

First Meeting of New Year for High-quality Development



Policy

By Staff Reporters

As the Year of the Snake begins, various municipalities and provinces across China have already hosted their first planning meetings. These meetings are aimed at reinforcing the real economy, optimizing the business environment, and promoting technological innovation, thereby laying a strong foundation for high-quality economic and social development.

Strengthening real economy

The modern industrial system is pivotal for enhancing high-quality development, and regions are working hard to strengthen their real economies.

Guangdong province, a manufacturing powerhouse, has announced its 2025 action plan for building a modern industrial system. Ai Xuefeng, director-general of the Guangdong Provincial Development and Reform Commission, revealed plans for 1,500 key projects with an investment of one trillion RMB, half of which will focus on industrial projects, including 380 in high-end equipment manufacturing, new materials, and the petrochemical and steel industries.

In Chongqing municipality, the automotive sector remains a core industry. The city emphasized the need to expand the scale of the modern manufacturing cluster, pledging to attract key component projects while enhancing integration in sectors like integrated circuits and automotive electronics. Chairman of local car giant Changan Automobile, Zhu Huarong, said the company aims to sell 802,000 vehicles, including 240,000



The Hainan International Cultural Relics and Artworks Exchange Center and the Hainan International Cultural Exchange Center are under construction in Sanya city. (PHOTO: XINHUA)

electric vehicles, in the first four months of 2025.

Meanwhile, Guizhou province also convened a meeting and focused on constructing modern industrial systems aimed at maintaining and enhancing strengths in modern energy industry, fine processing of mineral resources, and light industries such as textiles and health products.

Optimizing business environment

Optimizing the business environment emerged as the theme of meetings in many regions. Strategies were outlined to enhance enterprise experience and ensure that various business entities are on board.

Shanghai introduced a comprehensive action plan to improve the business climate, featuring 58 tasks aimed at streamlining services for businesses, enhancing regulatory oversight, and

creating a favorable social environment for enterprises. This marks the eighth consecutive year that Shanghai has held such a conference dedicated to optimizing the business environment.

Further north in Liaoning, a meeting underscored the importance of providing a sense of belonging and ease of doing business in the province. A representative from the Jiangxi Chamber of Commerce in Liaoning noted proactive efforts by local services to connect businesses with available resources.

The meeting held in Guangxi Zhuang autonomous region emphasized the need to accelerate high-quality development. Lin Weimin, a leader in Guangxi Laibin Dongtang Group, said the meeting particularly emphasized the principle of "no unnecessary interference while being responsive to every request" towards private enterprises. Lin added

that enterprises should therefore boldly move forward, and strive to promote high-end, intelligent, and green development in their own industry.

Advancing sci-tech innovation

During the Spring Festival, numerous technology companies in Hangzhou, Zhejiang province, including Unitree and DeepSeek, showcased their innovations, drawing attention to Zhejiang's commitment to technological advancement. The province aimed for continuous breakthroughs in innovation capabilities and emphasized deep integration of educational, technological, and industrial development.

Hubei's conference featured an impressive display of humanoid robots, showcasing the province's advancements in robotics. It has 19 industries whose output values have exceeded 100 billion RMB, and some have even reached the trillion RMB level, such as the optoelectronic information, automobile manufacturing and healthcare. Hubei is now enhancing its sci-tech innovation capabilities and developing a comprehensive system for the transformation of sci-tech achievements.

Hainan province also held a talent conference aimed at fostering an open talent acquisition mechanism, creating platforms for international talent exchange, and encouraging innovation and entrepreneurship with a focus on the unique features of the Hainan Free Trade Port.

Li Xiaoming, executive director of the Hainan Aerospace Technology Innovation Center, said Hainan has, over the years, attached unprecedented importance to talent and technological innovation, which enabled broad prospects for their development.

Electricity Carbon Footprint Factor Data Released

By WANG Manxi

China unveiled its inaugural electricity carbon footprint factor data in late January, marking a milestone in domestic carbon accounting.

The data covers a wide range of energy sectors, from coal-fired power generation to biomass power energies, as

well as clean energies like gas, hydroelectric, nuclear, wind, photovoltaic and solar thermal power, as well as their transmission and distribution.

The data, based on information gathered from related industries in 2023, was jointly released by the Ministry of Ecology and Environment, the National Bureau of Statistics, and the National En-

ergy Administration. It will be used to calculate the carbon footprint of electricity production and consumption across various industries.

Prior to this release, foreign databases relied solely on outdated and inflated default values to analyze China's greenhouse gas emissions. The new data will more accurately reflect the progress China has made in recent years toward green and low-carbon energy transformation.

The research methodology is on par with international standards, laying the groundwork for mutual recognition of factors. The measurement process is grounded in a comprehensive analysis of typical and representative cases, with most data sourced from domestic enterprises.

To ensure comprehensive coverage, the case studies for calculating the electricity carbon footprint factors have been selected to incorporate regional representation, type diversity and key influencing factors. This approach ensures the results are more consistent with the objective reality of China's power development and demonstrates the latest achievements in China's power structure optimization

and technological advancement.

Take the calculations for the coal-fired power generation as an example. Over a hundred units were selected as case studies, covering 26 provincial-level regions. They encompass mainstream coal-fired power generation types such as varying capacity levels, pressure parameters and combustion modes.

Similarly, wind and photovoltaic power generation cases consider the distribution of China's wind and solar resources, ensuring a comprehensive and accurate representation.

The use of international standards to release power carbon footprint factor data in line with the actual situation of China will fill a gap in domestic data and solve the urgent needs of enterprises, and promote China's carbon footprint management and international data convergence.

This initiative will drive the green and low-carbon transformation of industrial and supply chains, foster the development of new quality productive forces, and support the realization of China's "dual carbon" goals.



The Datang Bikou Hydropower Plant in Longnan city, northwest China's Gansu province. (PHOTO: XINHUA)

Xiaoxigang: From Fishing Dock to Eco Haven

Case Study

By JIN Feng & ZHONG Jianli

Once a bustling fishing market, the Xiaoxigang area in Wuxi city, Jiangsu province in east China has undergone a remarkable transformation into a picturesque ecological park.

Stretching 6.7 kilometers from Caowangjing to Taihu Lake and covering a water area of 234,500 square meters, Xiaoxigang was recently listed as one of the third batch of outstanding cases for beautiful rivers and lakes by the Ministry of Ecology and Environment.

For many longtime residents of Wuxi, the memories of Xiaoxigang in the 1980s and 1990s conjure up images of a chaotic scene filled with fishing markets and docks, where poor disposal of waste led to declining water quality in Taihu Lake. The waters around Gonghu Bay, where Xiaoxigang is located, experienced blue-green algae blooms exacerbated by nearby industrial pollution and sedimentation in local rivers.

Over the years, Wuxi has implemented a comprehensive approach to manage its water resources, and multiple departments have collaborated to tackle the environmental and ecological challenges.

A blue-green algae control system was subsequently established along the

Taihu Lake coastline, enhancing the water ecology and enabling effective water environmental restoration.

Currently, three algae separation and collection stations have been established along the Xiaoxigang, Xuxiangang and Zhangqiaogang. Algae-water separation devices were put into operation, which utilized flocculants to consolidate algae into larger particles, facilitating their rapid sinking and treatment.

Moreover, the "sponge" concept has been applied to landscape design and infrastructure construction along the Xiaoxigang area, which helped promote the circulation of a regional water system and improve the overall water quality.

The sponge facilities along Qin-

ghui River, an important tributary of Xiaoxigang, include rain gardens, vegetation-buffered slopes, bioswales, and retention ponds, achieving a suspended solids removal rate of over 60 percent.

As part of the initiative, permeable concrete pathways have been laid along the riverside to capture and regulate rainwater. These facilities showcase a comprehensive permeability rate exceeding 70 percent, drastically mitigating pollution during rainstorms and enhancing water quality to revitalize the river ecosystem.

Now with its wooden walkways, lush underwater plants, and sailboat-shaped viewing platforms, the Xiaoxigang Yuzui Park has emerged as a popular destination for recreation and eco-tourism.

Military Medical Research

Fostering Military-Civilian Partnerships in Medicine

By FU Xiaobing & FAN Chenfang

As an important branch of comprehensive medicine, military medicine leads the innovation of medical technology in multidisciplinary fields, and extensively incorporates the sci-tech achievements of clinical, basic and preventive medicine to promote its innovative development.

Military Medical Research (MMR), founded in 2014, filled the void in English journals presenting military medicine in China. It not only reflects the frontline progression of military medicine research and communication, but also advances military-civilian mutual transformation of medical innovations.

Breaking stereotypes

At its beginning, *MMR* aimed to break the stereotypical perceptions of its content scope. Modern military medicine had already developed into a full-dimensional mission innovation system centered on injury treatment, health maintenance, capability enhancement, and the generation of new combat effectiveness. It was no longer just wartime or battlefield-related trauma care.

Over the past decade, *MMR* has been expanding the connotation of the discipline of modern military medicine and creating an open innovation ecosystem with the development of military-civilian partnerships and cross-integration.

Building global connections

Adhering to the philosophy of "running the journal for and by scientists" and focusing on critical care medicine, we invited a tenured professor from the University of Pittsburgh to serve as the international executive editor and recruited internationally reputed experts in related disciplines for the editorial board.

Dr. Timothy R. Billiar, president of the International Federation of Shock Societies, and Irshad H. Choudhry, a professor at the University of Alabama at Birmingham and editor-in-chief of the well-known journal *Shock*, were invited to be consultants for the journal. They contributed innovative publications and discussions on sepsis, shock and trauma.

Currently, international manuscripts account for over 80 percent of *MMR* publications, with the authors coming from top medical institutions such as Harvard Medical School and Stanford University, as well as well-known medical centers of the militaries of the U.S., Germany and the UK. The journal has more than 1,400 international core reviewers from 83 countries and



The first 2025 issue of *Military Medical Research*. (COURTESY PHOTO)

regions, providing high-level peer review and promoting innovation and development in the medical discipline through academic communications.

Dedicated to forward-looking innovation

MMR focuses on the promotion of military medical innovation and development. It is pushing forward the global technological frontiers and developing future academic and industrial branches, leading military medicine topics.

It champions interdisciplinary research and translational studies linking clinical practice with laboratory findings. For instance, a team led by academician Li Xiaokun at Wenzhou Medical University in east China developed an innovative piezoelectric hydrogel scaffold for efficient bone injury treatment, demonstrating significant potential for military medical applications.

After more than 10 years of unremitting efforts, with the support of colleagues worldwide, the connotative quality, international visibility and academic influence of *MMR* have significantly increased. It ranks ninth among 325 international Science Citation Index journals in comprehensive medicine and has been recognized as "China's Academic Journal with the Most International Influence."

Though there is a still long way to go, we are endeavoring to work with medical experts and scholars at home and abroad for a peaceful and healthy world.

FU Xiaobing is an academician at the Chinese Academy of Engineering and editor-in-chief of MMR; FAN Chenfang is the editorial director of MMR.

Journal Review

MMR is a general medical journal with unique characteristics. The publication of original, transformational and crossover research results related to military-civilian commonality continues to stimulate the agglomeration effect of innovative thinking, innovative behavior and innovation direction in the discipline, and has drawn the attention of many medical innovation researchers.

The development of *MMR* comes from, first of all, having an innovative and integrated team. The editor-in-chief and core editorial board members continuously innovate the structure of the editorial board, focus on improving the ability to run the journal, and adopt various ways to absorb high-level young talent and international experts in the team, providing strong academic support for the journal.

Since its establishment, the journal has endeavored to build an inter-

national reputation through scientific and standardized management. A complete academic quality and publication quality control system and working system have been established. Procedures for the identification, investigation and handling of academic misconduct have been strictly implemented, and the journal's scientific rigor has been established among the majority of researchers.

We hope that *MMR* will enhance its academic leadership, communication power and influence, and become a high-end academic exchange platform, leading to the development of medical innovation and fostering more outstanding medical research talent.

Gu Xiaosong, academician of the Chinese Academy of Engineering, director of the Key Laboratory of Neuroregeneration of Jiangsu Province, Ministry of Education, Nantong University.