



# Science and Technology Daily

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20th CPC National Congress

## CPC Vows to Pursue High-quality Development

By Staff Reporters

The Communist Party of China (CPC) ushered in a new era of socialism with Chinese characteristics, eradicated absolute poverty and finished building a moderately prosperous society in all respects, thus completing the First Centenary Goal, Xi Jinping said in a report at the opening session of the 20th CPC National Congress on October 16.

China has joined the ranks of the world's innovators with breakthroughs in some core technologies in key fields, such as manned spacecraft, Moon and Mars exploration, deep sea exploration, supercomputer, satellite navigation, quantum information, nuclear power technology, large aircraft manufacturing and biomedicine.

"From this day forward, the central task of the CPC will be to lead the Chinese people of all ethnic groups in a concerted effort to realize the Second Centenary Goal of building China into a great modern socialist country in all respects and to advance the rejuvenation of the Chinese nation on all fronts through a Chinese path to moderniza-

tion," Xi said.

To build a modern socialist country in all respects, we must, first and foremost, pursue high-quality development, said Xi.

In pursuing economic growth, China will continue to focus on the real economy and advance new industrialization. The country will move faster to boost its strength in manufacturing, product quality, aerospace, transportation, cyberspace and digital develop-

ment. Education, science and technology, and human resources are the foundational and strategic pillars for building a modern socialist country in all respects, Xi said in this report, and stressed fully implementing the strategy for invigorating China through science and education, the workforce development strategy and the innovation-driven development strategy.

"We will continue to give high priority to the development of education, build China's self-reliance and strength in science and technology, and rely on talent to pioneer and to propel development," Xi said.



The 20th National Congress of the Communist Party of China opens at the Great Hall of the People in Beijing, capital of China, Oct. 16, 2022. (PHOTO: XINHUA)

## International Cooperation

### Sci-tech Ties Develop BRI Countries

By Staff Reporters

By the end of 2021, China had signed more than 200 cooperative documents under the Belt and Road Initiative (BRI) with 145 countries and 32 international organizations, covering fields like science and technology, trade, investment and people's livelihood.

With the Belt and Road Science, Technology and Innovation Cooperation Action Plan launched in 2017, China and BRI countries have conducted cooperation projects in terms of sci-tech and people-to-people exchanges, joint laboratories, science parks and technology

transfers.

By the end of last year, China had established sci-tech cooperative relationship with 84 BRI countries, investing 2.99 billion RMB, supporting 1,118 joint research projects and setting up 53 joint laboratories in agriculture, new energy and health care.

Along with the China-Belarus Great Stone Industrial Park and China-Ethiopia Eastern Industry Zone, several dozen cooperative industrial parks have also been built in BRI countries, acting as important carriers for economic and trade cooperation.

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The last box girder along the Jakarta-Bandung High-Speed Railway (HSR) has been erected, laying a solid foundation for the completion of the HSR and its opening to traffic in June 2023. (PHOTO: XINHUA)

## Editor's Pick

### Greener Future Becomes Reality

By WANG Xiaoxia

"Lucid waters and lush mountains are invaluable assets." These frequently quoted words define a key component of China's philosophy of ecological civilization. This philosophy is consistent with traditional Chinese culture that values the harmonious coexistence between humans and nature, simultaneously illuminating the path to a sustainable future.

According to the National Bureau of Statistics (NBS), China has made steady progress in building its ecological civilization over the past 10 years, in the process realizing the green transformation of economic and social development.

#### Better environment

With effort taken to reform the in-

dustrial, energy, transportation, and land use structure, and constantly improve the mechanism for preventing and controlling pollution, clean waters and green mountains are being more commonly seen across China.

In 2021, the share of coal in the country's primary energy consumption dropped to 56.0 percent, down 12.5 percent from 2012, and the clean energy consumption increased to 25.5 percent. Both the country's installed capacity and generation of photovoltaic and wind power rank first in the world.

Last year, the percentage of days with good air quality was 87.5 percent in cities at and above the prefecture-level, an increase of 6.3 percent over 2015. The average concentration of hazardous airborne particles PM<sub>2.5</sub> was 30 micro-

grams per cubic meter, down 34.8 percent from 2015, said the NBS.

The proportion of surface water at or above Grade III in the country's five-tier water quality system increased to 84.9 percent in 2021, 23.3 percent higher than that of 10 years ago. The safe utilization rate of polluted farmland in China remained stable at more than 90 percent.

#### Reserved ecology

Progress made in the quality of air, water and land is remarkable, so is the restoration of ecological systems including forests, grassland, and wetland. Currently, the protected natural areas account for about 18 percent of China's land mass. There are five national parks and 41 global geoparks, ranking first in the world in the number of geoparks.

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### Protecting Our Common Home

By Staff Reporters

To realize a harmonious coexistence of humans and nature is the shared responsibility of each country on the planet. Guided by the vision of "Lucid waters and lush mountains are invaluable assets," China has played its part in creating a clean and beautiful world in a sustainable way.

Between 2000 and 2017, China's newly added vegetation comprised about one quarter of the growth in glob-

al green areas, contributing the most among all countries, according to a white paper released by the State Council Information Office in 2021.

By far, China has established the largest clean power generation system, and promised that the country will no longer build new coal-fired power projects overseas.

In addition, China and 31 partners have involved themselves in the Initiative for Belt and Road Partnership on Green Development, joining hands to

tackle environmental challenges.

In cooperation with other countries, China has also worked hard on the protection of biodiversity.

Along the Chinese-built Mombasa-Nairobi Standard Gauge Railway in Africa, there are a total of 14 large wildlife passages and 79 bridges, ensuring the height of all the bridges and passages is more than 6.5 meters so that large animals such as elephants and giraffes can get through.

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## WEEKLY REVIEW

### A Remote Sensing Satellite Lifts off

The remote sensing satellite Yaogan-36 lifted off from the Xichang Satellite Launch Center in the southwestern province of Sichuan on October 15. It was launched by a Long March-2D carrier rocket and marked the 444th flight missions of the rocket.

### Autumn Harvest Speeds up

About 71.3 percent of the farmland across China have been harvested by October 17, covering over 62 million hectares, indicating a growth rate of 2.6 percent in harvest efficiency year on year, according to China's Ministry of Agriculture and Rural Affairs. The harvest efforts in other crop areas within the country are also speeding up.

### ISO for Automated Driving Systems

The ISO 34501 was published last week, defining several aspects of test scenarios for automated driving systems, including safety evaluating structures, scene terminologies, and scene classifications. The establishment of the standard was led by Chinese experts.

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