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## Prospect of the Vetiver (*Vetiveria zizanioides*) Industrialization in Southern China

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## **Prospect of the vetiver (*Vetiveria zizanioides*) industrialization in southern China**

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**Key words** : vetiver ,industrialization ,ecological construction ,ecological technology

**Introduction** This report describes the possibility and the important significance on industrialization of vetiver . It also reveals the possibility and potential development of the vetiver which has close relation to the third industries . Meanwhile , it points that the vetiver is a good species that has the characteristics of satisfying the natural requirements and human requirements , especially it is a bridge that can harmonize the relationship between the nature and human beings .

### **1 . Introduction of the vetiver**

The vetiver eco-engineering is a biological engineering method with the plant hedge as the primary means . Compared with the general biological engineering , it has unique characteristics which the deeply growing root system and the dense solid hedge will effectively prevent soil erosion and reduce pollution . The technique can be widely used in various fields of environmental protection which include soil and water conservation , dike reinforcing , wind preventing and sand reinforcing , remaining mine assarting , barren hills afforestation , pollution purification and garbage field restoration of vegetation etc .

### **2 . Two main factors affecting vetiver industrialization**

Technology : Vetiver ( a kind of plant ) , Integrated processing technology ( merchandise ) . Market : There are 25 million square meters of land lost in the world each year . Data provided by Ministry of Water Resource show that : there are 2 million square meters of soil and water loss to manage .

### **3 . Three activities promoting vetiver industrialization**

Enterprise : action to explore and open up markets ; Association : action to coordinate the system , technology and market ; Government : action to arrange the systems .

### **4 . Development of vetiver industrialization**

Reflection regarding eco-constructions , Complete commonweal operation can not guide the extensive public participation ; Limited investment completely relying on the government will restrict the scale and speed of the ecological construction . Reflection on the market Human's requirements can be met through market exchange , so what about the nature's requirements ? How to solve the problem of desertification and water and soil loss caused by human through the market efficiency ?

### **5 . Four understandings of eco-construction industrialization**

- Change of the ecological construction concept —— From commonweal to utility
- Change of the ecological construction mode —— From artificial to ecological
- Change of the ecological construction operation system —— From governmental operation to enterprise control
- Change of the ecological construction development guide —— From biochemical to sunshine

### **Conclusions**

Model : Vetiver —— Ecological technology —— An industry —— A career

The ecological construction industrialization will be the development trend .

Integrate the ecological technology based on the market to promote the ecological construction , meet both the human's requirements and the nature's requirements and finally achieve the harmony of the economic system and natural ecosystem .