

# BURE RING

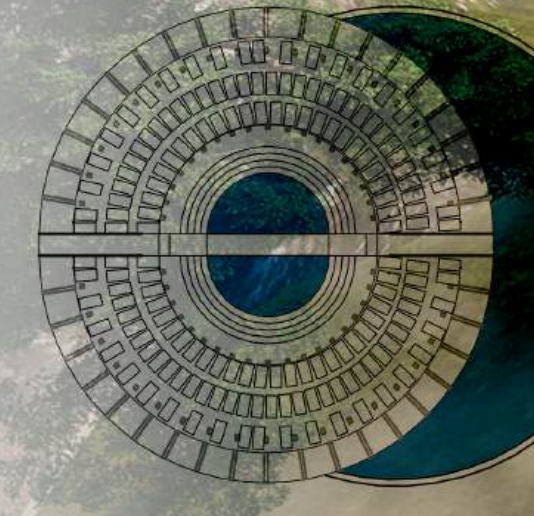
...a climate-resilient shelter



A circular donut shaped form considered to be a cyclone resistant structure, so initially circular form was created with a central courtyard with a pond.



The structure will accommodate 67 households during cyclone or adverse climate situation and also an enclosure for Cold storage units used for caught fish etc.



So, to bifurcate the Community space and the Service space, the circular block is divided into two halves with a passage in the mid which enters into a courtyard and divides the large central pond into two smaller D-shaped central ponds with a bridge between them which act as a passage.

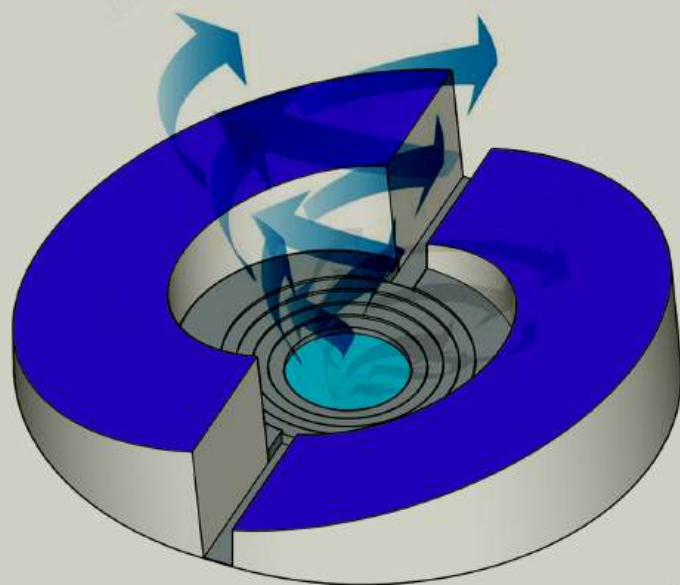


## Marou Village, Fiji: Coastal Community Challenges

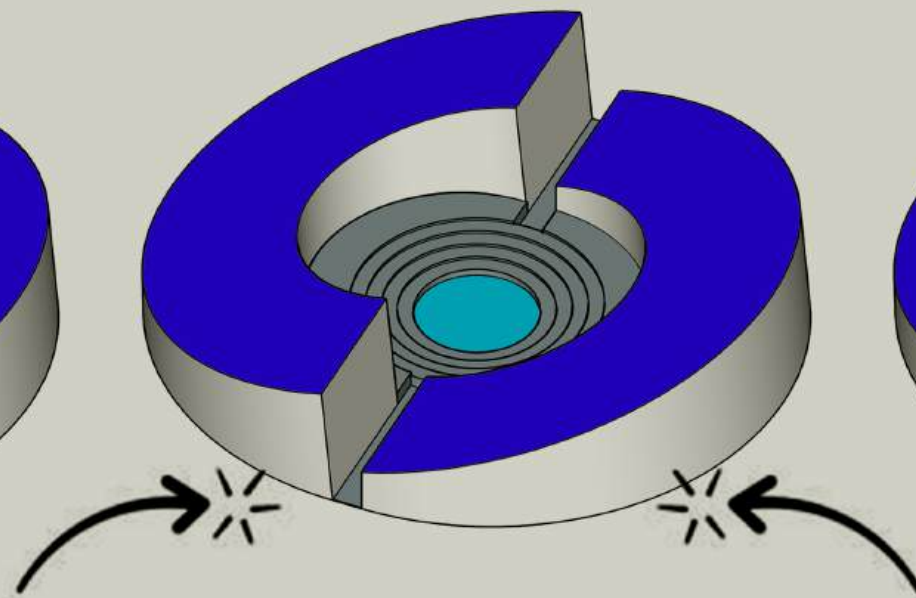
Climate change is a global issue and the Marou village in Fiji in Oceania isn't remain untouched with huge impact on the lives of its residents, it resulted I rising sea levels, rapidly warming waters, prolonged droughts and storms of increasing severity due to atmospheric greenhouse gas pollution.

### Concept Narrative

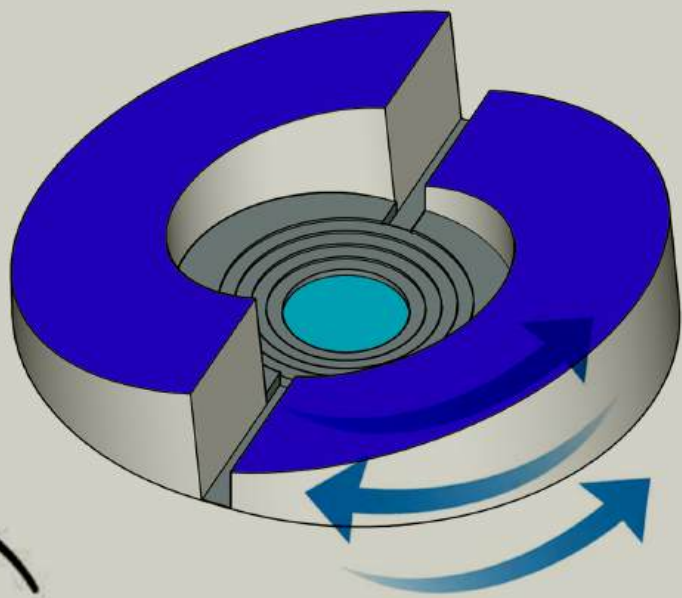
In adverse climatic situations as Fiji experience the Cyclone of range 5, which is a highly severe category, a sustainable cyclone resistant structure has been proposed BURE RING, the term derived honouring traditional homes 'Bure' in traditional Fijian houses which are of vernacular typology and were cyclone resistant structures. It is often observed that renewable energy elements when merged in a built form often tends to degrade the aesthetics of the architecture. In designing the Bure Ring, it has been taken care that the renewable energy elements not just only act as a catalyst to the functioning of the building but also enhances the aesthetics of the built form. In fact, the form has been derived to facilitate the renewable energy elements.



CYCLONE-RESISTANT



EARTHQUAKE-RESISTANT



WIND-RESISTANT

### Wind Resistance

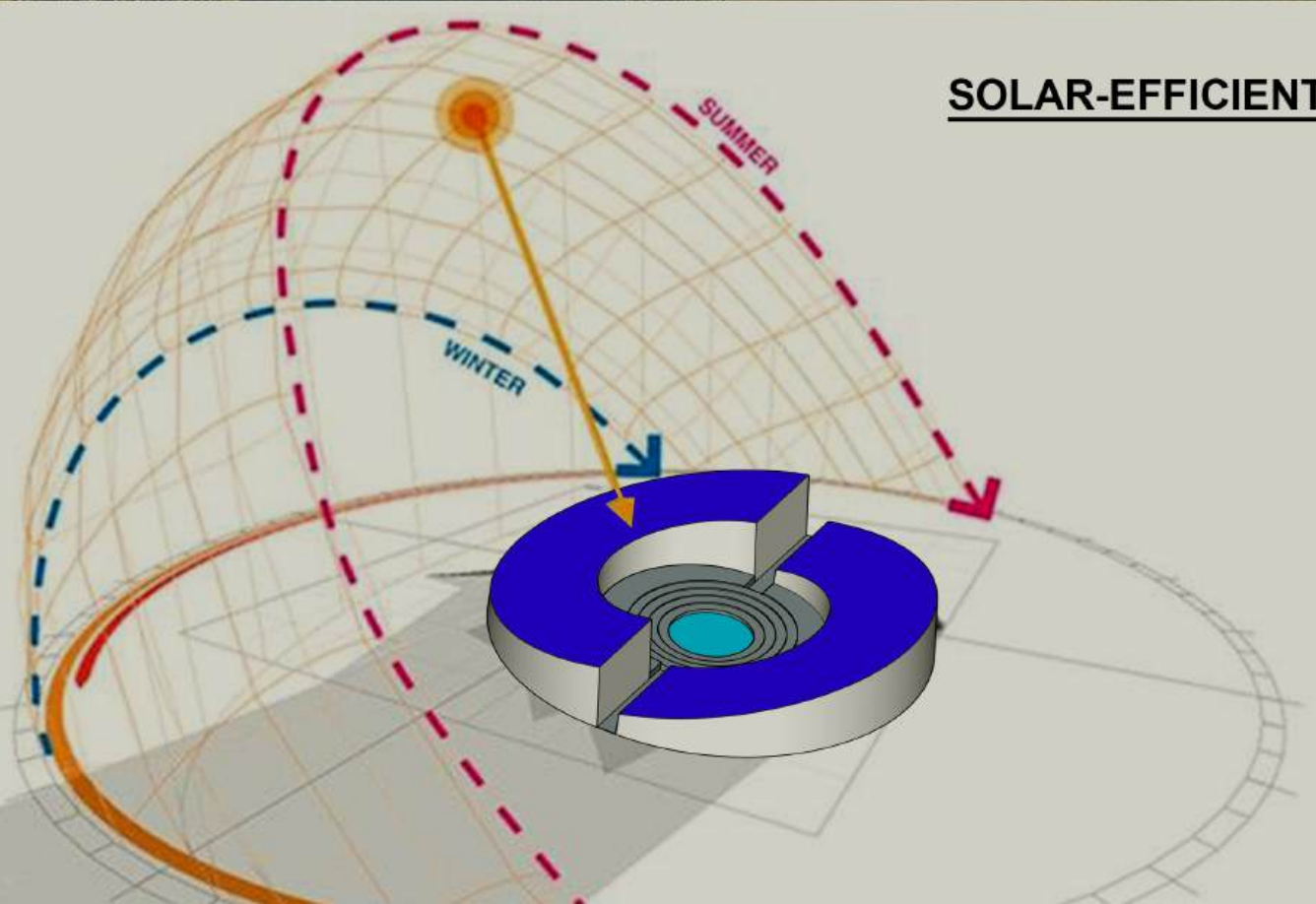
The aerodynamic shape of circular buildings minimizes wind turbulence. Wind flows smoothly around curved edges.

### Solar efficiency

Circular form provides 360 degrees orientation for placement of solar panels to capture sunlight.

### Cyclone Resistance

With no sharp edges to catch gusts, circular buildings are better suited to cyclonic winds. Continuous rounded surface helps reduce drag, lowering chances of structural damage during extreme weather events.



## SOLAR-EFFICIENT