

Work on Air Pollution Prevention and Control in Shenzhen, China

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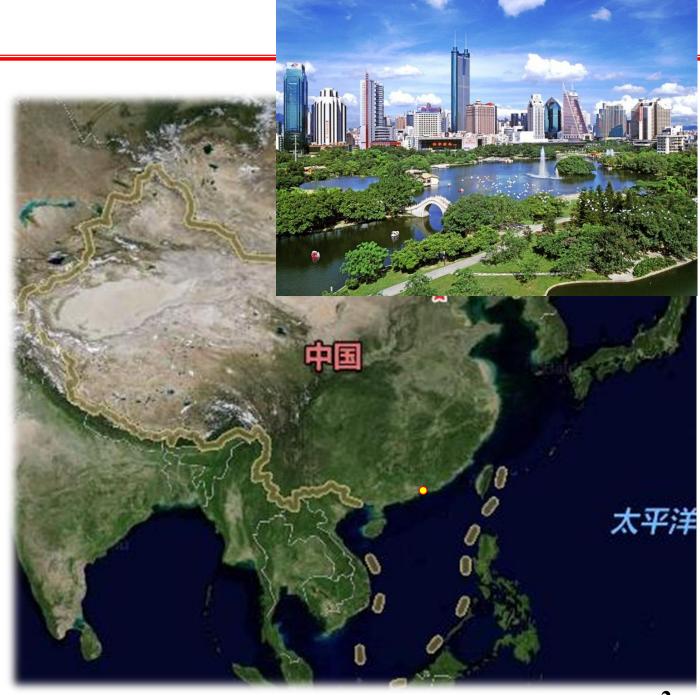


Shenzhen

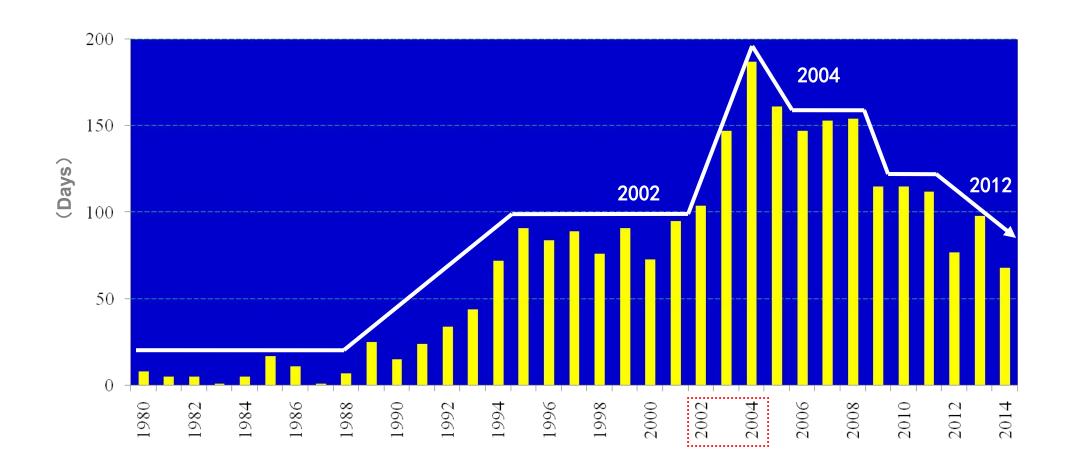
❖ Land area: ~2000 km²

- Population: ~10.6 million doubled in last 10 years
- ❖ GDP: ~1.6 trillion

 increased 5 times in last 10 years

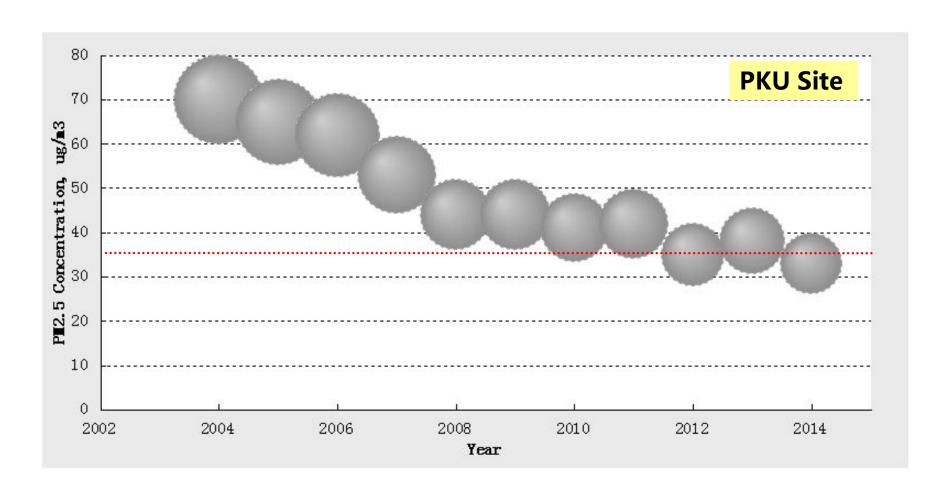


Haze days in Shenzhen history



With the rapid development of economy, haze days in Shenzhen started to decrease annually since 2004 after a obviously increasing period.

PM2.5 variation in last 10 years



Shenzhen air quality improved significantly throuth making great effort to control air pollution in the past 10 years, the concentration of PM2.5 decreased year by year.

Main measures





To optimize the structures of industry and energy



- Keep heavy pollution industries out;
- Eliminate backward production capacity;
- Encourage the development of environmental friendly industries;



- Control the amount of heavy oil;
- Prefered natural gas and electric energy;
- Encourage the development of clean energy, e.g. solar energy;

Proportion of the three industry:

2004, **0.4** : **61.6** : **38.0** (%)

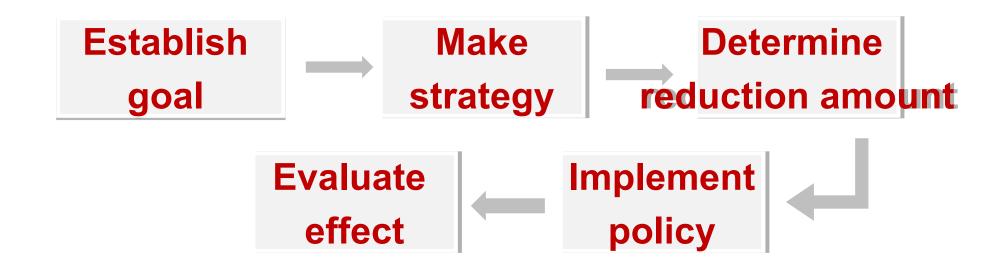
2013, **0.1** : **43.4** : **56.6** (%)

Proportion of natural gas use in primary energy:

2004, < 1%

2013, >8%

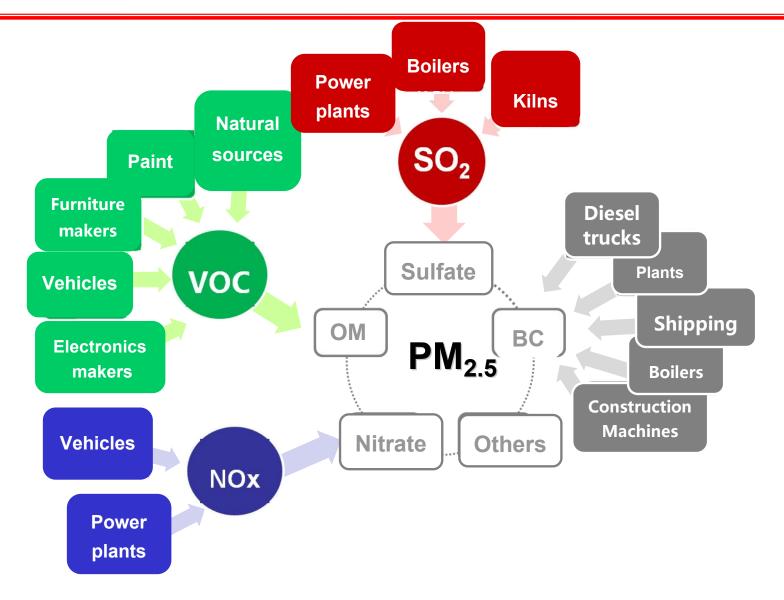
Scientific management mechanism



- **❖** Make sure that every step is scientific;
- Local government support to carry on the research projects a lot;
- Keep in close touch with research institutes and schools.



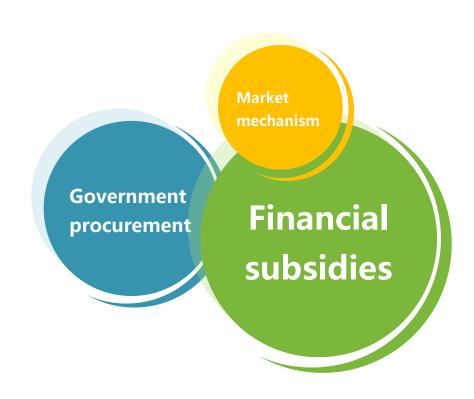
Pollution control on major sources





To control pollution emissions of major sources would effectly reduce the pollutants amounts.

Economic incentives



- A lot of subsidies for heavy pollution industries, e.g. power plant;
- ❖ Promote to substitute vehicles that fail to meet the European No.2 standard for exhaust emissions;
- Make strict standard in government procurement;
- Authenticate the environmental friendly products to lead green market.

Shenzhen government use various economic means to promote the pollution control effectively.

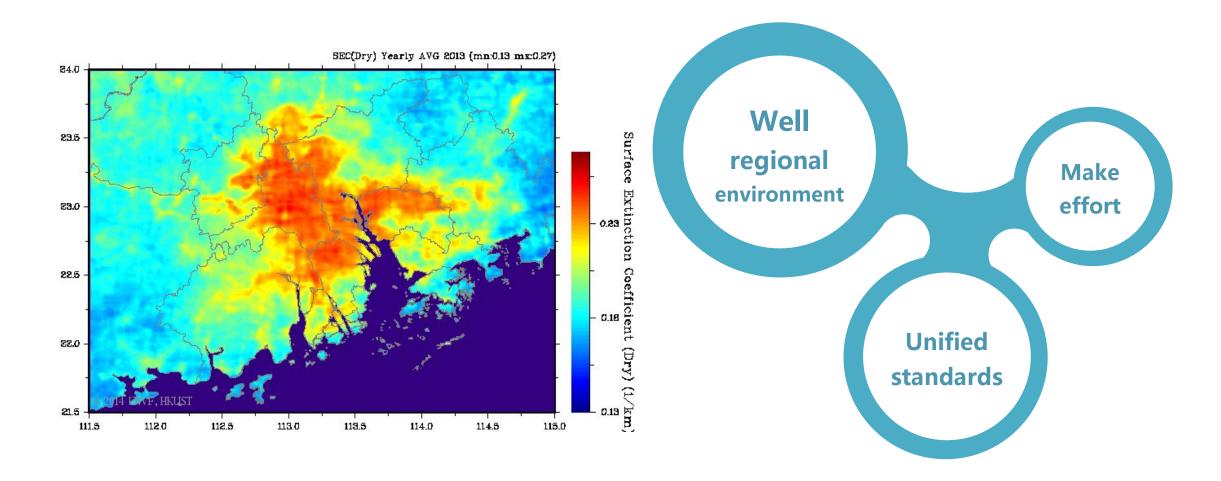
Performance reviews





Strict performance reviews effectively improves the work efficiency of the responsible departments, ensure that pollution control plan can be complished in given time.

Regional co-operation



Well regional air quality effectively ensure and magnify the effort of every local government on the pollution prevention and control.

Thank you for your attention!



