

Solar Farm, Solar Trees

Ecological Solar and Rainwater Farm in the South Pacific

Drawing inspiration from the natural forms of Fiji's local biome, this rainwater and solar energy collection farm will provide year-round renewable energy and water to the Marou community. The solar farm consists of six solar trees with sturdy bases and flared tops, maximizing solar gain while offering shade and protection for expanded community spaces and walking trails below.

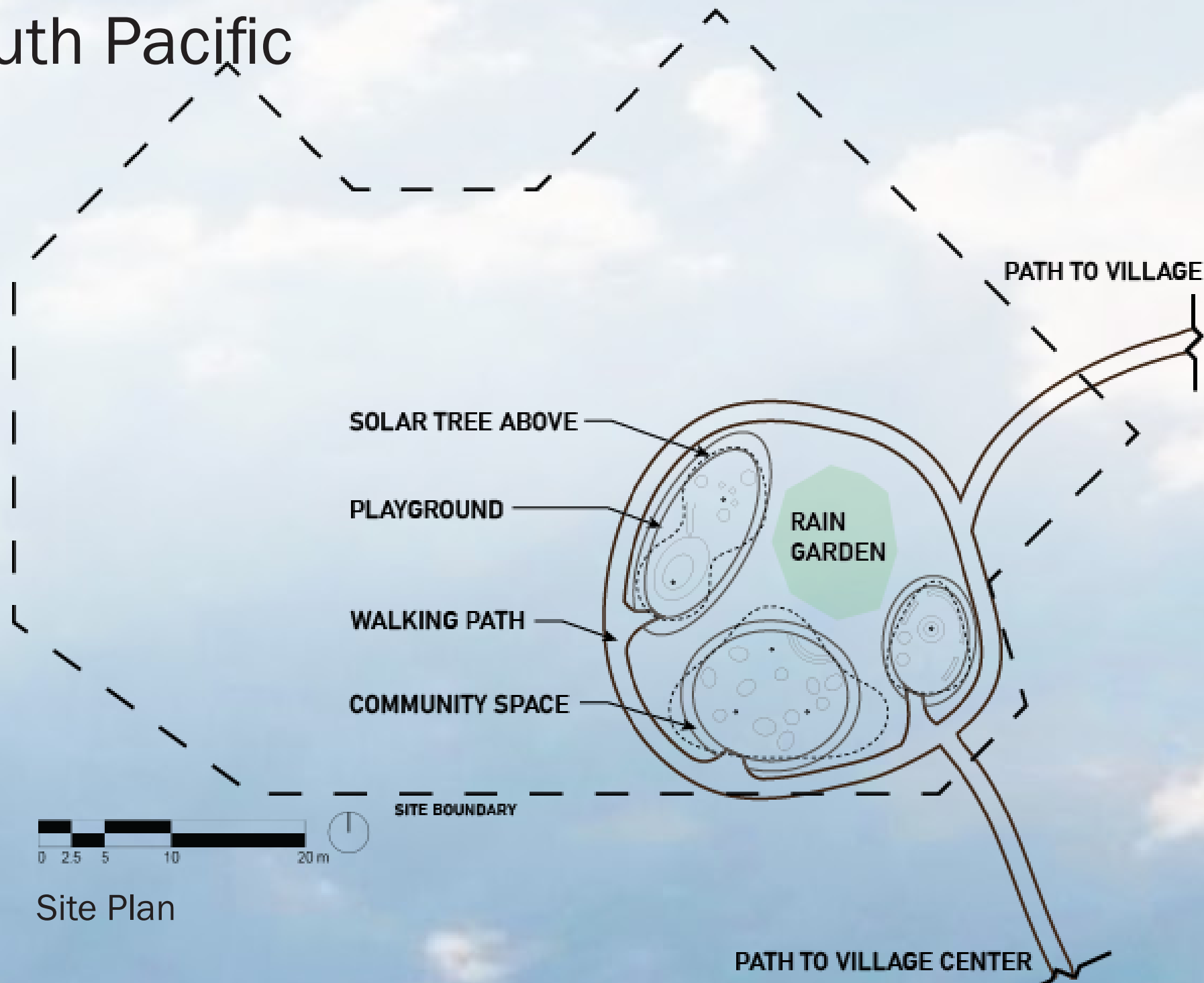
The project is designed to minimize land interventions and reduce its ecological impact on the community. Despite their size, the structures are thoughtfully integrated into daily life, serving as supportive rather than disruptive elements. By incorporating indigenous materials and design elements, the development fosters a sense of continuity, making it both welcoming and recognizable. The farm is designed with resilience in mind, incorporating a rain garden to collect runoff and a layout that ensures the vegetation within the solar farm continues to receive sunlight and thrive.

Solar Farm Performances and Functions

Electricity Generation:
136,779kWh/Year

Rainwater Harvesting:
1453 M³/Year

Social and Ecological Functions:
community spaces, playground, rain garden



Site Plan



Solar Farm Rendering



Solar Farm Rendering



Solar Farm Rendering