



The Solar Pavilion is a modular, community-centered structure designed to provide both clean energy and a gathering space for the people of Marou Village in Fiji. It is built using locally sourced materials such as coconut palm timber, woven fiber mats, and strong ropes. Its modular design, based on 6.4x6.4 meter units, allows for future expansion. The structure supports an array of solar panels, the angle of which can be manually adjusted each month using a pulley and rope system to optimize solar efficiency. Beyond its technical function, the pavilion also serves as a shaded, welcoming communal area for events, performances, and markets, enriching the social and cultural life of the village.

Community Engagement and Design Process

The project places strong emphasis on community participation. The design process begins with public meetings and design workshops where local traditions, knowledge, and aspirations are integrated into the final structure. Open forums are used to gather feedback, adjust plans, and ensure that the pavilion meets both practical and cultural needs. Local residents are actively involved throughout construction, gaining experience in coordination, problem-solving, and long-term planning. This participatory process fosters a sense of ownership and connection to the pavilion, ensuring that it is embraced not only as an energy system but also as a vital community hub.



solar pavilion for the community