

The design uses solar cells mounted on conical structures (nests) than shade sunken habitats within each nest. The four solar cones contain within them a variety of responses to the environment and ecology of Masday City, ranging from vegetated habitats for birds, desert shrubs and trees, a water cooled gathering area for the human residents and a ground water recharging step well that addresses the decline of ground water levels in UAE. Beyond its functional role, the arrangement of the solar cells and its apertures are derived from the Islamic carved stone screen patterns (jaalis) of traditional architecture, making a high tech connection with a historical precedent of the region.

A techno-ecological oasis uses energy generated by the solar panels to recycle grey water which is then used to create a shaded landscape of drought resistant shrubs and trees as well as contain a step well to recharge the depleting ground water in UAE. The holistic design uses the various components to accommodate the natural systems that has historcally been part of the site before the development of Masdar. The design uses energy generated by the solar panels to recycle grey water. This water is then used to nurture a shaded landscape of drought resistant shrubs and trees. In addition one of the cones contains a step well that recharges the depleting ground water in UAE

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Total Generating wattage 1800 kW

Annual Capacity 2,838,240 kWh