

Material Language and Structural Ethos

the time, it breathes with the land and the people.

Workshops on sustainable beekeeping practices, honey Though the materials are industrial, the forms are organic, fluid, and extraction, and hive health monitoring can be held here, with deeply tied to the environment and community. The design visiting experts or local elders sharing wisdom with younger minimizes concrete, allowing grass and soil to breathe, with generations. The architecture invites communal ownership: this is structures raised slightly to avoid flooding during the rainy season. not a hall for the few, but a hearth for all.

At the heart of the park stands a modest yet vital structure—a hall Steel forms the skeleton of the solar park—a conscious decision rising 2 to 3 meters high, constructed from durable and locally- based on durability, resilience to salt-laden air, and the potential for reinforced steel. Unlike conventional halls, this one is porous and modular construction. The steel is treated to withstand the tropical adaptive, defined more by its openness than its walls. It serves as climate, ensuring the park's longevity. The hexagonal frames that a space for beekeeping teachings, social gatherings, community hold the solar panels are mounted on pivoting arms or embedded planning, and ceremonies. Large sliding panels or curtains can motors, allowing each panel to rotate and track the sun close off parts for privacy or weather protection, but for most of independently, a high-tech homage to the flower heads that turn to face daylight.

> The modularity also supports potential repair and upgrade with minimal disruption.



Geometry Inspired by Nature

At the heart of this project lies the geometry of the hexagon, nature's most efficient and elegant form, used by bees in their honeycombs. The solar panels themselves take on this form, arranged in clusters to resemble flowers-a motif that not only connects to the bees but also reflects the blossoming of community life. Each hexagonal solar panel is a modular element that turns independently, tracking the sun to maximize energy efficiency throughout the day. These panels are engineered with variable forms, allowing for creative and organic layouts, avoiding the monotonous regularity of industrial solar farms.

The hexagon's natural symmetry enables interlocking structures, allowing for easy expansion or reconfiguration. The inclusion of both three-hexagon and six-hexagon flower-like forms offers a variety of spatial experiences and visual rhythms. Some of the panels are deliberately designed with central or edge voids—left out patches within the hexagons—that allow sunlight to pass through to the ground, creating warm pockets of light beneath the otherwise shaded canopy. These gaps transform the space from purely functional to intentionally lived-in.



These sun-filled clearings within the hexagonal structures are more than architectural features they are cultural and communal anchors. Here, lovos—traditional underground ovens—can be placed, allowing families to gather and cook in shaded comfort. In other patches, child care areas are designed, giving young children a safe and stimulating space to play while remaining within proximity of their parents working or participating in community activities. Little gardens also flourish in these spaces, planted with flowers, herbs, and crops that support both bees and people.

The flexibility of use beneath the solar panels enables a spectrum of human activity—from casual gatherings and storytelling circles to organized workshops and celebrations. The shade provided by the panels mitigates the tropical heat, creating comfortable microclimates, while the intermittent sun patches allow for natural lighting and ecological diversity.



Life Beneath the Solar Canopy





