

Jilin sets development goals

Targets set for quality of life, project construction

By LIU MINGTAI
liumingtai@chinadaily.com.cn

The municipal government of Jilin city, Northeast China's Jilin province, has set clear targets for 2015 as it endeavors to restructure its economy and promote social development.

The targets include goals for project construction, raising capital, attracting talent, urban construction and management as well as improvements to public quality of life.

At the beginning of the 12th Five-Year Plan (2011-2015), the city achieved a GDP of 227.8 billion yuan (\$36 billion), an increase of 26.5 percent over the year previous.

The city achieved full tax

and fee revenue of 24.5 billion yuan in 2011, an increase of 27.5 percent over the year previous.

Large-scale industrial enterprises generated a total profit of 280 billion yuan, increasing 38 percent year on year.

According to statistics, the per capita disposable income of urban residents rose by 14 percent to reach nearly 19,300 yuan last year, and the per capita net income for people in the countryside grew to more than 7,649 yuan, an increase of 16 percent.

To realize the development goals, the government has set up 10 functional zones in the city, and it is continuously speeding up the development of its traditional pillar indus-

tries while giving financial and technological support to profitable new industries.

The 10 functional zones are — the Jilin Auto Industry Park in the Jilin High-tech Industrial Development Zone, the Jilin Economic and Technical Development Zone, the Jilin Chemical Engineering Circular Economy Demonstration Park, the Jinzhu Industrial Zone, the High-Tech Zone of Northern Jilin, the Hadawan Modern Service Industry Zone, the New Zone in Southern Jilin, the Songhuahu Scenic Spot, the Beidahu Sports and Tourism Zone as well as the Jilin China-Singapore Food Zone.

As the core of Jilin's industrial development, the total area of the 10 industrial zones exceeds 600 square kilometers, according to the government's plan.

By 2015, the zones together

are expected to generate 80 percent of the city's economic aggregate, with a population of 50,000.

As a city in China's old industrial base, Jilin must continue developing its traditional pillar industries, especially the petrochemical industry, as it works to restructure its economy.

Steady development and a solid industrial foundation as well as its edge in the use of new technology has helped the city's petrochemical industry rejuvenate its traditional sectors and expand into emerging ones.

In order to develop the local economy and upgrade its industries, the Jilin municipal government has provided active support to enterprises to develop petrochemical programs, leading to a renewed surge in investment.

PetroChina subsidiary Jilin

Petrochemical Company, the city's leading company in the industry, has seen robust growth in recent years and mobilized other local companies to grow. At present, the company's biomass fuel ethanol production capacity ranks the first in the world, and its acrylonitrile capacity is No 1 in Asia.

Additionally, a batch of new industries, such as carbon fibers, advanced equipment manufacturing and electronics, have also been undergoing rapid development in recent years, injecting new vitality into the city's economic growth.

The development of new industries also helps to attract and cultivate industrial experts and technicians for the city. This talent will continue to provide technological support to the nation's carbon fiber industry.



PHOTOS BY LIU XIAO / CHINA DAILY

Scale model of the park's blueprint on display at an exhibition hall of the Jilin Chemical Engineering Circular Economy Park.

Recycling park breathes new life into old industry

By SHAO WEI
shaowei@chinadaily.com.cn

"Clean" might be the last word that would come to the average person's mind when thinking about a large-scale petrochemical base.

But the management of the Jilin Chemical Engineering Circular Economy Park says they hope to change that.

Visitors to the park, located in Northeast China's Jilin province, might have a hard time believing it is a petrochemical plant complex. Recycled products, such as plastic bags made of coke tins, tissues transformed from varied petrochemical materials and toothpicks made of amyllum, are quite common in the park.

As one of the pillar industries in Jilin province, the petrochemical industry has a long history.

In recent years, Jilin has used its innovative capabilities in petrochemicals to convert existing scientific and technological achievements into productivity, and they have begun to promote circular economy.

"Control of quantity, reuse and recycling are the keys for Jilin petrochemical's advanced development," said Yang Yu, employee of the park.

The park now includes more than 90 percent of the province's essential production factories for petrochemicals. Its transformation and development mark a major turning point of the whole industry in Jilin province, according to Yang.

The park includes three "recycling circles". One is a clean production circle in every plant to maximize the use of resources. Another is a re-use circle among different plants to realize the efficient interchange of materials. The last is the information circle,

which offers timely information about recycling.

In essence, all the plants in the park form an integrated network where the wastes of factory A become the materials of factory B.

Through the smooth operation of the three circles, in Jilin Chemical Engineering Circular Economy Park, there are more than 100 products. Over 60 of them are produced on a large scale, and have certain quotas in domestic markets.

The provincial government approved the park in Jilin city in October 2008. Its goal was to exploit to the fullest the city's existing industrial advantage by forming a scaled petrochemical plant base, thereby promoting the economic development of Northeast China as a whole.

At present, 238 companies, including Jilin Petrochemical Company under PetrolChina, Jilin Fuel Ethanol Co Ltd and Jilin Chemical Fiber Group Co, have settled in the park.

Meanwhile, eight industrial chains have been formed, covering oil refining, refined chemical, bio-chemical fields, and offer 115 kinds of refining products.

These abundant and varied chemical products guarantee the sustained development of the whole industry in Jilin province.

Control of quantity, reuse and recycling are the keys for Jilin petrochemical's advanced development."

YANG YU
EMPLOYEE OF THE JILIN CHEMICAL ENGINEERING CIRCULAR ECONOMY PARK

Carbon fiber: New materials, new frontiers

By LIU MINGTAI
liumingtai@chinadaily.com.cn

By the end of the year, the State Carbon Fiber High-Tech Industrialization Base is expected to develop into China's biggest base for carbon fiber production thanks to its capacity for innovation, said Song Jiasheng, deputy director of the Jilin Science and Technology Bureau.

The goal of the base, which had its second anniversary this January, is to break China's dependence on imports to meet its ever-growing hunger for carbon fiber materials.

In 2010, the domestic consumption demand of carbon fiber exceeded 10,000 tons, accounting for 25 percent of the world's total.

The strength of carbon fiber is four times that of common steel, and they are only a quarter of the metal's weight.

Carbon fiber is a material with a high degree of stiffness, tensile strength and temperature tolerance as well as low weight and low thermal expansion, all of which make carbon fiber materials popular in the fields of aerospace, civil engineering, military and motor sports.

"We (Jilin city) spent over 30 years researching the production of carbon fiber," said Song. "We experienced the growth of the carbon fiber industry. Jilin can be said to be the cradle of carbon fiber in China," Song said.

In recent years, the municipal government has made great strides in researching high technology, new materials and new products, especially in the carbon fiber industry.

At present, a cluster of com-



Rows of bicycles made of carbon fiber in Jilin Jiyan High-tech Fiber Co Ltd. The bicycles on average weigh only 3.5 to 4.5 kilograms thanks to the application of the new materials.

panies specializing in carbon fiber products has initially taken shape in Jilin city, making it one of the most important carbon fiber producers in China.

Meanwhile, the industry has been listed in the city's 12th Five-Year Plan (2011-2015).

By 2015, the production capacity of carbon fiber precursor will have reached 30,000 tons; that of carbon fiber, 12,000 tons; and carbon fiber products, 50,000 tons, amounting to a total production value of 30 billion yuan.

"As a new materials industry, carbon fiber is one of the most important for Jilin's strategic development," said Zhang Xiaopei, Party secretary of Jilin city.



The workshop of the State Carbon Fiber High-Tech Industrialization Base.

Aid from enterprises helps to spur growth inside rural village

By SHAO WEI
shaowei@chinadaily.com.cn

Visitors to Dahuangdi in Jilin city, Northeast China's Jilin province will immediately gain a sense of the ancient village's vitality, which can be seen in its wide paved streets, elegant courtyards and bustling square.

The inspiring development of the village can be attributed to the cooperation between the village and local enterprises.

The village mainly focuses on quality rice, livestock breeding, farm products processing and agro-tourism.

In 2010, its economic aggregate reached 1 billion yuan (\$157.4 million), with per capita net income hitting 18,000 yuan, making it one of the most prosperous villages in China.

Dongfu Cereals Industry Co Ltd, since its establishment in 2000, has adopted a managerial

mode to better integrate farmers into its overall operations through standardized planting methods.

The company turned 1,300 hectares of paddy fields into an organic rice production center. It also provided lots of job opportunities for local villagers, letting them work in the company or outside.

"The village began to plant rice in 1964. However, only in recent years have we villagers received handsome profits," said Guan Zuoxin, deputy Party secretary of Dahuangdi village.

"The company brings modern technology of production and management to us, such as water-saving irrigation, which greatly increased production," Guan said.

Jiang Qilu, a local farmer, now works as an agro-technician for the organic farmland of Dongfu Cereals

"As a private company, we co-construct with the village, which not only solves the labor shortage of the company but also gives strong financial support to the village. It's a win-win situation for both company and village."

LIU YANDONG, PARTY SECRETARY OF DAHUANGDI VILLAGE

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GUAN ZUOXIN, DEPUTY PARTY SECRETARY OF DAHUANGDI VILLAGE

Industry Company.

"Thanks to land transfer, I lease my 1.8 hectares of farmland to the company at a price of 13,000 yuan per hectare.

Together with the state's subsidy of about 2,500 yuan per hectare, I can get a total of 27,900 yuan from the farmland alone," Jiang said.



View of Dahuangdi village in Jilin city, Jilin province.

Moreover, the company also employs more than 900 local farmers, which increases their annual income and better their livelihood.

"As a private company, we co-construct with the village, which not only solves the labor shortage of the company but also gives strong finan-

cial support to the village. It's a win-win situation for both company and village," said Liu Yandong, Party secretary of the village.