

SOLARRESERVE

Brief Status and R&D Directions, IEA Roadmap Meeting, Paris





February, 2014



SolarReserve Develops Both PV and CSP



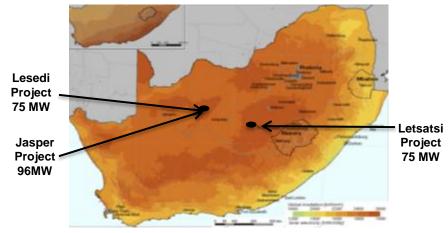
SolarReserve's Molten
Salt Power Tower



South African PV Projects – Three Projects (246 MW)

- \$586 million (ZAR 5.15 billion) Lesedi and Letsatsi projects financed in November of 2012 two of the largest project finance transactions completed in South Africa
- \$230 million (ZAR 2.3 billion)
 Japer project financed in
 May 2013
- Lesedi & Letsatsi transaction named "African Renewable Energy Deal of the Year" by Project Finance Magazine in 2012

Site Overviews



Annual GHI:

- 2,225 kWh/m2 (Lesedi)
- 2,199 kWh/m2 (Letsatsi)
- 2,225 kWh/m2 (Jasper)

Optimally Inclined GHI: 2,400- 2,800 kWh/m2

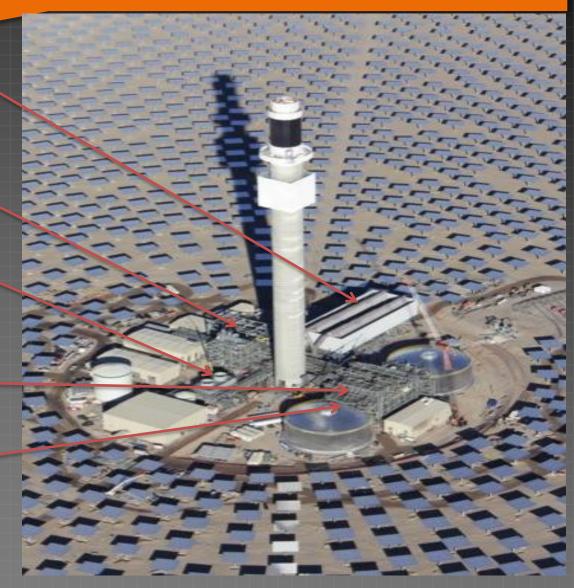
Other Attributes of Sites:

- Elevated sites up to >1500m asl
- Low speed seasonal winds and humidity
- Close to grid with minimal losses
- Highway access
- Access to water

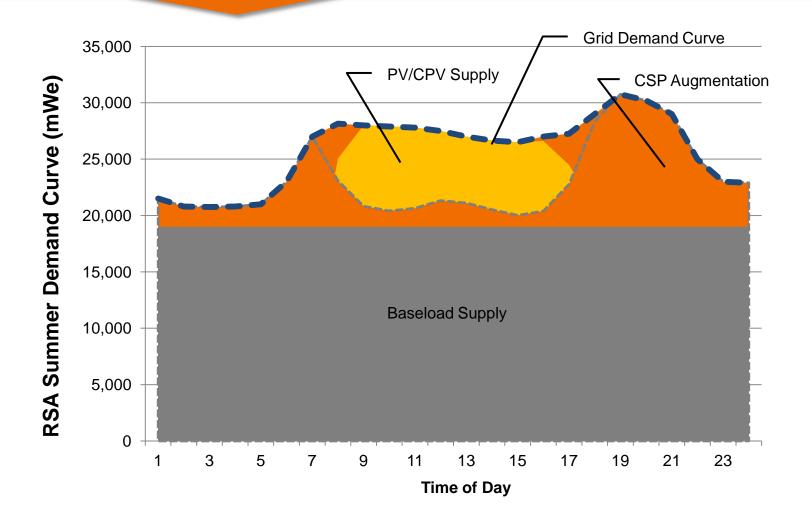
Crescent Dunes Equipment Layout

Dry Cooling Tower

- Turbine Generator
- Wet Cooling Tower
- Steam Generator
- Salt Pumps

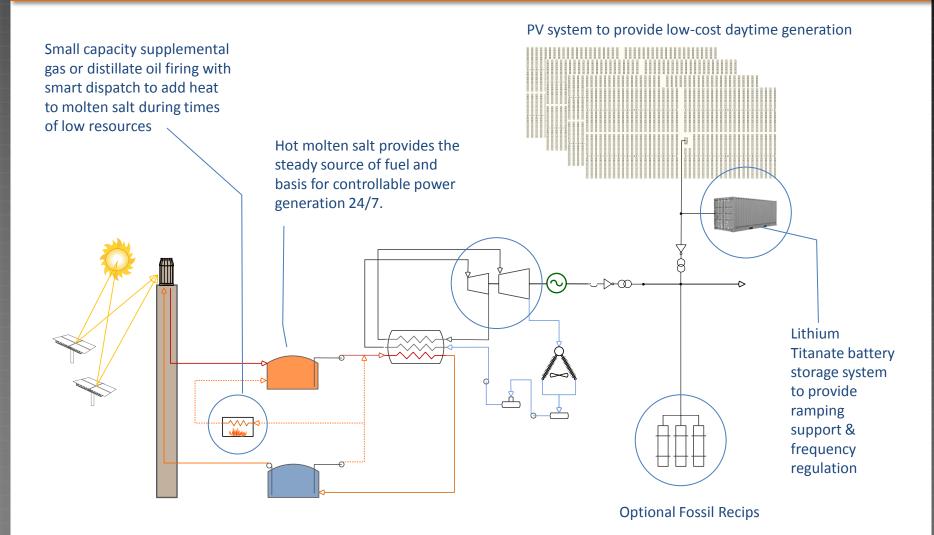


Winter Demand Curve, South Africa

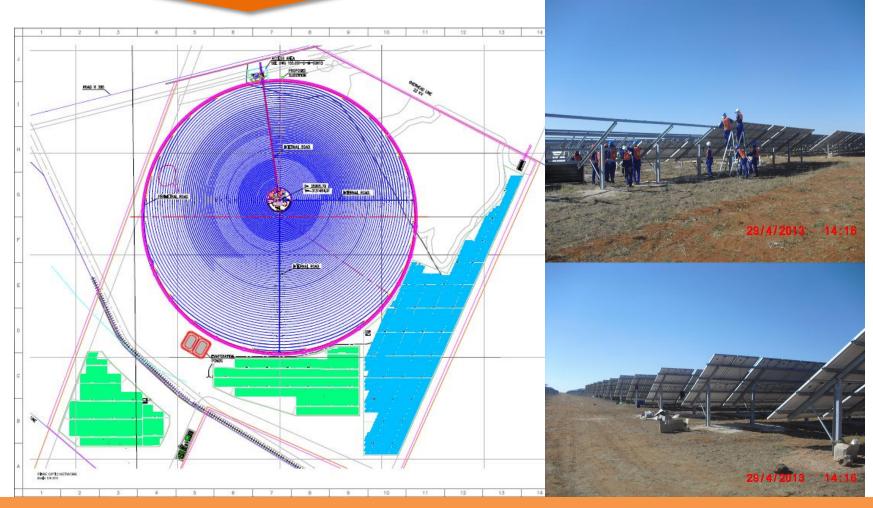




Hybrids Enable 100% Availability

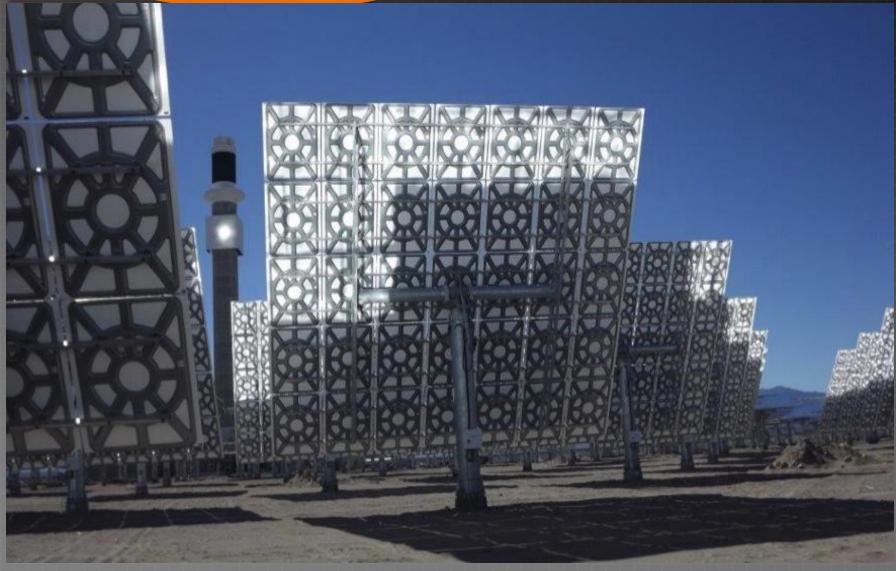


Real World Hybrid Project



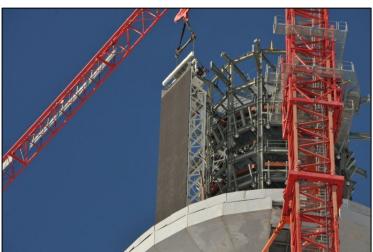
Lesedi and Jasper (PV) and Redstone (CSP)

Heliostat Testing on BCS Target



Receiver Installation









Crescent Dunes Heliostat Field 80% Complete

