

Future of White Biotechnology in China



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White biotechnology (WB) industry, which is often referred to the third wave in biotechnology, is one of the most promising new approaches to pollution prevention, resource conservation, and cost reduction around the world. Eying the huge economic benefit, environmental benefit and social benefit from WB industry, China has paid great attention to WB industry development. In the last two decades, WB industry in China has developed at a rapid clip.

The first version and the second version of this report had been finished in April 2008 and by February 2009 by CCM. The third edition, with content improved and more insightful views, also has been finished in May 2011. The report is the only one and the latest one available in the world to provide good understanding about the white biotechnology in China and to find out the business opportunities in this field.

4 reasons to carry out this research

- White biotechnology developing fast in China
- Short supply of energy and fossil materials
- Government supports WB industry
- Huge opportunities

Major achievements in White Technology in China in recent years

- Fuel ethanol produced from non-food renewable materials
- Super yeast with higher ethanol tolerance (15%~17% ethanol concentration), used in fuel ethanol production
- Pilot production of fuel ethanol using lignocellulosic materials
- Biomaterials, such as PHA and PLA, were introduced into the market.
- Some bio-based chemicals, such as di-acids, 1,3-PDO, acrylamide have been developed.
- Technology of some bio-based chemicals was greatly improved, especially that of vitamins.

What is covered in the latest report?

- Policies and regulations on renewable feedstock, WB products, environmental protection, subsidies, incentives, etc.
- Renewable feedstock planting and supply situation in China. Over 15 major renewable feedstock essential to white biotechnology including the categories of main-food materials, non-food materials, vegetable oils and cellulosic materials are summarized.
- Market info of key WB products. The market data, major players, technical suppliers, technologies or R&D situations are included. About 27 WB-related products are summarized falling into the categories of bio-fuels, bio-materials, bio-products and bio-based chemicals.
- Overview of white biotechnology. Latest market value estimation breakdown by category, cutting-edge technology developments, development environments analysis, SWOT analysis.
- Future prospects of white biotechnology, supply and demand forecasts on major products or categories, prospects on potential WB products, key drivers, bottlenecks, and opportunities.
- Driven forces and key factors for the development of white biotechnology.

- Opportunities in white biotechnology and recommendations.
- Profiles of the major players, researching institutes, top scientists.
- Supporting materials like water, energy, labor cost in different locations in China.

What are the benefits of the report?

- Gain a clear understanding of the industry landscape and the latest developments in R&D, production, technology advances and future trends in industrial biotechnology in China
- Know the development stages and international status of key WB products of China based on basic data and latest info
- Get reasonable and constructive suggestions on the market opportunities in WB fields in China
- Understand the overall situation of renewable materials supply situation in China based on comprehensive and integrated data
- Get a thorough analysis of the market place for industrial biotechnology in China, the current trend and future growth prospects
- Learn more about the latest advances in commercialization of WB products within China and how policies and incentives that can encourage growth
- Know more about how innovative players and research groups are driving innovation, collaboration and achieving commercial success in China

What's new in this edition?

The updated edition will be strengthened over the last edition mainly from the aspects of:

- Volume and value of market size, production, etc. will be presented.
- Analysis on the development bottleneck and investment opportunities of White Biotechnology in China will be more detailed.
- Analysis on bio-fuels and bio-materials will be more in-depth.
- Overviews of the cutting-edge technology development and development environments of China's White Biotechnology will be more detailed.
- SWOT analysis on analysis of China's white biotechnology will more detailed.

Besides, some other significant differences from the previous version are listed as follows:

- Driving forces and barriers are more etailed in new edition.
- Supply & demand are more higher accurate in new edition.
- SWOT analysis is more detailed.
- Bio-materials(Starch-based materials,PPC) is new added in new edition.
- Microalgae diesel is potential in new edition.

Who needs to subscribe this report?

Biotechnology companies

- Update your knowledge and notice on the latest developments of the market, R&D and applications in China
- Discover the potential opportunities for white biotechnology in China
- Benefit 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

- Learn how white biotechnologies and renewable raw materials will change the status quo of this industry and its future
- Keep informed of recent developments of white biotechnology in China

End users of bio-based products

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

Research organizations and academies

- Know the latest technical developments and the newest scientific breakthroughs
- Identify the most significant commercial opportunities to steer future research

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