



Industrial Biotechnologies China News



Biotechnologies

Overview

China's Industrial biotechnologies Industry developing rapidly

Industrial Biotechnology, referring to the application of biotechnology in industrial processes based on renewable resources, is expected to compete with or even replace the existing petroleum-based products or chemical processes

With rapid development of industrial biotechnology, more chemicals are to be produced from renewable feedstocks that come from agriculture production. Agrochemical industry, agriculture and industrial biotechnology (chemical, food, fuels, etc.) will form a connected supply chain, interacting with each other.

Industrial biotechnology will change current agriculture by altering planting structure and crop species, expanding planting area and broadening the concept of agricultural products. The above changes will drive farmers' new demand for agrochemicals from different angles.

For example, the development of biofuels drives the growth of GM crops, or glyphosate-tolerant GM crops to be exact, and then creates great market potential for glyphosate.

More great future opportunities for agrochemicals will probably be created continuously by industrial biotechnology.

As one of solutions to energy supply shortage and to

developing superior products, industrial biotechnology industry is attracting growing attention in China. China's huge population, over 1.3 billion, suggests a great demand and large market of various goods, including biotechnology products, like agricultural products, energies, pharmaceuticals, high-quality food, with China's growing affluence.

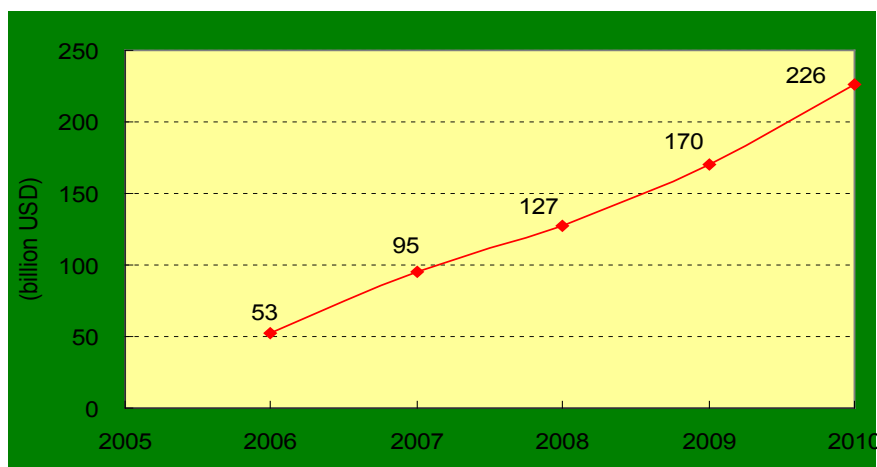
China's biotechnology development focuses on agriculture, pharmaceutical, energy, chemical and environment. Output value of China's biotechnology industry has developed rapidly with CAGR of 30% since 2000 (FIGURE), largely attributed to Chinese government's increasing attention to biotechnology and growing number of biotechnology companies.

Chinese government has

initiated several programs to fasten biotechnology industry development and further explore global market. As estimated, in 2020, China's total biotechnology industry output value will reach USD3,660 billion, accounting nearly 4% of China's GDP, and the biotechnology industry will be the pillar industry of China's economy then..

Although abundant biotic resources and increasing biotechnology talents make it possible for China to achieve its goal, lack of capital, advanced technologies and equipment has become bottlenecks, as most Chinese biotechnology companies are of small-scale and have weak innovation ability. How will China remove these obstacles and achieve the aggressive 4% goal? They will be traced in this newsletter.

FIGURE 1: China's biotechnology industry output value, 2006~2010



Source: CCM International

Main contents

We focus on four fields including bio-fuels, bio-materials, bio-products and bio-based chemicals, and each field will:

- Cover the latest industrial biotechnology market dynamics information including supply, demand, market price and feedstocks etc.
- Follow up biotechnology innovations and new bio-products in China, including technology advantages and bottlenecks, utilization situation, market demand, etc., to introduce new production technology, new plants and new bio-products.
- Track key players' dynamics in the latest month, including their performances, strategies, demand for equipment, technology and capital, etc.
- Identify changes of governmental policies on biotechnology industry. Exclusive analysis on policies and legislations' impacts on Chinese biotechnology industry; also, why and how new policies and legislations influence China's biotechnology industry.
- Analyze future market trend based on the above information.

Besides, Links to renewable energies, corn products and agricultural products, especially biotechnology's contribution to their market demand and national policy support, will be explored.

What will you have?

- Monthly PDF newsletter, 12 issues per annum.
- Professional solutions to query related to China's industrial biotechnology industry.
- Guaranteed breaking news.

What is scope?

- Bio-fuels: fuel ethanol, bio-diesel, butanol, bio-hydrogen, etc.
- Bio-products: enzymes, yeasts, etc.
- Bio-based chemicals: chemicals based on bio-process, especially those competes with chemical process, such as 1,3-PDO, di-acids, vitamins, acrylic acid, succinic acid, etc.
- Bio-materials: PLA, PHA, PTT, etc.
- Biotechnology applications in textiles, detergent, leather, paper & pulp, food process, waste treatment, etc.

Who need it?

• Biotechnology companies

- Keeping abreast of knowledge and developments of the market, R&D and applications in China
- Figuring out potential opportunities for industrial biotechnology in China
- Benefiting from a thorough review of new applications for bio-based products and assess the potential for the further growth of your company

• Chemicals and plastic companies

- Learning how industrial biotechnologies and renewable raw materials will change the status quo of this industry and its future
- Keeping eyes on recent developments of industrial biotechnology in China

• End users of bio-based products

- Know what superior and novel industrial products can you get from China and then create more value to your customers and present commercial opportunities for you

• Research organizations and academies

- Keeping abreast of latest technical developments and scientific breakthroughs
- Identifying significant commercial opportunities to steer future research

Why to subscribe?

- Grasp new investment opportunities in China's biotechnology industry, where you should invest and when.
- Follow up Chinese biotechnology industry's hotspots to define how your business can get involved.
- Gain vital intelligence of China's biotechnology industry to get ahead of competition.
- Know governmental preferential policies and guideline to enlarge your profit.
- Keep track of your competitors' action, and gain insight into the latest market trend and market data in Chinese biotechnology industry.

For foreign players, to invest in China's biotechnology industry, they can profit from the rapidly expanding market, with China's low production cost and huge biotic resources. Their Chinese plants' competitive cost and resource will also facilitate their exploration of biotechnology industry in other countries. In addition, foreign companies can cooperate with Chinese partners to exploit China's bio-product market together.

Drivers for Industrial Biotechnology

- Better products for consumers
- More economical for industry and consumers
- More reliable, renewable and lower-cost feedstock
- More environmentally friendly products/processes; smaller environmental footprint
- Policies and environmental issues

How do we achieve our goals?

The following methodologies are employed by professional researchers in CCM.

• Telephone interview

CCM will contact associations, institutes, governments, enterprises and so on to gain first-hand and in-depth information.

CCM would provide them free advertisement or free intelligence, and they offer the latest market information, technology information and company strategies at the same time.

• Face-to-face interview

CCM carries out face-to-face interviews with institutes, associations, governmental institutes, technology suppliers and enterprises to report industry information with more accuracy and authenticity. Besides, industry experts are also interviewed from time to time for their in-depth analysis and opinions.

• Experts consultancy

CCM has established long-term business relationships with experts in biotechnology industry via payment or information exchange, and they would contribute stories or comments to CCM termly.

• Database searching

CCM has established its own database for biotechnology, which facilitates its analysis of the industry development and strategy and regulation. Meanwhile, the data-base keeps being updated all the time.

• Internet

Browse and read a mass of information on the internet, CCM present the key and timely industry information that focus on biotechnology hotspot and trend for CCM's readers.

• Attendance in events and exhibitions on biotechnology

CCM will attend the events and exhibitions on biotechnology to get the latest information on new exploitation, new utilization, R&D and new technology. Furthermore, CCM will keep in touch with the organizers and enterprises and create database of them for future communication.

• Develop and establish long-term information sources

Develop and establish long-term relationship with associations, institutes, governments and enterprises, which helps get latest and valuable information, opinions and analysis.

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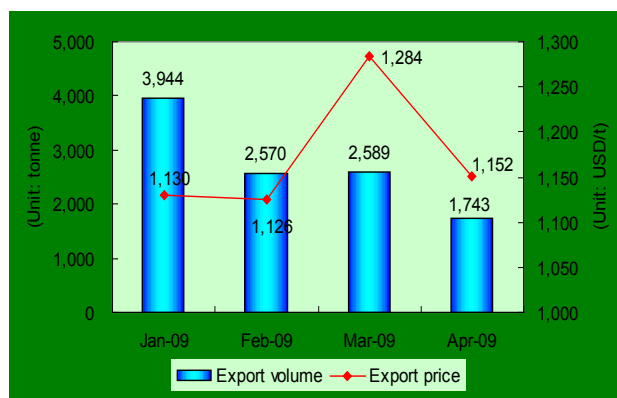
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Major CCM Newsletters

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- Dairy Products China News
- Crop Protection China News
- Herbicides China News
- Insecticides China News
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- Glyphosate China Monthly Report
- TiO₂ China Monthly Report

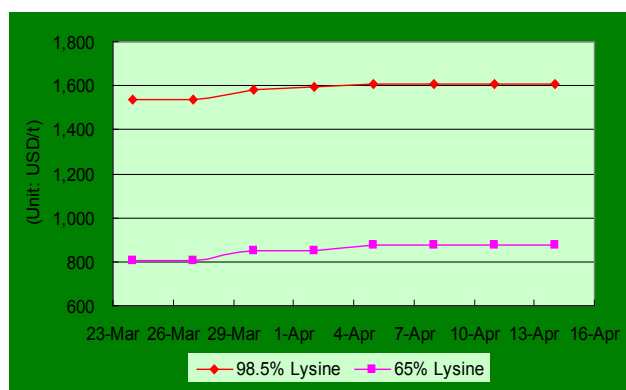
Sample Figures

FIGURE 2: China's MSG export, Jan. ~ Apr., 2009



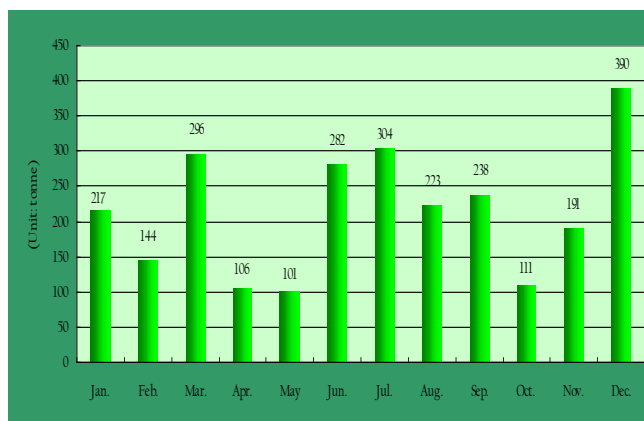
Source: China Customs

FIGURE 3: Domestic lysine price changes, Mar. ~ Apr. 2009



Source: CCM International

FIGURE 6: China's import volume of cellulose diacetate, 2009



Source: China Customs

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