

## **Structural Effect on Energy Intensity in China**

**Miao Lui**

In recent years, one of the most important things that happened in the world is the rising of China. After changing the national economy growth strategy, the speed of China's economy growth has risen. However, because the elastic coefficient of China's energy consumption is lower than most developed countries, there are some doubts about China's growth speed. Most questions were focused on the reality of China's GDP statistic data. However, since the elastic coefficient is not a completely proved scientific thing, but more like an experience coefficient, that's why I believe it is a little premature to fully link the elastic coefficient with a country's GDP growth speed. Because the consumption speed of energy resources are quite different in three industries, so naturally the change of the three industrial proportions will significantly affect the entire country's elastic coefficient. So in this essay, I like to first describe the concept of elastic coefficient, and then use the mathematic module to analyze the relations between the coefficient and the proportion of three industrials. The dates I chose to analyze are come from China's National Bureau of Statistics, and the reason I chose 1980-2005 as our analyze period is that it is the most significant changing time of China's industrial structure. During the 25 years China change from a first industrial (agriculture) depended country into a second industrial (industry) depended country and after that into a three industrials (agriculture, industry, service industry) equal structure country. After 2005 the changing speed of China's national industrial proportion became slower and the whole nation's industrial structure is more stable compare with the former years. Profession Guang (2000) has done the same research on 2000, the data she choose is from 1980 to 2000, today i find some new data which from CNBS, and it covers the number we need from 2000-2005, So I use those data in the formular and trying to find out is there any new changes after the former research. Also i believe the chosen period will be the best example to show how industrial structure change can affect the resource consumption speed of a country and why China could growth fast under a relatively lower elastic coefficient.