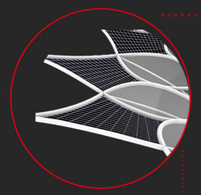
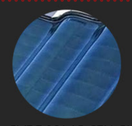
Dream Catcher

EXTERNAL FLEXIBLE SURFACE



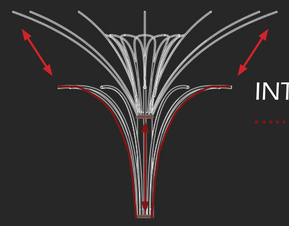


PVDF SOLAR CELL PLATE

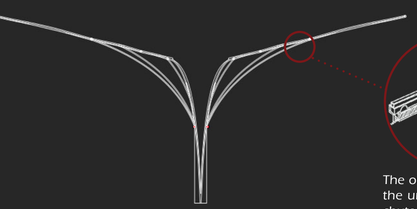
PFDT-PS HYDROPHOBIC NETWORK

TPU WATERPROOF MEMBRANE

The external flexible surface can collect rainwater, dew in the morning and solar power generation.

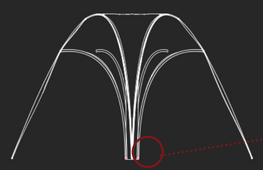


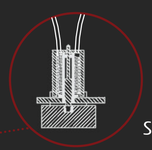
INTERNAL FRAMEWORK



TRACK CHUTE

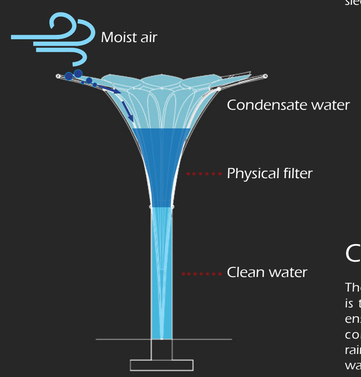
The outer flexible surface is fixedly connected with the umbrella like structure framework through a chute





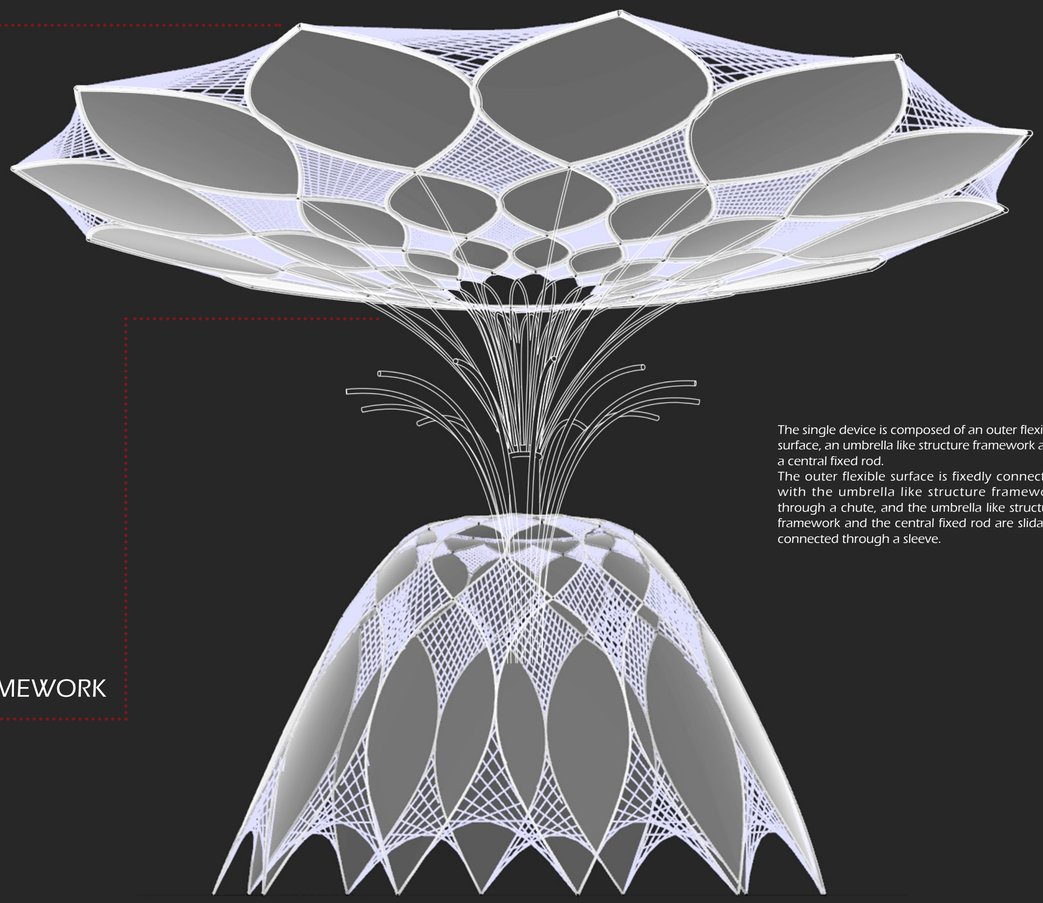
SLEEVE

The umbrella like structure framework and the central fixed rod are slidably connected through a sleeve.



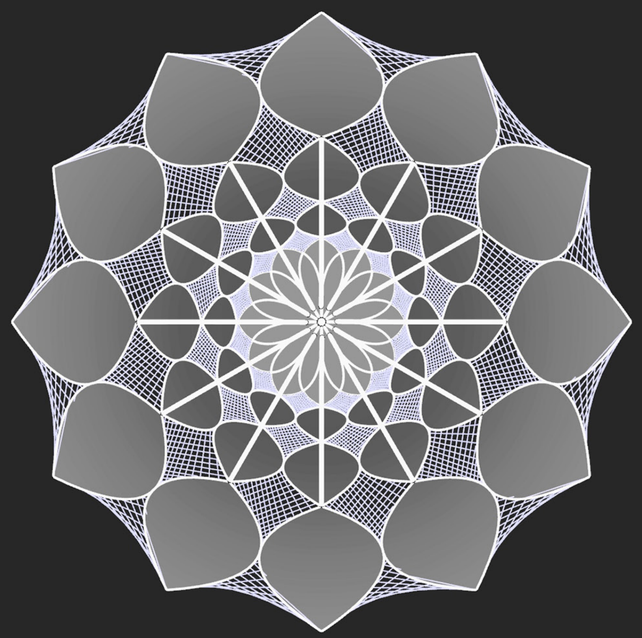
CENTRAL FIXING COLUMN

The central fixed column has two functions: one is to maintain the overall shape of the device to ensure the shape stability under different climatic conditions; the other is to store the collected rainwater and dew with the upper half cone as the water storage structure.



EXPLODED VIEW

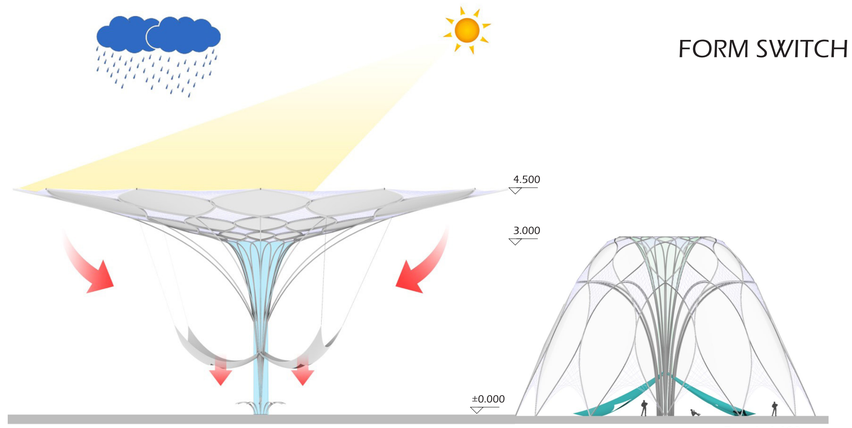
The single device is composed of an outer flexible surface, an umbrella like structure framework and a central fixed rod.
The outer flexible surface is fixedly connected with the umbrella like structure framework through a chute, and the umbrella like structure framework and the central fixed rod are slidably connected through a sleeve.



PLAN VIEW 1:50

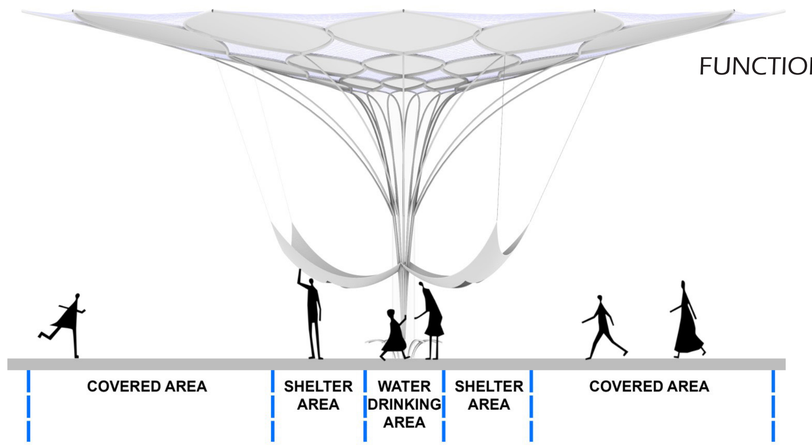
When the umbrella surface is spread out, it can receive rainwater to the greatest extent, and the existing radians can also ensure that the rainwater trickles down.

FORM SWITCH

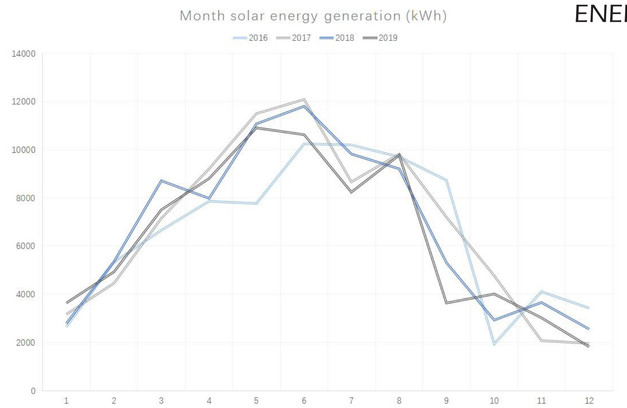


Facade 1:100

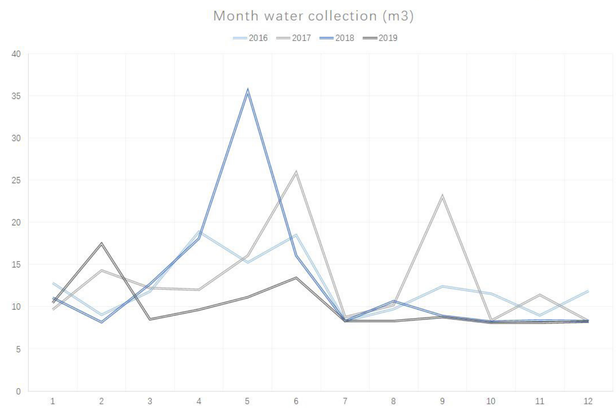
FUNCTION



ENERGY CALCULATION



Average energy generation
79723 kWh/year



Average water collection
146m^3/year