

Pushing forward the sustainable development of Mn Industry

Director of Environment Supervising
Department, SEPA- Lu Xinyuan

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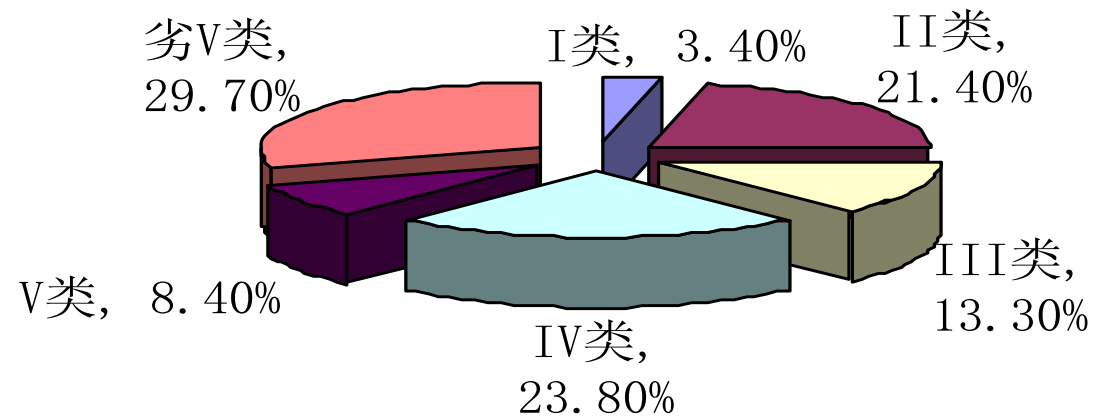
I. Severe situation of the environmental protection

1、 Environmental Situation remain serious

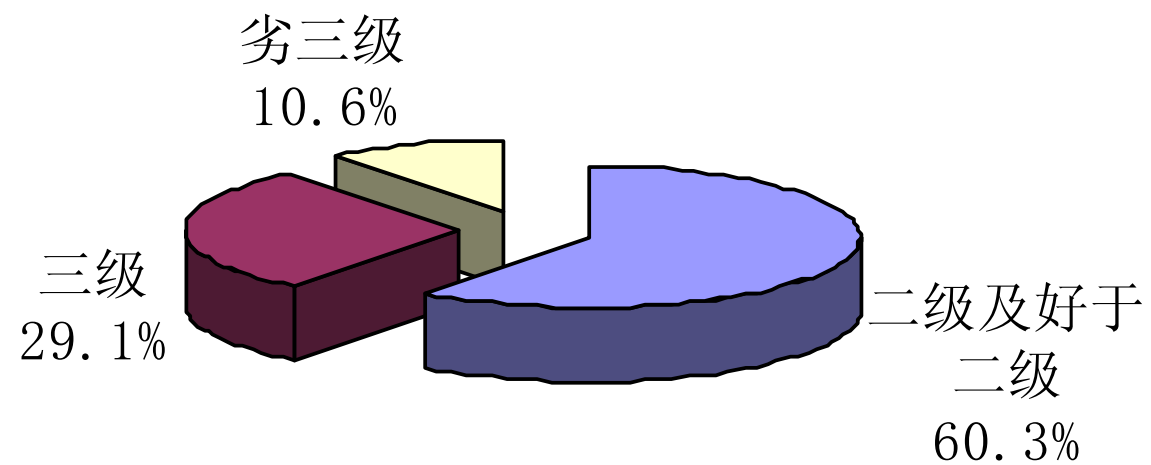
- All the environmental issues occurred throughout the industrialization period of developed country have emerged in China.
- The environmental issues feature structural, comprehensive .
- Rivers running across cities are widely polluted , one fifth of air in urban area are polluted, one third of land are affected by acid rain.

1、 Environmental Situation remain serious

- Main pollutants exceed the environmental carrying capacity.
- In year 2006, the SO₂ emission reached 25.94million mt (environmental carrying capacity: 12 million mt) , COD emission reached 14.31 million mt (environmental carrying capacity: 8 million mt) .
- In the first half of 2007, with the GDP growing 11.5%, the SO₂ emission reached 12.63 million mt,down0.88% yoy; COD emission reached 6.91 million mt, up 0.24% yoy.



Water quality
category of top 7
water system



Air quality of 522 cities

In 2004, China has a soil loss area of 3.56 million Km² ,
 accounting for 37% of total land area.

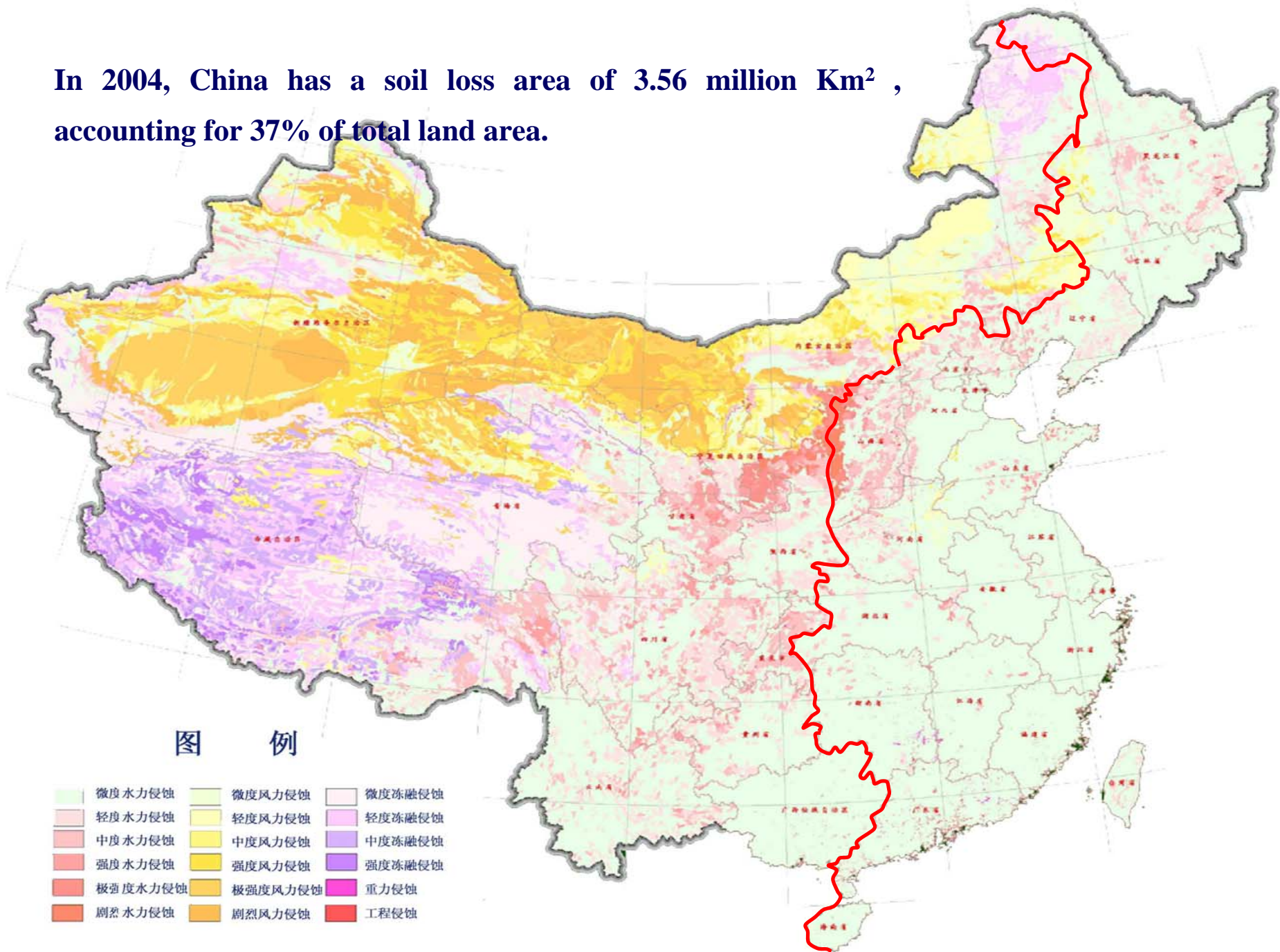


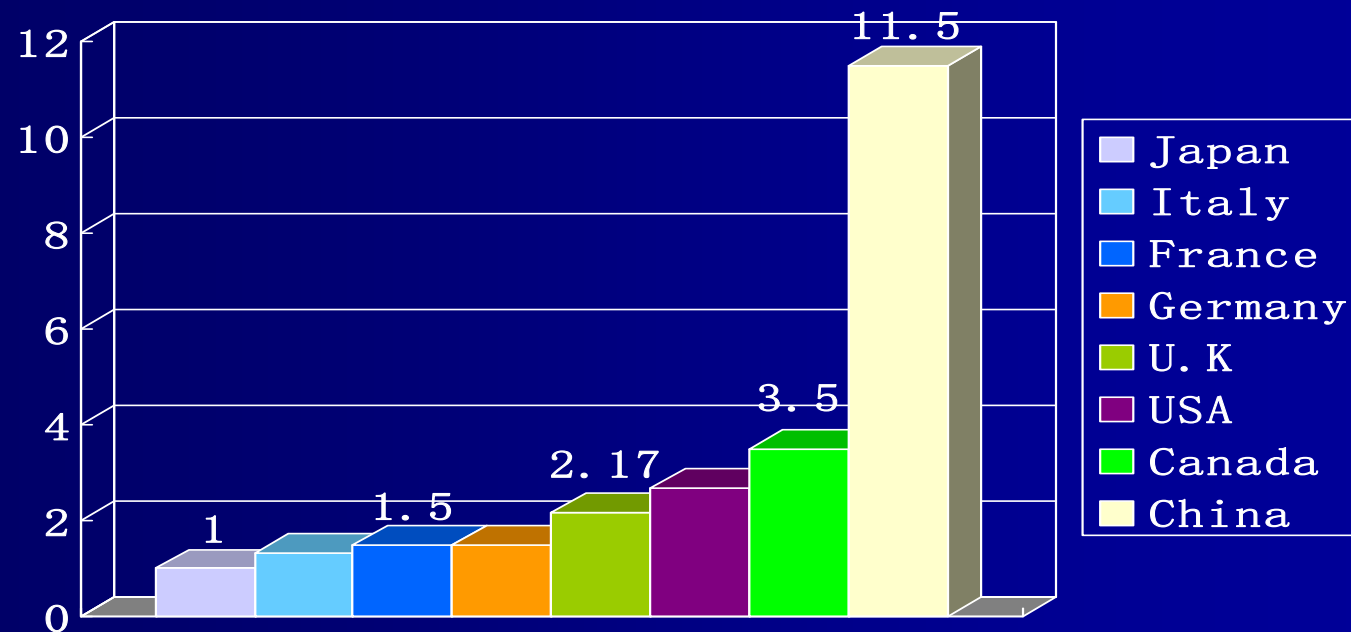
图 例

- | | | |
|---------|---------|--------|
| 微度水力侵蚀 | 微度风力侵蚀 | 微度冻融侵蚀 |
| 轻度水力侵蚀 | 轻度风力侵蚀 | 轻度冻融侵蚀 |
| 中度水力侵蚀 | 中度风力侵蚀 | 中度冻融侵蚀 |
| 强度水力侵蚀 | 强度风力侵蚀 | 强度冻融侵蚀 |
| 极强度水力侵蚀 | 极强度风力侵蚀 | 重力侵蚀 |
| 剧烈水力侵蚀 | 剧烈风力侵蚀 | 工程侵蚀 |

2、 To achieve pollution reduction remain challenging

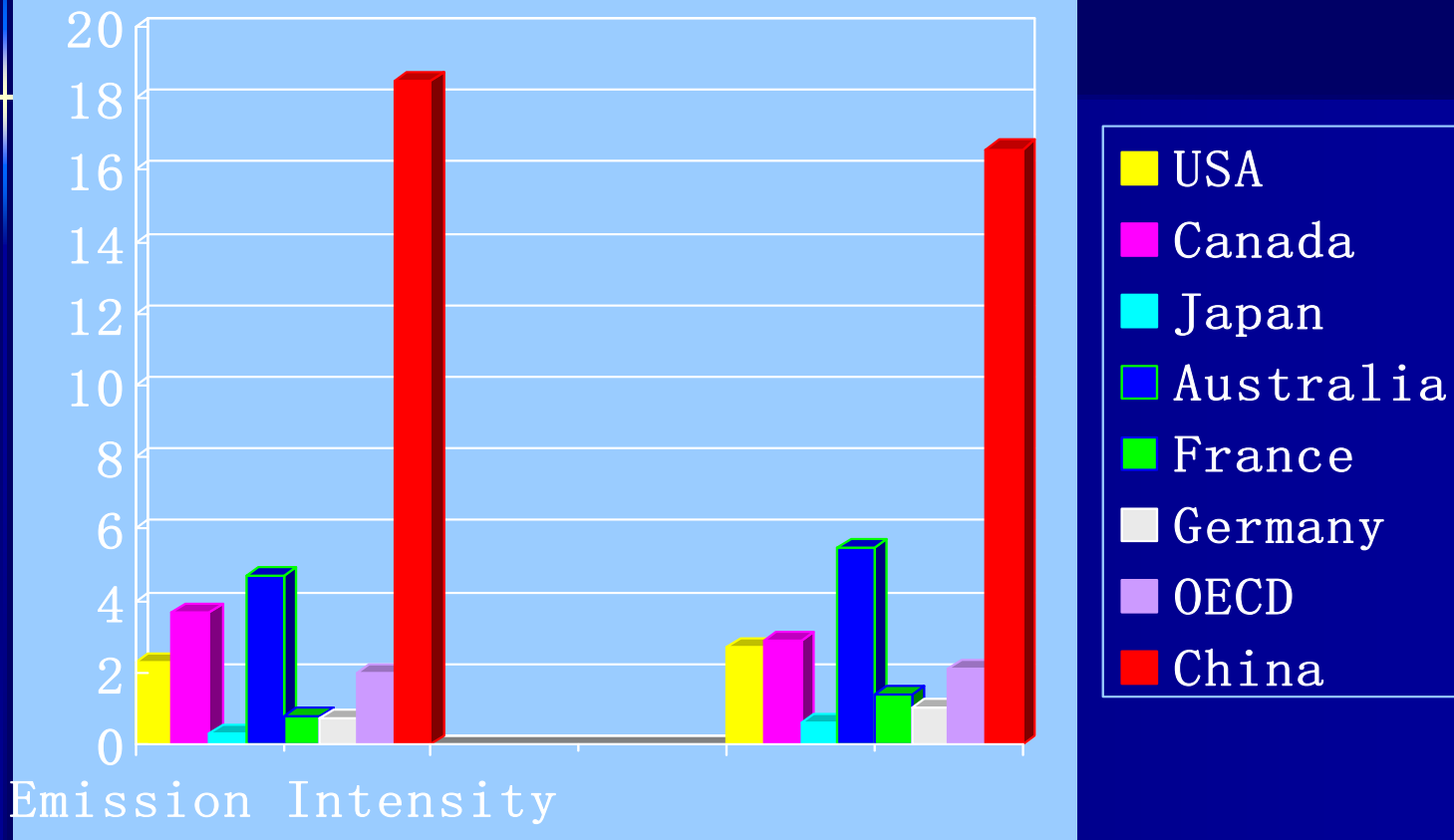
- Resource intensive industry increase dramatically.

High energy consumption, high pollutants discharge and severe environmental pollution



**Energy consumption level
(Japan as cardinal number 1.00)**

The intensity of SO2 & nitrogen oxides emission



**Intensity of SO2
emission(kg/thousan
d USD GDP)**

**nitrogen oxides
emission
(kg/thousand USD
GDP)**

2、 To achieve pollution reduction remain challenging

- The rights and interests of the masses are negatively affected.
- 65 environmental issues reported since beginning this year.
- blue-green algae outbreak in Lake Tai in April

2. To achieve pollution reduction remain challenging

- According to the masses' requirement, the desire of improving environmental quality is increasingly strong)
- 1814 letters and visits are received from Jan. to May this year.
- Environmental issue has become a hot topic of the international community .
- 90% netizen believe environmental protection is absolutely emergent.

The losses caused by pollution



According to the estimation of World Bank, the direct losses caused by air and water pollution reaches **USD54 billion** in 1995, accounting for 8% of the GDP that year.

3、 The losses of social environment responsibility by the enterprises

- Enterprise's social environment responsibility
- Enterprise's environmental legal liability
- Enterprise's environmental ethical responsibility

3、 The losses of social environment responsibility by the enterprises

- The lack of enterprise's environmental responsibility is an common issues
- ◆ **First, the rebound of small and medium-sized enterprises' pollution still remains incessant after repeated prohibition**

3、 The losses of social environment responsibility by the enterprises

◆Secondly, the environmental illegal activities of key enterprises are not optimistic

3、 The losses of social environment responsibility by the enterprises

- ◆ **Thirdly, the regional patches pollution is relatively serious**



II. Environmental clean-up of Mn processing industry

The rapid development of Mn industries in recent years has brought up environmental problems. For example, EMM industry has become a major industry in the Juncture of Hunan, Guizhou and Chongqing.

However the various pollutants have caused severe damage to the local eco-system.

EMM industry produces 6 million slug, 200 million mt of waste water and 800 thousand mt of waste gas.

A comprehensive clean-up campaign was carried out after the President Hu Jintao made a written comment on the water pollution issue in the "manganese triangle".

1、 The result of Clean-up

- **Firstly, it improves the regional environmental quality**
- **Secondly, it enhances the sustainable development capacity of electrolytic manganese industry**
- **Thirdly, it tentatively sets up the long-efficiency supervision system of the trans-regional pollution**

Qinshui River after clean-up (Bian City)



2、 Environmental clean-up subject to further enforcement

Firstly, The present renovating work is in a low level as a whole, and there still exist several pollution hidden troubles)

Secondly, the environmental management problems of enterprises are still relatively serious.

Thirdly, the overall industry renovation remains to strengthen .

III. Adopt comprehensive measures to achieve sustainable development of the manganese processing industry

1、 Continuously strengthen government's environmental law enforcement)

- Over 50 serious violation of environmental law were investigated and treated.
- “Manganese triangle” as a demonstration of clean-up campaign.

2、 Adjust industrial structure, control pollution from source, raise the quality of economic development

Environmental protection agency take the responsibility of approving new project and eliminating outdated production capacity.

- 3、 Implement the new demand from the country that the enterprises fulfils the social environment responsibility
- 4、 . Apply comprehensive means to promote enterprises to undertake social environment responsibility
5. Advance the system of enterprise's environment supervisor
- 6、 Set up the system of enterprise's annual environment report

Thanks!

010-66556431

lxy@12369.gov.cn