KORO CORAL | IMPLANTATION RELATIONSHIPS

ENERGY ANALYSIS

Solar Panel Specifications
Model: Tindo Karra 330P
Nominal Power Output: 330 W

Panels 1.73x1m = 1.73m²
Total panels per module x 23 units = 39.56m²

Total Number of Panels: 773

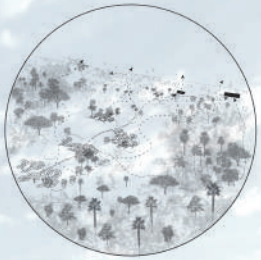
Applying the Calculations (for example, in January)
Daily energy per panel (kWh/day)=Panel power (kW)×Peak sun hours (h/day)
0.33 kW × 6.47 h/day = 2.1351 kWh/day
Total daily energy (kWh/day)=Daily energy per panel (kWh/day)×Number of panels
2.1351 kWh/day × 773 panels = 1,650.93 kWh/day
Total Monthly Energy
1,650.93 kWh/day×31 days=51,178.83 kWh

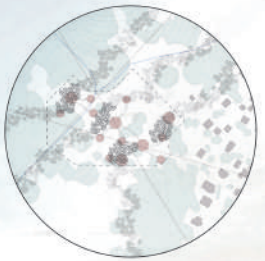
Month	Peak Sun Hours (h/day)	Total Daily Energy (kWh/day)	Total Monthly Energy (kWh)
January	6.47	1650.93	51178.83
February	6.29	1605.71	45361.88
March	5.80	1480.18	46045.58
April	5.22	1332.59	40027.70
May	4.55	1161.58	36013.98
June	4.29	1095.17	32875.08
July	4.52	1154.36	35793.16
August	5.28	1347.29	41767.99
September	5.79	1464.85	44545.46
October	6.51	1661.62	51512.93
November	6.62	1689.96	50698.80
December	6.62	1689.96	52383.66
Annual Total			526168.474kWh

MASTER PLAN

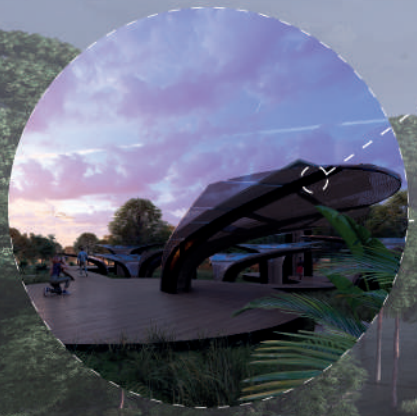
The project begins with four initial clusters, connected by platforms and plazas that foster community interaction. This layout establishes a foundation for gradual expansion.

From there, three bands extend along the topography, linking the village to the sea. Inspired by coral reefs, these bands symbolically strengthen the community's identity, much like reefs support marine ecosystems. Rather than a physical barrier, the project weaves a network of spaces that promote social and cultural cohesion, reinforcing the village's deep connection to its environment.





VILLAGE AND SEA CONNECTION



1. Anti-corrosive galvanized steel

3. Heat-cured bamboo thatch

2. Acrylic

4. Wood

LONGITUDINAL SECTION