

## Photovoltaic Power Station

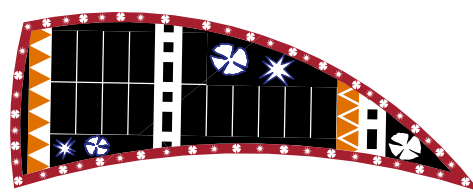
A solar power plant powered by photovoltaic panels is at the heart of this project. Given the **space constraints of a rooftop installation**, our analysis led us to select the **Jinko Tiger Neo 625W panel** due to:

- **High efficiency** (maximizing power per m<sup>2</sup>).
- **Lower cost** compared to European alternatives.
- **30-year warranty**, ensuring long-term performance.
- **Reduced structural and labor costs** (optimized for rooftop use).

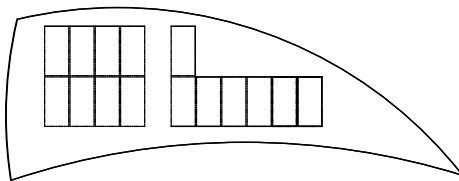
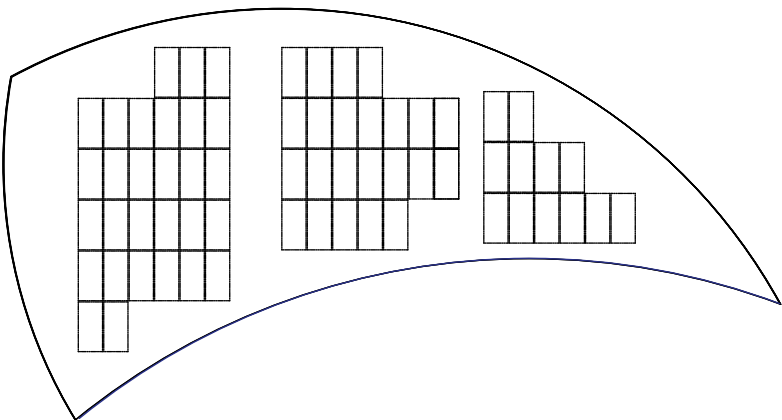
This choice **balances performance, cost, and space efficiency** for an optimal rooftop PV system.



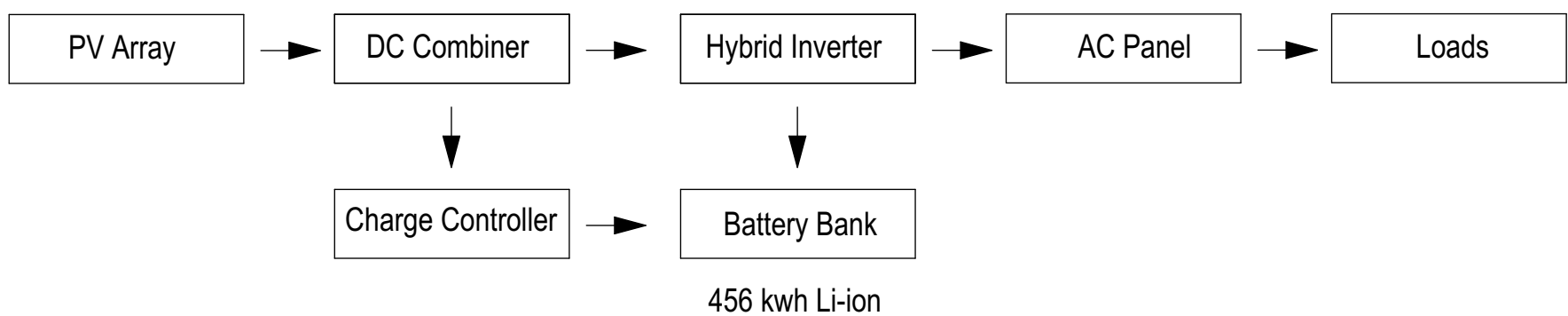
Main Support for Photovoltaic Panels



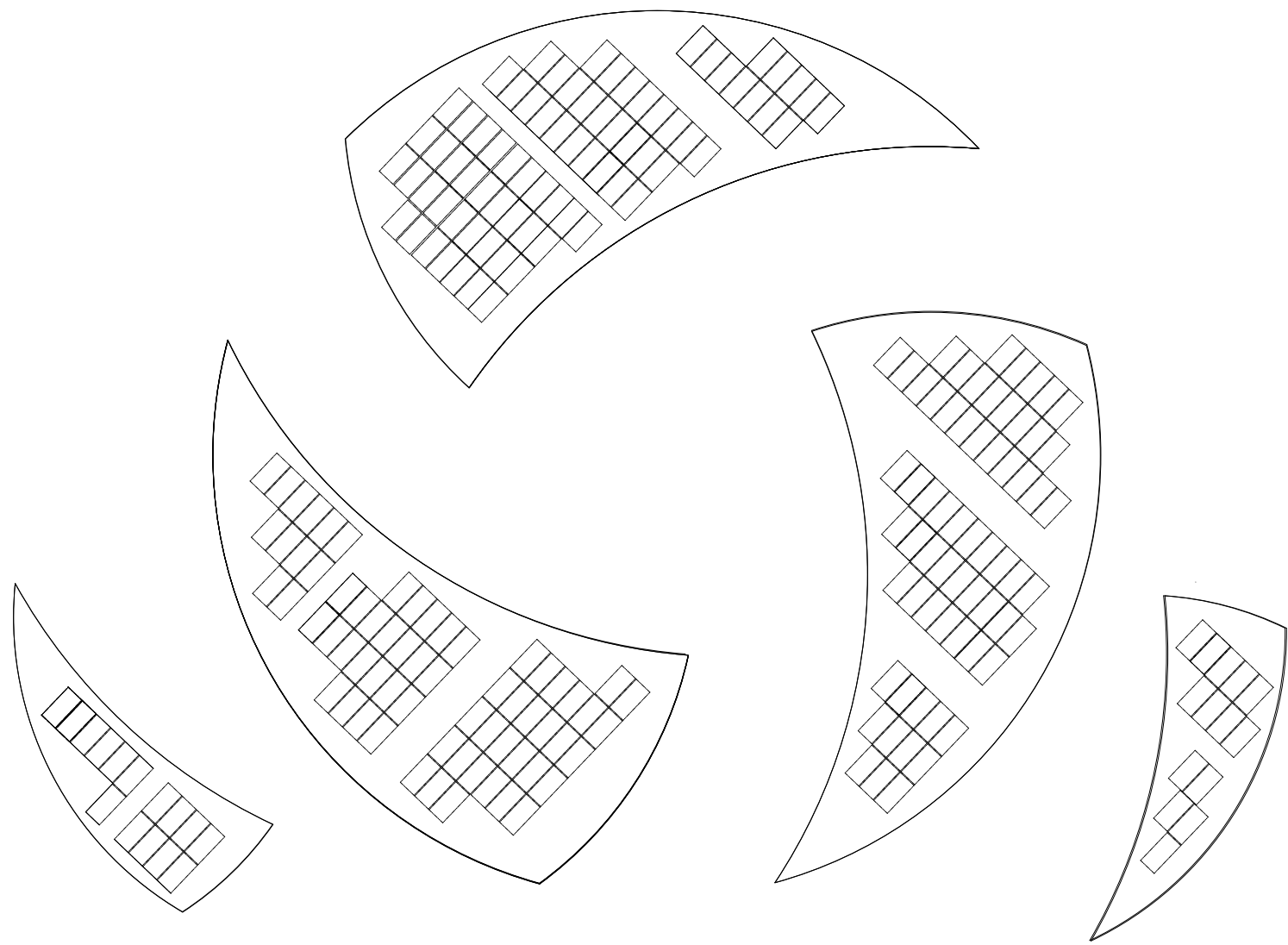
Secondary Base for Photovoltaic Panels



Coconut fiber straw insulation, stabilized by a thin layer of concrete, protects the spaces beneath the photovoltaic panels while ensuring robust anchoring. Two large structures will house community facilities determined through consultations with the residents of Marou. The third structure will provide a covered area for village celebrations and events. The smaller structures, designed as additional shelters, can also host activities or protect specific spaces.



## Public Lighting and Exterior Landscape



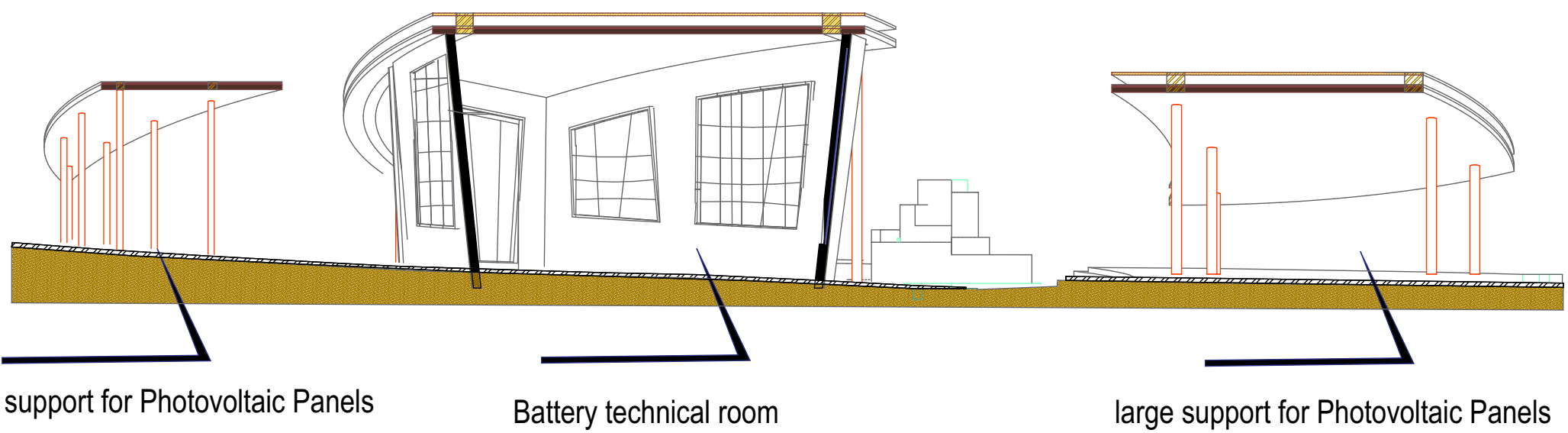
Arrangement of PV panels on concrete structures

This project celebrates the forces of nature and their power to inspire architectural solutions that intertwine symbolism, sustainability, and innovation. It envisions a space where art, culture, and technology converge to reconnect humanity with its roots and environment, while offering an aesthetically and culturally rich space.

## Reinforced Concrete Structures and Their Uses

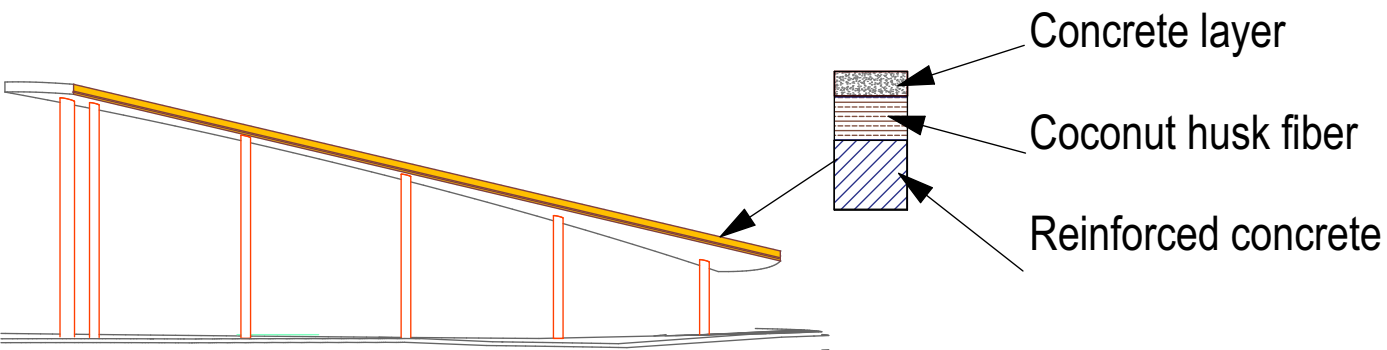
The reinforced concrete structures, selected for their durability against strong winds and frequent cyclones, support photovoltaic panels. The project includes three large structures and two smaller ones, the latter designed to be multiplied in a circular progression to meet future needs. Existing bamboo structures on the site complement the form and can be replaced with concrete versions if necessary.

To reduce the carbon footprint, the concrete incorporates local materials such as regional aggregates and eco-friendly binders, optimizing water resource management while ensuring enhanced resistance to corrosive climates. Inspired by natural forces, the helical shapes combine aesthetics, symbolism, and landscape integration.



Scale :1/650

Coconut fiber straw insulation, stabilized by a thin layer of concrete, protects the spaces beneath the photovoltaic panels while ensuring robust anchoring.



Section through the concrete structure

Scale :1/330