CASE STUDY

Heat Transfer Fluid Pumps in the First 50 MW Solar Thermal Plant in China

Sulzer has been chosen as a reliable and experienced solution partner for the first 50 MW solar thermal power project in China. Located in the Qinghai province, the plant will consist of 190 parabolic troughs collector (PTC) loops and a molten salt heat storage system.

Solar thermal panel

The challenge

Thermal oil is used as heat transfer fluid (HTF) in the primary circuit of solar thermal power plants. Operating temperatures in such a power plant can reach around 350°C which constitute a challenge for the sealing systems of the pumping equipment.

Therefore, the customer specifically required a pumping partner with strong experience and successful running operation of similar HTF pumps.

The solution

For this specific project, HZB-HTF and ZF pumps will be delivered, including motors, variable frequency drives and mechanical seal systems.

Sulzer's design and experience in similar critical heat transfer fluid applications worldwide was fundamental to demonstrate to the customer the best technical solution for their particular operating conditions.

The Sulzer difference

Sulzer's experience in the solar industry makes it a reliable partner in supplying quality products that meet customer's requirements.

Customer benefit

By choosing Sulzer as a partner, the customer benefited from:

- Over 30 years proven experience in solar thermal power plants
- Successful and solid references of installed pumps in similar applications world-wide
- Reliable and cost-efficient pumps, helping improve competitiveness
- Global manufacturing network with flexibility to better suit requirements locally

Contact
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Applicable markets
Power generation

Applicable products
BB2 pumps (HZB-HTF, BBS and CD)
OH2 pump (ZF and OHH)