



BIG MASI: Harvesting Abundant Energy and Water.

The surface of BIG MASI is covered with 446 square meters of thin-film monocrystalline silicon solar panels, encapsulated with an ETFE film printed with traditional Fijian masi cloth patterns. Installing 446 square meters of thin-film monocrystalline silicon solar panels in Marou Island, Fiji, is expected to generate approximately 160 MWh (160,000 kWh) of electricity per year. This is sufficient to power around 50-60 average households, assuming each household consumes 2,500-3,000 kWh per year.

The BIG MASI site covers an area of 400 square meters. If the annual rainfall in Marou Island, Fiji, is approximately 1,600 mm to 1,800 mm, the total rainfall for 400 square meters of land is approximately 640 to 720 cubic meters, which is equivalent to 640,000 to 720,000 liters of water. With collected rainwater stored in a 25-meter-long, 7.5-meter-wide, and 1-meter-deep swimming pool, as well as an expanded cluster of water storage tanks. While a portion of the harvested rainwater is used for pool circulation, the majority is allocated for local residents, guesthouses, and other facilities during the dry season, ensuring a sustainable water supply.