



China Power International Development Limited

2018 Annual Results Presentation

22 March 2019

2380.HK



中國電力國際發展有限公司 China Power International Development Limited

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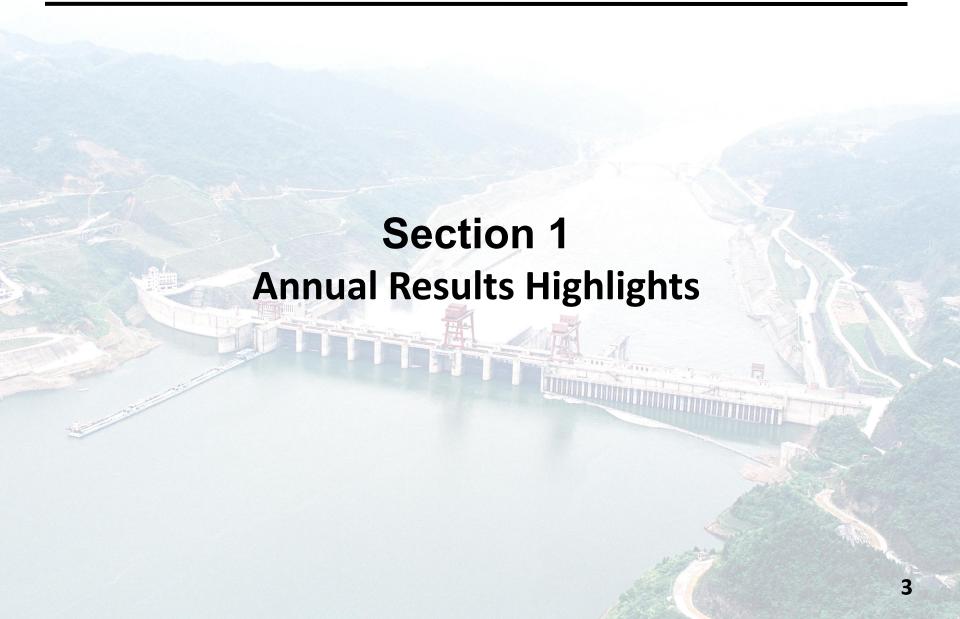
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- > Annual Results Highlights
- Business Review
- > Future Development and Prospects
- > Financial Statements and Appendices







Results Highlights

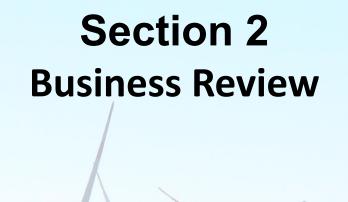
| Income Statement | 2018 | 2017 | Change |
|--|--------------|-------------|--------|
| Revenue (RMB 000's) | 23,175,626 | 19,966,811 | 16.07% |
| Fuel costs(RMB 000's) | (11,020,697) | (9,549,980) | 15.4% |
| Other Operating Costs(net) (RMB 000's) | (7,740,588) | (7,308,377) | 5.91% |
| Operating Profit (RMB 000's) | 4,414,341 | 3,108,454 | 42.01% |
| Profit Attributable to Owners of the Company (RMB 000's) | 1,098,355 | 795,272 | 38.11% |
| Basic EPS(RMB) | 0.11 | 0.10 | 10% |
| Proposed DPS(RMB) | 0.110 | 0.081 | 35.8% |



Results Highlights

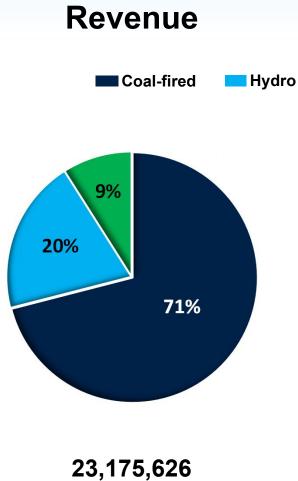
| Balance Sheet | 31 Dec 2018 | 31 Dec 2017 | Change |
|--|-------------|-------------|-----------|
| Total Assets (RMB Millions) | 124,959 | 98,027 | 27.47% |
| Total Liabilities(RMB Millions) | 82,108 | 60,832 | 34.97% |
| long-term debts | 49,583 | 29,612 | 67.44% |
| short-term debts | 15,335 | 22,028 | -30.38% |
| Total Equity(RMB Millions) (including non-controlling interests) | 42,851 | 37,195 | 15.21% |
| Total Liabilities to Total Assets(%) | 65.71 | 62.06 | 3.65ppts |
| Net Debt to Total Equity(%) | 147.17 | 126.53 | 20.64ppts |







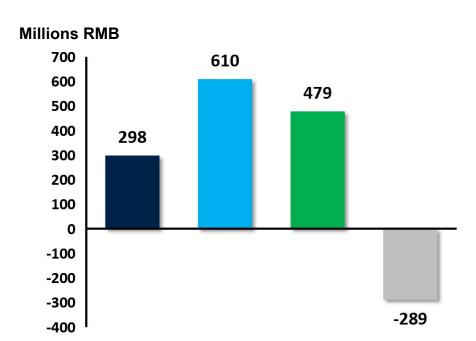
Revenue and Profit Structure



Profit Attributable to Owners of The Company

Unallocated

Wind & Solar



1,098,355 (RMB 000's)



Capacity

Attributable Capacity: 19,731.6MW

Consolidated Capacity: 21,439.2MW



X All the gas-fired power capacity are attributable to Shanghai Power

Consolidated Capacity Change



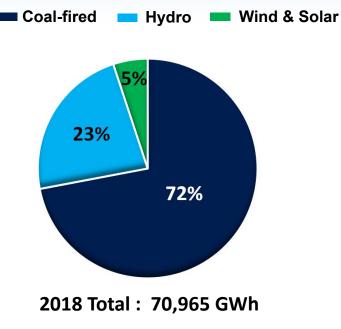
| Newly Added Capacity in 2018 | | | | | |
|------------------------------|--------------|------------------------|--|--|--|
| Туре | Capacity(MW) | Location | | | |
| Coal-fired | 1,010 | Guizhou, Henan | | | |
| Hydro | 630 | Guangxi | | | |
| Wind | 914.5 | Guangxi, Shandong,etc. | | | |
| Solar | 1,057.5 | Anhui, Hubei, etc. | | | |



Generation



Average Utilization Hours



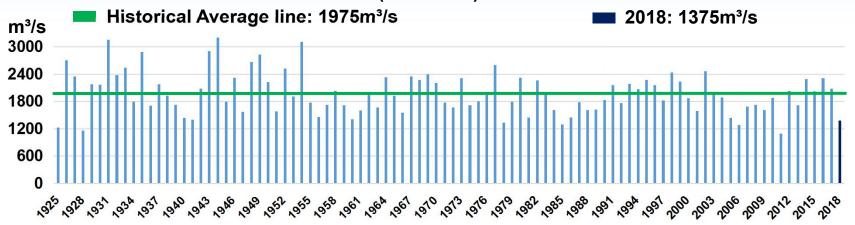


- 1. The coal-fired power utilization hours rebounded significantly due to the increased electric power consumption and the Group's proactive efforts in power marketing.
- 2. The hydropower utilization hours dropped yoy in 2018 as a result of low rainfall in the river basins where some of hydropower plants are located.
- 3. The wind power utilization hours increased 6% yoy. The solar power utilization hours decreased 9% yoy.

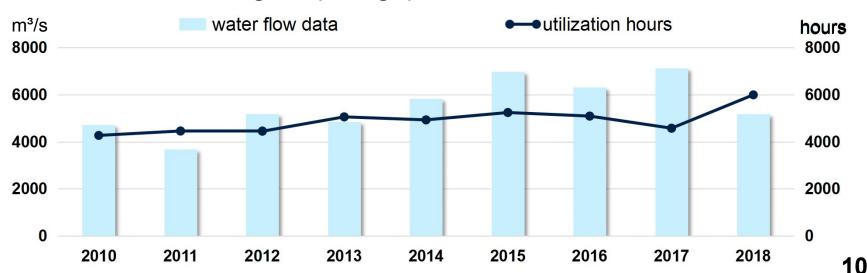


Hydropower

Water Flow data of Yuanjiang River at Wuqiangxi(Hunan) Power Station (1925-2018)

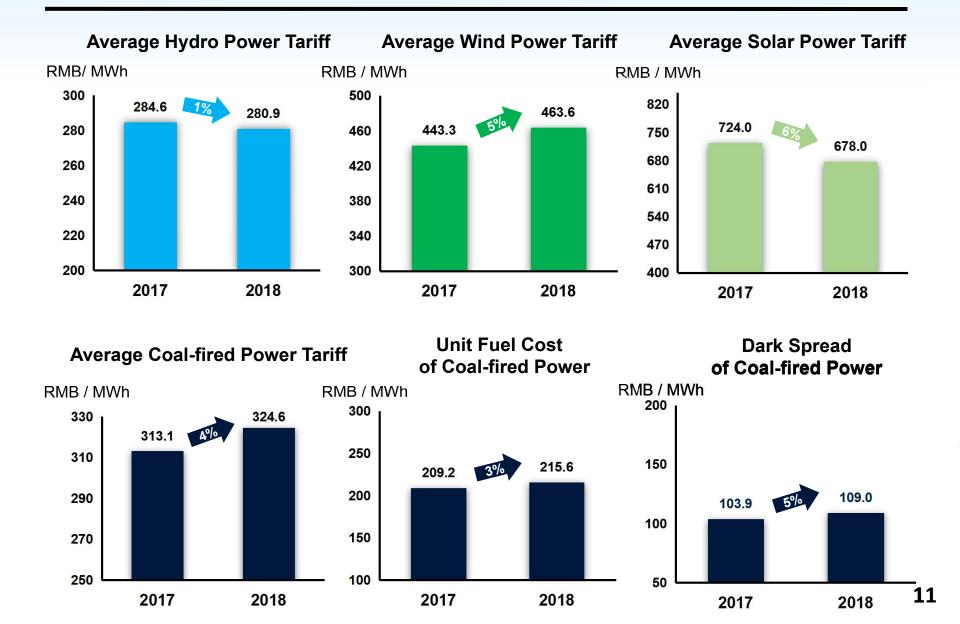


Changzhou(Guangxi) Power Station (2010-2018)

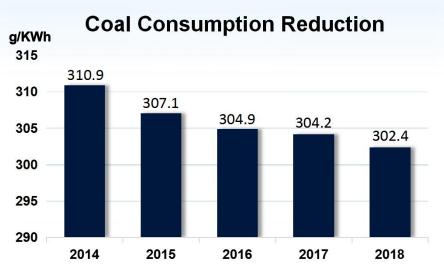


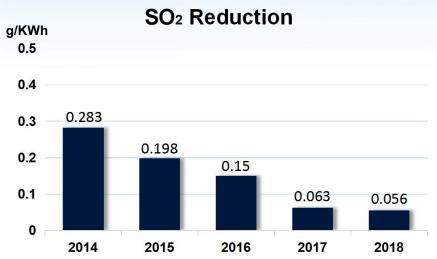


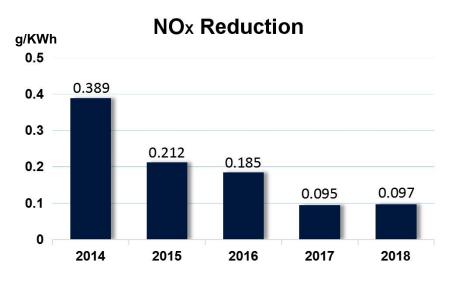
Tariffs and Unit Fuel Cost

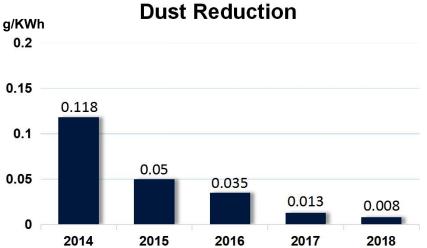


Energy Saving and Emission Reduction







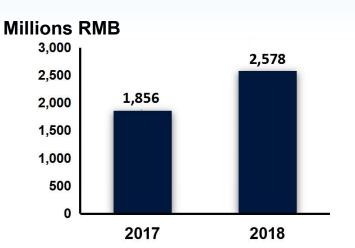


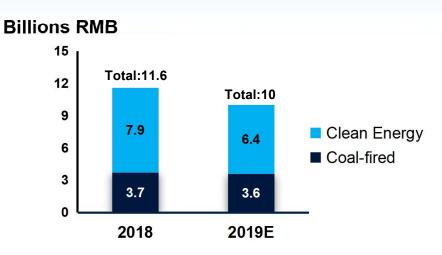


Financial Control

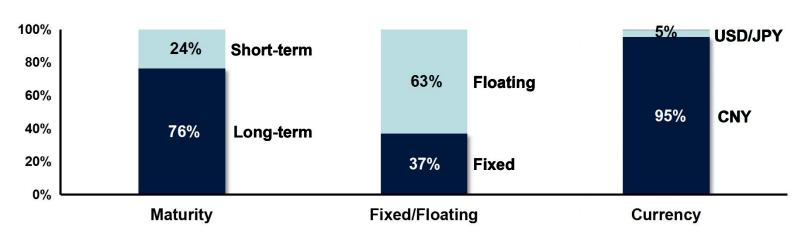


Capital Expenditure





Debt Profile





Section 3 Future Development and Prospects

Transforming into a Clean Energy Company

I . Developing Clean Energy

- ➤ Expansions focusing on clean energy (on-shore wind farms in Zone 4, off-shore wind farms near Guangdong and Shandong coastal area, top-runner solar farms or solar farms without subsidies).
- ➤ Developing with a reasonable investment hurdle rate for new clean energy projects, especially for new solar farms .

II. Reducing Coal-fired Power Capacity

- Reducing stakes in existing coal-fired power plants.
- Potential disposal of coal-fired power plants.
- Strictly controlling coal-fired construction pipeline and capital expenditure.
- Improving the profitability of existing coal-fired power plants.

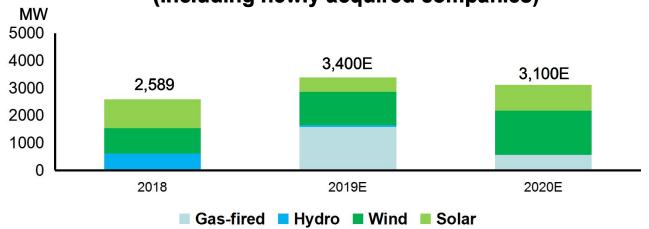




Installed capacity changes in 2018-2020E (Coal-fired)

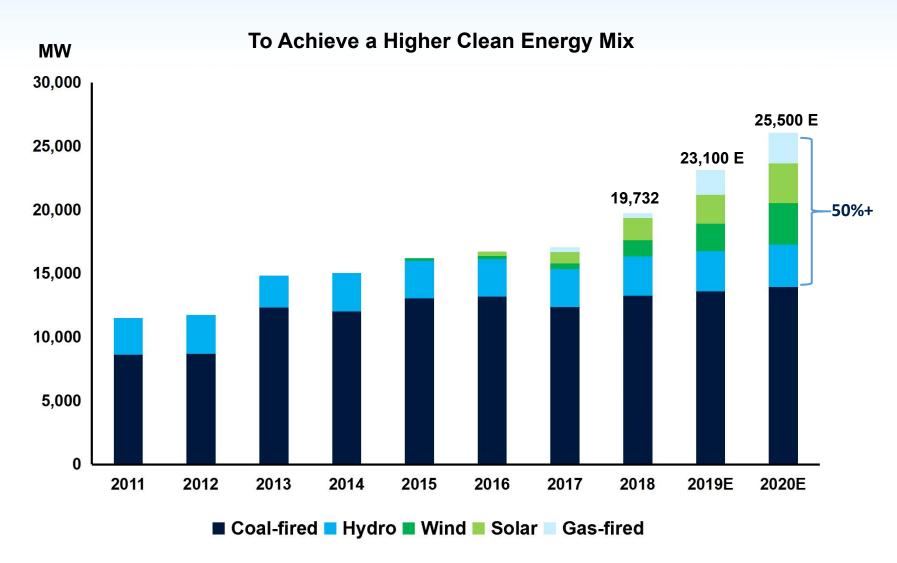


Installed capacity (approx.) to be added in 2018-2020 (Clean energy) (Including newly acquired companies)





Attributable Capacity Growth





Developing Integrated & Smart Energy

I . Integrated Energy Services

- > Promoting integrated and smart energy demonstration projects
- Selectively carrying out clean heat-supply
- Providing facilities management services
- > Exploring the technology of solar energy storage & charging

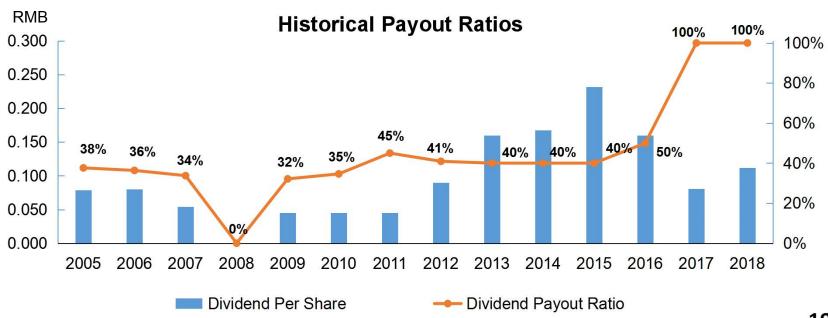
II. Smart Energy & Energy Internet of Things

- > Developing smart energy management cloud platform
- ➤ Developing and optimizing IEMS(Integrated Energy Management System) with Tsinghua University and advanced technology companies
- Data sharing



Dividend Policy & Guidance

- Annual cash dividends in an amount representing not less than 50% (previously 25%) of the profit attributable to owners of the Company.
- Maintaining a relatively stable dividend per share for three consecutive years starting from 2018, with the principle of not less than that declared in 2017.





Section 4 Financial Statements and Appendices



Operating Highlights

| | 2018 | 2017 | Change |
|------------------------------------|------------|------------|---------|
| Attributable capacity (MW) | 19,732 | 17,052 | 15.72% |
| Consolidated capacity (MW) | 21,439 | 17,840 | 20.18% |
| ——coal-fired | 12,710 | 11,700 | 8.63% |
| ——clean energy | 8,729 | 6,140 | 42.17% |
| Gross generation (MWh) | 74,101,429 | 66,683,402 | 11.12% |
| ——coal-fired | 53,941,613 | 48,021,260 | 12.33% |
| ——clean energy | 20,159,816 | 18,662,142 | 8.03% |
| Average utilization hours | | | |
| ——coal-fired | 4,585 | 4,104 | 11.72% |
| ——hydro | 3,148 | 3,553 | -11.40% |
| Average realized tariffs (RMB/MWh) | | | |
| ——coal-fired | 324.57 | 313.14 | 3.65% |
| ——hydro | 280.86 | 284.62 | -1.32% |
| Net coal consumption rate(g/KWh) | 302.41 | 304.23 | -1.82 |



Income Statement

| (RMB'000) | 2018 | 2017 | Change |
|---------------------------------------|--------------|-------------|----------|
| Revenue | 23,175,626 | 19,966,811 | 16.07% |
| Fuel costs | (11,020,697) | (9,549,980) | 15.40% |
| Other operating costs (net) | (7,740,588) | (7,308,377) | 5.91% |
| Operating profit | 4,414,341 | 3,108,454 | 42.01% |
| Finance income | 125,846 | 40,413 | 211.40% |
| Finance costs | (2,578,254) | (1,855,603) | 38.94% |
| Share of profits of associates | 114,461 | 222,630 | -48.59% |
| Share of profits of joint ventures | (6,446) | 44,743 | -114.41% |
| Pre-tax profit | 2,069,948 | 1,560,637 | 32.63% |
| Taxation | (432,763) | (279,930) | 54.60% |
| Profit for the period | 1,637,185 | 1,280,707 | 27.83% |
| Profit attributable to equity holders | 1,098,355 | 795,272 | 38.11% |
| EPS (RMB) | 0.11 | 0.10 | 10.00% |



Corporate Structure

SPIC is the only comprehensive energy corporation which owns nuclear,hydro,thermal and other types of clean energy assets within China.



Total conventional energy of SPIC includes:
Hydro 23.0 GW
Wind 17.4 GW

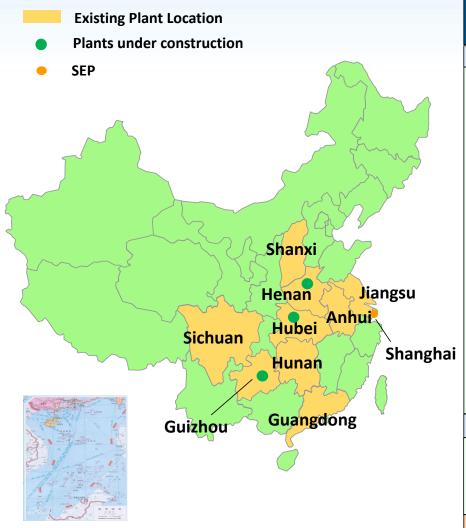
Wind 17.4 GW Solar 16.0 GW Thermal 79.4 GW

50-100% 63% 100% 100% 100% 13.88% 9.13%

| Capacity (MW) | Power Plants | Wuling Power | Guangxi Power | Shandong Power | Anhui Power | Hubei Power | SEP (600021.SH) | SichuanEl (1713.HK) |
|------------------|-----------------|-----------------|------------------|-------------------|----------------|----------------|--------------------|------------------------|
| Thermal | 16,030 | 600 | - | - | - | - | - | - |
| Hydro | - | 4,794 | 630 | - | - | - | - | - |
| Wind | - | 718 | 646 | 99 | - | - | - | - |
| Solar | 917 | 421 | 20 | 33 | 234 | 293 | - | - |
| Total | 16,947 | 6,533 | 1,296 | 132 | 234 | 293 | 13,512 | 139 |



Thermal Power Plants Distribution



| | Plants | Capacity(MW) | Equity | Locations | | | |
|---|--------------|-------------------|--------|------------|--|--|--|
| | In Operation | | | | | | |
| | Pingwei : | 2×630 | 100% | Anhui | | | |
| | Pingwei II: | 2×640 | 75% | Anhui | | | |
| | Pingwei III: | 2×1,000 | 60% | Anhui | | | |
| | Yaomeng : | 3×300+2×630 | 100% | Henan | | | |
| | Dabieshan: | 2×640 | 51% | Hubei | | | |
| | Fuxi: | 2×600 | 51% | Sichuan | | | |
| | CP Shentou: | 2×600 | 80% | Shanxi | | | |
| | Wuhu: | 2×660 | 100% | Anhui | | | |
| | Pu'an | 1×660 | 95% | Guizhou | | | |
| | Shangqiu(co | -gen): 1×350 | 100% | Henan | | | |
| i | Changshu: | 2×1,000+4×330 | 50% | Jiangsu | | | |
| | Xintang(co-g | en): 2×300 | 50% | Guangdong | | | |
| | Liyujiang: | 2×300 | 25% | Hunan | | | |
| | | Under Constru | ction | | | | |
| | Pu'an : | 1×660 | 95% | Guizhou | | | |
| | Shangqiu(co | -gen): 1×350 | 100% | Henan | | | |
| | Dabieshan (I | New): 2×660 | 51% | Hubei | | | |
| | | Shanghai Electric | Power | | | | |
| | SEP: | 7,426 | 13.88% | East China | | | |

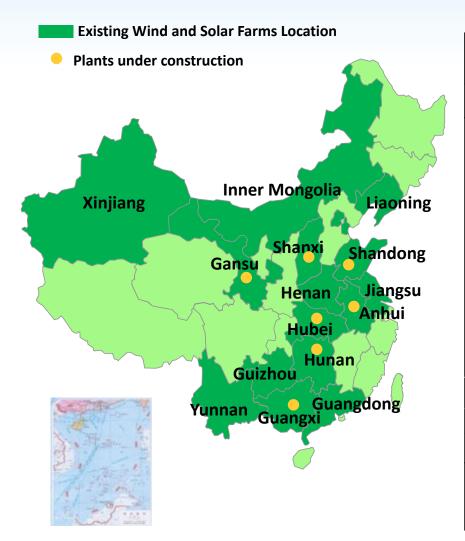


Hydropower Plants Distribution



| Plants | Capacity(MW) | Equity | Locations | | | | |
|-------------|--------------------|---------|-----------|--|--|--|--|
| - rames | | | | | | | |
| | In Operation | | | | | | |
| Wuqiangxi: | 1,200 | 63% | Hunan | | | | |
| Sanbanxi: | 1,000 | 63% | Guizhou | | | | |
| Tuokou: | 830 3 | 7.2% | Hunan | | | | |
| Changzhou: | 630 | 65% | Guangxi | | | | |
| Baishi: | 420 5 | 9.9% | Guizhou | | | | |
| Lingjintan: | 270 | 63% | Hunan | | | | |
| Hongjiang: | 270 3 | 37.2% | Hunan | | | | |
| Wanmipo: | 240 | 63% | Hunan | | | | |
| Others: | 564 59. | .9-100% | | | | | |
| | Under Construction | | | | | | |
| Luoshuidong | g: 35 6 | 63% | Hunan | | | | |
| Mawo: | 32 | 63% | Sichuan | | | | |

Wind & Solar Power Plants Distribution



| Plants | Capa | city(MW) | Equity | Locations | | |
|-------------------------|---------|--------------|-----------|-----------|--|--|
| Wind Farms in Operation | | | | | | |
| Shibanlin | g | 120 | 95% | Guangxi | | |
| Jinzishan | | 99 | 51% | Guangxi | | |
| Tuokexur | า | 49.5 | 63% | Xinjiang | | |
| Shansha | n | 99 | 63% | Xinjiang | | |
| Yaoposhan | | 50 | 63% | Hunan | | |
| Donggangling | | 50 | 63% | Hunan | | |
| Gulang: | | 100 | 44.1% | Gansu | | |
| | | | | | | |
| Total: | | 1,462 | 32-95% | 0 | | |
| | Sola | r Farms in C | peration | | | |
| Solar Farn | ns: | 1,843.5 | 44.1-10 | 00% | | |
| Wind | and Sol | ar Farms Ur | nder Cons | truction | | |
| Wind Farm | ns: | 1,490.4 | 44.1-100% | | | |
| Solar Farn | ns: | 481.7 | 44.1-100% | | | |





China Power International Development Limited

Thank you!

