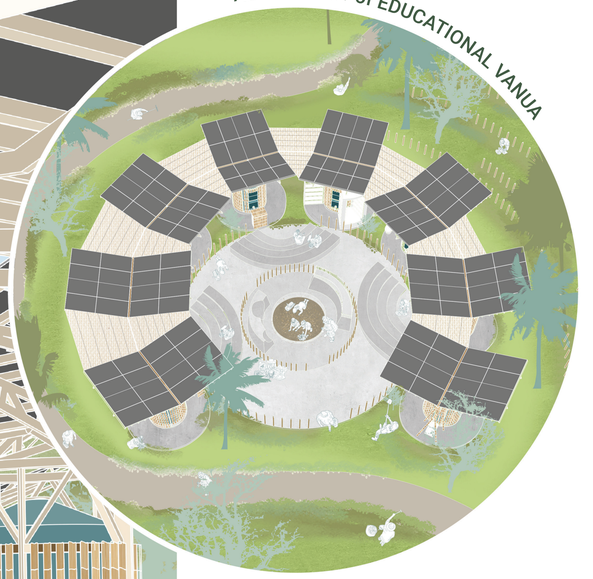
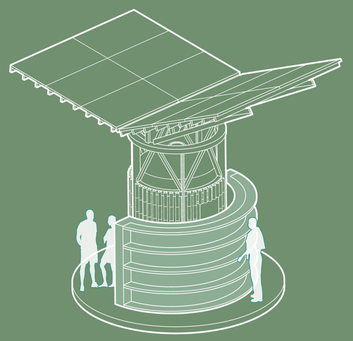
PERSPECTIVE VIEW of COMMUNITY VANUA

Vanua Sun-Well is rooted in the Marouian community. Designed to be scalable, the first prototype unit of the proposal is self-sufficient and can be constructed as a working, performative, demonstration pilot. In addition to supplying fresh water, the prototype will produce substantial power for both on-site and community-based needs. If successful, additional units can be constructed concentrically in the geometric array illustrated in the proposal. In addition to facilitating larger community-based activities to occur, this accumulative organization could allow for scalable energy that could begin to power village homes and hold volumes of water for long-term use. The proposal is conceived as a regenerative community infrastructure—an installation that minimizes environmental impact while actively enhancing local ecosystems and community resilience. Rooted in vernacular tradition and sustainable technologies, the project addresses urgent environmental challenges such as water scarcity, energy access, and resilience to climate change through an ecological and culturally grounded approach. The proposal is also designed to enhance local biodiversity in a variety of ways. The semi-open structures allow natural air ventilation and light flow, supporting under-canopy growth. The shaded cistern bases create cool, moist microclimates that encourage pollinators and beneficial insects. Planting palettes will prioritize native species and landscapes that support both ecological and human nourishment. The proposal's array of units is intentionally sited and designed to sit between and preserve existing tree plantings while also integrating and encouraging new planting zones, acting as a connective habitat corridor within the village. Altogether, *Vanua Sun-Well* offers a model for environmentally attuned, culturally rooted community driven design. Through thoughtful land use, integrated water systems, and biodiversity-supportive strategies, the installation not only avoids ecological harm but creates a layered and living infrastructure that actively contributes to the restoration and resilience of the local ecosystem.

AERIAL VIEW of EDUCATIONAL VANUA

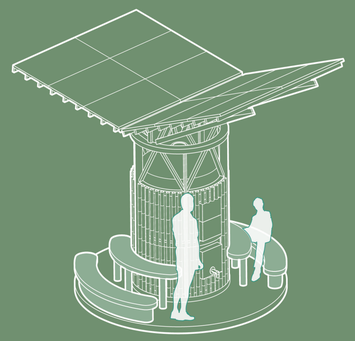


PERSPECTIVE VIEW of APPROACH from VILLAGE



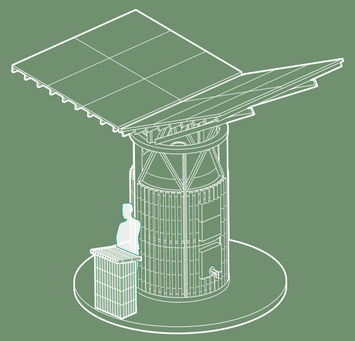
STORAGE MODULE

For storing various community needs, including crops and vegetables from the expanded community gardening areas on site, as well as equipment, etc.



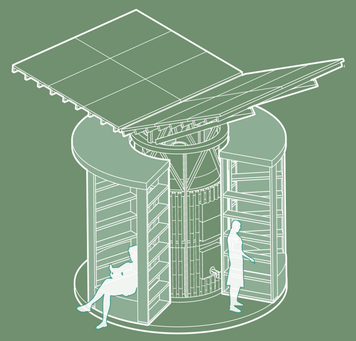
SEATING MODULE

For resting, socializing, dining, reading, working and any other community interactions for social exchanges to occur



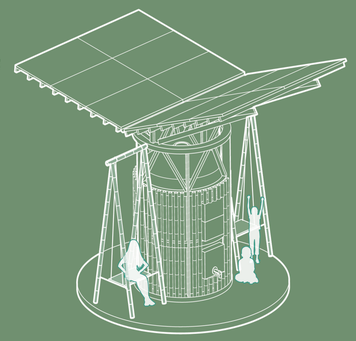
LECTERN MODULE

For group-based activites, best paired with the educational vanua and outdoor classroom; for lectures, community meetings, or other collective gatherings



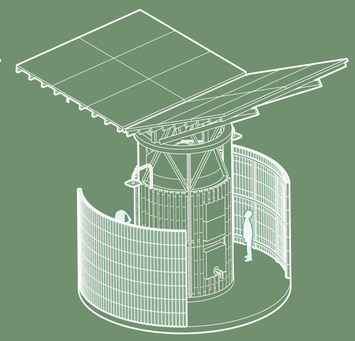
SHELVING MODULE

Integrated with more seating, this module could shelve books that frame a reading nook, or hold other useful items including when phones and other devices being charged by the unit



SWING MODULE

Fun and playful, a module for turning the unit into a playground for children and families to socialize and enjoy



SHOWER MODULE

Utilizing the filtered water from the unit's cistern and powered by the unit's battery, a module for outdoor showering after a long day of work or play

UNIT COMMUNITY "BASE" MODULES

While the foundation, structure, and roof array form a standardized replicable "unit", the prototype can also become uniquely adapted, configured, and integrated with community needs. A series of diverse fabricated base components can be attached to each standardized unit to allow for different social uses to occur. These range from furniture components like benches, tables, and shelving/storage, to recreational components like a swing, to more performative components like an outdoor shower. Designed with possible community needs in mind, it is up to the local Marouian to decide which social toolkit component they want to mix and match to customize each standardized unit. The hope is that the community will also propose other components to incorporate in the unit configuration "library". This open system allows each unit to performatively function for standardized energy & water harvesting, while simultaneously fostering different social activities underneath. This flexibility means that the prototype itself becomes a collaborative, community-building, and bottom-up initiative, designed to empower and support the diverse needs and future growth of the Marou village members.

Every step of the project—from modularity to materials—prioritizes stewardship. Regular maintenance, including leaf clearing from PV panels and cistern inspection, becomes a community ritual that fosters long-term care. The flexibility of the modular system ensures that future growth can continue without disrupting sensitive areas, adapting to both environmental and community needs.