















Shanghai Electric has provided more than 1000 sets of various generator products in total, which feature high













Shanghai Electric has the complete nuclear power conventional island power generation equipment processing and manufacturing capacity, and is capable to provide the complete conventional island equipment for the 3rd and 4th generation of nuclear power. Meanwhile, Shanghai Electric has also the complete turbine LP rotor technology, including the processing and manufacturing technology for welded rotor, shrink-on rotor and integral rotor, establishes the international leading long blade design and development technology platform, develops 1420mm, 1710mm and 1905mm series of long blades successfully, which can meet the current 100MW above pressurized water reactors and the configuration requirements of various back-pressure units. The range of the applicable back-pressure for different LP module combination is 2.5kPa~16kPa (including air cooling), which can satisfy the demands of various nuclear power project turbine generator unit which can

Long Blade Design

1420







### Heliostat

Shanghai Electric BrightSource Solar Energy Co., Ltd. has designed, produced and assembled the heliostats with effective reflection area  $10\text{m}^2\text{p}70\text{m}^2$ , reflectivity  $>93\%$ , operating temperature  $-40\text{p}60$  , tracking precision  $<2.5\text{mrad}$ , normal maximum operating wind speed

### Thermal energy storage system

Shanghai Electric BrightSource Solar Energy Co., Ltd. has designed, produced and assembled the thermal energy storage system with storage capacity  $100\text{p}1000\text{MWh}$ , storage efficiency  $>95\%$ , operating temperature  $290\text{p}560$  , normal maximum operating wind speed  $<10\text{m/s}$

### Turbine generator

Shanghai Electric BrightSource Solar Energy Co., Ltd. has designed, produced and assembled the turbine generator with rated power  $1\text{p}10\text{MW}$ , operating temperature  $-40\text{p}60$  , normal maximum operating wind speed  $<10\text{m/s}$

### Solar field combination

Shanghai Electric BrightSource Solar Energy Co., Ltd. has designed, produced and assembled the solar field combination with field area  $100\text{p}1000\text{ha}$ , normal maximum operating wind speed  $<10\text{m/s}$

### Receiver

Shanghai Electric BrightSource Solar Energy Co., Ltd. has designed, produced and assembled the receiver with receiver area  $10\text{p}100\text{m}^2$ , operating temperature  $290\text{p}560$  , normal maximum operating wind speed  $<10\text{m/s}$

### Plant configuration

Shanghai Electric BrightSource Solar Energy Co., Ltd. has designed, produced and assembled the plant configuration with plant area  $100\text{p}1000\text{ha}$ , normal maximum operating wind speed  $<10\text{m/s}$





## Once-through Steam Generator

The once-through steam generator is a new evaporator. This product is developed by cooperation with





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In the motor field, Shanghai Electric has been a key company in the national motor manufacturing industry since the 1950s, has successfully developed and manufactured the first double-water internal cooled turbine generator in the world, has an annual production capacity of 10 million kW that exceeds 25% of the national





Shanghai Electric and Fuji Electric, one of the large comprehensive mechanical and electrical product manufacturers in Japan, have established a joint venture, Shanghai Electric Fuji Electric Power Technology Co., Ltd., mainly involving in the design, manufacturing and sales services in the inverter field. The joint venture is mainly engaged in the technology research & development, design, sales and services of high-voltage inverter.

### Low-voltage Inverter

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## Remote diagnosis







## Flue gas de-NO<sub>x</sub> technology

In order to integrate the environmental protection industry, Shanghai Electric has Shanghai Boiler Works







## Flue gas desulfurization technology

Based on the background of long-term professional power station equipment manufacturer, Shanghai Electric can





