

Sonoran Dish Energy LLC

Solar Dish for Direct Thermal and 24-hour Power Generation

January 3, 2017



Overview

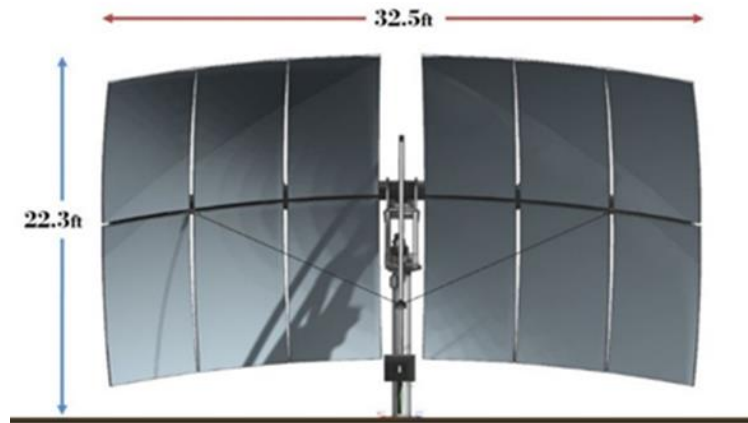
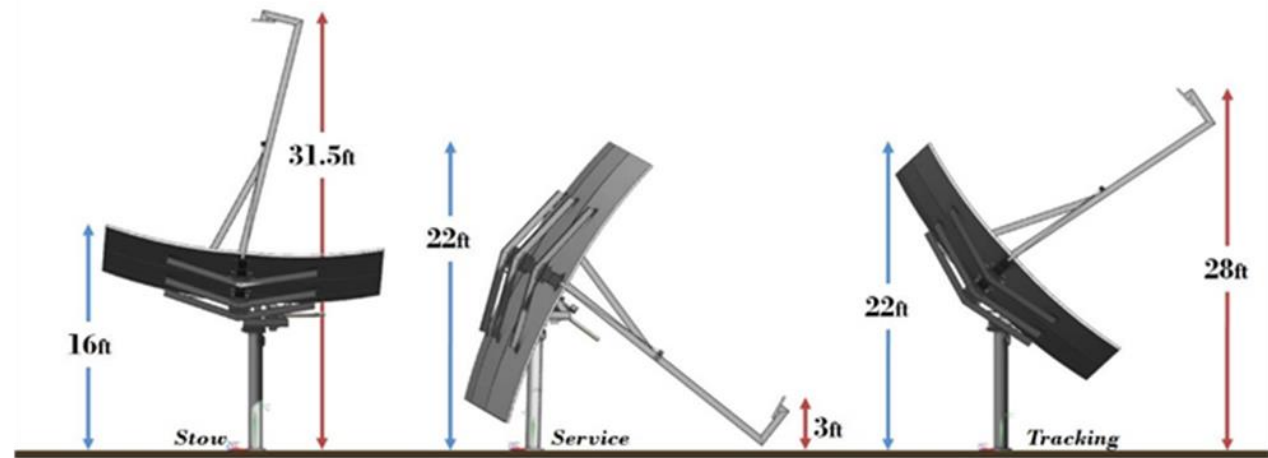
- New Solar Dish technology for Power and/or Thermal
 - 54 square meters collector area
 - Electric and heat applications
 - Can be assembled with forklift
- Thermal Output
 - Heat applications include direct steam, turbine power, industrial processes
 - 40 kW Thermal Rating, up to 300C / 570 F using thermal oil transfer
 - 24 hour power capability using thermal storage
- Commercial operations in US oil and gas market via Sonoran Dish Energy LLC. Technology development by SST LLC



Southwest Solar
Technology LLC

Dish Dimensions

- Serviceable from ground
- Can be constructed with forklift or light crane, scaffolds or ladders
- 21 solar dish units per acre:
 - 800 kW/acre direct heat
 - 240 kW/acre electric power



Applications

- Power Generation
 - Turbine Cycle with 30% potential efficiency
 - 24 hour power using phase-change thermal storage and expanded solar field
- Industrial Heat (180C – 300C)
 - Steam and heat for processing
 - Cooking, washing/sanitation
 - Absorption chillers
- Oil & Gas
 - Steam for Enhanced Oil Recovery (EOR)
- Water processing
 - Next-gen thermal-driven water desalination



Solar Dish Testing

