The supports of the structures — elegant columns — are not just framework elements. Inside them are vertical hydroponic systems where edible and decorative plants are grown. Irrigation is provided by water collected from the water-harvesting membranes. Thus, the project creates a "closed loop" — from collecting moisture to using it for greening. In turn, the plants provide shade, purify the air, and make the space beneath the structures cool and comfortable for people.

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## LAGI FIJI 2025

The structures are stretched like light membranes — these are "fabric roofs" made from two innovative types of materials: flexible solar panels based on CIGS (Copper Indium Gallium Selenide) and fabrics with water-harvesting properties that mimic the microstructure of Namib Desert beetles. One type of module is primarily oriented toward energy generation, another toward moisture condensation from the air, and a third combines both functions. This hybrid system ensures the project's autonomy in terms of energy and water by maximizing the use of natural resources — the sun and humid tropical air.