

SOLAR TRACING SENSORS FOR MAXIMUM SOLAR CONCENTRATOR EFFICIENCY

US Pat. No.: 8,459,865

Technology Readiness Level: 3/4

Basic technological components are integrated to establish the pieces work together

Concentrating Solar Power (CSP) relies on thermodynamic processes to convert concentrated light into useful forms of energy. Accurate sun tracking enables higher concentration ratios and improved efficiency through higher temperature processes and lower losses.

These tracking sensors utilize an improved approach to closed-loop feedback control and have demonstrated high accuracy and performance. Additionally, they have fast response characteristics needed for demanding point focus systems.



TECHNICAL BENEFITS

- Accurate tracking allows for higher efficiency
- Energy sustainability
- Improved performance of energy concentration
- Increased efficiency
- Reduced cost

INDUSTRIES & APPLICATIONS

- Parabolic dish & trough solar concentrating collectors
- Solar energy and renewable energy
- Electric utility