

# Suspended Solar Farm

## Further Aspects

Rather than generating energy and harvesting water, the 'Suspended Solar Farm' accomplishes four other needs simultaneously:

### 1– Providing shade

In the hot climate of Abu Dhabi, protecting from the severe sunshine is one of the basic requirements of using outdoor spaces. The tent-shaped dishes provide shade, lowering temperature by almost 25° C.

### 2– Providing air movement

As the solar energy is concentrated to the engines, the air nearby them warms up. The warm air goes up and is replaced by the cooler air. Thus, a breeze will come in from outside, decreasing air temperature even more.

### 3– Staying up at night

High air temperature in Abu Dhabi makes it difficult to use outdoor spaces during the day. So, outdoor spaces may better be used at nights. This project uses some of the electricity generated during the day for the lighting at night, so that the area can be used in 24 hours.

### 4– Minimum environmental impact

As mentioned by Brenda and Robert Vale, one of the principles of green architecture is that we must "touch the earth lightly" (Wheeler & Beatley, 2014: p191). This project, initiated from the 'Bedouin tents', uses recyclable materials such as mirror glass or steel. The dishes are supported by a few poles. If the farm is to be removed, the foundations can be lifted and replaced by the soil; so the site can be given back to nature unaltered.

