1. **Concept Narrative**

Our design on Naviti Island, Fiji proposes a covered open-air community hall. The structure centers on a multifunctional roof that generates solar power, collects rainwater, and provides shelter. We would fix solar panels to the roof. The roof is supported by a modular steel frame with screw holes wich enables different configurations using locally sourced materials (e.g.: bamboo, palm trees, fishing nets), encouraging residents to adapt and co-create their own spaces. This co-creating can be a community building tool too. Underneath the stucture is the water tank, wich would fill up with rainwater, this can be filtered into drinking water, or used for the later mentioned vertical gardens.

1. **Technical Narrative**

* This space can serves as a market hall, playground, social venue and community garden. We encourage the locals to install vertical gardens made of felt to the structure (to the pillars, or between the pillars as a wall), wich can be irrigated by collected rainwater, this can offer natural cooling. Conversation pits and smaller zones encourage gathering and social connection. The project delivers practical benefits - clean energy, water, and a communal place for exchange and community growth.
* solar panels on the roof can produce around 50,000 kWh of electricity annually. The angled roof design harvests up to 500,000 liters of rainwater per year, used for irrigation and other non-potable needs. Vertical gardens enhance biodiversity and nutrition.
* The system inputs are: sunlight and rainwater.
* The system outputs are: electricity, clean drinking water, and possibly edible crops from the vertical gardens.

1. **Prototyping and Pilot Implementation Statement**

We will begin with a prototype to test modular adaptability. we would hold workshops with the community members to co-design and assemble the space. This process fosters local skills, ownership, and lasting engagement. Later the locals can choose how they would like to proceed with the project.

1. **Operations and Maintenance Statement**

Operation and maintenance are simple and community-led. Residents will be trained to clean the solar panels, maintain tanks, and tend gardens. Maintenance roles can rotate or be shared among locals, reinforcing collective responsibility.

1. **Environmental Impact Assessment**

This project supports environmental sustainability, local empowerment, and cultural continuity through a space designed by the people, for the people of Naviti Island.

The environmental footprint is low. Solar energy reduces emissions, rainwater collection brings easy access to water, and modularity limits land disruption, vertical gardens bring ecological benefits while encouraging self-sufficiency. The main problem can be tropical storms. The roof, and solar panels need to comply with the regulations.