

1. Green Agriculture

1.1 To Speed up the Green Agriculture Development in Hunan by Taking Multiple Measures

Source: Hunan Daily

Jan 23, 2022

In September 2021, six departments including the Ministry of Agriculture and Rural Affairs jointly issued China's first special plan for green agricultural development, the "14th Five-Year Plan for National Green Agricultural Development", which further improved the top-level mechanism. The 12th Hunan Provincial Party Congress clearly stated that it is necessary to unswervingly take the road of ecological priority and green development.

Since the 18th National Congress of the Communist Party of China, significant progress has been made in the green development of agriculture in our province. As of the first half of 2021, the province had 245 products with organic food labels, ranking second in the country; and 2,786 products with green food labels have been used, ranking fifth in the country. At the same time, the green agriculture development is still faced with problems such as insufficient supply of high-quality agricultural products, and insufficient incentive and restraint mechanisms for ecological development. It is necessary to vigorously promote the comprehensive green transformation of agricultural development. To this end, it is recommended to scientifically judge the regional green agricultural development in the province, and adopt targeted policies to achieve better development of agriculture and rural areas.

<http://www.worker.cn/34198/202201/23/220123133613612.shtml>

1.2 Jianshui County in Yunnan Does A Good Job of Organic and Ecological Development

Source: Yunnan Daily

Mar 13, 2022

Relying on a good industrial foundation and advantageous resources such as location and climate, Jianshui County in Yunnan province has adhered to the concept of green development in recent years, taking rural revitalization as the starting point.



Rural scenery of Qujiang Town, Jianshui County

In 2021, the vegetable planting area of Qujiang Town reached 97.3 square kilometers, with an annual output of nearly 200,000 tons of vegetables and an annual output value of 320 million yuan. It has been selected into the list of national strong agricultural towns.

He Jinyou, the director of Li Haozhai Township Agricultural Comprehensive Service Center, said that the next step is to improve the construction of farm water conservancy facilities, and plans to invest 1.7 million yuan to lay a solid foundation for industrial development and accelerate the development of agricultural and rural modernization.

In recent years, Jianshui County has taken the development of plateau agriculture as its breakthrough point, cultivated 14 leading agricultural enterprises at the provincial level, and continued to accelerate the development of agriculture facilities. The comprehensive mechanization rate of crops is over 60%, the high-efficiency water-saving agricultural area has reached 146.67 square kilometers, the amount of water saved has amounted to 10.5 million tons, and the pace of modern agricultural development was accelerated. Up to now, grain is planted in an area of 453.34 square kilometers, fruits 213.3 square kilometers, vegetables 233.3 square kilometers, and 880,000 live pigs and 6.4 million poultry are kept.

Press the switch, set the parameters, and the ozone gas produced by the 1-meter-high ozone spray multi-functional machine is continuously transported to the planting greenhouse through the black rubber tube. Through the use of ozone units, the usage of pesticides can be reduced by 70 to 80 percent.

In recent years, Jianshui County has made great efforts to promote the reduction of chemical fertilizers and pesticides, strengthen the control of agricultural pollution, and make every effort to strengthen the modern green food industry. Through strengthening the quality and safety supervision of agricultural products, the pass rate of the county's fruit and vegetable pesticide residue has reached more than 99%, and the agricultural product quality and safety traceability platform has been established and promoted, and 35 enterprises have entered the national and provincial agricultural product quality and safety traceability information platform.



Staff checking grape growth

Wogans, a kind of orange in south China, are acquired at high standard, sorted out with automated intelligent equipment, and distributed to the whole country by Jiaguo Agricultural Technology Development Co., Ltd., in Jianshui County Light Industrial Park.

This year, the company will build a comprehensive automated breeding park of to accommodate 1 million egg-laying hens, covering an area of 133,334 square meters.

The annual sales are expected to reach 1.039 billion yuan, laying a solid foundation for the company to strive to become a leading enterprise in agricultural national-level industrialization within three years, said Yu Jianjun, general manager of the company.

http://www.yn.gov.cn/ztgg/jjdytpgjz/xwjj/202203/t20220313_238459.html

1.3 A New Ecological Farming Mode in Baoqing County

Source: Shuangyashan Municipal Government

15 Feb, 2022

In 2021, Baoqing County, Shuangyashan City, implemented a green planting and breeding circular pilot project, focusing on building a demonstration area of 66.67 square kilometers, which greatly improved the comprehensive utilization rate of livestock and poultry manure in the county.

The Pilot Project follows the technical route of "livestock and poultry manure + solid manure + liquid organic fertilizer", and strives to build a replicable ecological farming model with a strong tie between farmers, service organizations and planters.

<https://www.hlj.gov.cn/n200/2022/0215/c595-11029465.html>

1.4 Accelerate the Construction of A Pioneering Area for Green Agricultural Development, in Yunnan

Source: Yunnan.cn

Feb 25, 2022

Wang Pinghua, a member of the party group and deputy director of the Yunnan Provincial Department of Agriculture and Rural Affairs, was a guest on "Golden Hotline". In the program, Wang Pinghua gave a detailed introduction on how Yunnan Province can further strengthen the agricultural industry chain and accelerate the construction of a pioneering area for green agricultural development.

Wang Pinghua said that the province will fully implement the three-year action of high-quality development of modern agriculture with plateau characteristics, focusing on five aspects:

- First, to continuously improve the systems of industry, production and operation, and accelerate the transformation and enhancement of unique industries.
- Second, to continue to implement green organic development awards and subsidies, vigorously promote green organic production technology, carry out green organic pilot projects in the "Jiuhu Lakes" area, and create organic production demonstration areas.

- Third, to focus on the revitalization of the seed industry by introducing high-quality new varieties and cultivating local varieties; promote off-ground planting of high-efficiency commercial crops such as flowers and small berries; comprehensively improving the level of agricultural facilities.
- Fourth, to develop a group of leading enterprises in every sector by attracting big corporations and supporting local companies
- Fifth, to build an impressive green image of modern agriculture with Yunnan plateau characteristics and creating brands of local products produced by local companies.

<https://m.yunnan.cn/system/2022/02/25/031941630.shtml>

1.5 Promote the Green and Low-carbon Transformation of Agriculture - the Ministry of Agriculture and Rural Affairs issued the "Guiding Opinions on Promoting the Construction of Ecological Farms"

Source: cenews.com.cn

Feb 9, 2022

On February 9, 2022, the General Office of the Ministry of Agriculture and Rural Affairs released a notice on the issuance of the "Guiding Opinions on Promoting the Construction of Ecological Farms". According to the relevant requirements of the "14th Five-Year National Green Agricultural Development Plan", the Opinions proposed to accelerate the construction of ecological farms and promote the green and low-carbon transformation of agriculture.

By 2025, 1,000 national-level ecological farms should be built across the country, 10,000 local ecological farms should be established aided with scientific evaluation, tracking monitoring and guidance services, a number of ecological agriculture technical model should be promoted, and a set of policies supporting ecological agriculture should be developed.

Key tasks

- (1) to develop a group of enterprises in ecological agriculture.
- (2) to promote a number of ecological agricultural technology models.
- (3) to explore a set of policies supporting ecological agriculture.

(4) to build a set of systems monitoring ecological agriculture.

<https://www.cenews.com.cn/news.html?aid=229443>

2. Green Building

2.1 The 14th Five-Year Plan for Buildings of Energy Efficiency and Green Building Development Was Released

Source: Ministry of Housing and Urban-Rural Development website

Mar 17, 2022

The "14th Five-Year Plan for Buildings of Energy Conservation and Green Building Development" proposes that by 2025, the area of energy-saving renovation of existing buildings will exceed 350 million square meters, and the construction of ultra-low energy and near-zero energy buildings will exceed 50 million square meters. The proportion of prefab buildings will account for 30% of the newly built constructions in that year, the installed capacity of solar photovoltaics in new buildings will be more than 50 million kilowatts nationwide, the application area of geothermal energy buildings will be more than 100 million square meters, the replacement rate of renewable energy in urban buildings will reach 8%, and the proportion of electricity consumption will exceed 55% of all the construction energy consumption .

By 2025, the construction of demonstration projects of ultra-low energy consumption and near zero energy consumption will exceed 50 million square meters.

Efforts should be made to complete the energy-saving renovation of existing residential buildings covering an area of more than 100 million square meters by 2025. At the same time, more than 250 million square meters of energy-saving renovation of existing public buildings should be completed.

In the implementation of building electrification projects, it is necessary to carry out alternative actions for building energy and electricity. By 2025, the proportion of electricity consumption will exceed 55% in the total amount of building energy consumption. At the same time, the construction of new power system should be promoted. During the "14th Five-Year Plan" period, we will actively carry out pilot projects for the construction of new power systems, and gradually improve relevant policies, technologies, standards and industrial ecology.

http://www.gov.cn/xinwen/2022-03/17/content_5679461.htm

3. Prefabricated Buildings

3.1 Prefabricated Buildings Will Account for More Than 30% of New Buildings in 2025.

Source: People's Daily

Feb 9, 2022

The Ministry of Housing and Urban-Rural Development recently issued the "14th Five-Year Plan for the Development of the Construction Industry" (hereinafter referred to as the "Plan"), proposing that by 2025, prefabricated buildings will account for more than 30% of new buildings; waste emissions will be controlled below 300 tons per 10,000 square meters, a market mechanism for the treatment and reuse of construction waste will be initially formed, and a number of green construction demonstration projects will be built.

In order to further promote the transformation and development of the construction industry, the Plan proposes to accelerate the coordinated development of intelligent construction and new building industrialization, improve the construction market mechanism, enhance the project organization model, cultivate the construction industry workforce, improve the project quality and safety assurance system, and steadily improve the capabilities of earthquake resistance and disaster prevention.

It is mentioned that the application of prefabricated buildings and high-quality steel residential buildings should be vigorously promoted by encouraging schools, hospitals and other public buildings to give priority to using steel structures. A batch of prefabricated building production bases should be developed. The cooperation between construction companies, internet enterprises, and scientific research institutes should be stimulated, and the application of new information technologies (such as the Internet of Things, big data, cloud computing, artificial intelligence, etc.) in construction industry should be strengthened.

http://www.gov.cn/xinwen/2022-02/09/content_5672644.htm

3.2 The Rate of Prefabricated Buildings Will Reach 50% in Xuzhou in 2025

Mar 2, 2022

Recently, the Xuzhou Municipal Bureau of Housing and Urban-Rural Development issued the "14th Five-Year Plan for the Construction of a "Waste-Free City" in Xuzhou City. By 2025, the figure of green buildings will account for 100% of the total amount of new buildings, and the proportion of prefabricated buildings will account for 50% of the total amount of new buildings.

Vigorous efforts should be made to develop prefabricated buildings, strengthen the leading role of government construction projects in the construction of high-standard prefabricated buildings, and focus on affordable housing, policy investment or public construction projects invested by the government, and orderly increase the proportion of prefabricated buildings. The amount of waste on construction sites should be reduced by implementing complete decoration measures.

http://jsnews.jschina.com.cn/xz/a/202203/t20220302_2955115.shtml

3.3 This Year's New Construction Area Will Account for 30%

Source: Jiangxi Daily

Mar 2, 2022

There are important development opportunities for the prefabricated building market in Jiangxi province. The provincial government work report clearly stated that the newly area of prefabricated buildings in the province this year should reach 30% of the total construction area.

According to reports, in the past five years, prefabricated buildings have been built in an area of 96 million square meters in Jiangxi province.

Fuzhou and Ganzhou have won the title of model cities of the national prefabricated buildings. 90% counties (cities and districts) have adopted Opinions on Implementing Prefabricated Buildings and have made relevant development plans.

At present, there are 62 prefabricated construction bases in the province, including 28 prefabricated concrete structure bases, 33 steel structure enterprises and 1 wood structure enterprise.

The actual production capacity of prefabricated concrete structure enterprises in the province is 2.83 million cubic meters, and the figure is 1.3 million tons in steel structure enterprises.

In addition, our province has successively identified 6 pilot cities for prefabricated buildings and 6 pilot cities for the construction of steel structure prefabricated houses, and the provincial finance system has arranged 24 million yuan to support the pilot cities to carry out their work.

<https://jiangxi.jxnews.com.cn/system/2022/03/02/019551382.shtml>

4. Vertical Farming

4.1 Tencent Leads Funding for Dutch Agritech Company Future Crops

Mar 16, 2022

On March 14, Netherlands-based agritech company Future Crops raised an undisclosed amount in a funding round led by Tencent. It is reported that this is the first time Tencent has disclosed an investment in a vertical farming startup.

<http://vcearth.com/p/YjQ5MDU0NjhiYmU3MjE2YzRmOGFIMmQxMjY4MzIyMDY=>

4.2 Greenhouses "Planting" A Happy "Prospect"

Mar 21, 2022

The planting base of Yishui County presents a lively and busy scene. The high-quality cucumbers planted in the 6 greenhouses in the base are luxuriant and fruitful



"The cucumbers planted this year are growing very well. No chemical fertilizer is applied, but the yield is not affected at all. The quality of the vegetables is good, so the income is also high," said a villager working in the base.



In recent years, in order to accelerate the pace of rural revitalization, Yuandongtou Town, Yishui County vigorously promoted the adjustment of agricultural industry structure, hired experts to be responsible for technical guidance, built 38 vegetable greenhouses, and developed high-standard greenhouse vegetable planting projects. By exploring and implementing the management model of the cooperatives led by the party, promoting the large-scale and intensive operation of the agricultural development, it has effectively driven the local people to increase their incomes and become rich, and has embarked on a sustainable development path for vegetable greenhouses to facilitate rural revitalization.

http://124.133.228.83/articleContent/42_995998.html

4.3 Greenhouse Vegetables Become A "Treasure Pot" to Increase Income

Source: Anhui Daily

Feb 21, 2022

There are lush green pumpkin seedlings in the vegetable greenhouse base of Huangtun Village, Guandimiao Town, Dangshan County. The grower Wang Cunfu is carefully checking the growth of the pumpkin seedlings.

Wang Cunfu has more than 10 years of experience in vegetable planting. Under his careful management, the pumpkin seedlings are growing luxuriantly. "I have planted nearly 2,000 pumpkin seedlings in this shed. By the beginning of April, fresh pumpkins can be gradually picked and put on the market. The benefits are considerable. One mu (about 666.67 square meters) of land can make a profit of 30,000-40,000 yuan this season. Yuan." Wang Cunfu said happily.

Seeing that Wang Cunfu's vegetable greenhouses are highly profitable, the other villagers have also been motivated. At present, a large number of vegetable greenhouses are "blooming everywhere" in Huangtun Village, increasing the income of the villagers.

Huangtun Village has vigorously developed the greenhouse vegetable planting industry, blazing a trail for industrial development, which has become an important way to strengthen the village's collective economy and lead the villagers to increase their income and become rich.

<https://www.dangshan.gov.cn/ztzl/tpgj/156210171.html>

4.4 Going to the Grassroots Level in the Spring Festival - A Good Life in A Greenhouse

Jan 21, 2022

In 2021, Harbin Dongfeng Village and Shandong Shouguang has cooperated in building greenhouses and brought good prospects of a better life.



At this time, several villagers are pruning trees, cutting off yellow leaves and fruits of poor quality. "There are still a few bags left in the shed. We will carry them out in a while, and we have to do other work in the afternoon..." While trimming and discussing, the 57-year-old Ma Yuxiu skillfully discussed the day's work with her sisters.



<https://www.hrbtv.net/folder137/2022-01-24/620746.html>

5. Smart City

5.1 The Prospects of China's Smart City Market in 2022

Source: ASKCI.com

Dec 28, 2021

(1) Smart city market size

The market size of smart cities is expanding day by day with the steady economic growth and the improvement of technological level in China. According to the data of the China Smart City Working Committee, the size of the country's smart city market has reached 14.9 trillion yuan in 2020. It is predicted that by 2022, the figure will reach 25 trillion yuan.

(2) Scale of Smart City Market Expenditure

Data show that by 2020, China's smart city market spending reached US\$25.9 billion, a year-on-year increase of 12.7%, higher than the global average, and the second largest country in spending of this kind after the United States. The three hot investment projects in China's smart city market are sustainable infrastructure, data-driven governance and digital management.

(3) Big data market size

The construction of a smart city needs to be built on the basis of the big data industry. The main reason is that big data can fully tap and utilize the value of information data, revitalize existing data, carry out application and evaluation, and serve the management and decision-making of urban transportation departments. With the in-depth development of the mobile Internet, Internet of Things, and cloud computing industries, and the accelerated implementation of the national strategy for big data, the volume of big data has shown an explosive growth trend. In the future, the application of big data technology will be further deepened. It is estimated that the market size of big data will reach 1,762.8 billion yuan in 2022.

(4) The size of the e-government market

In recent years, the scale of China's e-government market has been growing. In 2020, the scale was 368.2 billion yuan. With the continuous advancement of smart city construction, it is expected to exceed 400 billion yuan in 2022.

(5) Key Enterprises in the Smart City Industry

Hikvision

Statistics show that from January to September 2021, Hikvision's total revenue was 55.629 billion yuan, and its net profit reached 11.497 billion yuan.

Huawei

Founded in 1987, Huawei is the world's leading provider of ICT infrastructure and smart terminals, dedicated to building a smart world where everything is connected. At present, Huawei's business covers more than 170 countries and regions, serving more than 3 billion people around the world.

Regarding how to build a smart city, Huawei proposed the "Maslow Model for Building a Smart City", which covers infrastructure, security, industry digitization, and smart brains.

Alibaba

Data shows that from January to September 2021, Alibaba's operating income reached 4,064.3 billion yuan, and its net profit 497.84 billion yuan.

Ping An

Statistics show that from January to September 2021, Ping An's operating income reached 904.629 billion yuan, and its net profit 97.548 billion yuan.

Neusoft Group

Data show that from January to September 2021, the total revenue of China Neusoft Group reached 5.321 billion yuan, and the net profit 2.1693 million yuan.

<http://www.e-gov.org.cn/article-179545.html>

6. India



6.1 Affordable Housing in India.

The India Ministry of housing (MoHUA), under the Technology Sub-Mission component of Pradhan Mantri Awas Yojana-Urban (PMAY-U), has initiated Global Housing Technology Challenge-India (GHTC-India) as a platform to identify and mainstream best globally available proven innovative construction technologies to develop an eco-system to deliver on technological challenges of the housing construction in a holistic manner and enable a paradigm shift in the construction sector.

Nordicflexhouse has by the India Ministry of Housing and Urban Affairs been selected as a Proven Technology Provider for affordable green apartment projects in India, under the GHTC-India (Global Housing Technology Challenge).

Subsequently, six Light House Projects (LHPs) at six places in the country, namely, Chennai, Indore, Lucknow Rajkot, Agartala and Ranchi, are being constructed using six distinct innovative technologies identified under GHTC-India to demonstrate and deliver ready to live houses at an expedited pace, as compared to conventional construction system.

These LHPs demonstrate the merits of the innovative technology and serve as Live Laboratories for mass awareness, research, testing, technology transfer and for mainstreaming in the country. In this regard, an online enrolment module of TECHNOGRAHIS has been launched. Upon enrolment, Technograhis will be exposed to the innovative construction technologies through onsite activities as well as through offsite workshops/webinars, webcasting. Interested stakeholders can enrol themselves as Technograhis through a simple online process at: <https://ghtc-india.gov.in/userhome/index>.

See more information in this e-Newsletter: LHP_ewsletter_March2022.cdr (indonordicbusiness.in)

7. A WORLD CLASS EVENT - BE A PART OF THE SOLUTION

7.1 Waste, Resources & Circular Economy - across industries and value chains

27 - 28 April 2022 · Copenhagen



Agenda:

(1) A CIRCULAR WASTE MANAGEMENT SECTOR

What is the status of green and circular waste management following updated public policy? A sectoral reorganization is underway – what does this entail for investments, plans and partnerships? How are things

going with increasing and improving recycling?

How do we achieve this goal by making circular economy into the next green commercial boom?

(2) WASTE AND RESOURCES IN CONSTRUCTION

We take an in-depth look at reusing materials.

How do we incorporate waste material from production into manufacturing new construction materials?

Sector partnership for sorting plastics in construction.

(3) CIRCULAR PLASTIC PACKAGING

We review concrete examples of how plastic packaging can be made more sustainable and circular – from design to recycling phase.

Nordicflexhouse, which has won a GUDP project together with Alchemist Restaurant, Bugging Denmark, Copenhagen University and Water ApS (OxyGuard), will also have exhibition at the event.

Nordicflexhouse's Project title is Valorization of bio waste into circular production of bio-products and sustainable food system (BIOCIRCULAR)

The objective of BIOCIRCULAR is to valorize the food waste from co-ops/eco villages, restaurants, households and supermarkets into nutrients for the production of microgreens/lettuce, feed for insects and fish (tilapia) in containerized BIOCIRCULAR FARMS.

The project objectives are:

- Design and installation of BIOCIRCULAR FARMS (vegetable container, fish container, insect container) at Alchemist restaurant in Copenhagen
- Demonstrate an operational BIOCIRCULAR FARM for food waste valorization
- Develop innovative business models for restaurants, eco-villages and supermarkets.

<https://www.loopforum.dk/?lang=en>

<https://www.nordicflexhouse.dk/nordicflexhouse-has-won-a-gudp-project-together-with-alchemist-restaurant-bugging-denmark-copenhagen-university-and-water-aps-oxyguard/>