



## How it works:

The CSP uses a field of reflective heliostats to direct the sunlight to the solar receiver at the top of the sculpture. The solar energy is concentrated at the receiver to heat up the heat transfer and heat storage medium- sand, an abundant, economical and local resource. The sand is heated up to around 800°C in the solar receiver, and is then transported by a conveyor belt system to be stored in the insulated hot storage tank in the form of thermal storage until it is needed. Once needed, the hot sand is transported through a heat exchanger where water is injected, and heated up to create the high pressure steam that runs the steam turbine to generate electricity. Once the sand has passed through the heat exchanger, it is cooled and transported to the cooled sand storage tank, ready to be sent up to the solar receiver to begin the cycle again. The steam that passes through the turbine condenses in the top stacked sphere and is collected and stored in the lower sphere until needed.