

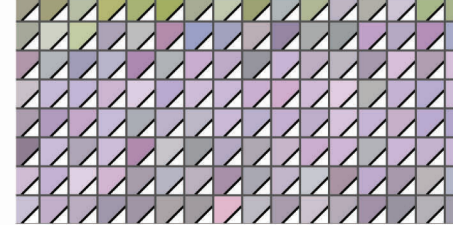
The Flowering Desert
Photovoltaic Power as Land Art

The Flowering Desert

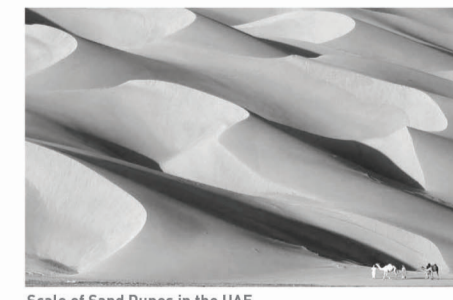
On the north western edge of Masdar, a deep rectangular void is cut into the ground as a receptacle for energy. It contains a desert. The aeolian forms of desert sand dunes rise and fall, floating along the horizon line. The vast surface of the dunes is comprised of a myriad of desert flowers: $\frac{2}{3}$ translucent dye-sensitised solar cells coloured like the tough resilient flora of the desert. The Flowering Desert is impossible to touch and impossible to perceive its scale and its quantity of elements. The void is a sunken fortress, that acts as a city portal like the monuments of old across the emirate. A fortress that frames a series of cool gardens shaded by the floating dunes above. It is a land art that returns to its source, it conducts photo energy and visualises the exchange of energy in the desert.



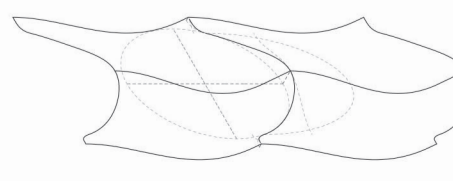
Desert Flower
The abstract form of the sand dunes is reimagined as a field of colours. The tough, resilient and often toxic desert flowers of the desert are abstracted and translated as a field of dyed hues for the DSSC panels



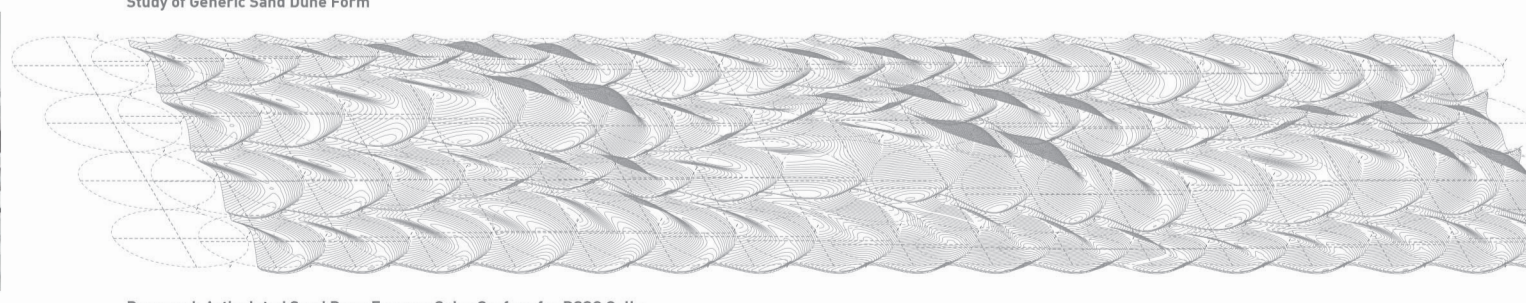
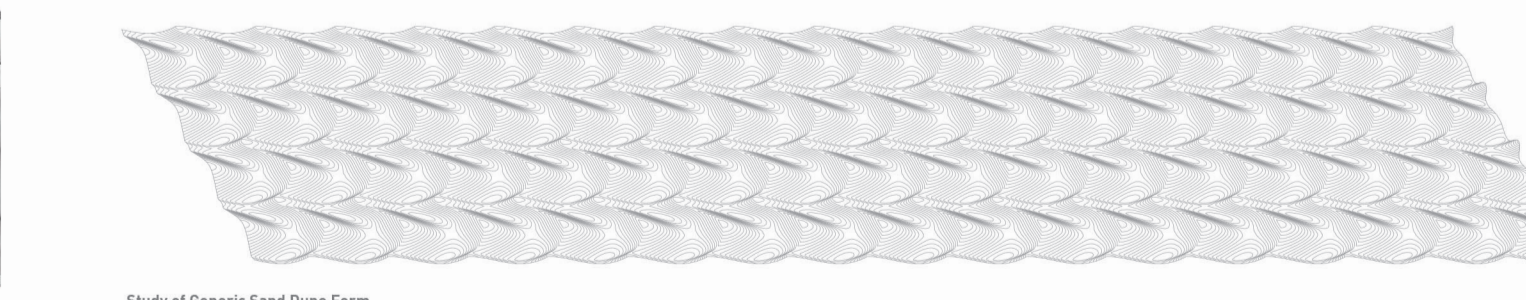
Colour Range of Photovoltaic Panels



Sand Dunes & Aeolian Forms
The Aeolian barchanoid form of sand dunes, shaped by the prevailing wind of the desert, is abstracted as a repeatable pattern. The form is articulated to gently rise and fall above the ground level and create a series of spaces with varying proportion below.



Geometric Study of Aeolian form as repeatable pattern



Proposed: Articulated Sand Dune Form as Solar Surface for DSSC Cells

