

Restoring Balance

This installation aims to highlight the environment, and the natural resources, that played a key role in shaping Abu Dhabi's culture and identity: sand and sun. "Restoring Balance" captures the energy from the sun to generate electricity, and uses sand as a form of thermal energy storage. The sand is stored in the two large balanced spheres, illustrating the role of an energy storage in balancing the supply and demand of energy between day and night.

Main Components:

"Restoring Balance", displayed in the shape of a balance scale, is composed of a Concentrated Solar Plant (CSP) and Thermal Energy Storage (TES).

The CSP consists of a field of reflective heliostats, a solar receiver, a heat exchanger/ steam generator, steam turbine, condenser, and water storage. The TES consists of two large storage tanks, one for heated sand, and one for cooled sand. The two components of the system are connected by a heat transfer medium loop.

