PAVILION Nº1 Solar panels + collecting water by condensation + cultivation

Pavilion Nº1 includes 3 technologies at once - solar panels, water collection by condensation and cultivation. There are 16 small solar panels located at the top, which visually turn into 4 large ones. This arrangement of the panels helps to create a shadow inside the pavilion, but at the same time let in the necessary amount of light due to one raised edge of the panel. There are woven fabrics around the perimeter, on which water collects due to the condensation process, and after a while it drains down into storage barrels. This technology makes it possible to provide for other natural phenomena other than rainfall. Inside the pavilion there are small beds in which residents can grow plants that are whimsical to the sun.





PAVILION Nº2 Water collection + cultivation

Pavilion № 2 includes 2 technologies - water collection and cultivation. Water is collected using a large canvas of 14 x 14 m. It is fixed around the entire perimeter of the pavilion, which creates a shadow inside and locals can hide there from the scorching sun. Planters with planted plants are also located around the perimeter, which creates additional space for cultivation and also serves as a barrier from the sun. Inside the pavilion, there is light-weight furniture made from local materials - these are small cabinets and seats with storage space.







Pavilion №1 has a floor plan of 16x16m and a height of 7.5 m. There are solar panels on the roof, which generate 112,128 kWh per year. There are wicker structures around the perimeter that help collect water. Inside the furniture there are small beds with plants that are fastidious to the sun.

FURNITURE







the pavilion.

FURNITURE







PAVILION Nº3 Water collection + wind turbines

Pavilion №3 combines 2 technologies for energy and water collection. To do this, it houses 2 turbine spiral installations on each column, which help to generate enough energy (4.8 Kv*h each) without problems in windy weather. Water collection plants help not only to collect rainwater for the needs of residents, but also to serve as a barrier from the sun. Therefore, we have placed lightweight furniture made of local materials inside the pavilion so that locals can enjoy nature in the shade from the hot sun. As for rainwater, we have provided for its purification. The drained water passes through the filter, entering the container. The faucet at the base of the tank allows you to use the accumulated water for various household needs.







Pavilion №2 has a plan size of 16x16 m and a height of 7.5 m. Water is collected due to a large cloth, which is stretched around the perimeter. This technology helps to collect about 235,200 liters of water per year. There are also pots with locally grown vegetables, fruits, flowers and other plants around the perimeter of the pavilion. This helps to hide from the sun and create your own small microclimate inside



SIZE DATA

Pavilion №3 has a floor plan of 16x16 m. Its maximum height, taking into account the upper spiral turbines, is 7.6 m. There are 2 water collection modules in this pavilion. Each installation has dimensions in terms of 4x4 m, but has a different height - 5 and 6.5 m. The pavilion can hold up 235,200 liters of water per year. The pavilion houses 50 wind turbines with a capacity of 4.8 Kv*h. They can generate energy of 43,800 kWh per year.

FURNITURE







