

CIIE: A Platform of High-standard Opening up

By LI Linxu

The 6th China International Import Expo (CIIE) witnessed a record-breaking 78.41 billion USD worth of tentative deals reached for one-year purchases of goods and services, injecting new dynamism into the global economy.

As the world's first national-level import expo, CIIE is serving as a platform of high-standard opening up that allows China's enormous market to be shared by the world.

"It's an honor for Serbia to be presented as one of the guest countries of honor at this year's expo," Danijel Nikolic, assistant secretary general of the Government of Serbia, told *Science and Technology Daily (S&T Daily)*. He said that CIIE is an important platform of China's high-standard opening up, through which Serbian companies have reached many cooperation agreements with their Chinese partners.

Honduras is also one of the guest countries of honor at this year's expo. Yadira Gómez, tourism minister of Honduras, told *S&T Daily* that CIIE is also an important platform to promote culture and people-to-people exchanges. Through CIIE, participants from around the world have opportunities to know more about Honduras.

"For Japanese companies, CIIE is a great platform to showcase their products and explore cooperation opportunities in China," Ueno Asako, minister from Embassy of Japan in China, told *S&T Daily*. About 350 Japanese companies took part in this year's expo, and she hoped that there will be more Japanese companies coming to CIIE next year.



The China Pavilion at the 6th CIIE in Shanghai. (PHOTO: LI Linxu/S&T Daily)

"CIIE is truly exceptional for its scale and diversity," Liao Honggang, professor from Xiamen University, told *S&T Daily*, adding that CIIE is a great platform for exchanges and conducive to transforming sci-tech achievements.

"We firmly believe that the Chinese market will continue to play a pivotal role in the global pharmaceutical innovation, poised to unlock substantial potential," said Paul Hudson, CEO of Sanofi, adding that Sanofi will persistently deepen engagement in China.

"Thanks to CIIE, EY has reached co-

operation with many enterprises," Titus von dem Bongart, EY Partner, told *S&T Daily*, adding that EY is committed to growing with the Chinese market.

"CIIE has provided a great opportunity not only for showcasing cutting-edge technologies and products, but also for exchanges and cooperation for enterprises," said Zhao Yao, general manager of Omron Healthcare (China).

Tapping into China's vast market opportunities, 3,486 companies from 128 countries and regions have participated in the event.

China's Vibrant Internet Development Benefits World

By ZHONG Jianli

The number of Internet users in China surged from 564 million in December 2012 to 1.079 billion in June 2023, with the Internet penetration rate rising from 42.1 percent to 76.4 percent. This sizzling growth has propelled the country to become the world's largest and most vibrant digital society. That's according to a press conference on the release of the *China Internet Development Report 2023* and the *World Internet Development Report 2023* at the 2023 World Internet Conference Wuzhen Summit on November 8.

These two reports, mainly written by Chinese Academy of Cyberspace Studies (CACS), were a collaborative effort involving relevant Chinese departments, as well as foreign think tanks and research institutions.

Xia Xueping, director of the CACS, said during the press briefing that the growth of China's digital economy, which surged from 11 trillion RMB in 2012 to 50.2 trillion RMB in 2022, enabled China to become a global leader in such aspects as Internet applications, the number of netizens, and the development of artificial intelligence.

The *China Internet Development Re-*

port 2023 showed that digital technology has been deeply integrated into the daily lives of Chinese people. As of June 2023, the number of Internet healthcare users in the country was 364 million, and the rural Internet penetration rate had reached 60.5 percent.

The *World Internet Development Report 2023* highlighted China's efforts to enhance digital public services around the world. The country has utilized network information technology to carry out international education cooperation. It has also actively engaged in promoting and sharing digital poverty reduction experiences and solutions through

platforms such as the Asia-Pacific Economic Cooperation.

Of particular note is that this year's report focused more on the Internet development status of developing countries. Among the 21 developing countries analyzed by the report, 15 countries including Laos, Myanmar and Angola, demonstrated Internet application growth rates higher than the average growth rate of the selected developed countries.

These developing countries are all Belt and Road Initiative (BRI) partner countries. This, to some extent, illustrates the catalytic effect of the BRI on the Internet development in these countries.

High-quality Growth

Rural Guizhou Embraces Smart Villages

By Staff Reporters

With the deep integration of modern technologies such as 5G, big data, and the Internet of Things, rural areas in Guizhou province are becoming increasingly smart and fashionable.

Over the past decade, Guizhou has continuously delved into the digital economy, laying a solid foundation for the rise of "digital villages." From industrial development to rural governance, "digital villages" illuminate the colorful future of Guizhou and showcase the new model of rural revitalization in China.

Rural going digital

Surrounded by green water and leafy mountains, groups of black chickens peck at their food at a breeding base in the Shuangyan community, Zhuchang town, Bijie city.

Different from ordinary chicken farms, this smart ecological breeding base adopts such technologies as the Internet of Things, blockchain, and big data.

"We can quickly understand the temperature and humidity data of the breeding base to ensure that every black chicken has favorable growth conditions," said Peng Fen, head of the breeding base.

By simply opening the smart breeding system on their phones, villagers can easily grasp the real-time situation of the entire breeding base. "During busy times, we can feed the chickens remotely using our phones and scan the QR codes on their leg rings to see the quality data of each chicken," said Peng.

Established in 2020, the intelligent chicken breeding base now has a production value of 5.5 million RMB, becoming one of the pillar industries in the area.

A beautiful rural scene with 5G
"Tourists, please take care and

mind the protective barrier." In Huawu village, Xinren Miao township, Qianxi city, village officials sit in their office and use a monitoring screen to remotely communicate with visitors.

Huawu, located deep in the mountains, has water on three sides. The unique Miao ethnic customs and the picturesque landscapes combine to create a uniquely beautiful environment.

The influx of tourists to enjoy the surroundings has posed a challenge to providing efficient and convenient services and management. Thanks to the support of emerging technologies such as 5G and big data, the village has embarked on a path of intelligent management.

"We have built a 5G + Smart Rural Management Platform, which utilizes modern information technology to integrate rural resources, thereby improving the local government's service levels and management efficiency," said Tian Jiajiu, chief of the Xinren Miao township. Through the "digital village map," the platform visually presents data related to production, government affairs, and services in Huawu.

For the villagers, life has become more convenient since the introduction of the platform. Now, they can complete various government procedures, such as applying for necessary documentation, via this platform.

As for tourists, they can receive real-time information on visitor flow analysis, early warnings and other updates. Through 5G + VR live streaming, they can immerse themselves in the beautiful scenery of Huawu.

In addition, livestreaming e-commerce has boosted the sales of local products like yellow rice cakes, yellow ginger and Miao embroidery, increasing the income of local villagers.



Huawu village is equipped with 5G for rural management. (PHOTO: HE Xinghui/S&T Daily)

Tacheng: Transforming Wind into Economic Advantage

Case Study

By CHEN Chunyou

The Laofengkou-Mayitasi wind zone in northwest China's Xinjiang Uygur autonomous region, commonly known as the devil wind area, is one of the world's largest wind disaster areas. Every year, the zone is buffeted by eight-gale-force weather conditions almost half the year.

Tacheng region, located in this

zone, abounds with wind resources. However, in the past, these resources were not utilized and there were no wind turbine manufacturers in the region.

The winds of change came in December 2020, when the State Council approved a key pilot zone for development and opening up in Tacheng to promote urbanization of the border region and serve as an important window for cooperation with countries in Central Asia. Tacheng consequently embarked on a fast track of development.

Though Tacheng's economy mainly

relies on agriculture and animal husbandry, the local governments and residents have long tried to diversify the industries. In recent years, the area's wind advantages have begun to be turned into economic advantages.

New factories are coming up in the pilot zone, making the once desolate surroundings hum with activities. More than 60 enterprises have signed agreements to operate from the pilot zone, and several wind turbine and tower barrel manufacturing projects are already in operation. They include Sany (Tacheng) Wind Power Equipment Co., Ltd. and the Sinohydro Engineering Bureau No. 4 (Tacheng) Energy Equipment Co., Ltd.

Sany is among the first batch of enterprises to settle down in the zone, aiming for the vast consumption market in Xinjiang and Central Asia. It has filled the absence of local wind turbine manufacturers and created a low-carbon, high-end manufacturing industry in Tacheng.

Sany's 450-million-RMB project has an annual output of one million kilowatts of wind turbines and 600 blades. The value of the annual production is about two billion RMB.

Wu Hao, an administrative staff of

Sanyi, said the company chose Tacheng because its location is transport-friendly and the costs for transporting the products to other areas of Xinjiang and neighboring countries are low.

Wu said this year, 10 wind turbines were exported to Kazakhstan and other Central Asian countries via Xinjiang's Baketu Port.

"It takes about 24 hours to make a turbine from raw materials," said Dawuleni Wuken, a staff at the workshop of Sany. He came to Tacheng from Urumqi in February, drawn by its potential to develop new energy industries. "Many people from nearby provinces and regions have chosen to work in Tacheng like me," he added.

A number of upstream and downstream new energy companies have also been attracted to Tacheng, forming a clean energy industry cluster, which has become a new development driver of the region.

According to Chen Weilong, deputy director of the pilot zone's management committee, the total industrial output of the landed projects in the zone from January to October this year is expected to be worth over 300 million RMB.

Green Electricity Shines at CIIE

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When the system showed that the power load of the venue exceeded 40 percent, venue staff would check all load types to ensure that the entire venue operated under energy-saving conditions.

Meanwhile, with a total installed capacity of 2.2 megawatts of photovoltaic power generation on the roof of the venue, emissions were reduced by 4.6 percent for the duration of the expo. The venue also used the waste heat generated from power generation for summer cooling, winter heating, and domestic hot water supply, achieving reasonable energy utilization.

Long-term electricity generation
China is the world's largest producer and consumer of electricity, having the world's top power generation, power grid scale and new energy scale.

Under the aim of having CO₂ emissions peak by 2030 and achieving carbon neutrality before 2060, the power industry has vigorously promoted the green and low-carbon transformation, with remarkable results.

According to data from China's National Energy Administration, as of the

first nine months of 2023, China's installed capacity of renewable energy had been about 1.384 billion kilowatts, accounting for about 49.6 percent of the country's total installed capacity, which has exceeded the installed capacity of thermal power. China has now ranked first in hydropower, wind power and solar power generation installed capacity for 18 years, 13 years and 8 years in a row, respectively.

As a leading country in renewable energy development, China has also been working with other countries to seek green energy and low-carbon innovation solutions.

Whether it is the "power expressway" built by the State Grid Corporation of China, which transports hydropower from the Amazon River basin to southeastern Brazil more than 2,500 kilometers away, meeting the electricity demand of 22 million people, or the Saudi Arabian Al Schubach 2.6 GW photovoltaic power station project undertaken by other Chinese companies that have opened up a flower of hope in the desert, China's green power technology not only illuminates the CIIE, but also shines around the world.



A group of wind turbines in Laofengkou wind farm in Tacheng region, Xinjiang Uygur autonomous region. (PHOTO: VCG)