# Bula Tanoa: Life within a bowl.

# WATER HARVESTING & ENERGY GENERATION



Marou Village Integrated with Solar Shaded Canopies & Water Reservoir



Canopy that hosts solar panels.



Water Fountain

### Water Harvesting.

The main sources of water collection include rain harvesting intentionally on the design site, through the amphitheatre or "Kava bowl", and the shaded structures forming the pavilion. A reservoir is built across the stormwater channel, providing an additional source. All of this accounts for over 3 million litres of water for villagers for domestic consumption and agriculture. Sea water and hard well water provide supplemental water to the village. The salt water is desalinated using solar-powered reverse osmosis with energy-recovery devices, saving up to 75% energy consumption. Wastewater is treated and managed through green filters/constructed wetlands using aquatic plants that naturally filter and recycle water, promoting self-sufficiency and sustainability



Underground Water Cistern

## I) ENERGY GENERATION DIAGRAM



# II) WATER GENERATION DIAGRAM





