

**ASIA PACIFIC ECONOMIC COOPERATION (APEC)
NEW AND RENEWABLE ENERGY TECHNOLOGIES EXPERT GROUP (EGNRET) MEETING
42TH MEETING**

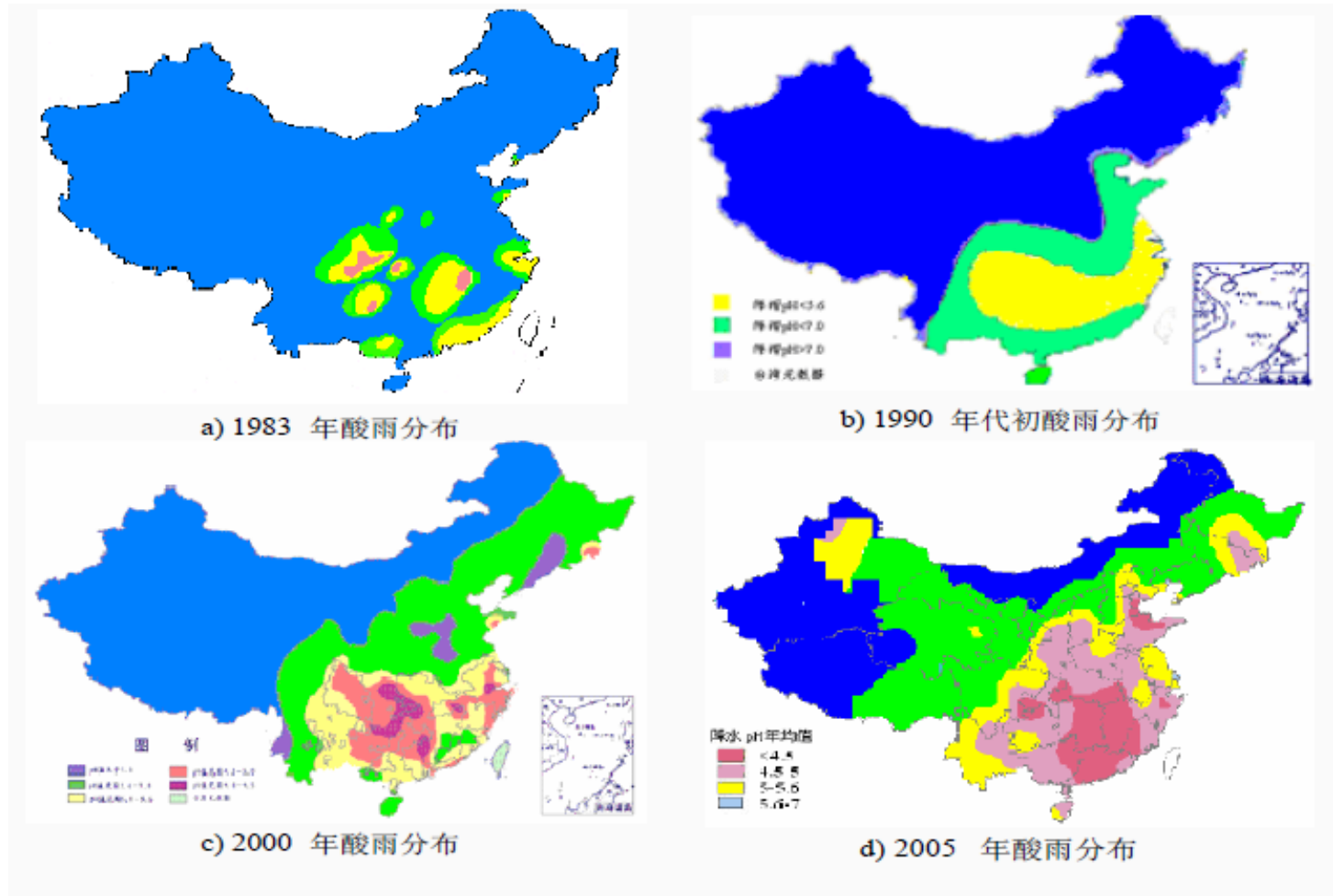
The Promotion of Biofuels in Transportation Sector in China

**Mr. Lin WAN
Hawaii, April, 2014**

China's Environmental Pressure



(Resource: ERI, China)

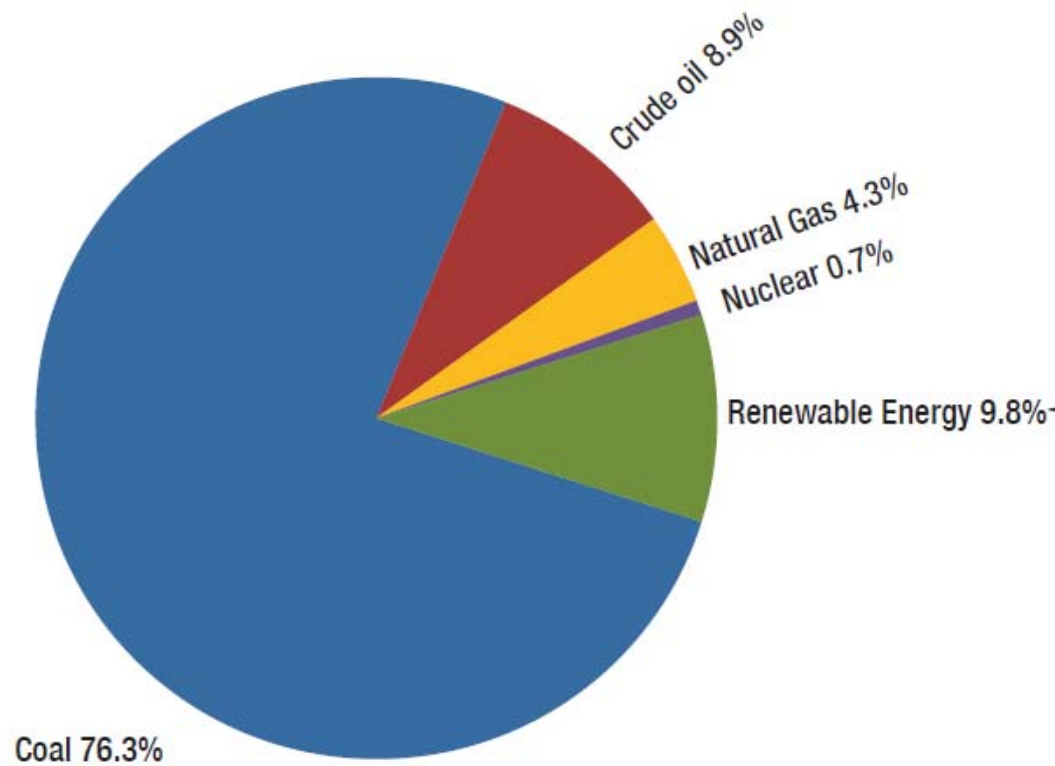


China's primary energy production 2012

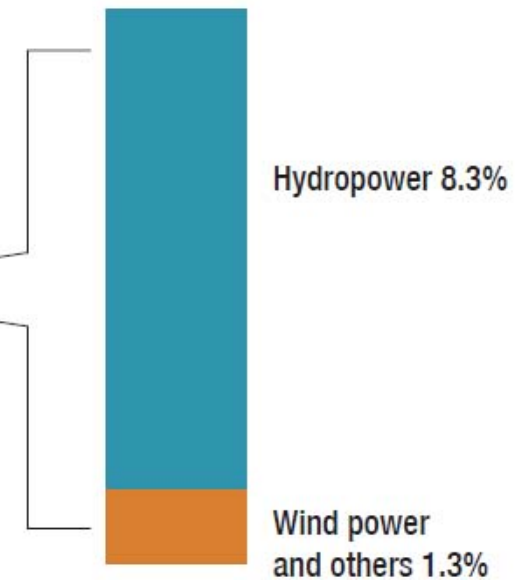


(Resource: China Renewable Energy Outline 2012)

2012 China's total energy production: 3.33 billion tce



Renewable energy total 330 million tce



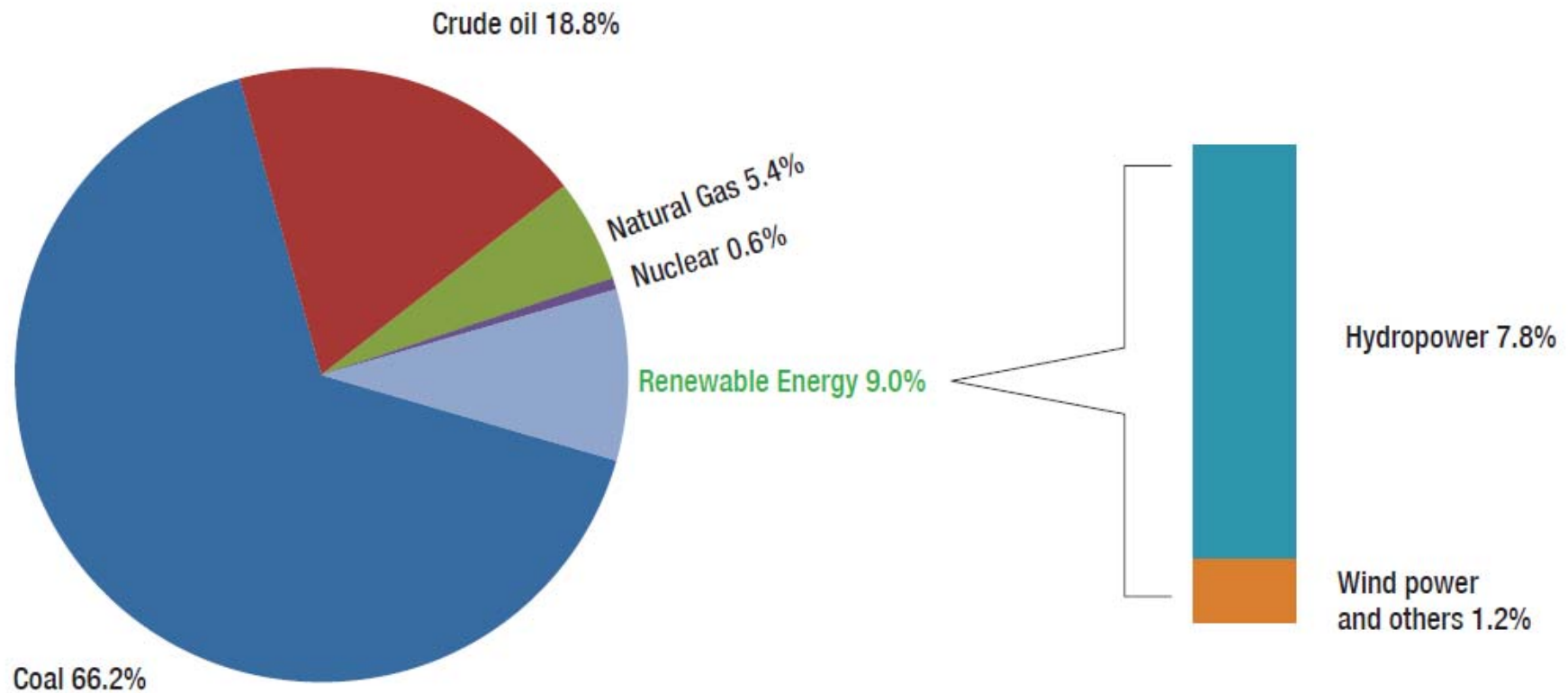
China's primary energy consumption 2012



(Resource: China Renewable Energy Outline 2012)

The total energy consumption in China in 2012: 3620 million tce

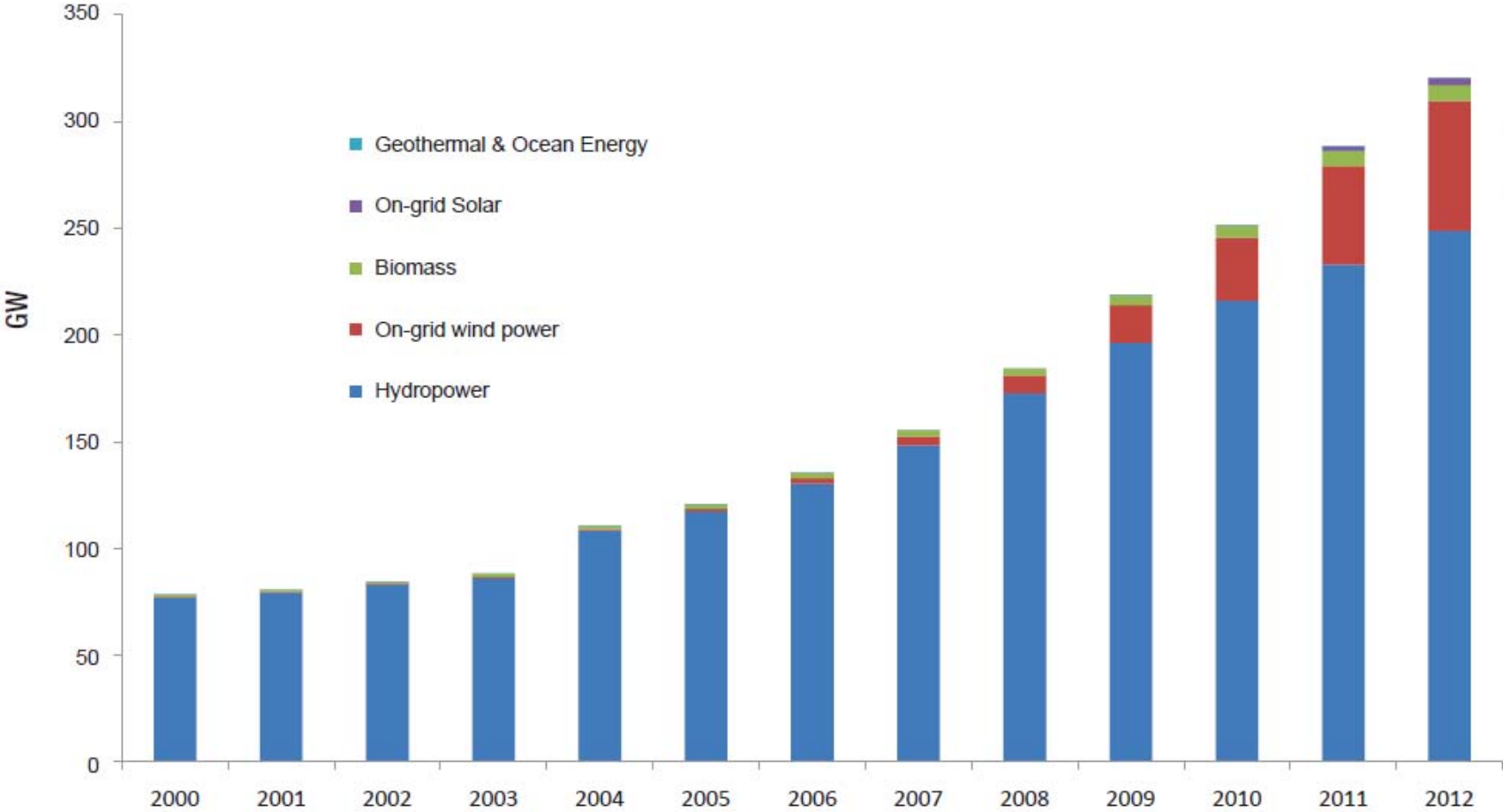
Renewable energy total 330 million tce



Renewable energy generation capacity



(Resource: China Renewable Energy Outline 2012)

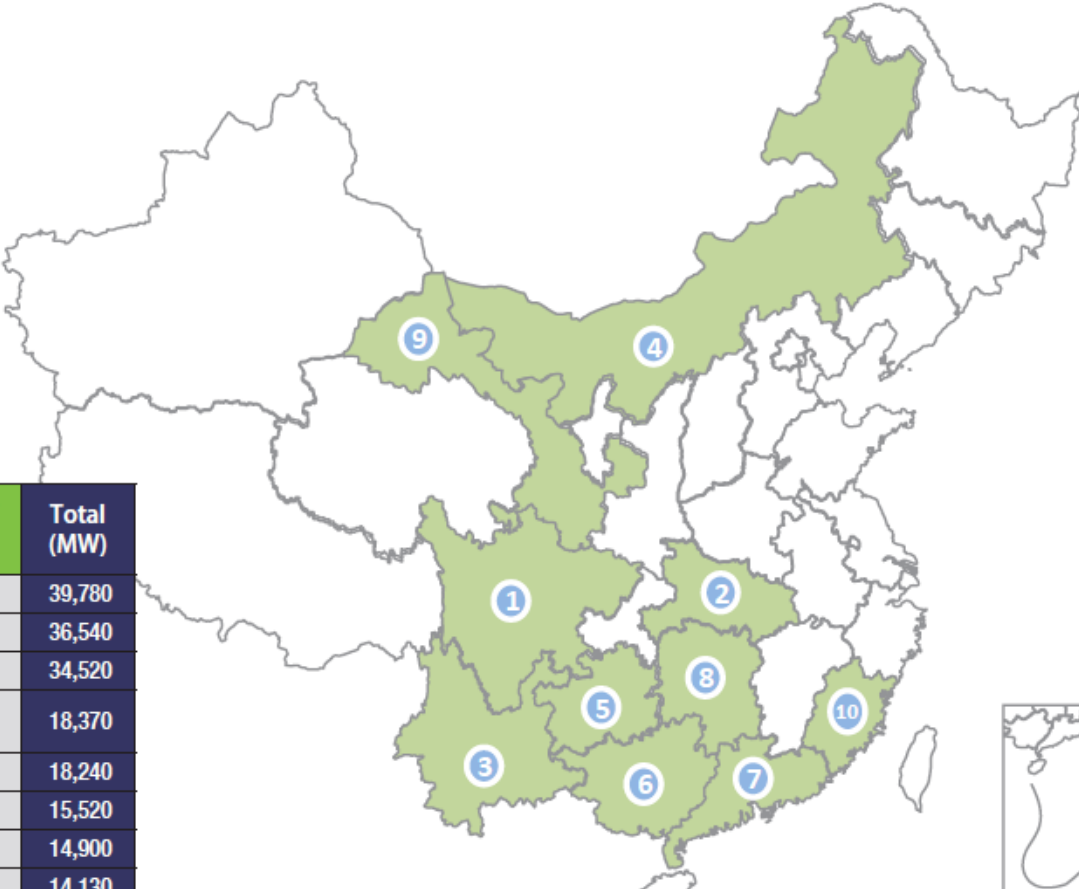


Main renewable energy area



2012 renewable energy power capacity

	Hydropower (MW)	Wind Power (MW)	Solar Power (MW)	Biomass Power (MW)	Total (MW)
Sichuan	39,640	20		116	39,780
Hubei	35,950	170	12	406	36,540
Yunnan	33,060	1,310	30	122	34,520
Inner Mongolia	1,080	16,930	210	151	18,370
Guizhou	17,280	960		-	18,240
Guangxi	15,360	100		60	15,520
Guangdong	13,060	1,390	8	439	14,900
Hunan	13,720	190		218	14,130
Gansu	7,300	5,970	380	1	13,650
Fujian	11,400	1,130	1	208	12,740



Source: hydropower, wind power, solar power: 2012 Power Industry statistics compilation; Biomass Power Generation: 2012 annual statistical report Chinese biomass power generation by China Renewable Energy Engineering Institute

Biomass power capacity and generation



Main biomass power area



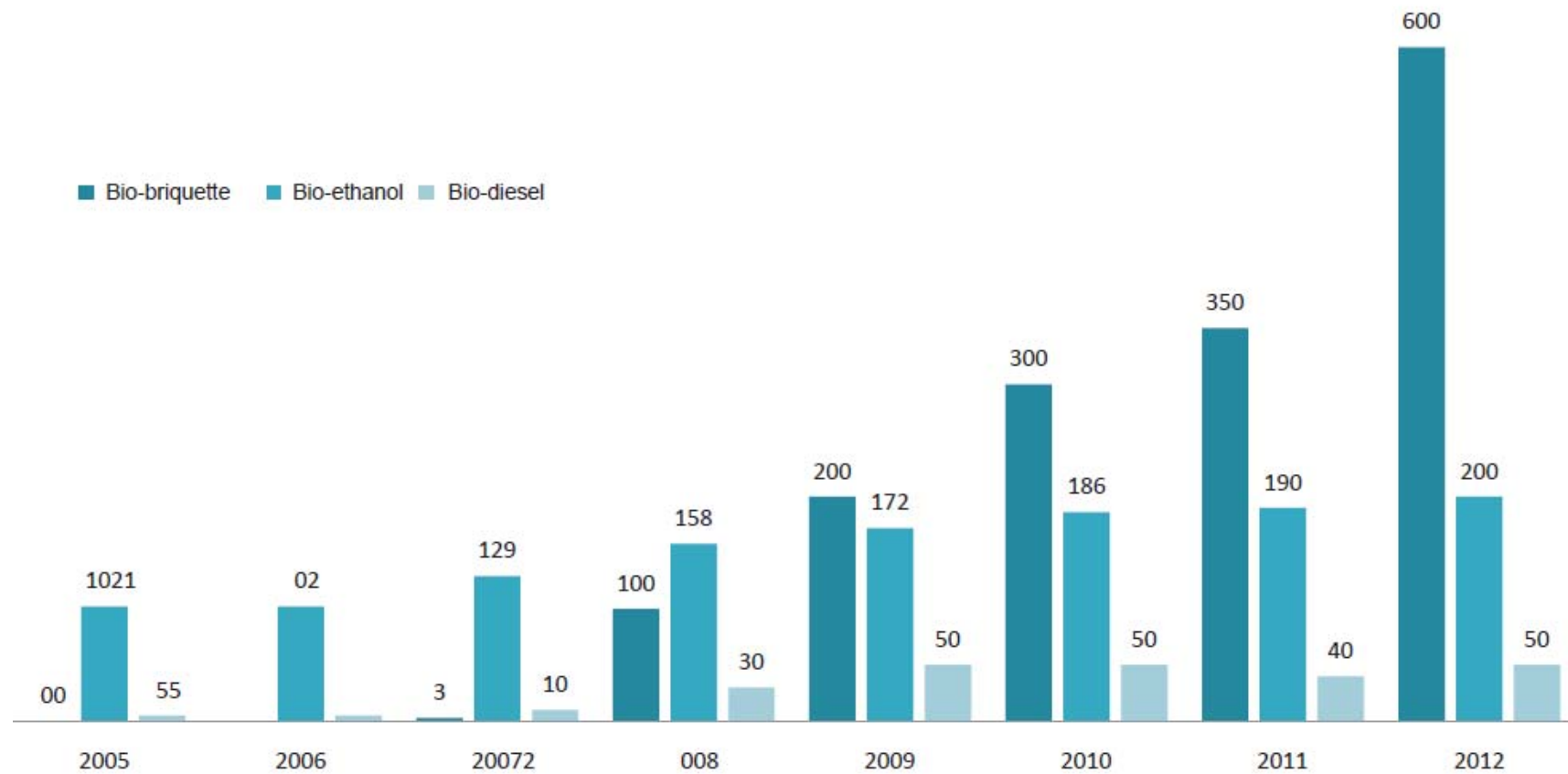
	Province	MW
1	Shandong	1,089
2	Henan	640
3	Jiangsu	554
4	Heilongjiang	524
5	Hubei	475
6	Guangdong	442
7	Anhui	388
8	Hebei	367
9	Inner Mongolia	320
10	Zhejiang	290

Source: China National Renewable Energy Centre - Renewable Energy Project Database

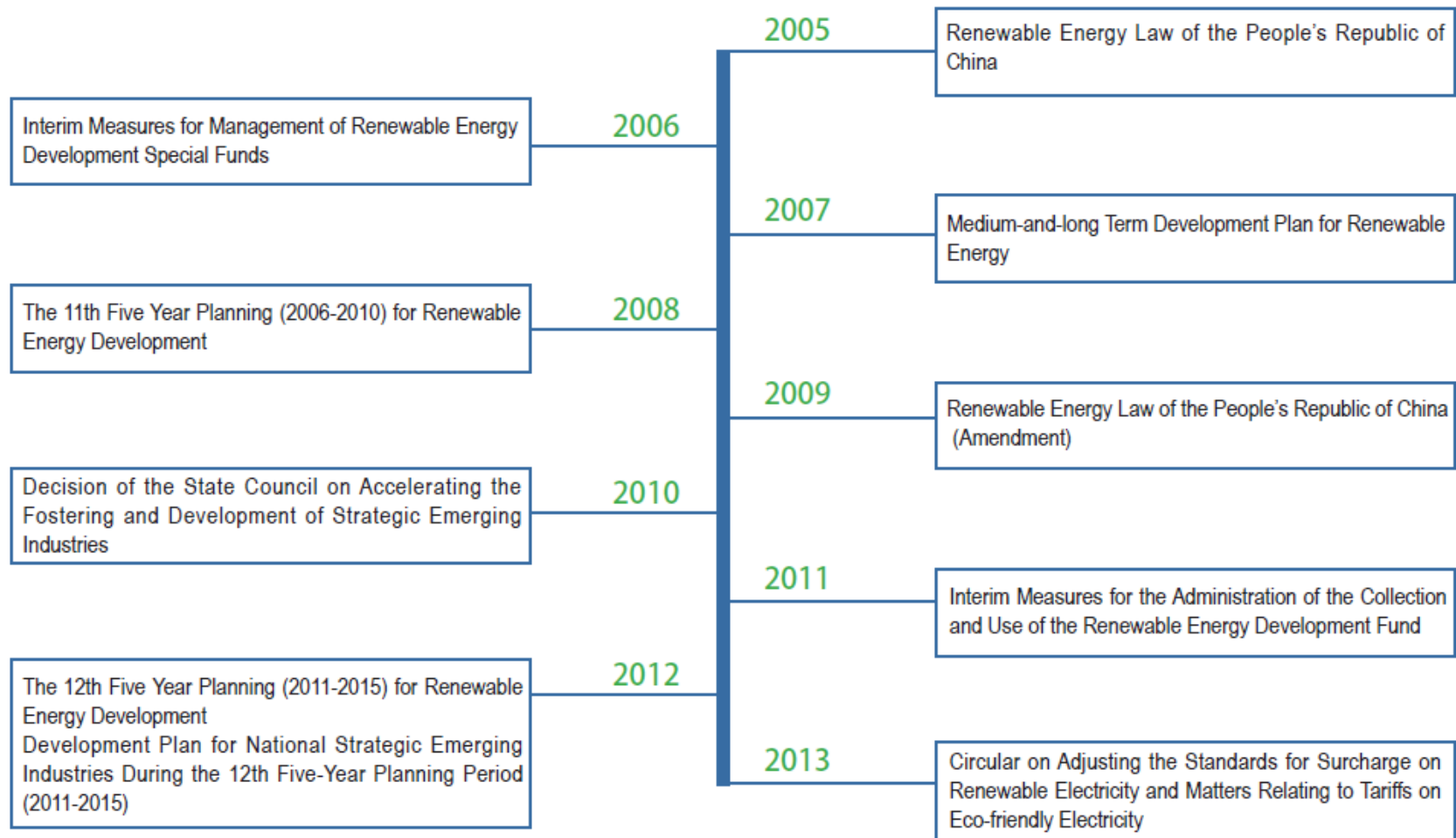
China's Production of Biofuel



(10 thousand ton)



China's RE policy



China's RE Targets 2015



Scale of utilization	
Power generation	
1 Hydropower	260 GW
2 On-grid wind power	100 GW
3 Solar power	35 GW
4 Biomass power	13 GW
Biogas	
1 Biogas user	50 million households
2 Industrial organic wastewater biogas	1000 projects
Heating and cooling	
1 Solar water heaters	400 million square meter
2 Solar cookers	2 million units
3 Geothermal heating and cooling	580 million square meter
4 Geothermal hot water	1.2 million households
Bio-fuel	
1 Biomass briquette	10 million tons
2 Bio-ethanol	4 million tons
3 Biodiesel	1 million tons

Application in transportation



- Huge market in future
- Cooperation within APEC region
- Important progress in Aeronautics industry
 - Oct 2011, first China's airplane use biofuel
- Bus & Public Transportaion
- Shipping



Thank you for your precious time



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- Mr. WAN Lin graduated from Renmin University of China in 1994, majored in Industrial Economics and International Economics.
- He joined China Classification Society, CCS in 1994, having worked as strategy researcher, production inspector, project manager, cooperation department manager, assistant to Chairman of International Association of Classification Society (IACS). He was appointed as the general manager of China Classification Society London branch in 2003.
- In 2005, he acquired the Master degree in MSc Shipping, Trade and Finance at CASS business school, City University, London. He went to the US for Tri-State (New York, New Jersey, Connecticut) Maritime Cluster Research sponsored by the Baltic Exchange scholarship in 2005.
- He joined China General Certification Centre (CGC) as vice president in 2008, in charge of PV, solar thermal business, as well as Strategy & International Cooperation.
- He is CCAA Senior Auditor, member of China's national PV standard committee and IEC, and main contact window in renewable energy cooperation between China and US, EU, AFRICA, APEC, BRICS, Mainland and Taiwan, as well as Co-Chairman of WG Standard, Testing & Certification in China-US RE cooperation, and steering committee member of PV Quality Assurance Forum.