



1. Executive Summary

Overview

Solarversal Technology, Inc. is a leading Concentrating Solar Power (CSP) technology company headquartered in Hangzhou China with manufacture plant in AnnJi. Solarversal possesses leading technologies of Dish Stirling solar power generating systems and volume manufacture facilities, which allow us to offer competitive stirling products to markets in a global scale. Combine its core competency of patented CSDS™ technologies, develop capabilities and manufacturing abilities, Solarversal positions itself to be a globe leader of stirling technologies and products. In NinXia site, 2 units of 10kWe dish stirling systems installed in 2011 represented the 1st dish stirling in China. In Hangzhou site we operated two 25kWe systems since 2013. Along with multiple systems installed in different sits in China, we cumulated fair amount of operational data and experiences, which validated CSDS's technologies in product design, manufacture, system integration as well as readiness of deployment in large scale.



Fig1. Units in NinXia 2011



Fig2. Units in Shanghai 2015

Solarversal's CSDS dish stirling system has the highest sun-to-electricity efficiency of 32% peak and 24% to 27% average, which results in lowest levelized cost of electricity (LEC) to grid with a good DNI condition. CSDS differentiates it from other CSP technologies by:

- its competitive cost offering, no environmental limits;
- High flexibility , less land required and scalability;
- CHP – combine heat and power functionality;
- MFU – multi- fuel utilization;
- Local 4~6 hrs storage capability.

Solarversal's CSDS™ system, designed for volume manufacturing by largely adopting automobile production platform, which allow us offering cost competitiveness, productivities, and quality assurance to our clients. The CSDS's current capital installed cost is an impressive \$1.50 per Watt (AC), we projected to reach a cost target of \$0.85 per Watt (AC) by 2019.

System Specifications

CSDS has been designed to fully utilize what modern automotive industry could offer, by which system manufacture could seamlessly take advantage of mature component supply methodology, quality assurance program along with cost reduction roadmap etc to reach cost effective objectives. CSDS is comprised of following sub-systems or components:

