

# Analysis Report of Straw Utilization

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## 1 International Situation

Having witnessed the boom of development of agriculture around the globe, we are marvel at the achievement modern agriculture has obtained. However, with such development, how to process wasted straws has become a huge problem.

Nowadays, international society mainly process straw by burning, crushing, etc. Here we conclude 5 popular methods to deal with straws as following.

- Eaten by livestock
- Buried in farmland
- Burned
- Make bio-fuel
- Microbe processing

In recent years, more and more countries are turning their focus on the method which has the highest utilization rate. Both China and western countries are trying to enhance their utilization rate during last 15 years(Figure 1).

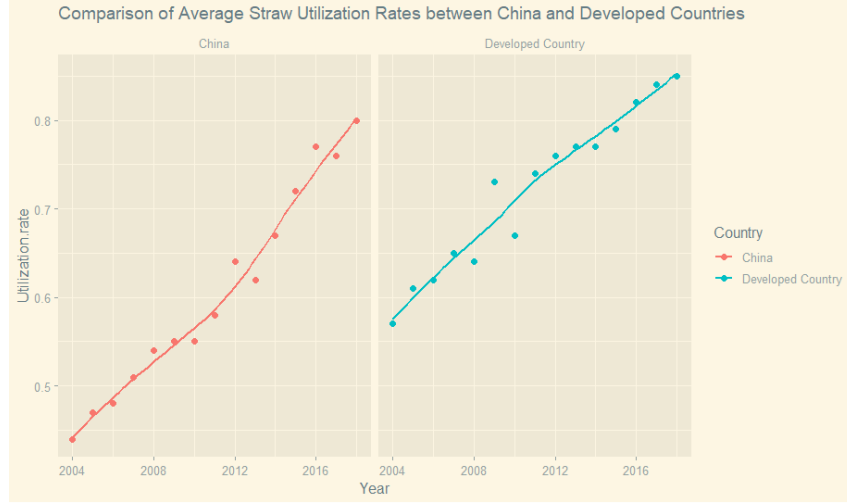


Figure 1: Comparison of Average Straw Utilization Rates between China and Developed Countries.

Microbe processing, therefore, as a green, pollution-free and high availability approach, become a researching hotspot without any debate. As a result, our team analyze the market of straws utilization with an eye to microbe processing primarily. Further analysis will be shown as follows.

## 2 Prediction of the development in China

From figure 1, we can find that the total utilization of straw is increasing steadily in China . Based in China, our team need to pay attention to this trend as well. In other words, the circumstance leads us to the high utilization method. What's more, we obtained data of the investment documents and a number of related policies of straw processing industries from China National Bureaus of Statistics<sup>1</sup>, and processed raw data by the following equations:

$$Investment\ ratio = \frac{Microbe\ processing\ straw\ related\ investment}{Total\ investment\ to\ straw\ processing} \quad (1)$$

$$Policy\ ratio = \frac{Microbe\ processing\ straw\ related\ policy}{Total\ policy\ to\ straw\ processing}$$

The result shows that both related investments and policies are inclining in the microbe processing straw industry (Figure 2)

<sup>1</sup>National Bureaus of Statistics: [www.stats.gov.cn/](http://www.stats.gov.cn/)

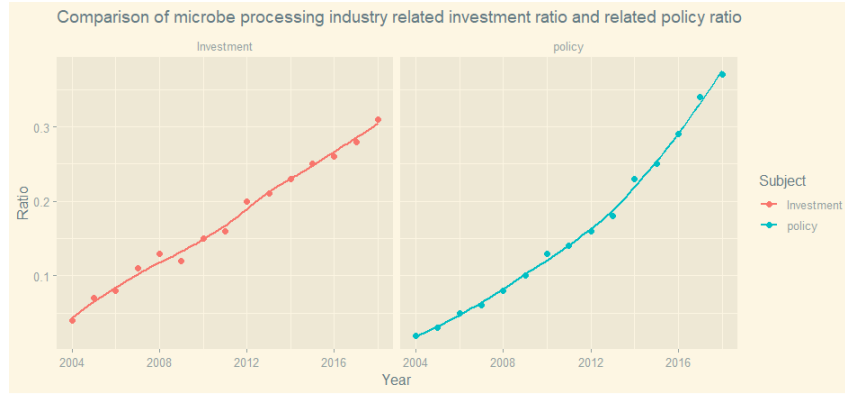


Figure 2: Related Investment and policy ratio.

Combined with the results above, we assume that the developing power of microbe-processing straw industries in China will grow strong and there is a tendency that such power is getting stronger. Further analysis shows a board market and a brilliant future in microbe-processing straw industries, which gives us enough confidence to take effort in our project.