



ENGINEERING SERVICES FOR ENERGY

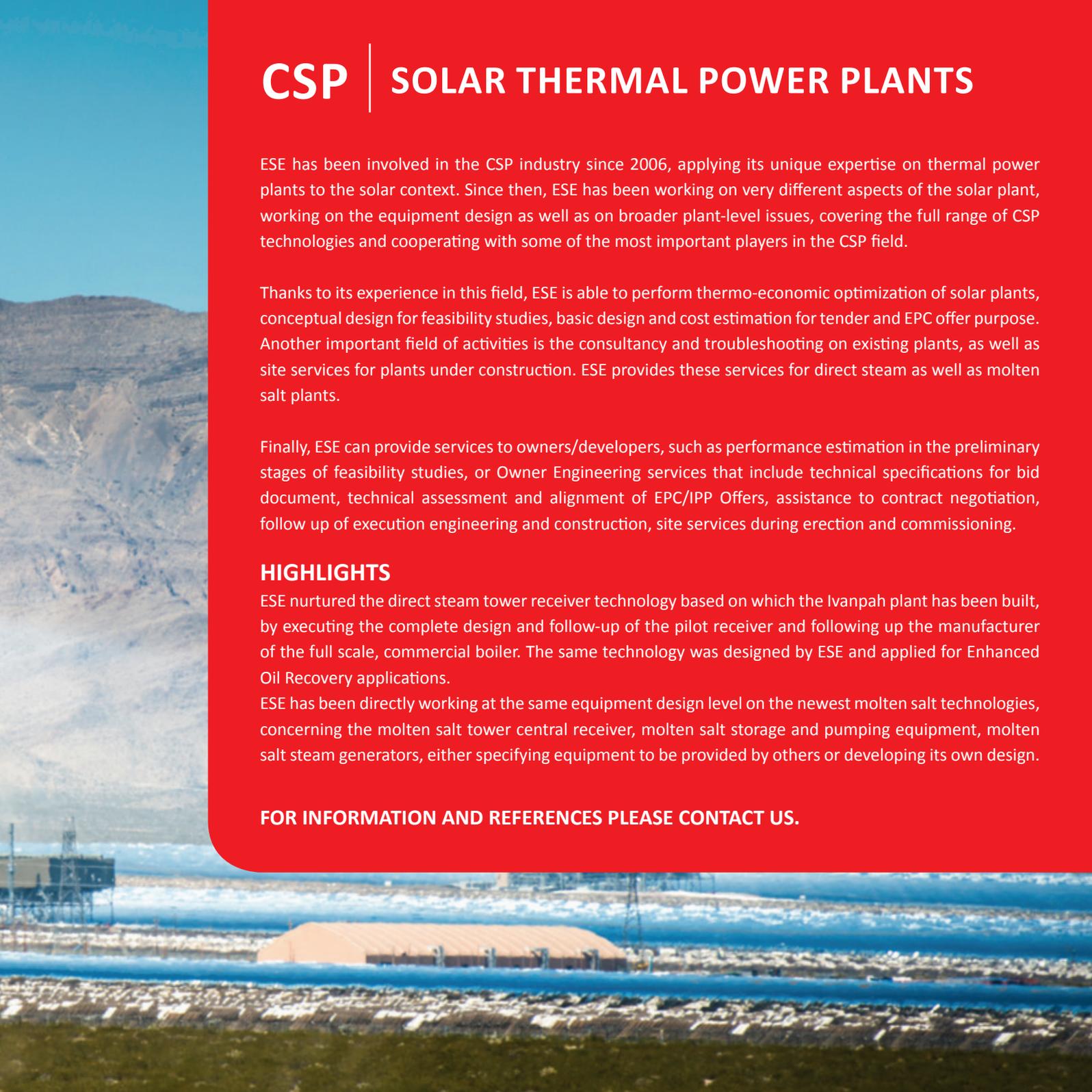
ENERGY SERVICES
**CSP SOLAR
THERMAL
POWER PLANTS**

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ESE ENGINEERING SERVICES FOR ENERGY IS AN ITALIAN
ENGINEERING CONSULTING COMPANY OF THE HIGHEST LEVEL
OPERATING WORLDWIDE IN THE POWER GENERATION INDUSTRY.
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The image features a large red banner on the right side with white text. The background is a photograph of a solar power plant in a desert landscape, showing a large, curved, tan-colored structure in the foreground and a city in the distance under a clear blue sky.

CSP | SOLAR THERMAL POWER PLANTS

ESE has been involved in the CSP industry since 2006, applying its unique expertise on thermal power plants to the solar context. Since then, ESE has been working on very different aspects of the solar plant, working on the equipment design as well as on broader plant-level issues, covering the full range of CSP technologies and cooperating with some of the most important players in the CSP field.

Thanks to its experience in this field, ESE is able to perform thermo-economic optimization of solar plants, conceptual design for feasibility studies, basic design and cost estimation for tender and EPC offer purpose. Another important field of activities is the consultancy and troubleshooting on existing plants, as well as site services for plants under construction. ESE provides these services for direct steam as well as molten salt plants.

Finally, ESE can provide services to owners/developers, such as performance estimation in the preliminary stages of feasibility studies, or Owner Engineering services that include technical specifications for bid document, technical assessment and alignment of EPC/IPP Offers, assistance to contract negotiation, follow up of execution engineering and construction, site services during erection and commissioning.

HIGHLIGHTS

ESE nurtured the direct steam tower receiver technology based on which the Ivanpah plant has been built, by executing the complete design and follow-up of the pilot receiver and following up the manufacturer of the full scale, commercial boiler. The same technology was designed by ESE and applied for Enhanced Oil Recovery applications.

ESE has been directly working at the same equipment design level on the newest molten salt technologies, concerning the molten salt tower central receiver, molten salt storage and pumping equipment, molten salt steam generators, either specifying equipment to be provided by others or developing its own design.

FOR INFORMATION AND REFERENCES PLEASE CONTACT US.



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