



公司介绍

Company Introduction

上海电气光源光热工程有限公司由上海电气集团和亮源公司合资成立，双方出资比例各占50%。上海电气集团是中国最大的电站设备制造企业，拥有40GW的年生产能力；作为工程总承包商在全球范围已提供服务超过72GW。亮源公司（BSE）是公认的太阳能光热领域领导者，其技术团队主要成员来自于30年前建设世界上第一个商业规模SEGS的鲁兹公司（LUZ）。亮源在塔式聚光技术和项目建设运营方面具有丰富的经验。



Shanghai Electric BrightSource Solar Energy Co., Ltd is a 50/50 joint venture established by Shanghai Electric and BrightSource. Shanghai Electric is the largest power generation equipment manufacturer in China with its 40GW annual production capacity, and has provided turnkey solution to over 72GW projects worldwide. BrightSource is a globally recognized leader in solar thermal energy industry, and has a top-notch technical team, most of whom pioneered the first utility-scale 354 MW SEGS in LUZ 30 years ago. BrightSource has rich experiences in solar power tower technology, project construction and operation.



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SHANGHAI ELECTRIC BRIGHTSOURCE SOLAR ENERGY CO.,LTD

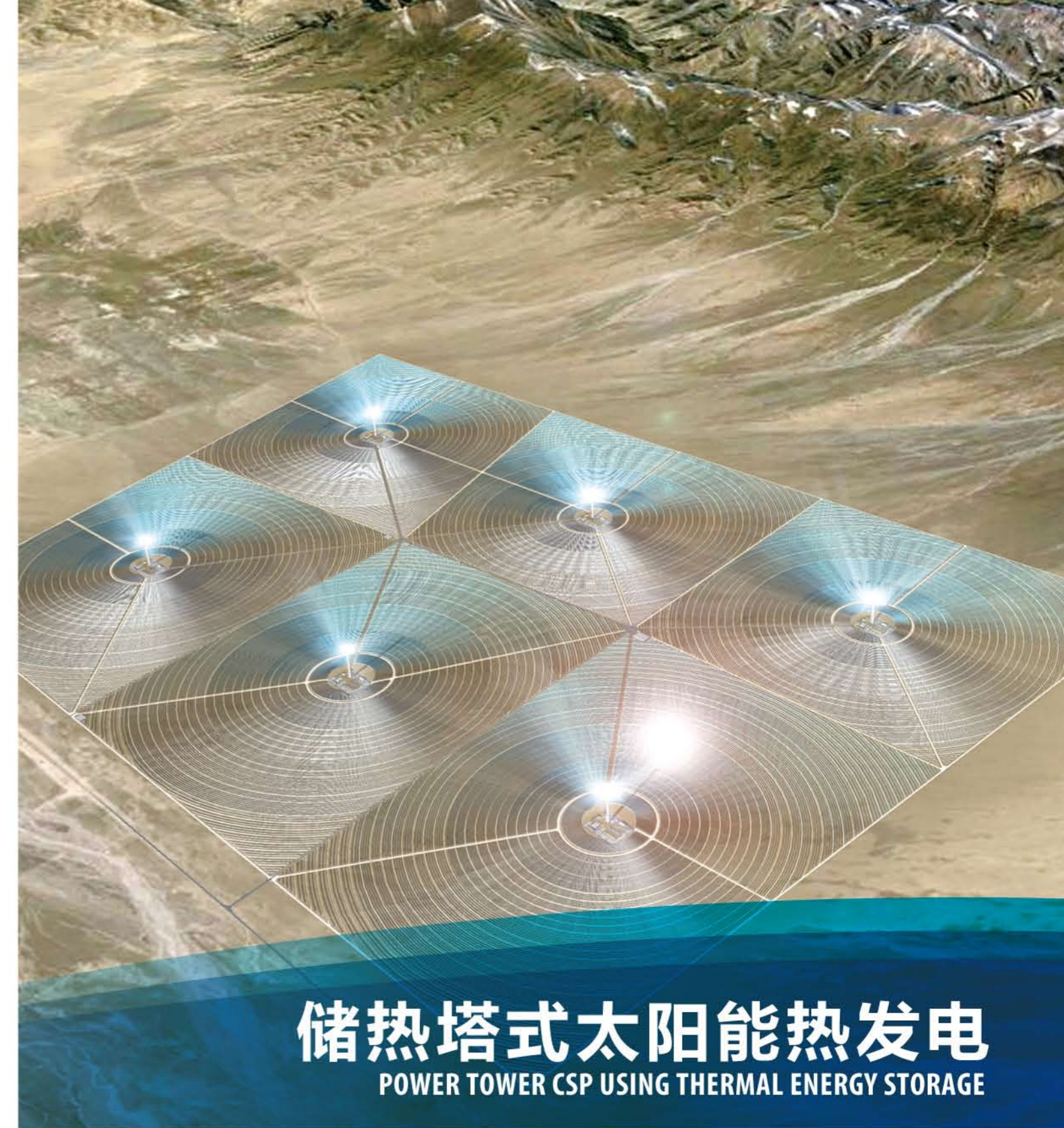
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储热塔式太阳能热发电

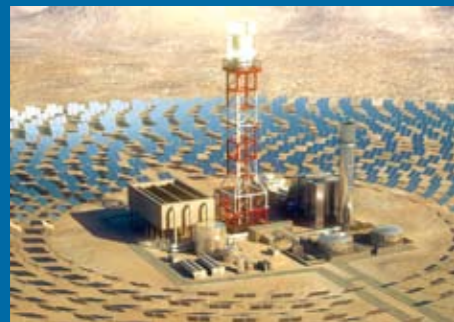
POWER TOWER CSP USING THERMAL ENERGY STORAGE

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服务范围

Scope of Business



上海电气光源光热工程有限公司将BrightSource 30年设计、建造与运营太阳能电厂的技术经验与上海电气集团全球范围内的项目开发及设备制造能力相结合，为国内外客户提供太阳能热发电的全方位解决方案。可承接聚光太阳能热发电厂、太阳能辅助石油开采、太阳能海水淡化和ISCC系统的设计、施工、安装、调试、运营和工程总承包，以及太阳岛、常规岛和储热关键设备如定日镜、镜场综合控制系统、吸热器、汽轮机、辅机、热交换器、储罐等设备供应。

By leveraging BSE's over 30 years of technology and experiences in design, construction and operation of solar thermal power plants and SEC's worldwide capability in project development and equipment manufacturing, we can provide comprehensive solar thermal solutions for domestic and foreign customers and undertake design, construction, installation, commissioning, operation and EPC of concentrated solar power, enhanced oil recovery, sea water desalination and ISCC system projects. We can also supply all kinds of solar island, power block and thermal storage equipment such as heliostat, solar receiver, solar field integrated control system, steam turbine generator, auxiliary equipment, heat exchanger, tanks and etc.

工程案例

Engineer Projects



- 青海德令哈项目6×135MW
Delingha Solar thermal Power Plant 6×135MW



- 雪佛龙太阳能辅助石油开采29MWt
Chevron Solar Enhanced Oil Recovery Project 29MWt



- 伊万帕塔式太阳能热发电站 392MW
Ivanpah Solar Power Plant 392MW

主要产品列表

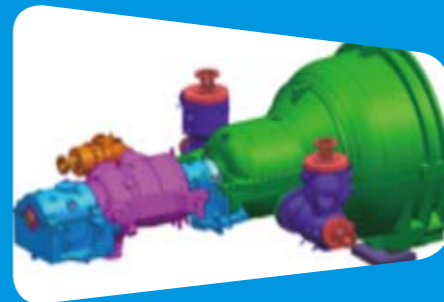
Main Products List



定日镜 Heliostat

上海电气光源光热工程有限公司设计并生产组装，有效反射面积为15m²~30m²的定日镜，反射率>90%，工作温度-40-60℃，跟踪精度<2.5mrad，正常工作最大风速≤14m/s，可控运转最大风速≤21m/s，存活状态极限风速≤40m/s。

Shanghai Electric BrightSource Solar Energy Co., Ltd designs and manufactures heliostat with an effective reflective area of 15m²~30m², reflectivity>90%, operating temperature at -40-60℃, tracking accuracy< 2.5mrad, survival state of extreme wind speed≤40m/s.



汽轮发电机 Steam Turbine Generator

上海电气汽轮机厂、发电机厂生产的光热专用高效、快启、超高压、双缸单排汽、空冷式汽轮发电机组，功率1-270MW，压力3-15MPa，温度450-580℃，效率可达43%。

Shanghai Electric Power Generation Equipment Co., Ltd. Turbine Plant, and Generator Plant provide air cooled turbine generator with high efficiency, quick start under an ultra-high pressure, duplex single-flow, nominal output at 1-270MW, pressure at 3-15Mpa, steam temperature at 450-580℃, efficiency at 43%.

主要产品列表

Main Products List



吸热器 Solar Receiver

上海电气锅炉厂有限公司生产的工作温度40-1000℃，出口蒸汽参数565℃，15MPa太阳能吸热器（SRSG）。熔盐吸热器（MSR）正在开发研制中。

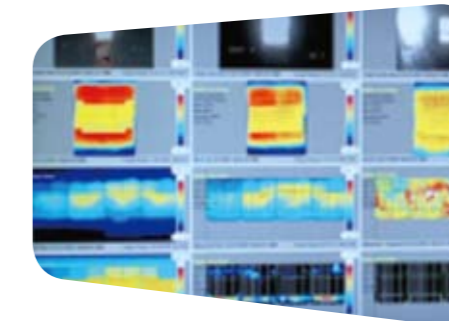
Shanghai Boiler Works Co., Ltd manufactures solar receiver, of which the operating temperature range between -40-1000℃, steam parameters at 565℃, 15MPa. Molten salt solar receiver is under R&D.



储热系统 / 换热设备 Thermal Energy Storage Heat Exchanger

上海电气光源光热工程有限公司提供的熔盐储热系统解决方案，可定制储热时间1-15小时。上海电气电站辅机厂生产太阳能光热电站专用蒸汽发生器和各类换热设备。

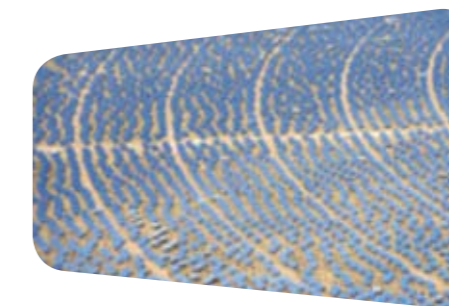
Shanghai Electric BrightSource Solar Energy Co., Ltd provides solutions of storage lasting 1-15 hours for thermal energy storage of molten salts. Shanghai Electric Auxiliary Equipment Plant manufactures special steam generator and all kinds of heat exchanger equipment for solar power plant.



镜场综合 / 控制系统 Solar Field Integrated Control System

上海电气光源光热工程有限公司提供专用的太阳镜场集成控制系统，数万个反射镜以两个方向维度追踪太阳方位，并将太阳光同时聚焦至高塔上的太阳能吸热器。

Shanghai Electric BrightSource Solar Energy Co., Ltd provides special solar field integrated control system, of which tens of thousands of mirrors trace the sun orientation in two directions, reflecting the sunlight to the SRSG on top of the tower.



电站配置 / 性能模型设计 Plant Configuration and Performance Model

上海电气光源光热工程有限公司提供光热电站热平衡/运行参数的设计、吸热器、储热系统的设计、电站配置及运行优化策略、光场布置与性能、出力模型等核心技术。

Shanghai Electric BrightSource Solar Energy Co., Ltd provides core solar thermal technology such as the design of solar power plant heat balance/operation parameters, solar receiver and thermal storage system; power plant configuration and operation optimization strategy, solar field arrangement, performance and financial model and etc.