

Andasol 1 & 2

50 MW, 7 hrs molten salt heat storage

EPC by the JV Cobra-SENER

Pictures





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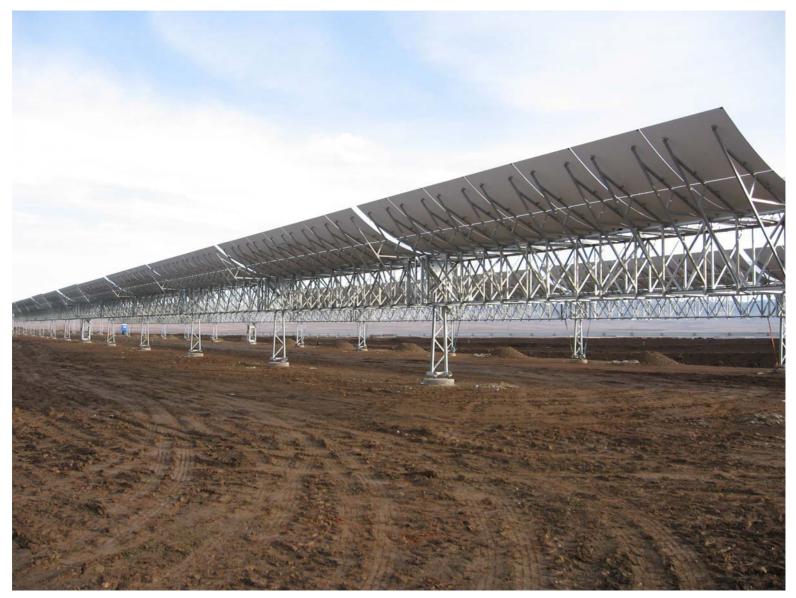






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One SENERtrough full loop





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ANDASOL 1 MOLTEN SALT STORAGE

NREL CSP Workshop Golden, CO

7-9 March 2007

PARABOLIC TROUGH TECHNOLOGY

ANDASOL 1 PLANT STORAGE SYSTEM

✓ NITRATE MOLTEN SALTS (60% NaNO₃ + 40% KNO₃)

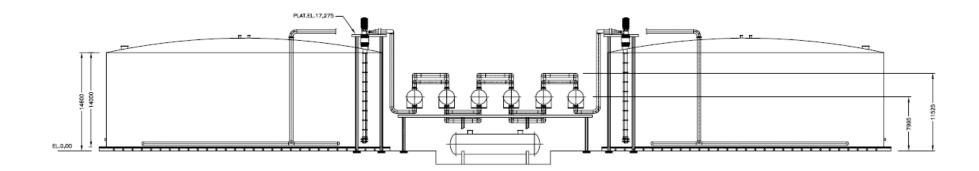
✓ TWO TANKS:

✓ COLD: 292 °C

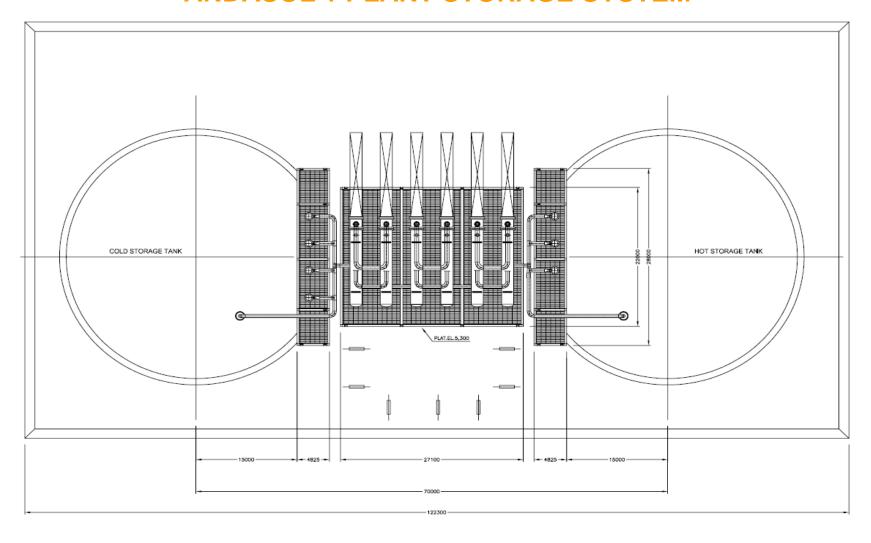
√ HOT: 386 °C

- ✓ 14 m HEIGHT, 38.5 m DIAMETER
- √ 1010 MWh CAPACITY = 7.7 EQUIVALENT HOURS = 28.500 TONNES
- ✓ HEAT EXCHANGERS HTF/SALTS
 - ✓ THERMAL DUTY: 131 MWt charging, 119 MWt discharging
 - ✓ NUMBER OF UNITS: 6
- ✓ PUMPS: 4 UNITS IN COLD TANK (3 + 1), 3 IN HOT TANK













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