

CHINA POWER INTERNATIONAL DEVELOPMENT LIMITED

2021 Annual Results
Presentation

For the year Ended 31 December

Stock Code: 2380.HK

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01. Results Highlights

02. Business Review

03. Future Prospects

04. Appendices



Part of Results Highlights

Income Statement

Items	2021	2020	Change
Revenue (RMB 000's)	34,734,288	28,427,721	+22.18%
Fuel costs(RMB 000's)	-17,937,891	-10,876,072	+64.93%
Other Operating Costs(net) (RMB 000's)	-12,195,530	-11,179,789	+9.09%
Operating Profit (RMB 000's)	4,600,867	6,371,860	-27.79%
Profit Attributable to Equity Holders of the Company(RMB 000's)	-515,693	1,708,305	-
Basic EPS(RMB)	-0.07	0.17	-
Proposed DPS(RMB)	0.05	0.13	-61.54%
EBITDA	10,360,683	12,020,967	-13.81%

Balance Sheet

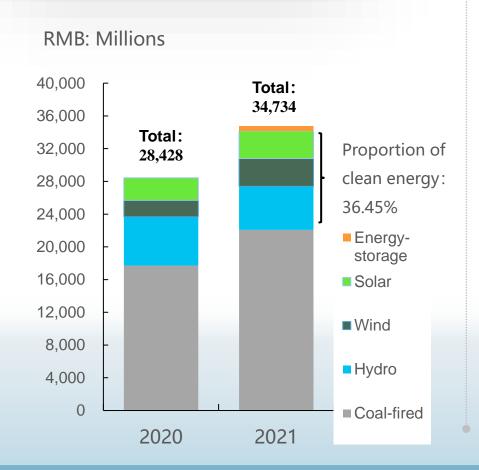
Items	2021.12.31	2020.12.31	Change
Total Assets (RMB 000's)	174,754,102	155,948,671	+12.06%
Total Liabilities(RMB 000's)	122,869,305	110,158,754	+11.54%
long-term debts	77,333,483	66,880,887	+15.63%
short-term debts	45,535,822	40,556,194	+12.28%
Total Equity(RMB Millions) (including non-controlling interests)	51,884,797	45,789,917	+13.31%
Total Liabilities to Total Assets(%)	70.31%	70.64%	-0.33 ppts
Net Debt to Total Equity(%)	200.74%	196.80%	+3.94 ppts



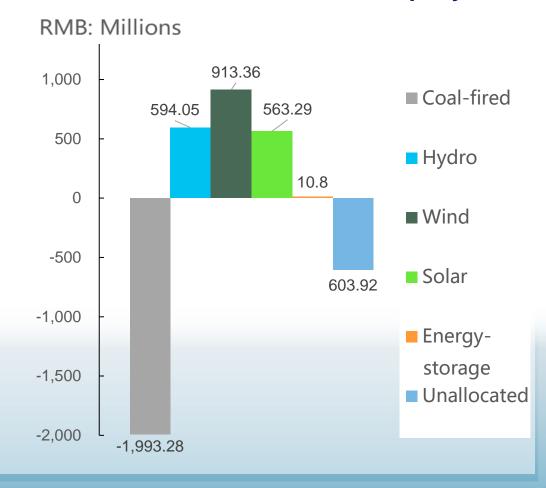
Part 02 Business Review

Revenue & Profit Structure

Revenue & Profit Structure



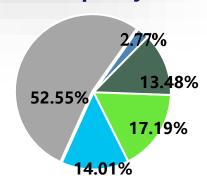
Net Profit Attributable to Equity Holders of the Company





Capacity

Attributable Capacity: 24,960.8 MW

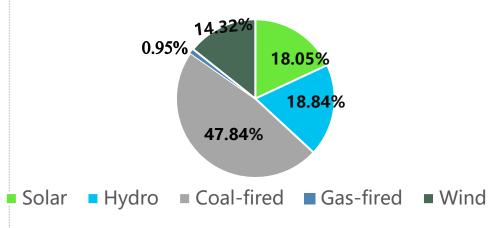


■ Solar ■ Hydro ■ Coal-fired ■ Gas-fired ■ Wind

Changes in Attributable Capacity in 2021

Types	Attributable Capacity (MW)	Locations
Wind	1374.1	Shanxi、Henan, etc
Solar	901.1	Inner Mongolia、Ningxia, etc
Coal- fired	-1,368	Shanxi、Anhui
Gas- fired	186.1	Hubei、Guangdong
Hydro	-10.7	Sichuan

Consolidated Capacity: 28,931.9MW

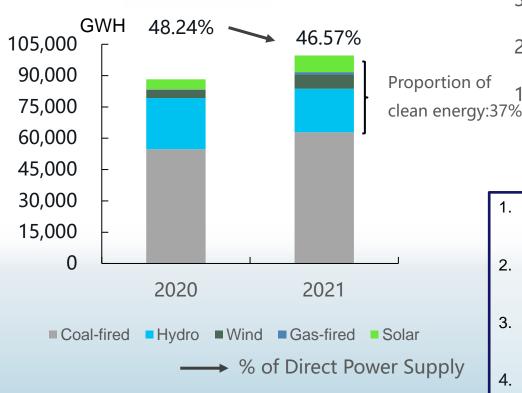


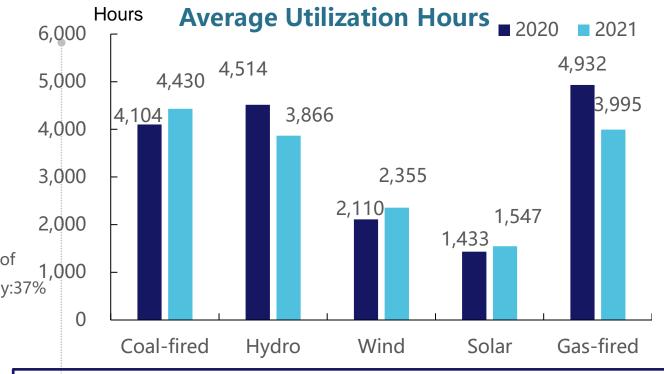
Changes in Consolidated Capacity



Generation

Net Power Generation (98,794GWH in 2021)

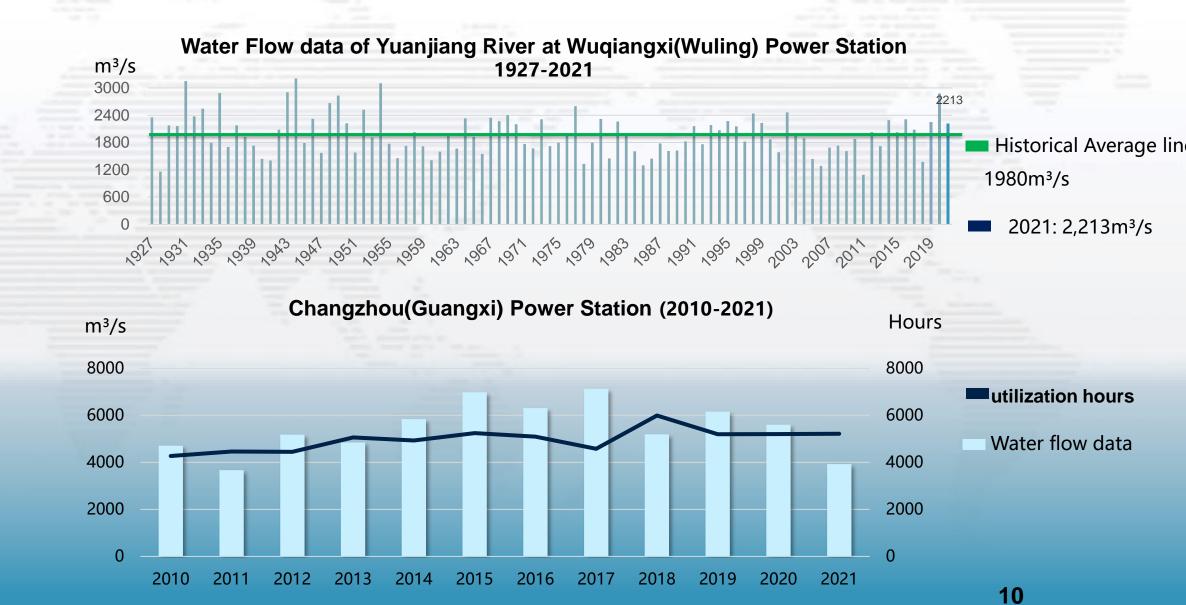




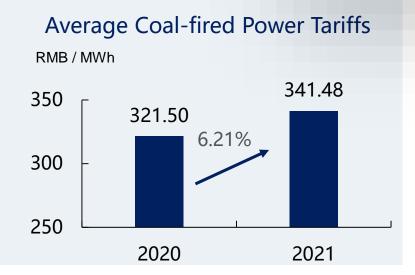
- The average utilization hours of hydropower generating units decreased due to the decrease in the amount of rainfall in the river basins where most of the Groups hydropower plants are located.
- 2. The average utilization hours of wind power and photovoltaic power generating unit raised attributable to the results achieved from effective facility maintenance and higher average utilization hours of the newly operating generating units.
- 3. The average utilization hours of the coal-fired power generating units increased attributable to the recovery of power consumption driven by the year-on-year increase in electricity demand during the year.
- 4. The average utilization hours of the natural gas power generating units decreased due to lower average utilization hours of the newly operating generating units.

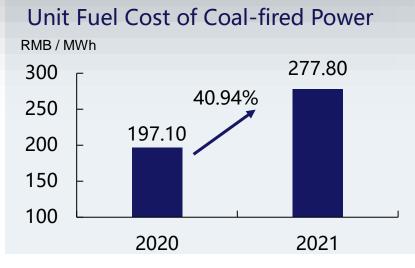


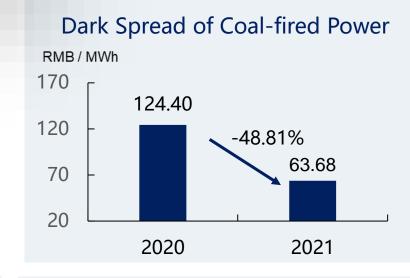
Hydropower

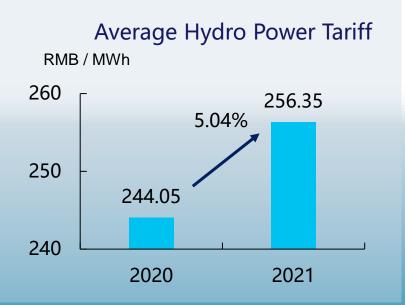


Tariffs (before taxation) and Unit Fuel Cost

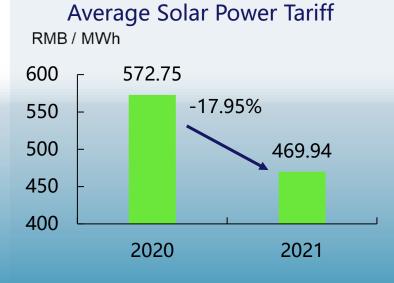




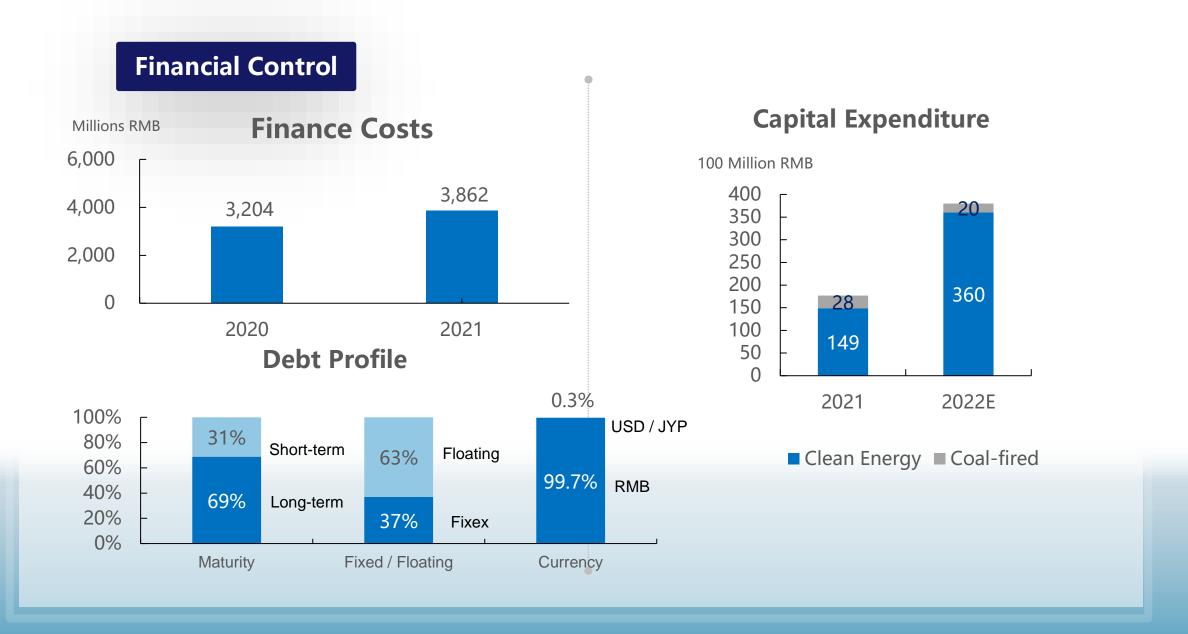










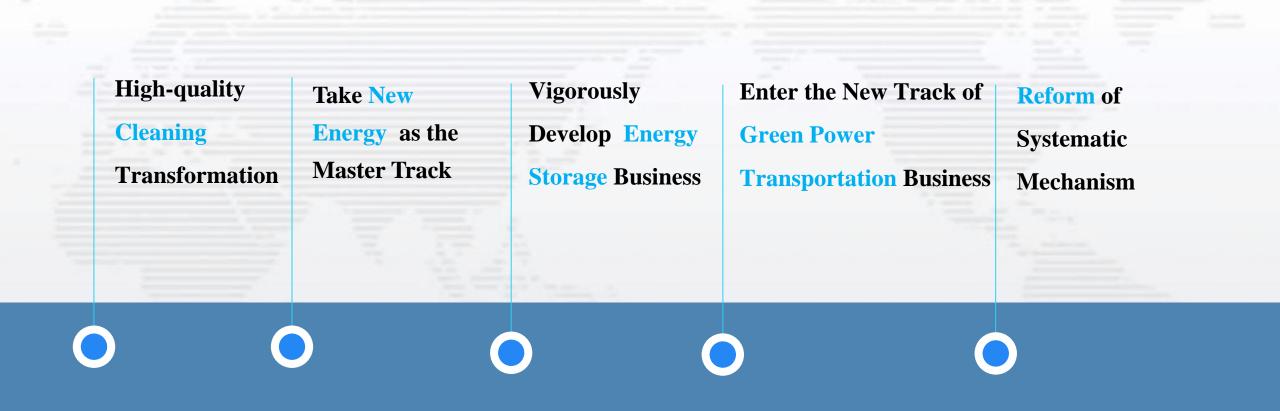






Part 13 Future Prospects

High-quality Cleaning Transformation



High-quality Cleaning Transformation



Cleaning Transformation

The Company's installed capacity of clean energy has exceeded 50% at present, strives to exceed 60% in 2022, and targets to achieve 90% by 2025.



Development of New Energy

The large base projects regarding "three types and one area", two "integrated" projects, offshore wind power projects, market development in the county areas and other fields have been fully developed, and the number of reserve projects has exceeded **70GW**.



Disposal of Low Efficiency Coal-fired Power Assets

In 2021, the consolidated capacity of coal-fired power decreased by 1.2GW and the attributable capacity of it decreased by 1.37GW. The company will continue to accelerate the disposal of low efficiency coal-fired power assets in 2022.



New Energy

Safeguard Power Supply

High-quality safeguard coal power with low energy consumption and high efficiency will be retained; its advantages of good cash flow and strong peak shaving ability will be utilized to fully support the development of new energy.

Electrochemical Energy Storage

The industry Star of Electrochemical Energy Storage – Xinyuan Smart Storage



Provide modular combination, mobile deployment, containerized energy storage solutions and energy management cloud platform services



Establish Xinyuan Smart Storage in a holding manner



Within half a year of its establishment, the business scale of energy storage has achieved nearly **688MWh**, and is expected to reach **3GWh** – **5GWh** in 2022.

Develop independent shared energy storage station;

Establish thermal power auxiliary service energy storage;

Actively probe into the customer-side demand response energy storage;

Intensify the technology research and development, integrated application of energy storage. 16

Green Power Transportation

To be the industry leader in the green power transportation industry— **Qiyuanxin Power**

Currently, Qiyuanxin Power manages nearly 100 battery swapping / charging stations.

The largest shareholder of Shanghai Qiyuanxin Power Technology Co., Ltd.



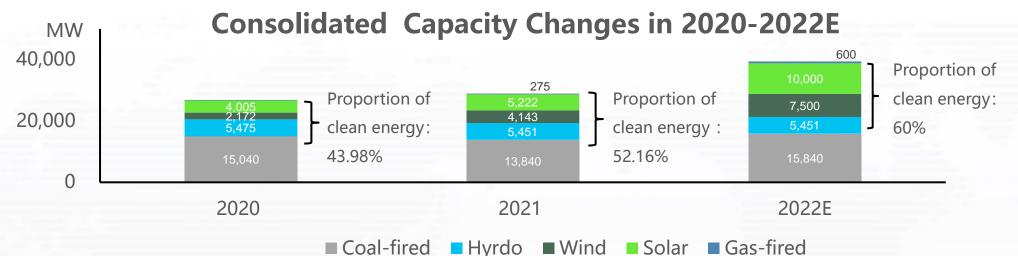
Achieved universal coverage of all business situations including steel mills, mines, power plants, cities and trunk roads.

Reform of Systematic Mechanism

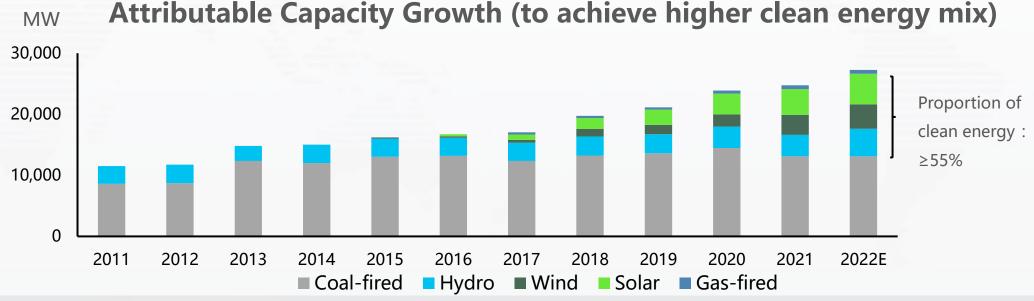




Pipeline Projects



^{*} The consolidated capacity of clean energy exceeded 50% by the year-end of 2021, and is targeted to achieve 60% before the year-end of 2022.



Dividend Policy & Guidance







Part 14 Appendices

Operating Highlights

	2021	2020	Change
Attributable capacity (MW)	24,960.80	23,878.20	+4.53%
Consolidated capacity (MW)	28,931.90	26,845.80	+ 7.77%
coal-fired	13,840	15,040	-7.98%
clean energy	15,091.90	11,805.80	+27.83%
Gross generation (MWh)	103,048,687	91,902,510	12.13%
coal-fired	66,630,939	57,999,478	+14.88%
clean energy	36,417,748	33,903,032	+7.42%
Average utilization hours			
coal-fired	4,430	4,104	+7.94%
——hydro	3,866	4,514	-14.36%
Average realized tariffs (RMB/MWh)			
coal-fired	341.48	320.50	+6.21%
——hydro	256.35	244.05	+5.04%
Net coal consumption rate(g/KWh)	301.16	303.31	-0.71%



Income Statement

(RMB'000)	2021	2020	Change
Revenue	34,734,288	28,427,721	+22.18%
Fuel costs	-17,937,891	-10,876,072	+64.93%
Other operating costs (net)	-12,195,530	-11,179,789	+9.09%
Operating profit	4,600,867	6,371,860	-27.79%
Finance income	126,603	330,352	-61.68%
Finance costs	-3,861,500	-3,203,698	+20.53%
Share of profits of associates	-213,524	283,952	-
Share of profits of joint ventures	-119,280	43,661	-
Pre-tax profit	533,166	3,826,127	-86.07%
Taxation	-361,947	-900,576	-59.81%
Profit for the period	171,219	2,925,551	-94.15%
Profit Attributable to Equity Holders of the Company (RMB 000's)	-515,693	1,708,305	-
EPS (RMB)	-0.07	0.17	_



Controlling Shareholder

State Power Investment Corporation (SPIC)

SPIC, as the shareholder of China Power, is a wholly State-owned enterprise established by the approval of the State Council of the PRC. The business of SPIC includes power, coal, aluminum, logistics, finance, environmental protection and high-tech industries, and is the only comprehensive energy corporation which owns nuclear, hydro, thermal and other types of clean energy assets within China.

Capacity Structure of SPIC

(Total capacity exceeds 195GW, capacity of clean energy exceeds 60%)

Hydro	Wind	Solar	Thermal	Nuclear
24.6 _{GW}	38.2 _{GW}	41.1 _{GW}	75.2 _{GW}	8.1 _{GW}

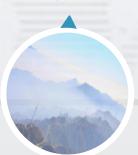


China Power



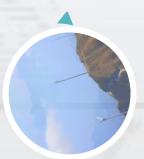
24 March 2004

Incorporated in *Hong* Kong with limited liability under the Hong Kong Companies Ordinance. Being a core subsidiary for conventional energy business of SPIC-which simultaneously owns coal-fired power, hydropower, nuclear power and renewable energy resources in the PRC.



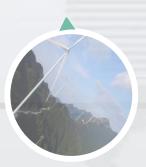
15 October 2004

Listed on The Main Board of the Hong Kong Stock Exchange on 15 October 2004 with the stock code 2380. In addition to the coal-fired power business in the start-up stage, the Company has expanded its business into the areas of, among others, hydropower, wind power, photovoltaic power, electricity sales and distribution and integrated energy through continuous development over the past 15 years. Various business segments are growing orderly along with the constant expansion of the Group.



December 2006

Acquired 3.9 billion worth of Astock shares of Shanghai Electric Power Co., Ltd.

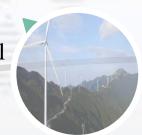


China Power



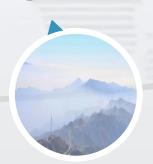
31 December 2021

The total consolidated capacity was 28931.9 MW, of which attributable consolidated capacity of clean energy was 15091.9 MW, accounting for 52.16% of all attributable consolidated capacity.



2009

Acquired 63% of shares of Wuling Power Corporation Ltd.





2018

Acquired 100% shares of each Guangxi Power, Shandong Power, Hubei Power and Anhui Power.

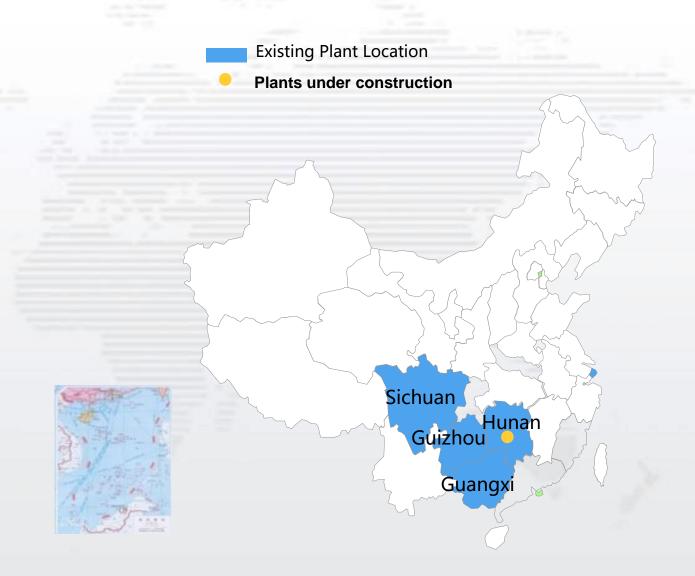
July 2021

Formed Xinyuan Smart Storage as a joint venture company and officially foray into the energy storage field.

As of 31 December 2021, the energy storage segment recorded a **profit of 42.09 Million RMB**.

Hydropower Plants Distribution

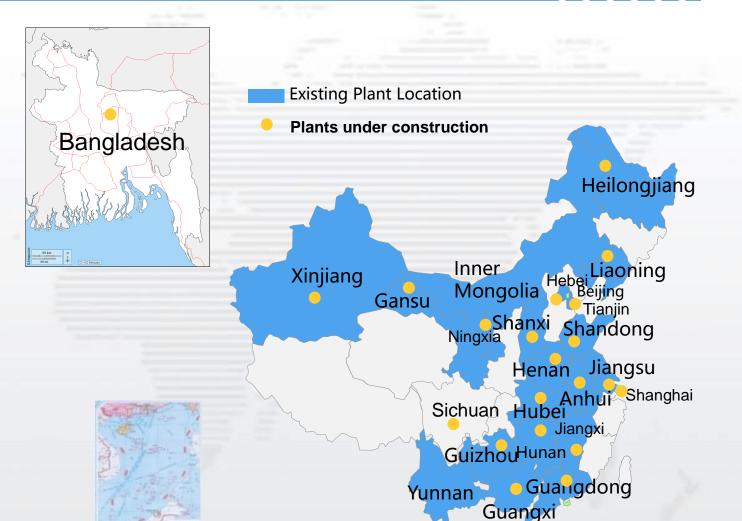




Plans	Capacity(MW)	Equity	Locations	
	In Operat	tion		
Wuqiangxi	: 1,200	63%	Hunan	
Sanbanxi:	1,000	59.85%	Guizhou	
Tuokou:	830	63%	Hunan	
Changzho	u: 630	78.95%	Guangxi	
Baishi:	420	59.9%	Guizhou	
Lingjintan:	270	63%	Hunan	
Hongjiang	270	63%	Hunan	
Wanmipo:	240	63%	Hunan	
Guazhi :	150	59.85%	Guizhou	
Others:	441.1	9.13-63%		
Under Construction				
Wuqiangxi:	500	63%	Hunan	

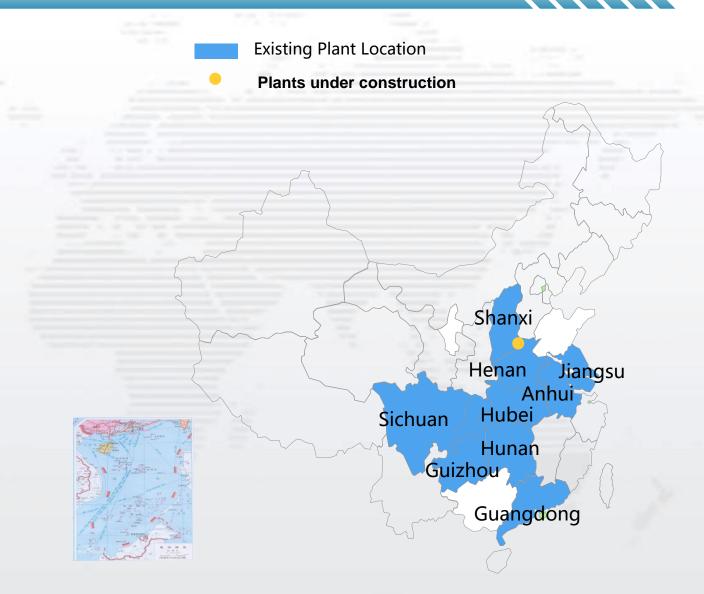
Wind & Solar Power Plants Distribution





Plans	Capacity(MW	Equity	Locations
	Wind Farms in	Operation	
Anqiu	208	51%	Shandong
Xing'an	694.4	95%	Guangxi
Tuokexun	49.5	63%	Xinjiang
Shanshan	99	63%	Xinjiang
Yaoposha	an 50	63%	Hunan
Donggan	gling 50	63%	Hunan
Gulang:	100	44.1%	Gansu
Total:	4143.3	32-100%	
	Solar Farms in	Operation	
Solar Fari	ms: 4,005.1	44.1-10	00%
Wind and Solar Farms Under Construction			
Wind Far	1,100	32.1-1	00%
Solar Farn	ns: 2,800	32.1-1	00%

Thermal Power Plants Distribution





Plants	Capacity(MW)	Equity	Locations
	In Operation	on	
Pingwei :	2×630	60%	Anhui
Pingwei II:	2×640	60%	Anhui
Pingwei Ⅲ:	2×1,000	60%	Anhui
Yaomeng :	3×300+2×630	100%	Henan
Dabieshan:	2 x 640 + 2 x 660	51%	Hubei
Fuxi:	2×600	51%	Sichuan
CP Shentou	: 2×600	80%	Shanxi
Wuhu:	2×660	20%	Anhui
Pu'an	1×660	95%	Guizhou
Shangqiu(co	o-gen): 2×350	100%	Henan
Changshu:	2×1,000+4×330	50%	Jiangsu
CP Shentou	: 2×600	54%	Shanxi
Xintang(co-	gen): 2×300	50%	Guangdong
Liyujiang:	2×300	25%	Hunan
Sujin Energy	2,983.2	9.5%	Shanxi
Under Construction			
CP Shentou	II: 2×1,000	100%	Shanxi



