant Nuclear Power Plant and its Manufacturing Method



严・慎・细・实



ESG: Environmental, Social and Governance

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

ESG is highly consistent with the management philosophy of CGN Power



E: Environmental

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, multilateral cooperation, boosting the economy and benefiting the people there in which we conduct a construction project.



G: Governance

Credible and transparent communication, maintain a high level of corporate governance, protect the interests of shareholders and to enhance enterprise value.



- **Solution** ESG reporting Prize from Hong Kong Profession Management Association
- Rating A by Shenzhen Security Exchange for information disclosure
- The Company's ESG case was adopted into public company ESG cases Complied by China Association for Public Companies



Zero-carbon Clean Energy Helps Environmental Protection

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In 2021, a total annual on-grid power generation of 201,150.85GWh, equivalent to 0.45 million hectares of forest oal on Reduction eximately 30.85 on tons Solution Comparison C

Emissions Reduction

approximately

36,000 tons







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Emphasize Personnel Talent Cultivation to Promote the Development of the Company

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Wang Jiantao won the honorary title of "China Skills Award" and "Guangdong Nanyue Technical Expert"

Honors

Cui Li and Zhang Chunyu won the honorary title of "National Technical Expert" Wang Yan won the title of "Guangdong Nanyue Technical Expert" Lan Yonghui was awarded "Guangdong Quality Craftsman"





Open and Transparent Communication, Assume the Social Responsibility

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Proactive Disclosure of Information Transparent Public Communication Win-win Community Development



The 18th China-ASEAN Expo

The 23rd China Hi-tech Fair



CNPRI Beacon Project----Promoting NPP in Shenzhen Middle School



In 2021, we had over 12,700 employee volunteers and nearly 27,000 persons participating in public service activities for a total of over 48,000 hours.



8•7 Public Open Day in 2021



The Residing Children Assistance and Care Campaign



Silkworm Breeding Skills Training to Silkworm Raisers in the Village



中广核GOCGN Main Tasks in 2022 严・慎・细・实 To Safeguard nuclear safety **To Push forward construction** of all units under construction **Safety First Quality Foremost** To ensure all in-service To strengthen electricity power units operate safely marketing and stably **Pursuit of Excellence** To promote development To implement Lean through self innovation Management To implement risk management Clean - Green - Nature 2021 Annual Results-25



严・慎・细・实



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Note: Hongyanhe Nuclear is not included in the consolidated financial statements, therefore the revenue of Hongyanhe Nuclear is not included in the Company's revenue.

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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(Return on total assets)= (Total profit + Interest expenses recognized in profit or loss)/Average total assets (the arithmetic mean of the opening and closing balances) * 100%

Cash Inflow Structure in 2021

Cash Outflow Structure in 2021



Cash Inflow in 2021 RMB M 142,823 168,589 5,148 6,077 5,148 69,110 53,397 93,402

2021

■ Business ■ Fundraising ■ Investment

2020

Net Operating Cash Flow in 2021



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严・慎・细・实

In 2021, the Company has issued a total of RMB11.5 billion of bonds.



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

Note4 : The capex here refers to cash flows.

