

Flowers bloom all the way

The design inspiration comes from the characteristic of plants facing the sun, and the shape is taken from the shape of Bowers. The bottom is based on circular steel pipes, and the upper part is made of solar glass panels. Multiple modular panels can be spliced together to form a solar rest area. The top of the device is designed with rainwater collection holes. Rainwater can flow into the storage device through a perforated metal slag cover, a central support column, and be filtered, disinfected, and purified for human use. In order to improve the accessibility of the equipment, a tourist route has been planned within the design area, combining multiple rest areas to provide a close-up experience and rest. While solving practical energy problems, it also promotes the development of tourism resources.

This device takes solving local practical problems as its starting point and mainly aims at solar power generation and freshwater collection. The device imitates the shape of a flower, with a bottom made of \varnothing 120MM steel pipe to ensure hygiene for later use, and a SU304 stainless steel conduit added in the center. The top is composed of three quadrilateral tempered glass monocrystalline silicon solar modules, which are spliced into a large hexagon to efficiently convert electrical energy. Every ten devices are equipped with one storage battery to meet the nighttime electricity demand of the village.



Single crystal solar panel	Single area (M²)	quantity	Quantity of electricity generation (MWh)
	6.75	Scope: 95 (can be flexibly increased or decreased according to demand)	0.1MWh
		Out of range: 50	0.05 MWh

*Chart calculated based on 1-hour power generation

Rainwater collection system	Single area (M²)	quantity	Quantity of rainwater collection (M³)
	6.75	Scope: 95 (can be flexibly increased or decreased according to demand)	92.6M³
		Out of range: 50	48.7M³

*The chart is calculated based on a rainfall of 150mm

Seawater desalination device	Single area (M²)	quantity	Total amount of quantity dilution (L)
	1.3M²	26	670L

*The chart shows the calculation of 24-hour fresh water volume

