

Solar Collection

Bula Sun will have an array of 244 410w solar panels, producing a 100kw system that can be scaled up or down depending on needs. All panels are off the shelf 410w panels so they can be easily and cheaply replaced. The panels being set in an arc allows for continual all day solar collection as the sun rises and sets.



Water Collection

The inner and outer base rings have a 2% grade incline to ensure water run off gets collected in the below ground, stainless steel water tank. This allows the tank to be protected from tropical storms and reduces the overall footprint of the full system. With an overall surface area of 569m, this system can collect 170,700 liters per month of water during the rainy season.



Durability

The slatted design allows for tropical storm winds to pass through the sails without taking the panels with it. All other parts are made of stainless steel, Aluminum and concrete, creating a simple to produce and durable instillation.

If parts need to be replaced they are all small enough that they can be easily shipped into the island. The only large pieces being made of concrete which can be shipped in and created in a mold on the island.



Stainless steel connections for durability.

Modular solar panel array on lightweight aluminum frame.

All connections to base frame use the same hardware to save and increase reparability.

Concrete supports resembling waves to fit the sail motif.

Mesh grating to and a 2 percent grade to allow rain fall to drain into water collection.

Lower concrete funnel to ensure water capture.

Stainless steel water storage. Up to 80,000 liters.

