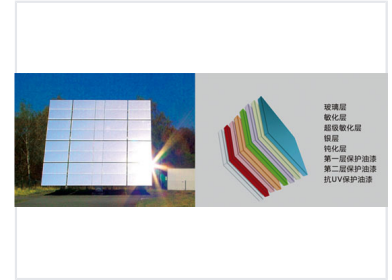


# Heliostat Power Generation System

Heliostat technology employs mirrors to concentrate sunlight onto a receiver atop a tower. This concentrated solar energy is then used to generate electricity.



## Overview

### Heliostat Power Generation System

This advanced power generation system utilizes a precise field of mirrors to concentrate sunlight onto a receiver located atop a tower. By actively tracking the sun's movement, the system maintains optimal reflection throughout the day to maximize energy capture. The concentrated solar energy is converted into heat to generate steam, which drives a high-efficiency turbine to produce consistent electricity.

## Mirror Technology

### Mirror Layer Structure

Layer Number	Composition Component
1	Glass Layer
2	Sensitization Layer
3	Super Sensitization Layer
4	Silver Layer
5	Passivation Layer
6	First Protective Paint
7	Second Protective Paint
8	Anti-UV Protective Paint

## System Operation

### Power Generation Workflow

- Solar concentration via heliostat field
- Heat conversion at tower receiver
- Steam production
- Turbine and generator power conversion

### Sun Tracking Control

Computer-Controlled, Dynamic Tracking, Optimal Reflection