

Integrated assessment of energy related SO₂ emission control in China's 12th five year plan

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Abstrak

China has reduced the SO₂ emissions by 143% in the Five-Year Plan (2006-2010). However, air pollution is still a severe problem in some industrial regions in China, due to excessive use of coal and other fossil fuels. China plans to reduce SO₂ emissions by 8% in the new 12 Five-Year Plan (2011-2015), along with other CO₂ reduction targets and pollutants reduction targets. This study makes a comprehensive assessment of energy related SO₂ emissions control in China's 12th Five-Year Plan, by using a large scale non-linear integrated assessment model. According to the results, the popularization of wet type SO₂ scrubbers and improvement of the environmental emission standards play an important role in the achievement of SO₂ control target by 2015. In addition, the changes in energy consumption structure contribute to SO₂; and other energy related emission controls, as well as the sustainable development of energy. In China, future environmental policy should concentrate on the provinces which emit SO₂ seriously, like Shandong, Inner Mongolia and Henan, or relevant industrial sectors such as electric & heat power, ferrous metals and nonmetal mineral sectors.