


Changing Landscape of Global Market - China, Asia and the World



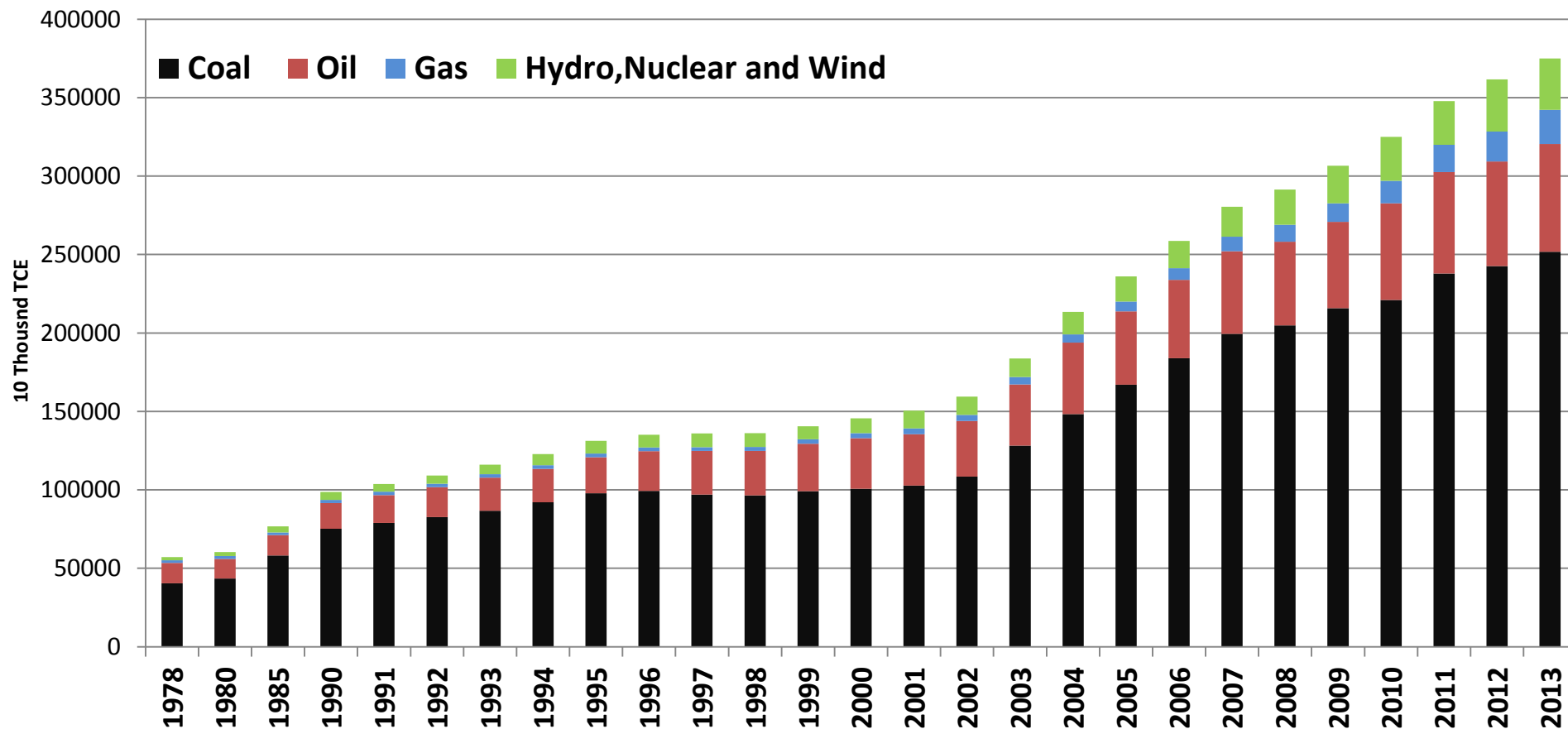
Fuqiang Yang
NRDC
Canberra, 18/06/2014

China GDP and Energy Consumption Growth Rates, 2001 - 2013

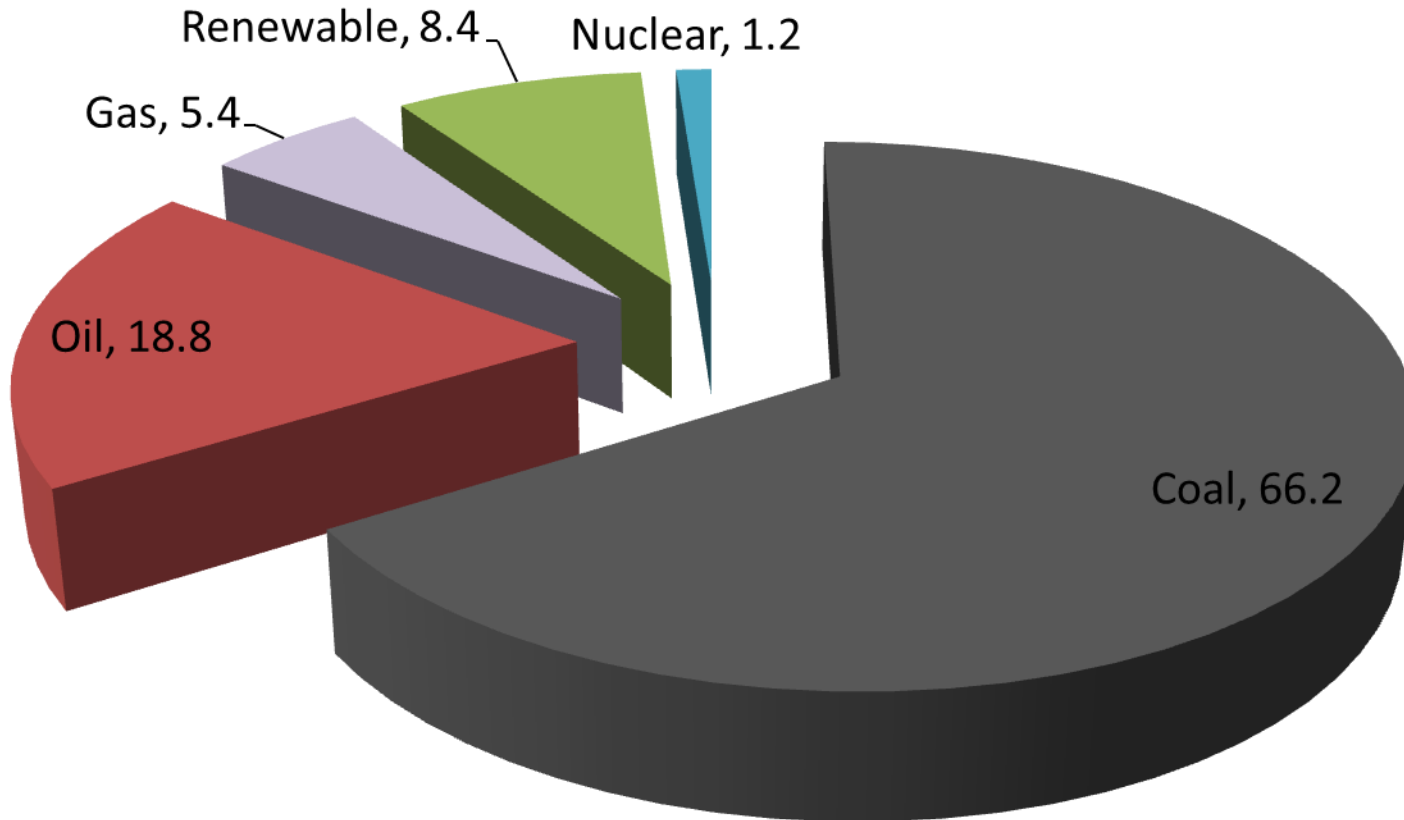


Data Source: China Statistical Yearbook 2011, 2012, 2013

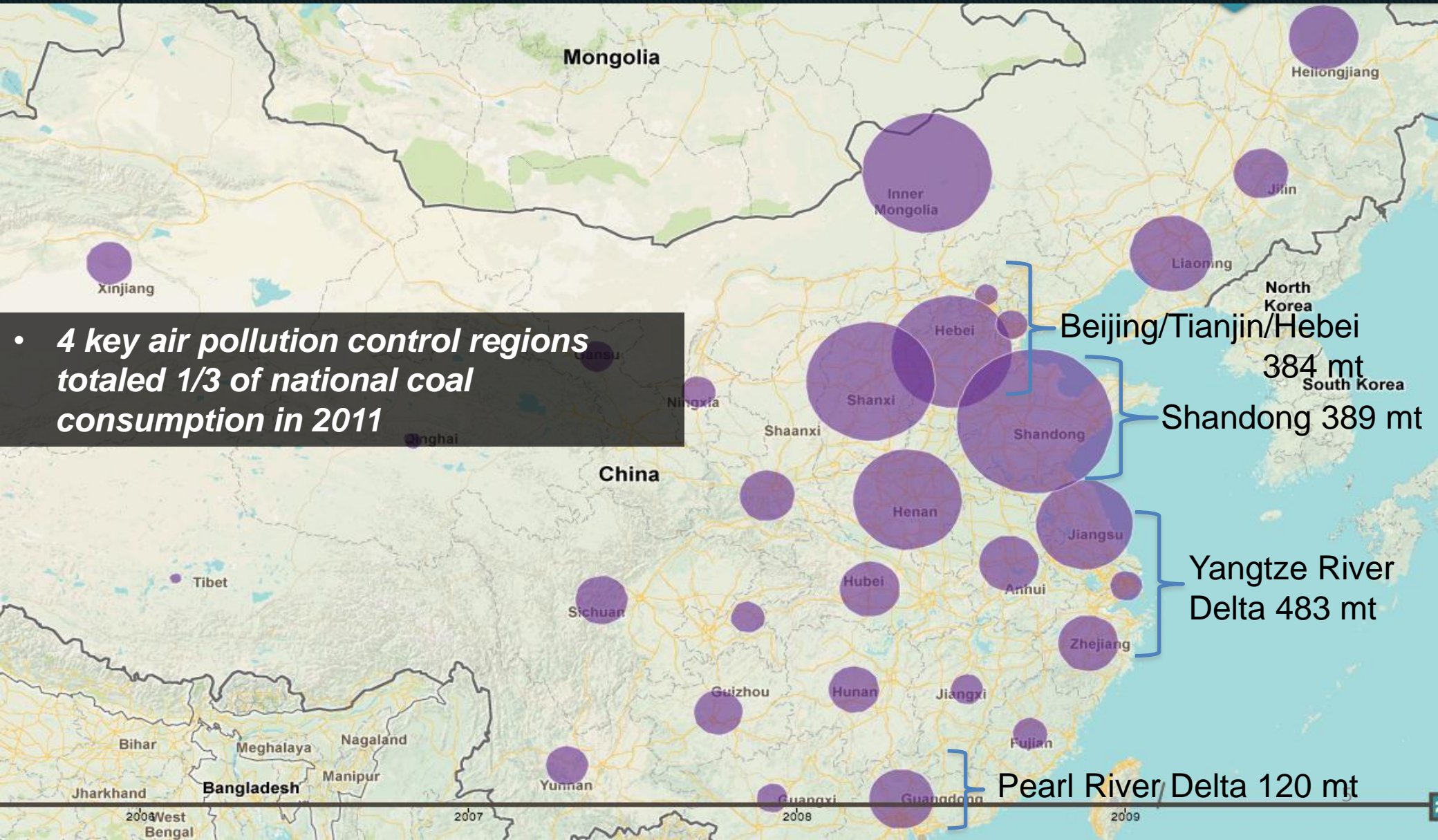
Primary energy consumption and composition (1978-2012)



China Energy Consumption Mix, 2013



REGIONAL COAL CONSUMPTION CAPS TO ADDRESS AIR POLLUTION



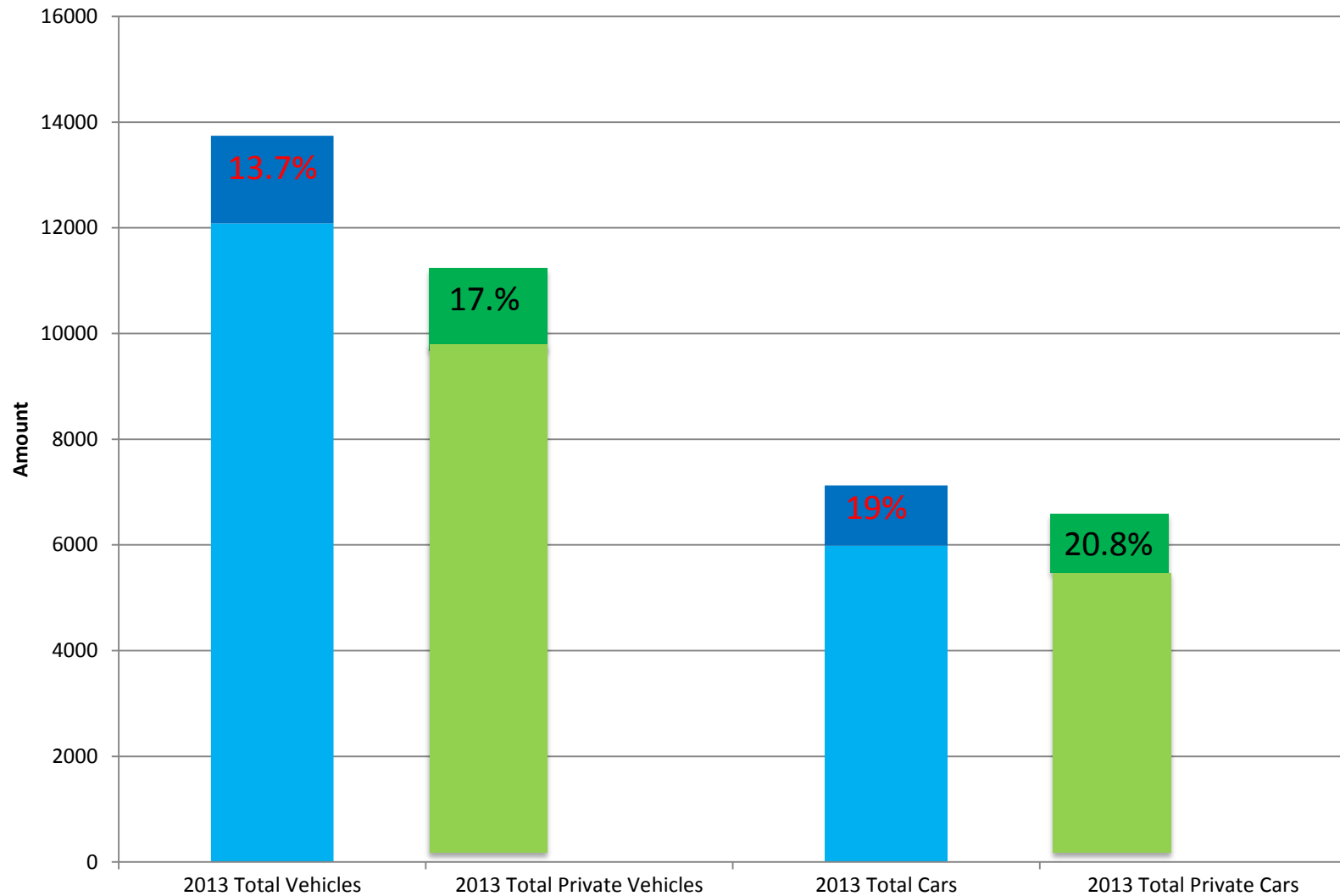
Losses and Damage



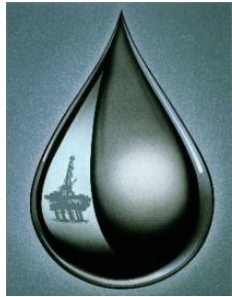
Environmental and Ecologic Losses from Coal Use and Exploitation Equivalent to 7-9% of Annual GDP



Rapid Increase in China Vehicles Stock Increase 2013



Net Importation of Energy Types, 2012



Crude Oil
270 M tons

Coefficient
55.8%



Oil Product
57 M tons

67.6%



Coal
289 M tons

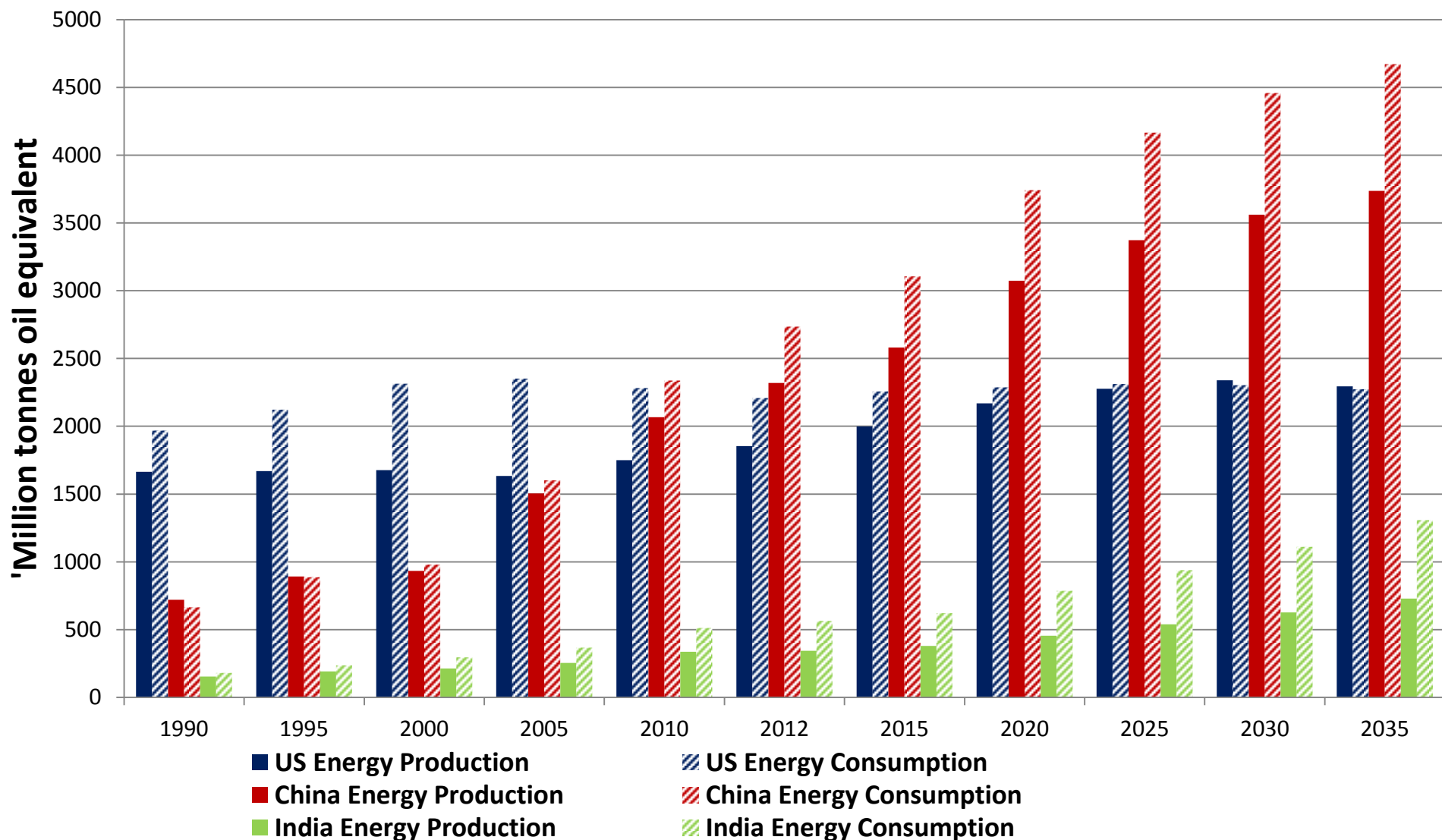
7.7%



Natural Gas
38.6 B cm

26.8%

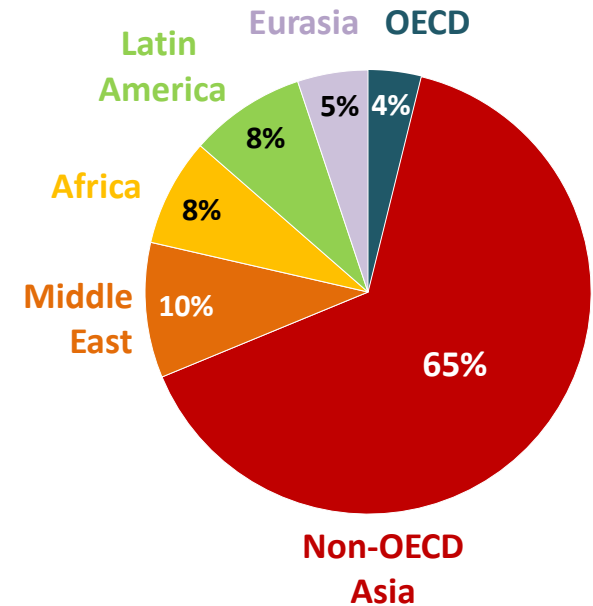
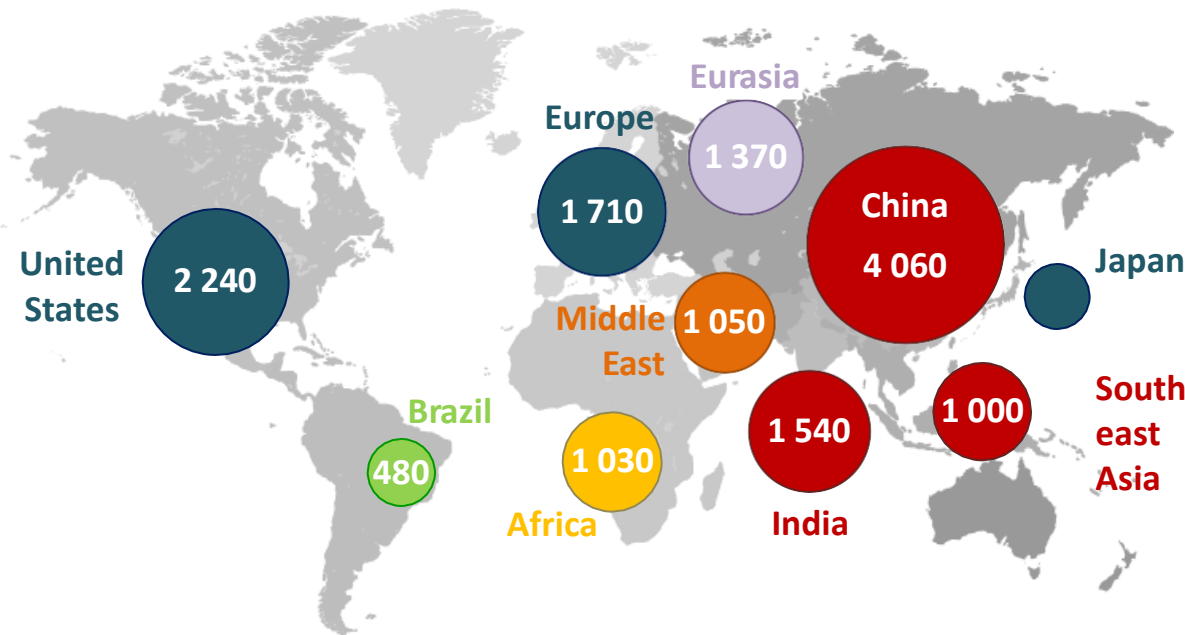
Energy production trends and prediction of US, China and India



Global Energy Demand Growth Shift to Asia

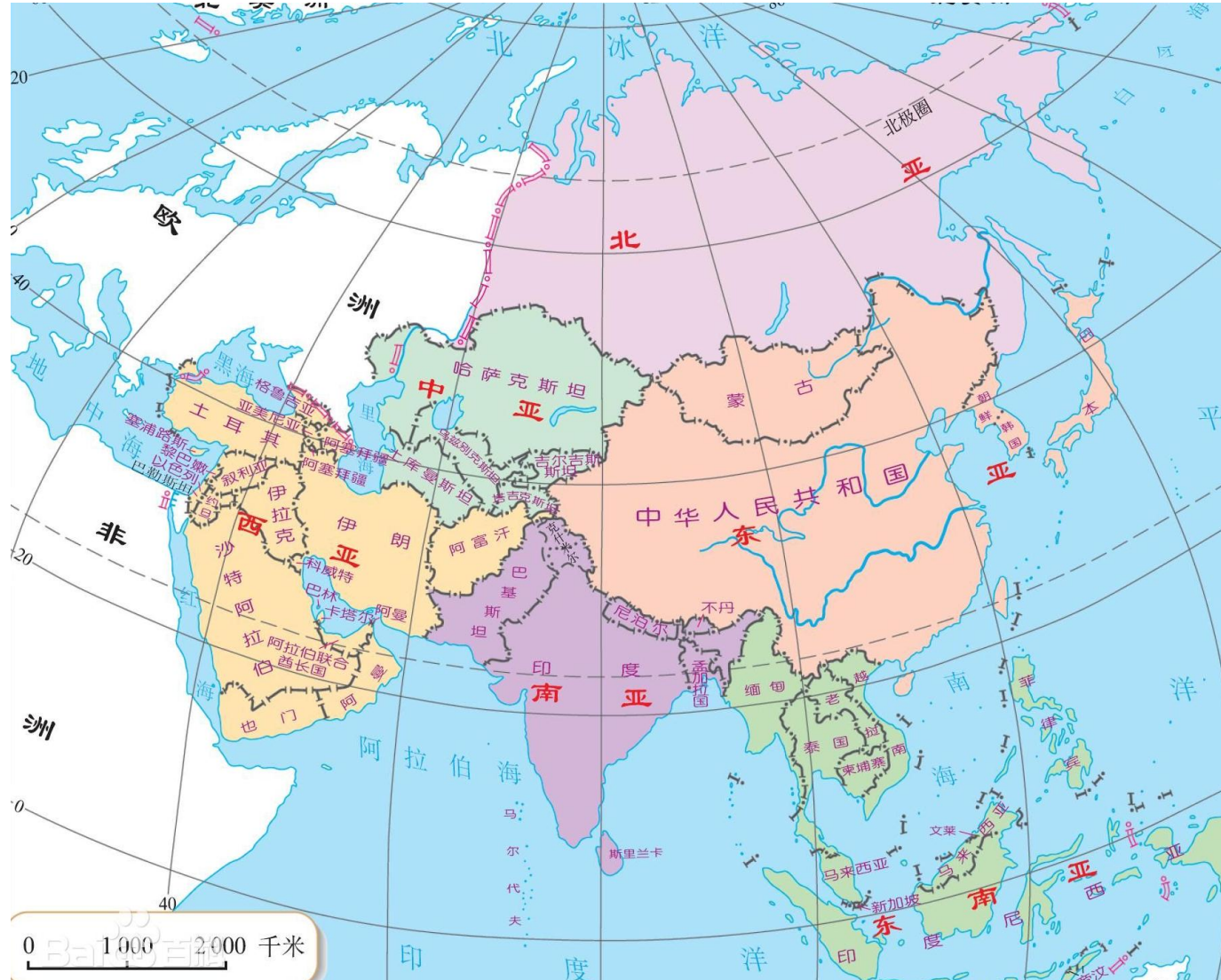
Primary energy demand, 2035 (Mtoe)

Share of global growth 2012-2035



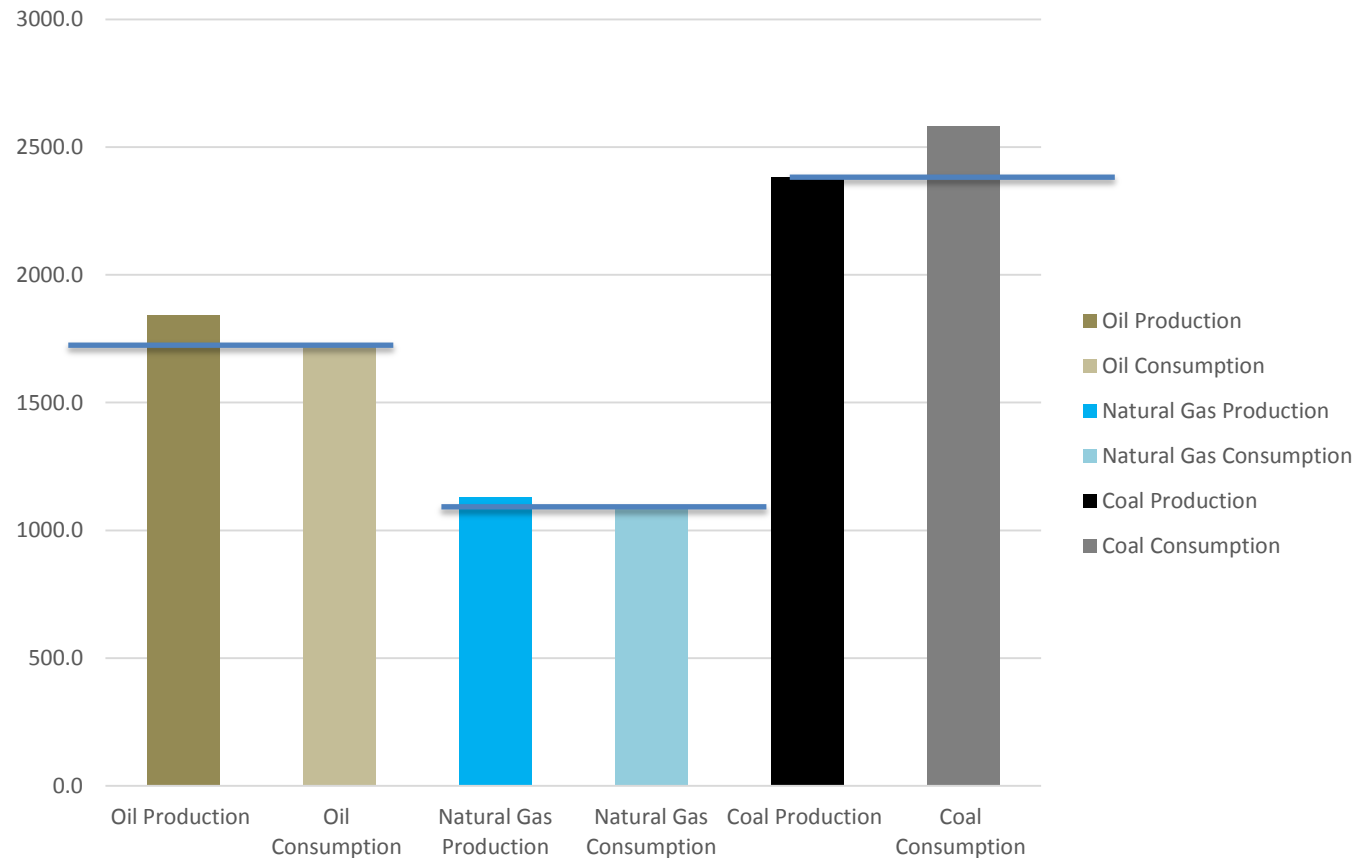
China is the main driver of increasing energy demand in the current decade, but India takes over in the 2020s as the principal source of growth

Major Asian Countries



- 1 阿联酋
- 2 阿曼
- 3 阿塞拜疆
- 4 巴基斯坦
- 5 巴林岛
- 6 菲律宾
- 7 哈萨克斯坦
- 8 卡塔尔
- 9 科威特
- 10 马来西亚
- 11 孟加拉
- 12 缅甸
- 13 南韩
- 14 其他中东国家
- 15 日本
- 16 沙特阿拉伯
- 17 泰国
- 18 土库曼斯坦
- 19 文莱
- 20 乌兹别克斯坦
- 21 新加坡
- 22 叙利亚
- 23 也门
- 24 伊拉克
- 25 伊朗
- 26 以色列
- 27 印度
- 28 印度尼西亚
- 29 越南
- 30 中国
- 31 中国台湾
- 32 中国香港

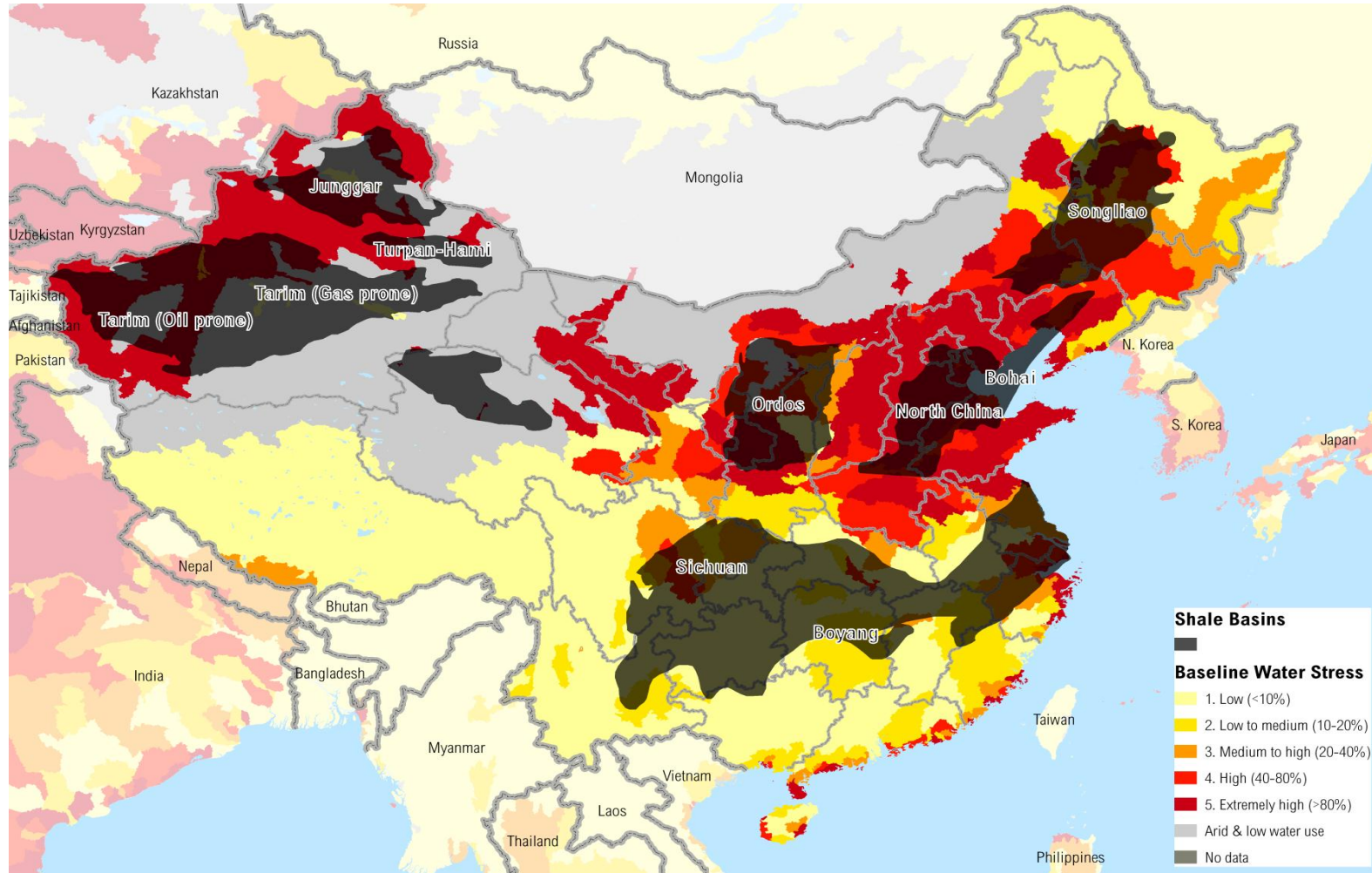
The fossil energy production and consumption in major Asian countries



Shale Gas Development and Environmental Impact



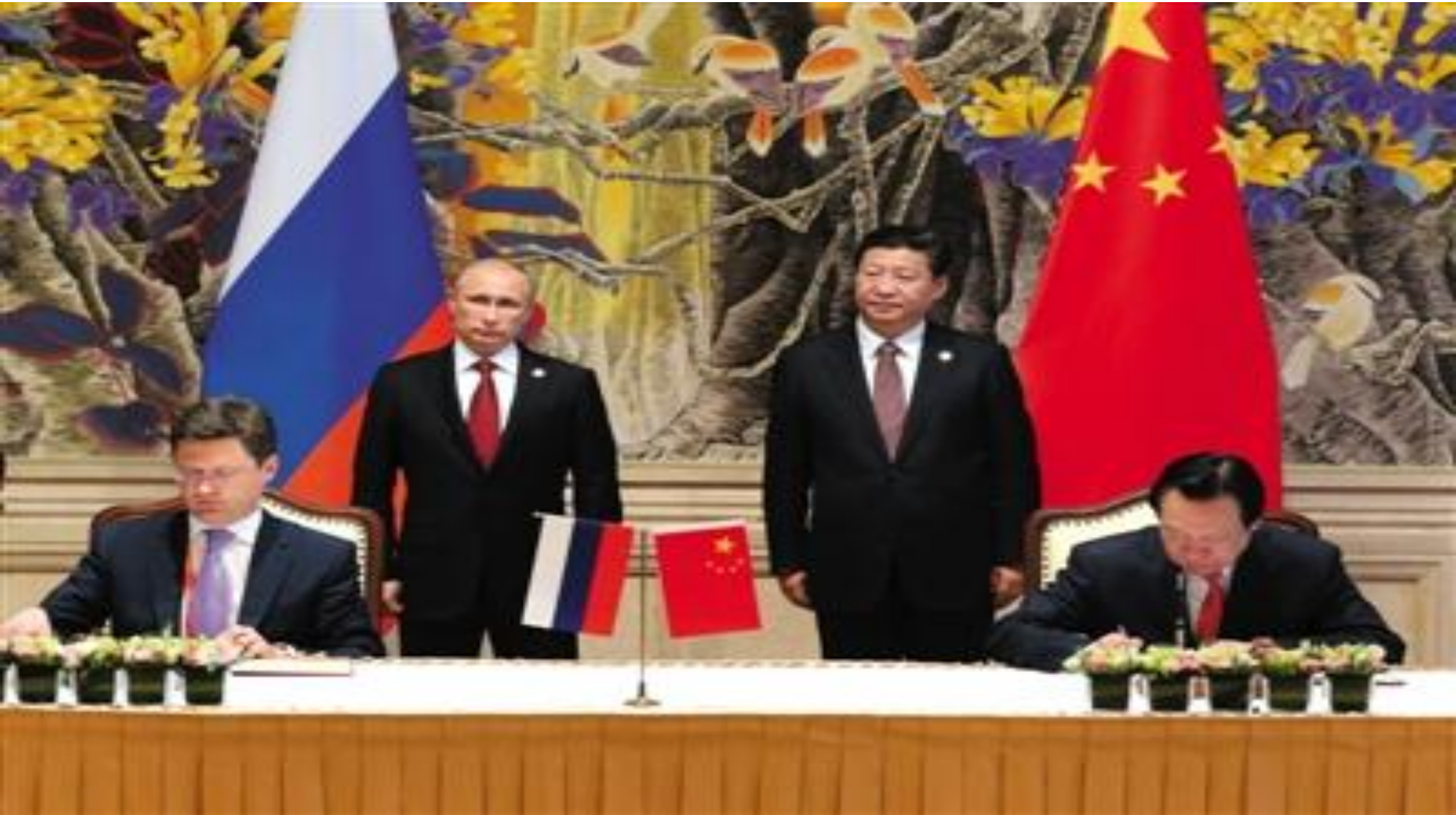
Shale Gas Development and Water Risk



China's Import Transit Routes



Sino-Russian Long Term Natural Gas Deal



Sino-Russia Natural Gas Pipelines

中俄天然气管道

俄罗斯

年供气量
380亿立方米

(东线) 大庆

(西线)
年供气量
300亿立方米

北京

中国

上海

新京报制图/张妍



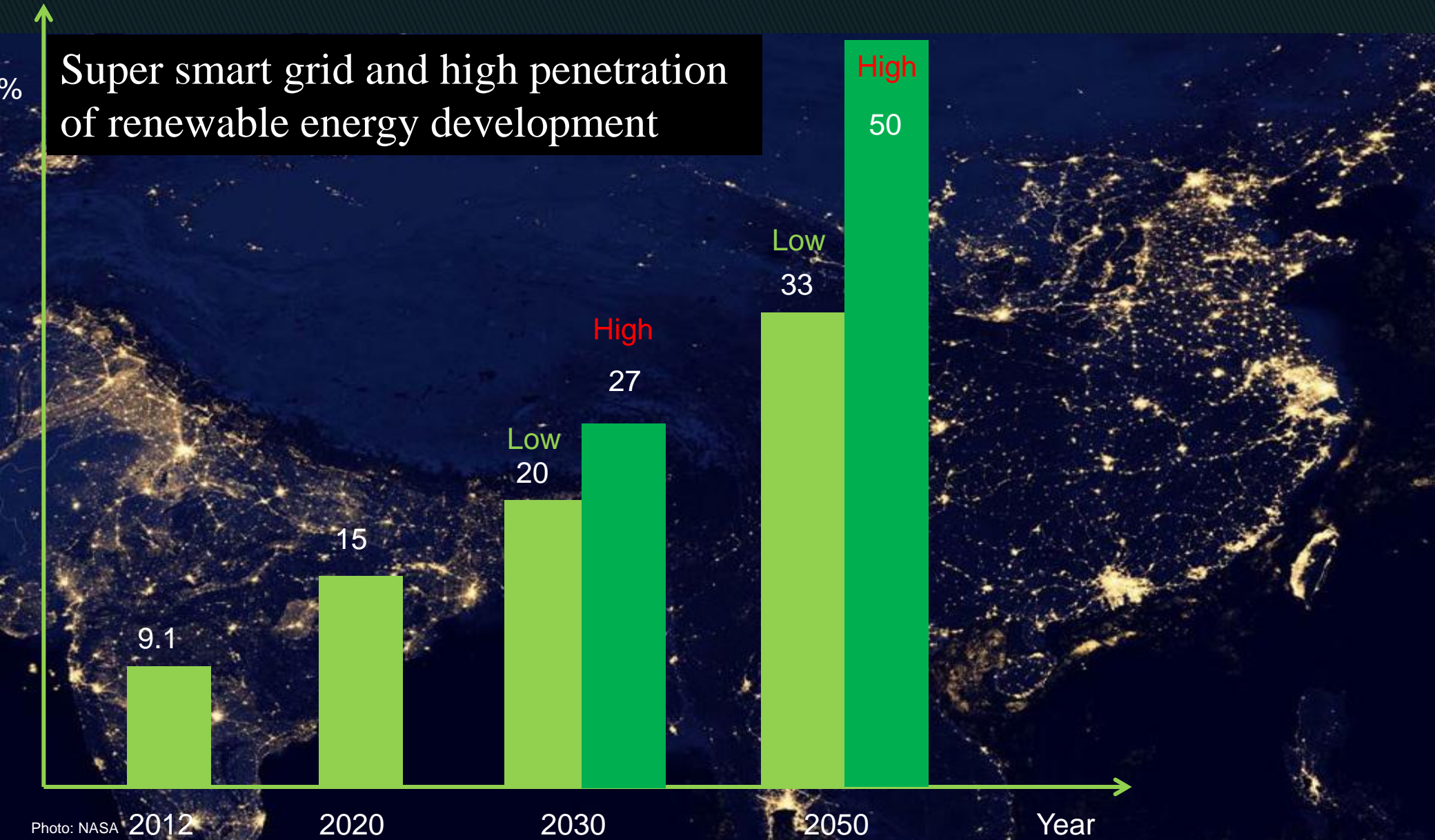
China Renewable Energy Target

Renewables to Be 11.4% and 15% of Energy Consumption Mix by 2015 and 2020

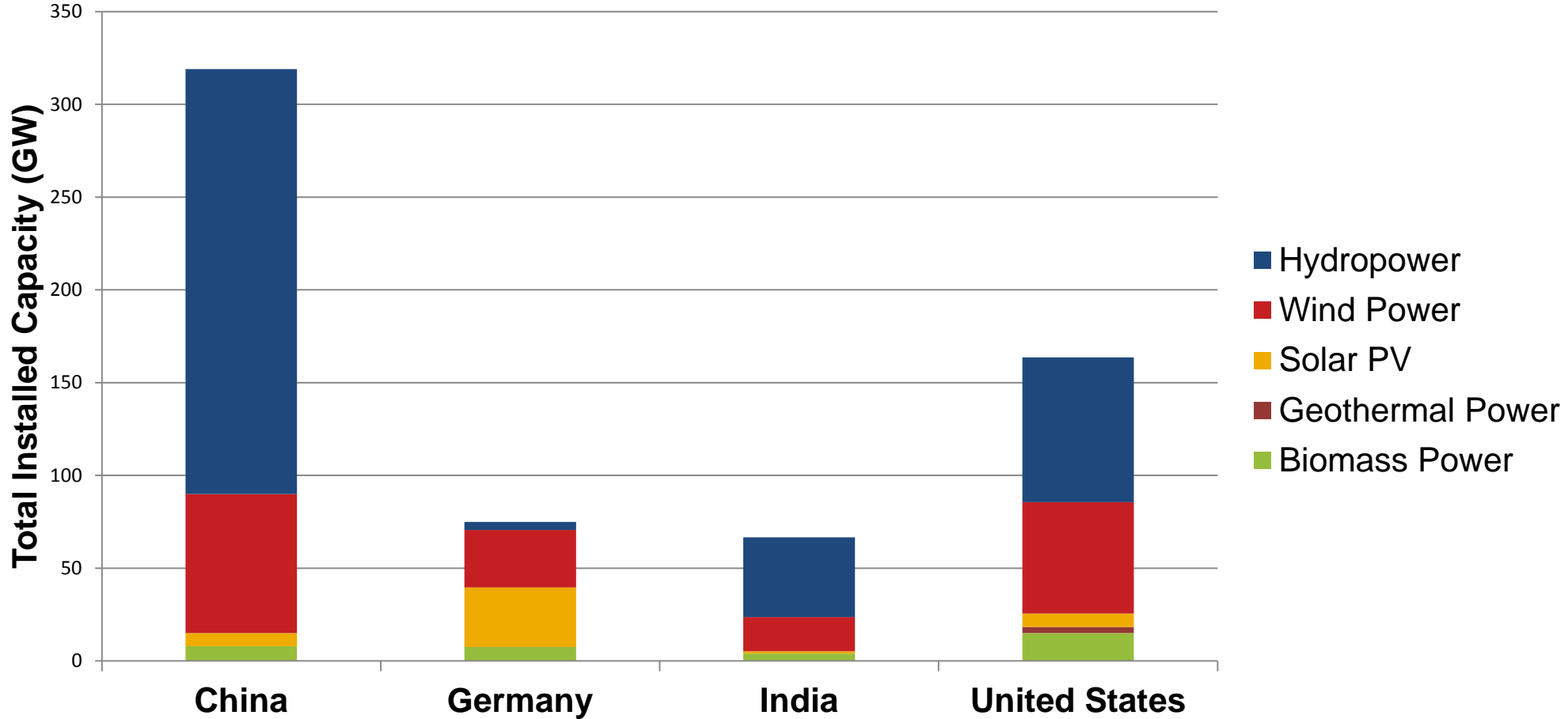
- 60/100 GW small hydro
 - 100/200 GW wind
 - 35/50GW solar PV
 - 13/30 GW biomass
 - 300 million square meters solar water heater
 - 24 billion cubic meters biogas
- More than 540 million tons of coal equivalent in total by 2020



Sustainable Energy Development—Supply

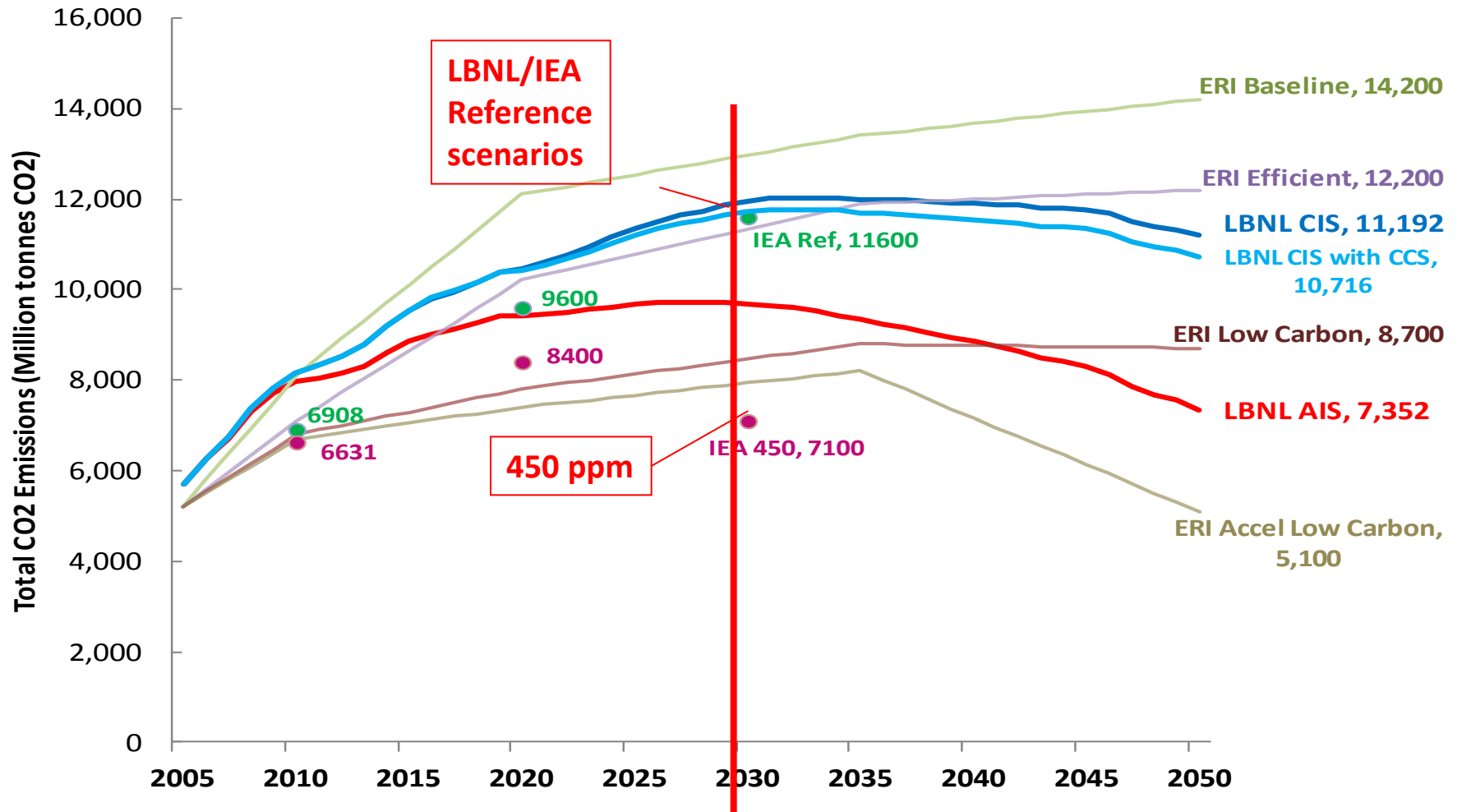


Installed Renewable Capacity



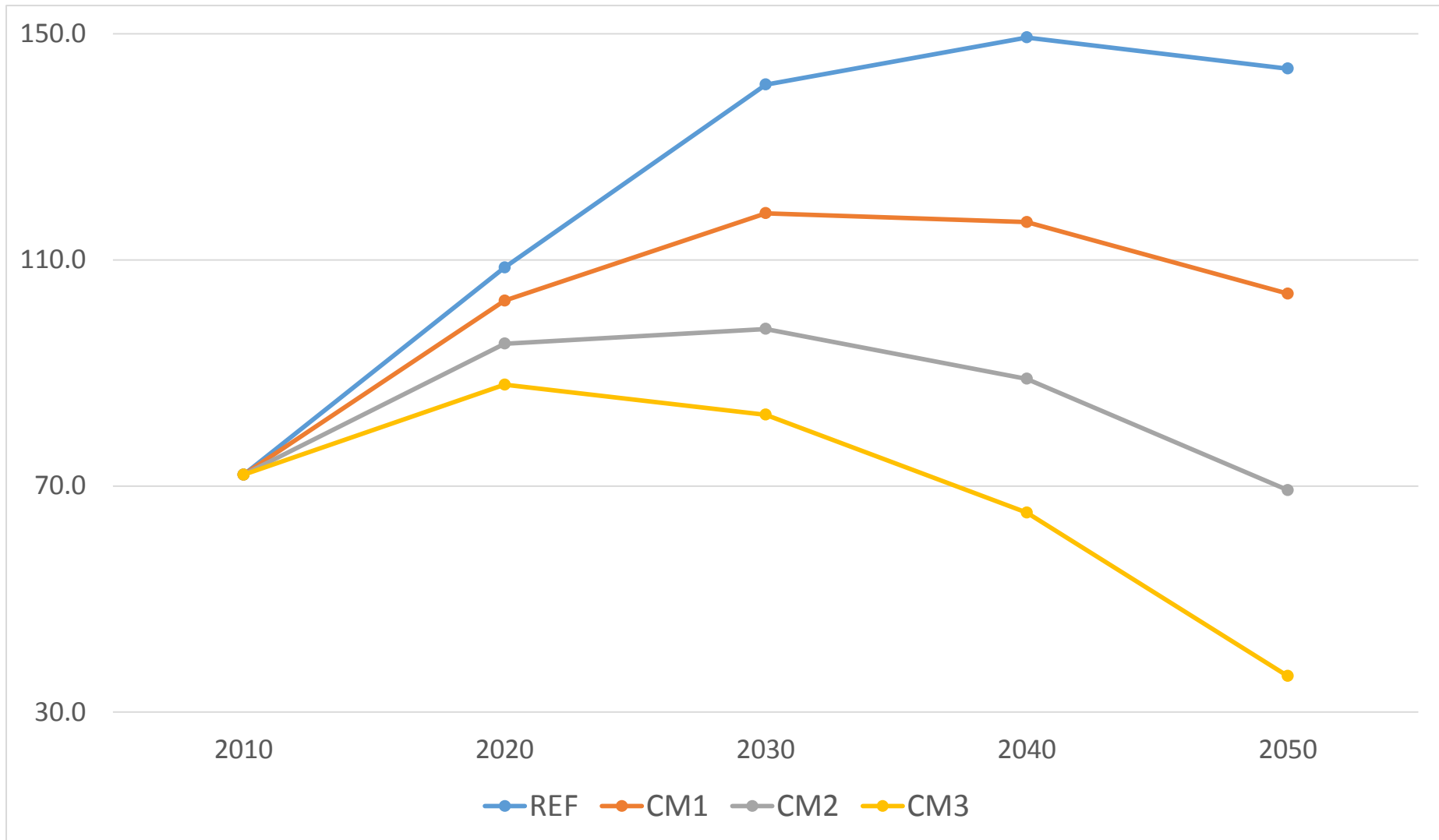
Source: REN21

China's Climate Challenge



Comparison of Carbon Emissions among Scenarios

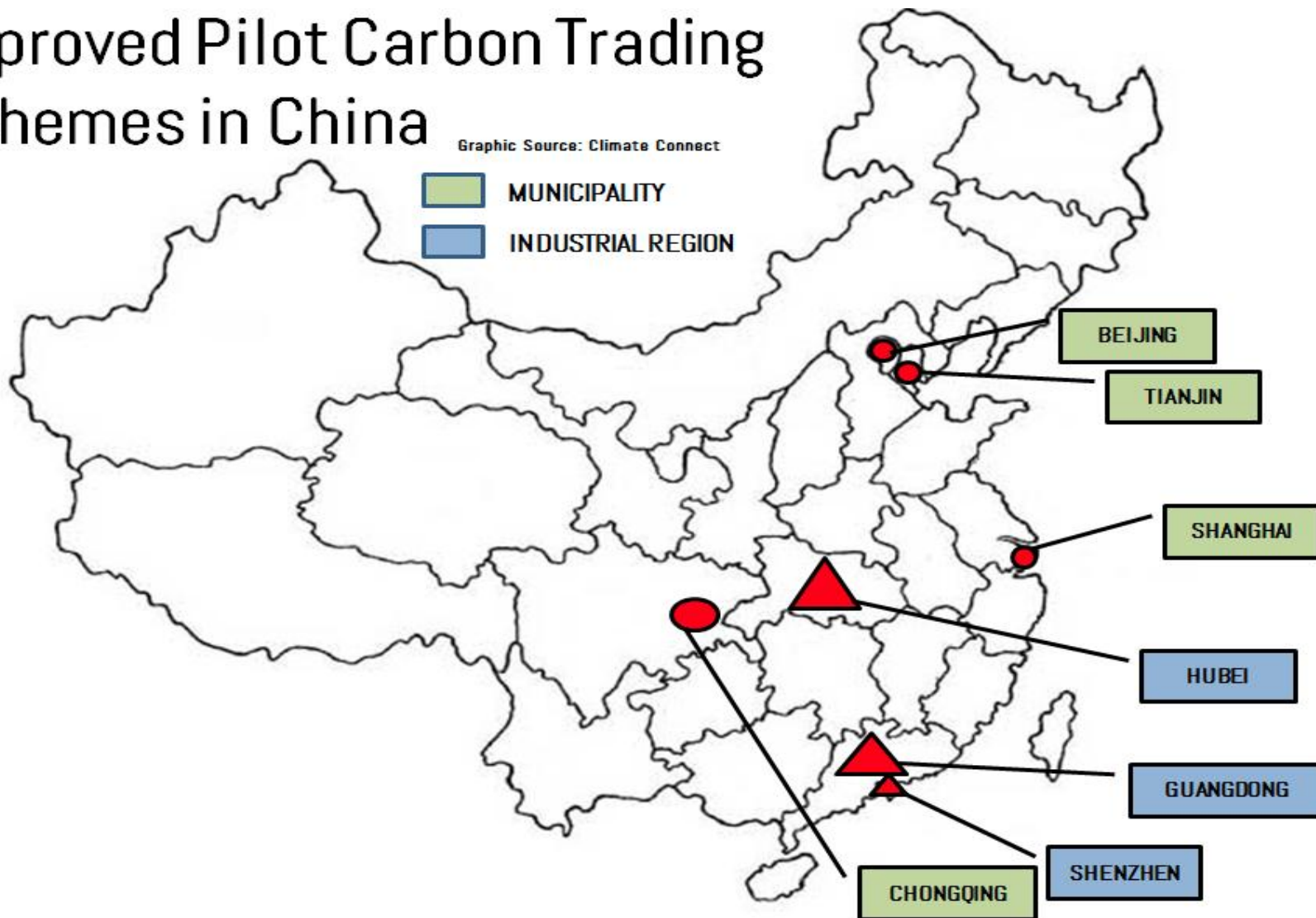
CO2 Emission Scenario 2010-2050



ETS in China

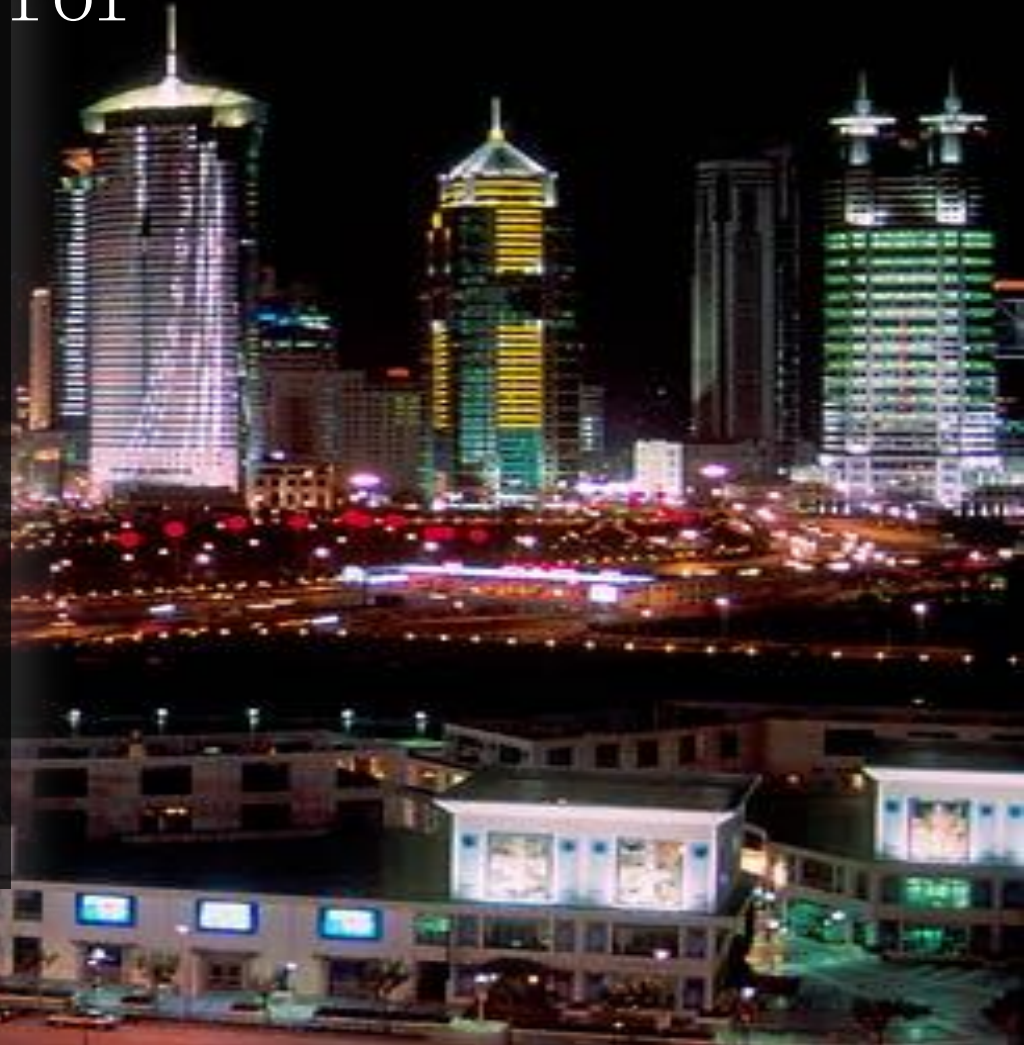
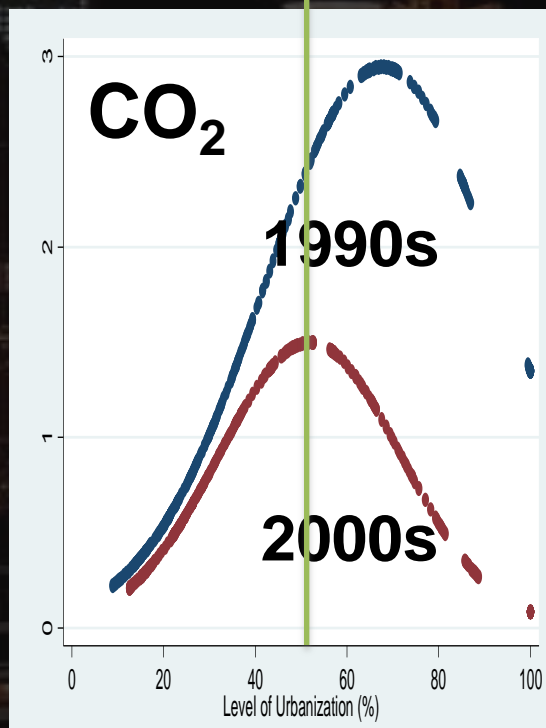
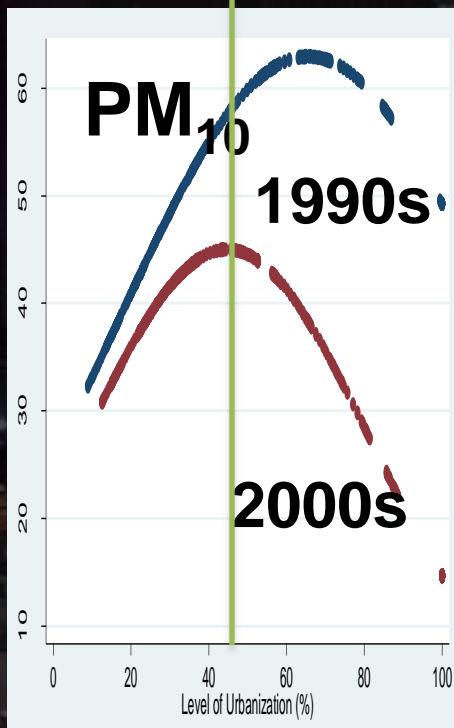
Approved Pilot Carbon Trading Schemes in China

Graphic Source: Climate Connect



Sustainable Development: Low-Carbon Eco-Cities

The hope and advantage for
late developing cities



China Position in UNFCCC Negotiation

China Role Is Critical

