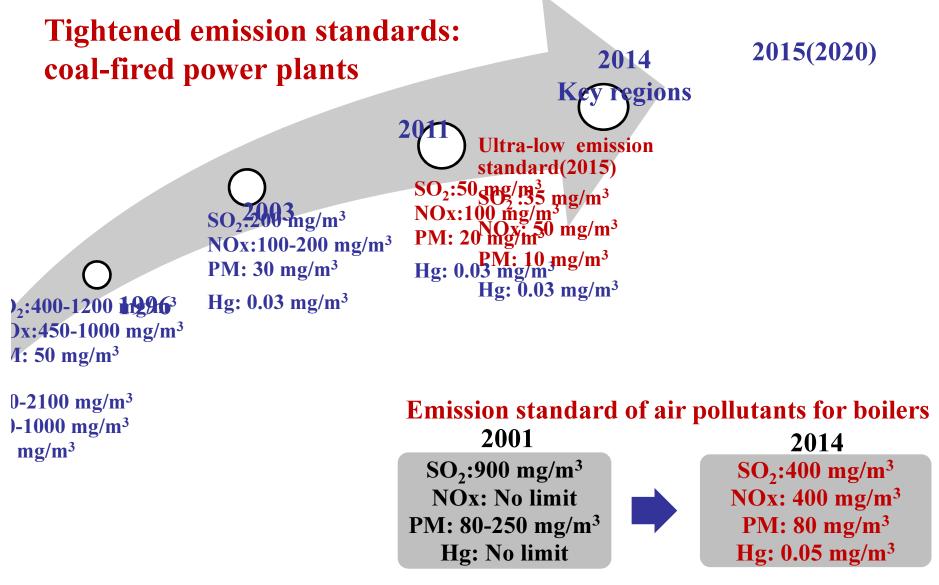
Current Work on Integrated Assessment Modeling in China and Future Collaborations

Shuxiao Wang School of Environment, Tsinghua University December 8, 2016

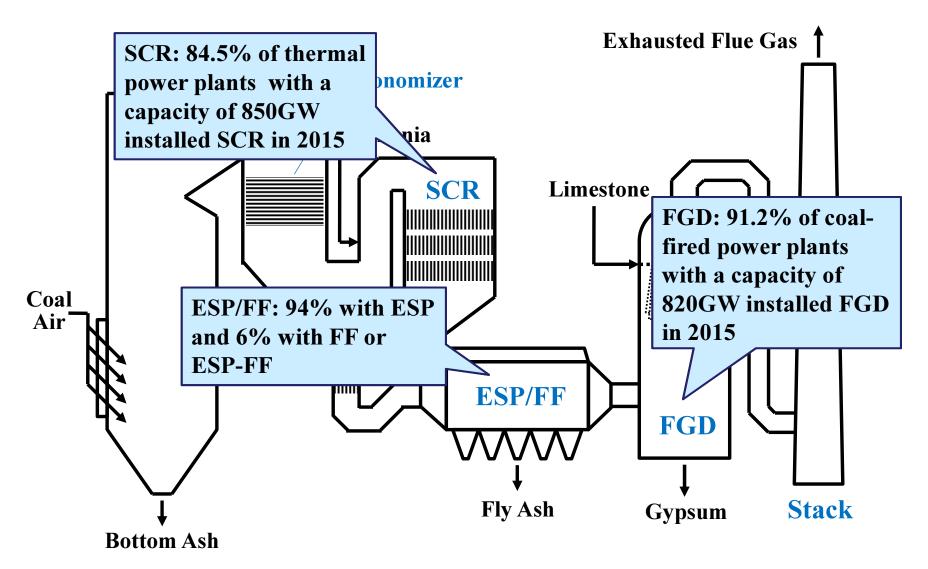


- Recent control measures and emission trends
- Projection of air pollutants emissions
- Quantification of health effects
- Perspectives on future IAM collaborations

Evolution of emission standards

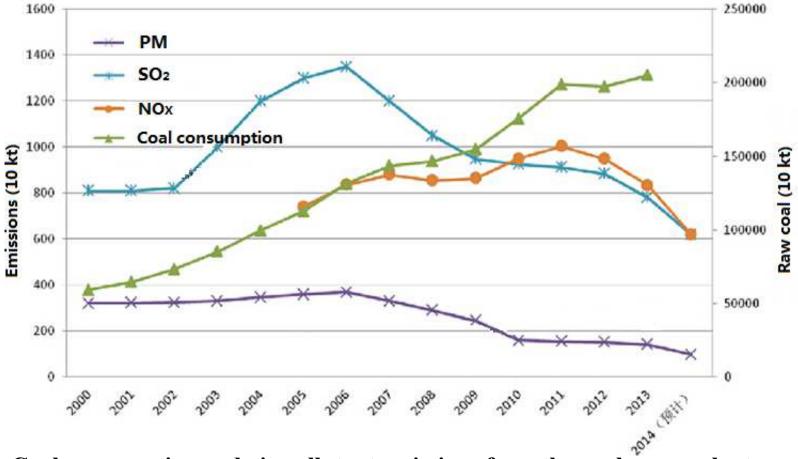


Application of air pollution control devices



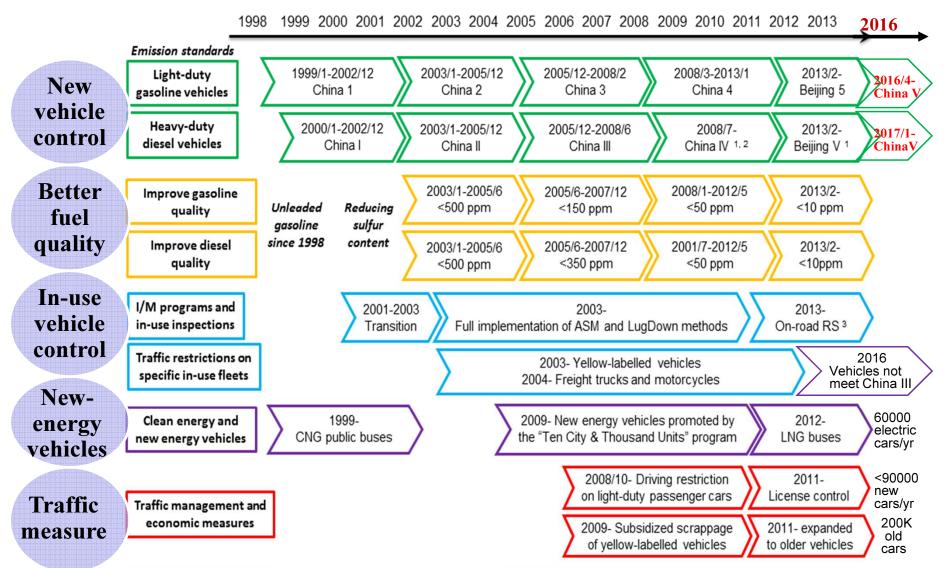
Reduction of emissions from power plants

Although coal consumption increased 60%, the emissions of PM, SO₂, and NOx in 2015 were 9%, 15%, and 22% of that in 2006.



Coal consumption and air pollutant emissions from thermal power plants

Evolution of vehicle emission control



¹ only implemented for public fleets; ² for freight trucks and long-distance coaches, they complied with the China IV emission standard from July 2013 as required by the Ministry of Environmental Protection; ³ remote sensing test

Trends of air pollutant emissions from vehicles

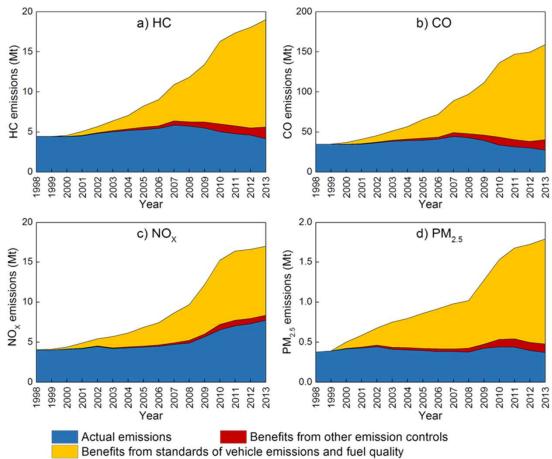
Although vehicle population increased by over 5 times in the past 15 years, the national vehicle emissions started to decline:

HC and CO: peak in 2007

PM_{2.5}: peak in 2010-2011

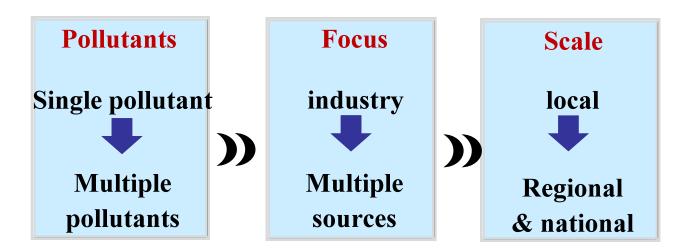
NO_X: peak in 2013

Vehicle-related emissions in Beijing started to decline much earlier than the national level: peak in 2000-2002.



gional air pollution control policies

al emission control target for both SO₂ and NOx *th* FYP on air pollution control for key regions
dment of NAQQS, including PM_{2.5} **ollution Prevention and Control Action Plan**ir Pollution Prevention and Control Law



https://www.yunbaogao.cn/report/index/report?reportId=5_1893 重码如

