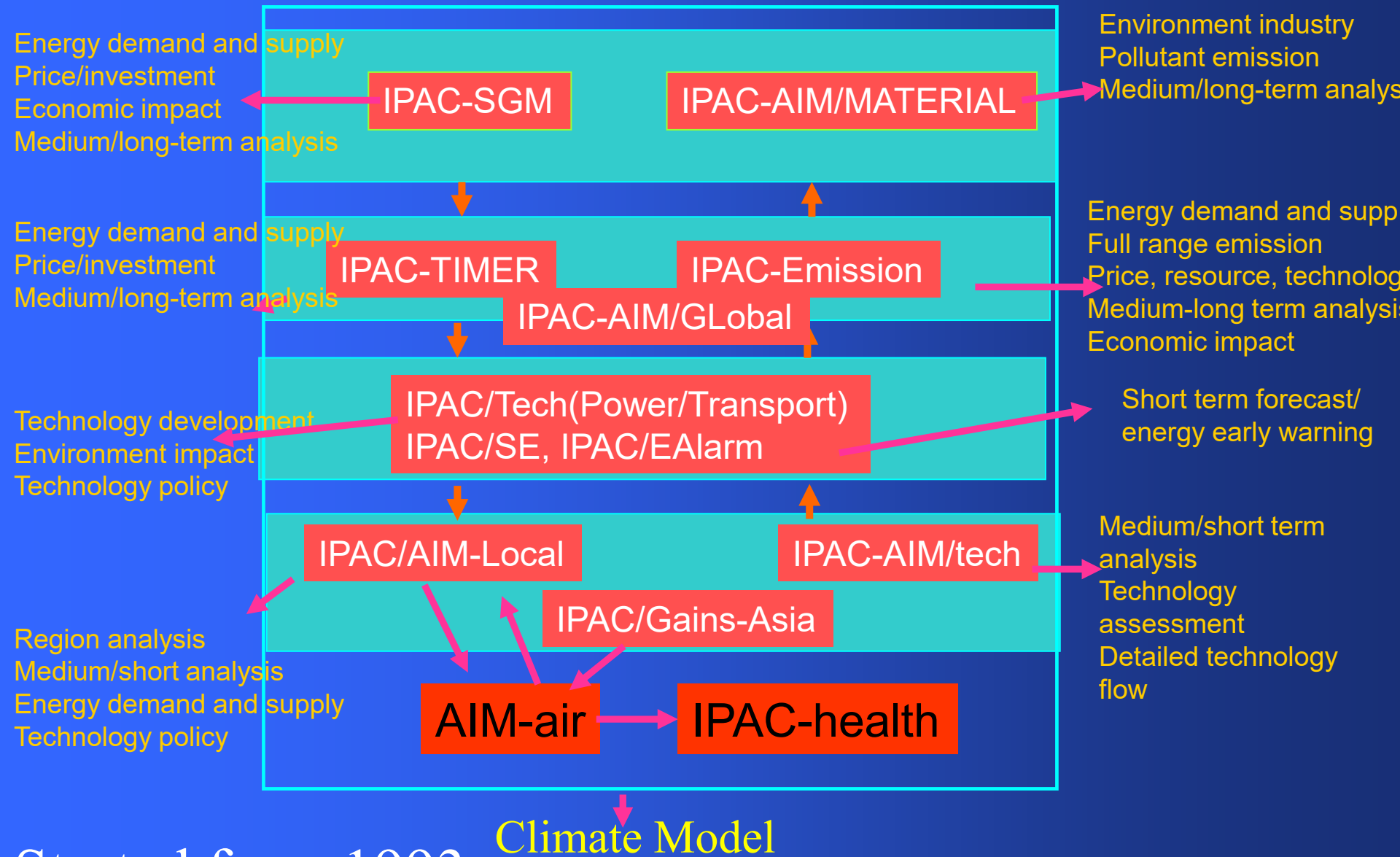


IPAC: from 2003 to 2023, to 2043

Hu Xiulian, Jiang Kejun

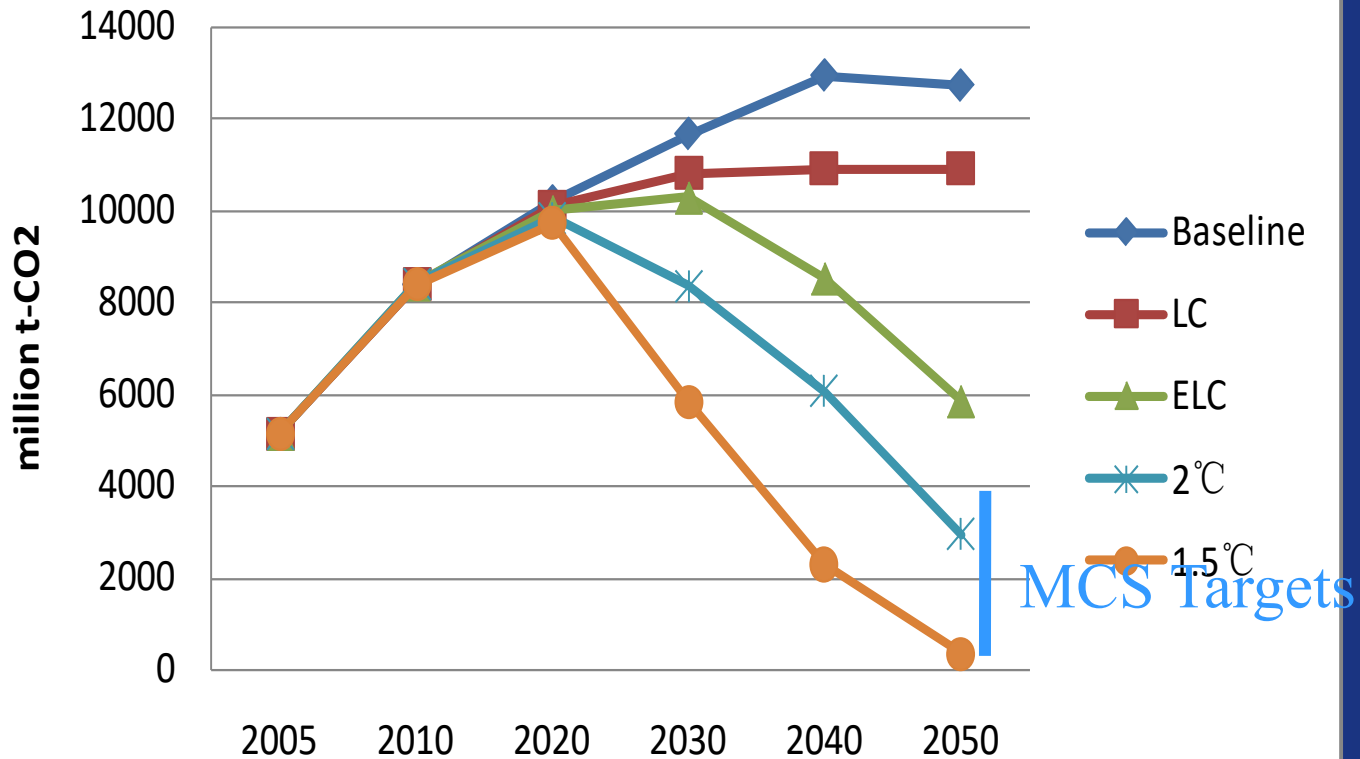
Energy Research Institute

Framework of Integrated Policy Model for China (IPAC)

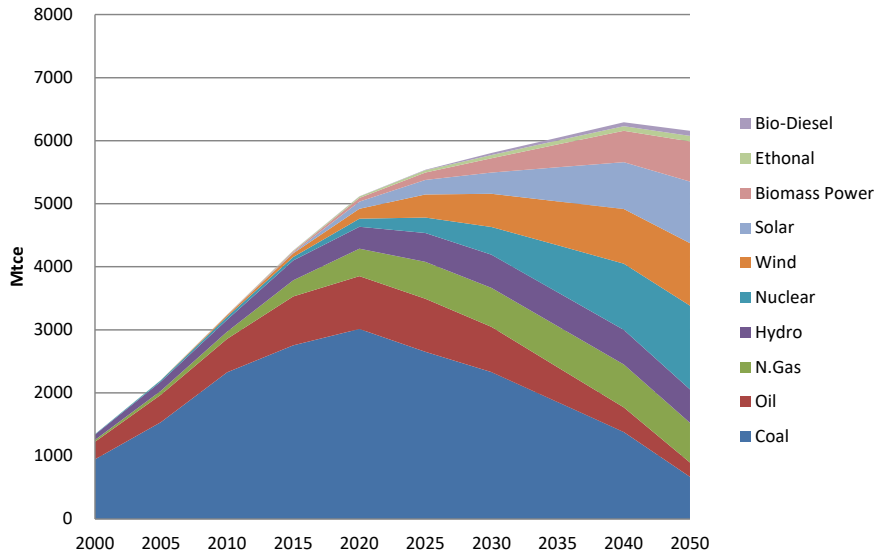


Started from 1993

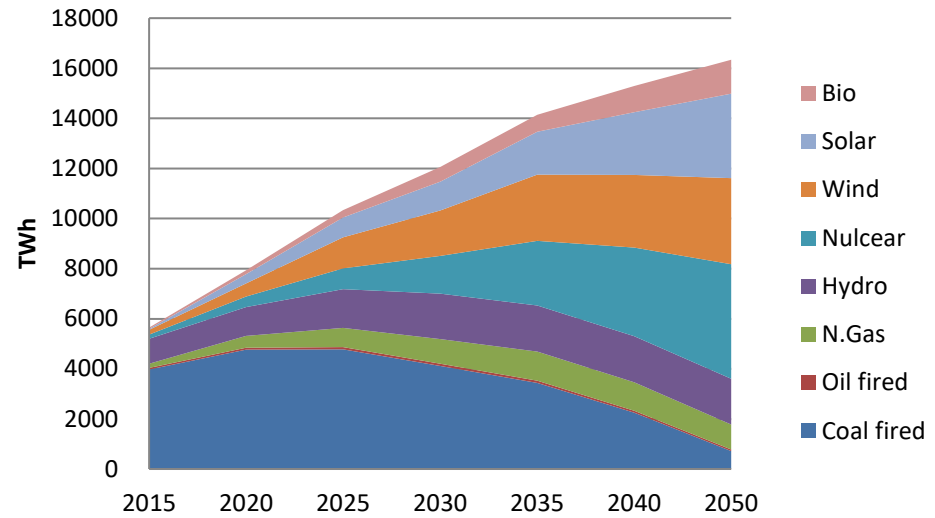
CO2 Emission in China



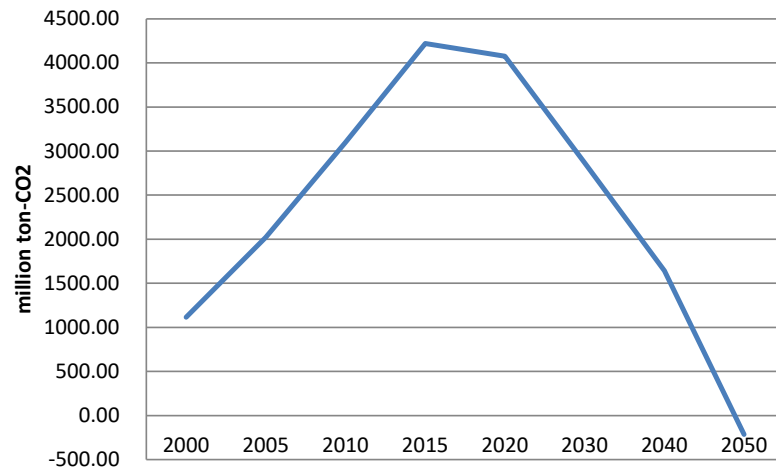
Primary Energy Demand



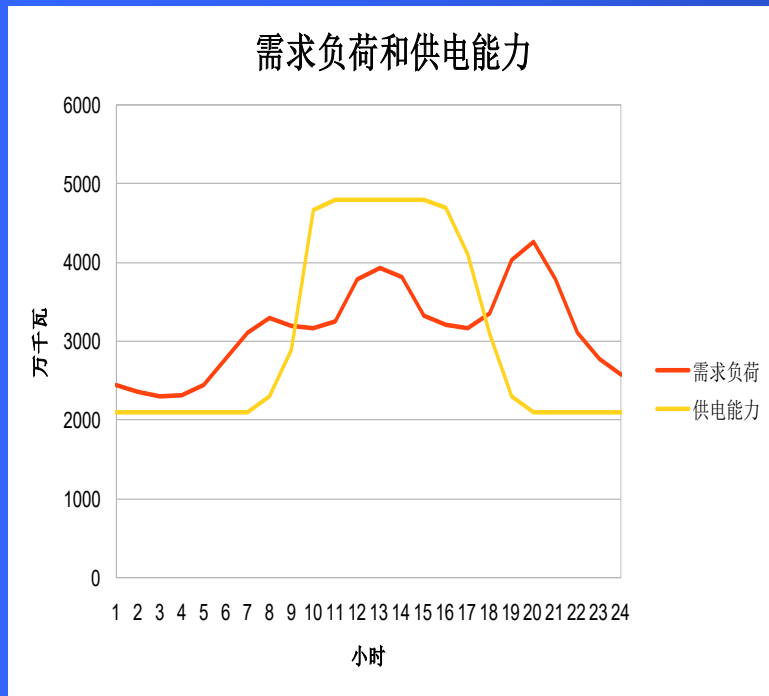
Power Generation



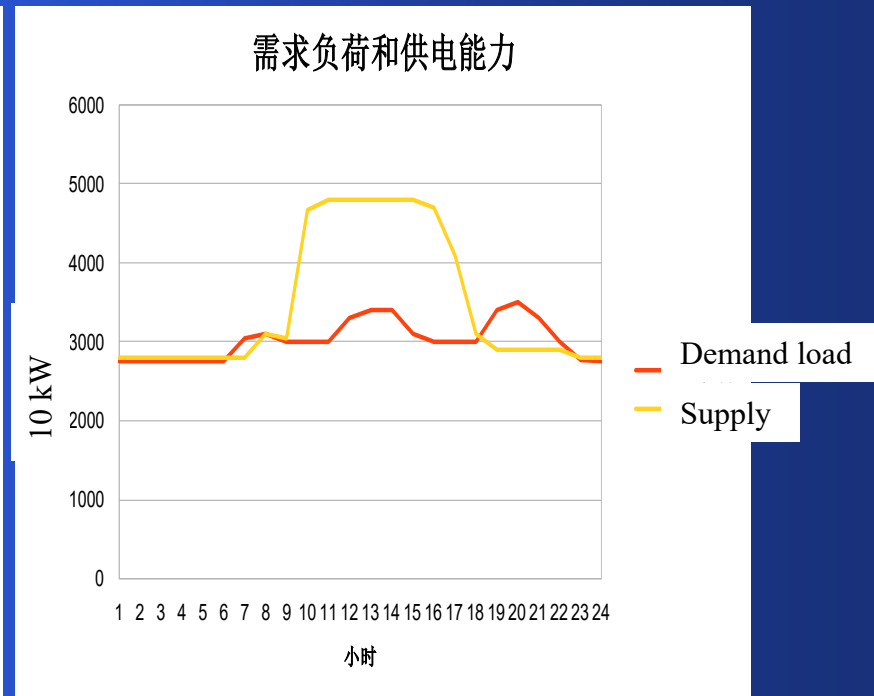
CO2 emission in power sector



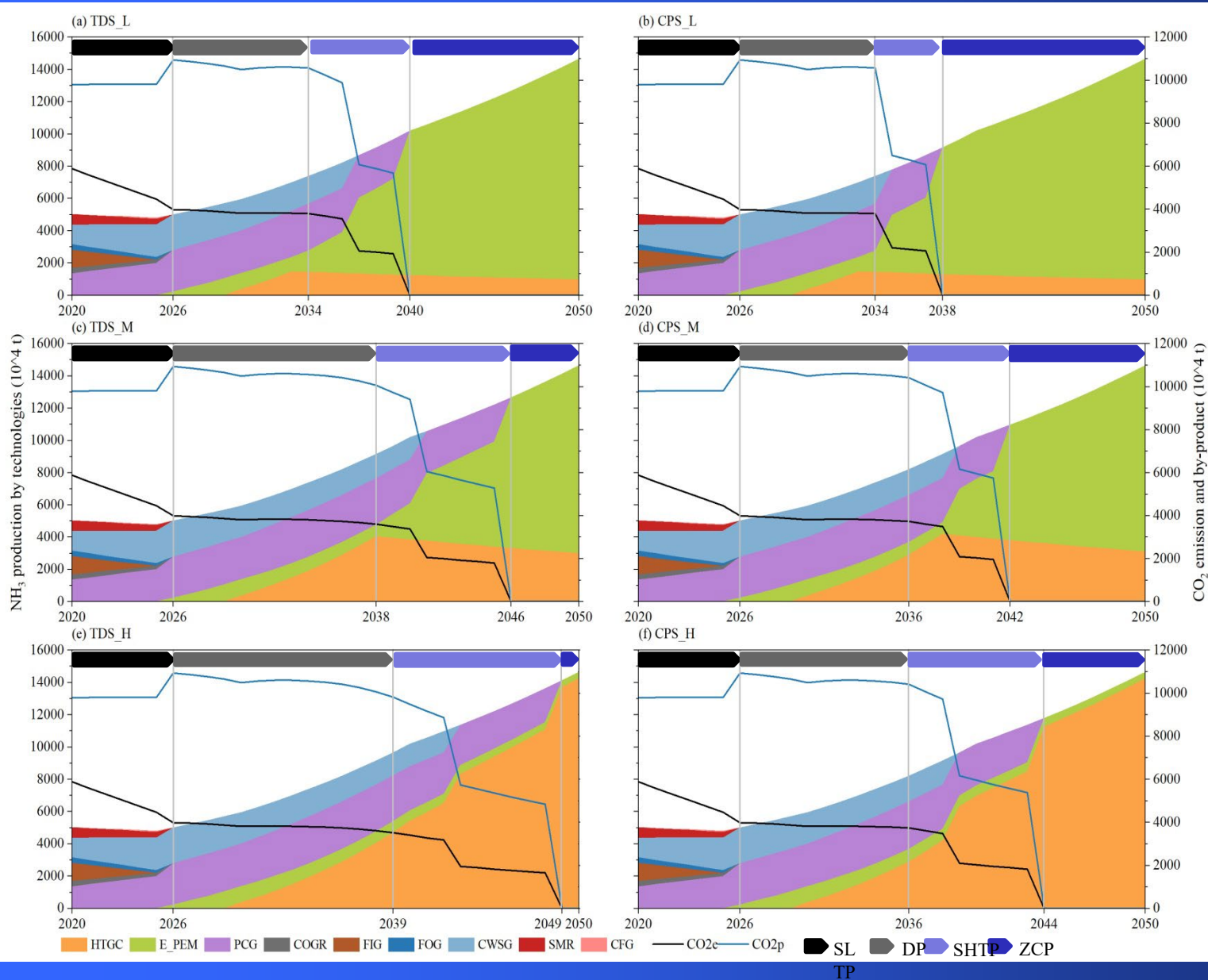
Power supply and demand load curve in Beijing for selected two days



Summer day
Without pricing signal



Summer day
With pricing signal



Ammonia manufacture zero-carbon pathways with various PV LCOE

2018年中国粗钢产量分省份分布图 (万吨)

Steel

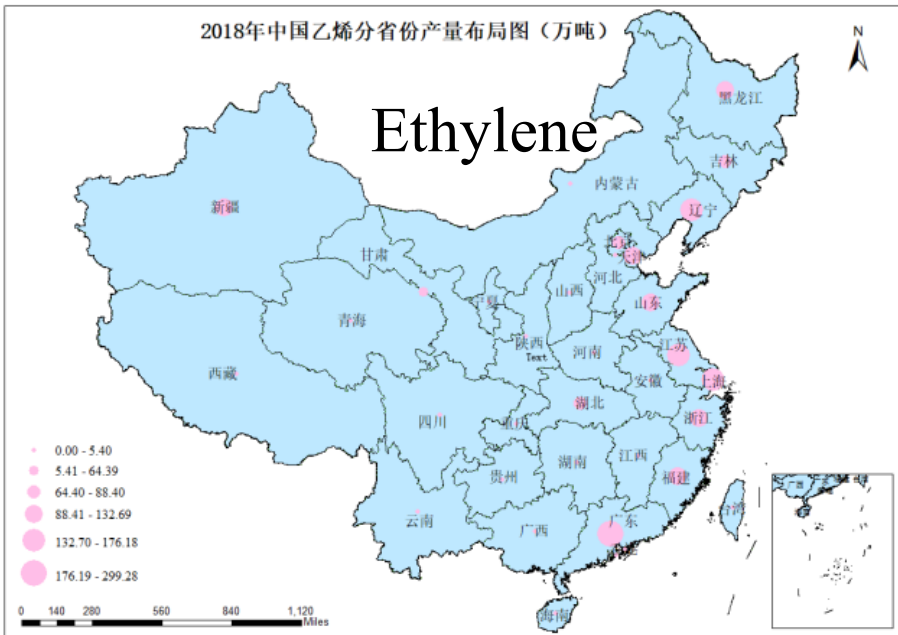


2050年中国粗钢产量分省份分布图 (万吨)

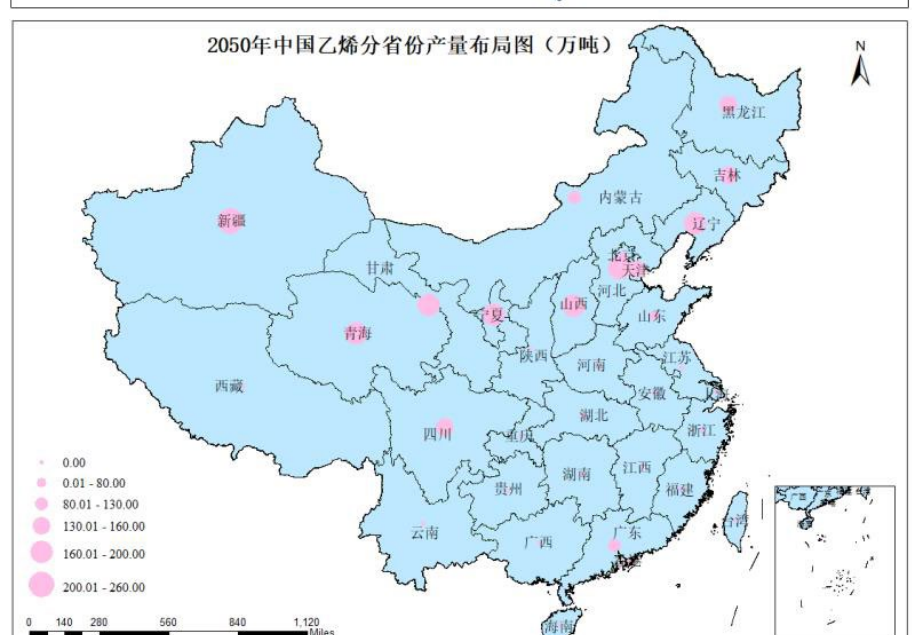


2018年中国乙烯分省份产量布局图 (万吨)

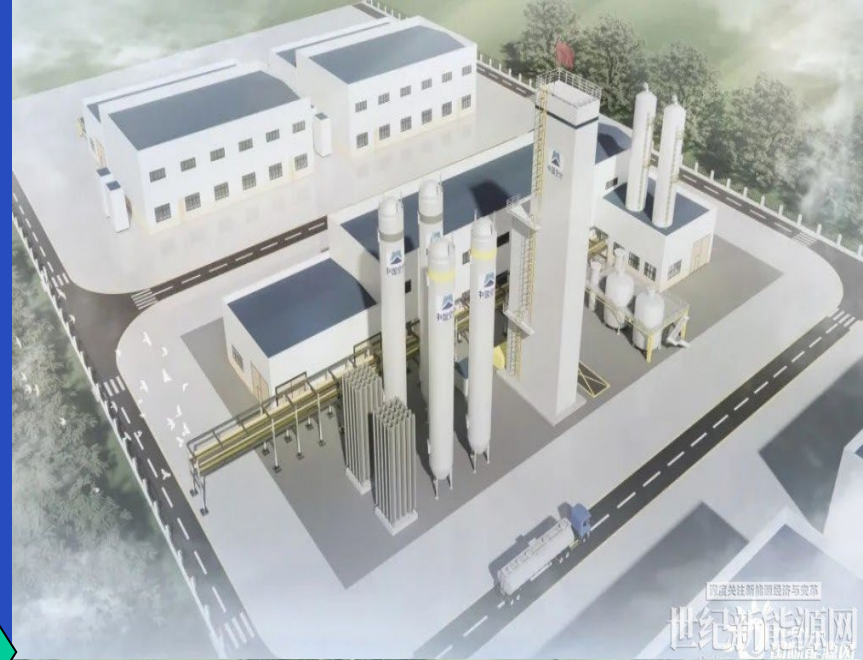
Ethylene



2050年中国乙烯分省份产量布局图 (万吨)

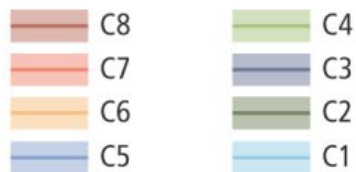
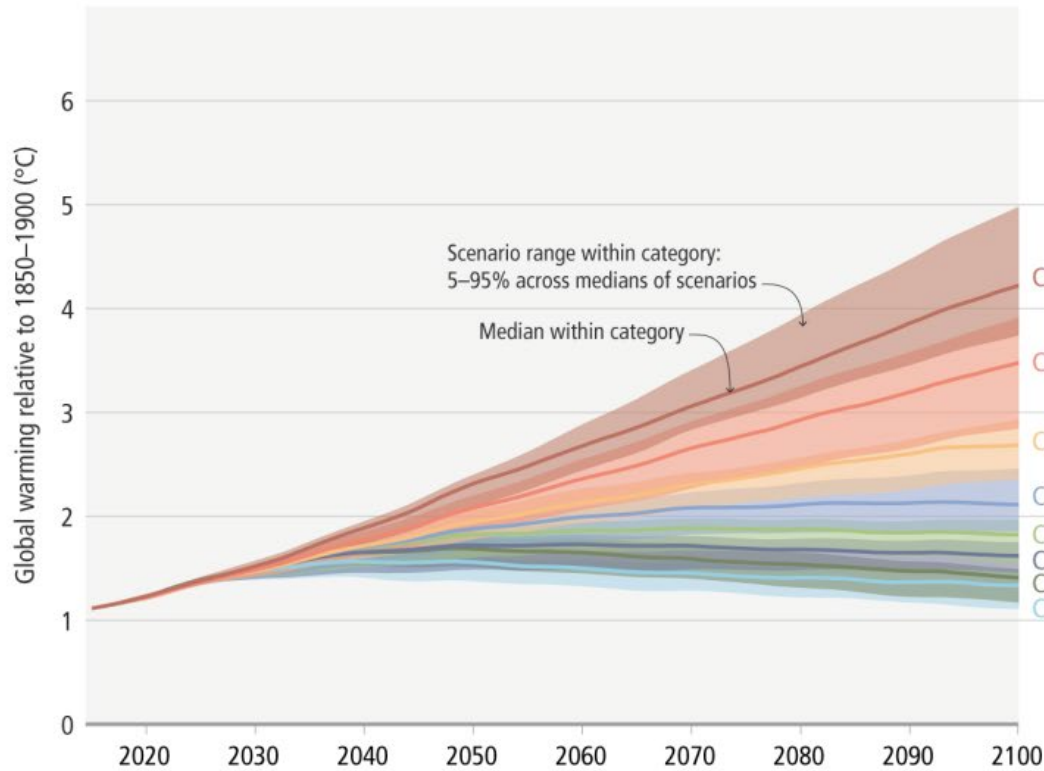


From traditional ammonia to hydrogen based ammonia

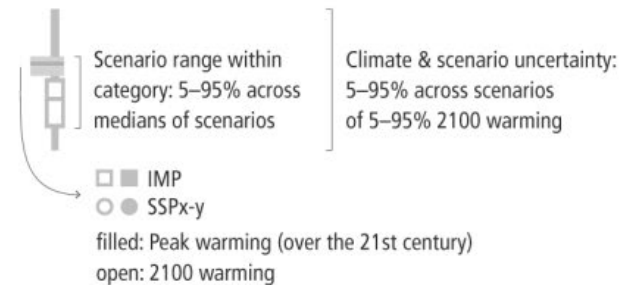
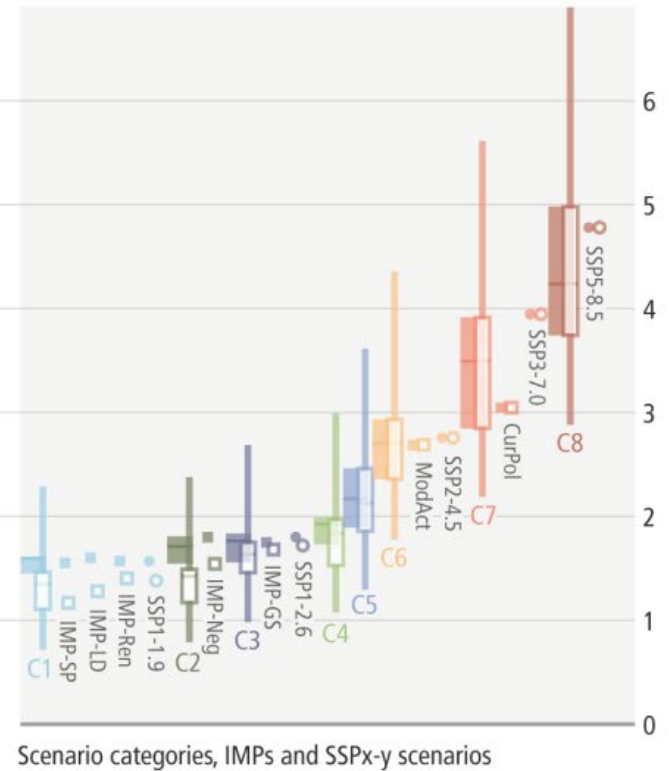


The range of assessed scenarios results in a range of 21st century projected global warming.

a. Median global warming across scenarios in categories C1 to C8

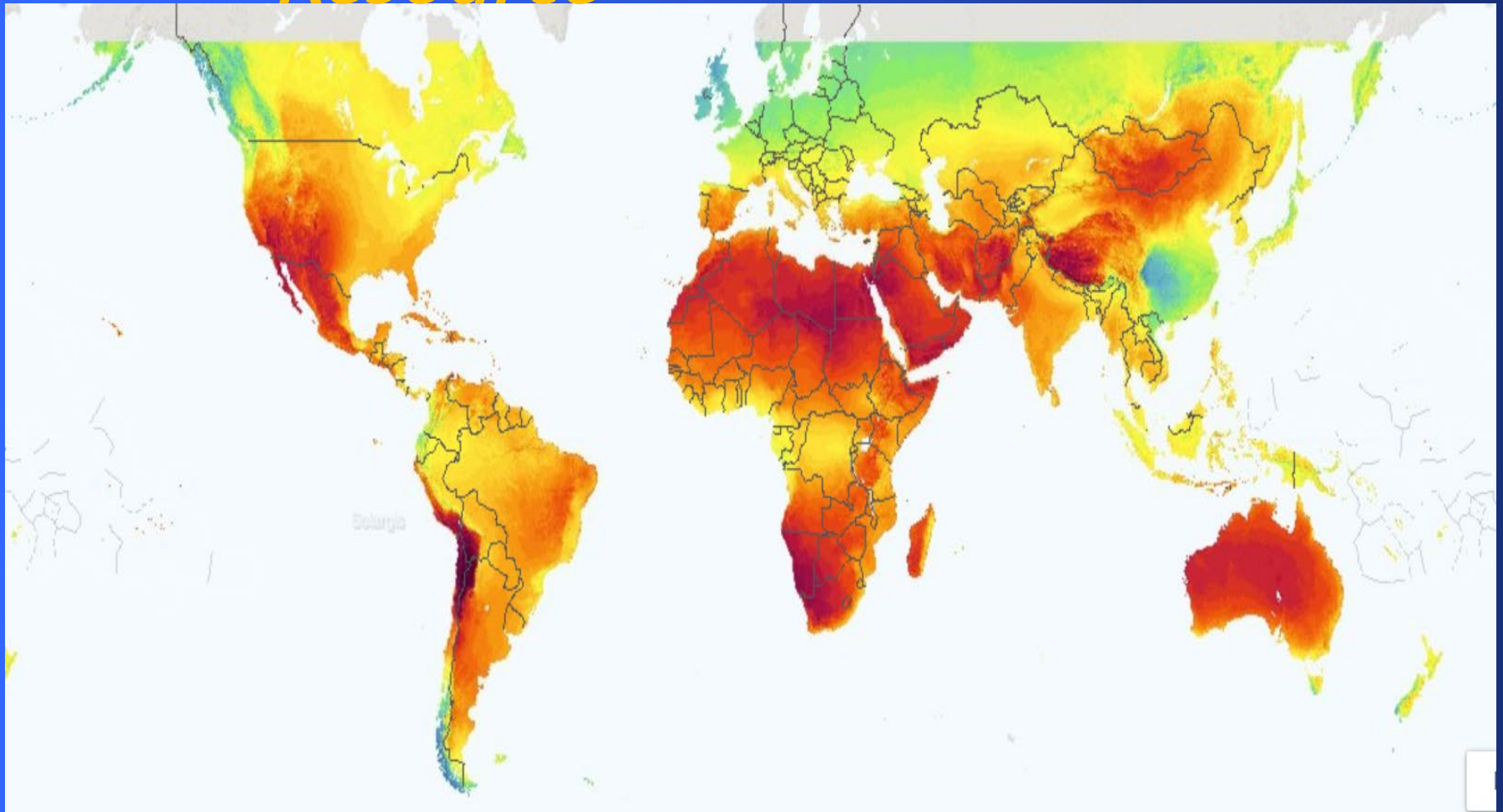


b. Peak and 2100 global warming across scenario categories, IMPs and SSPx-y scenarios considered by AR6 WG1





Global Solar Resource



Thanks !