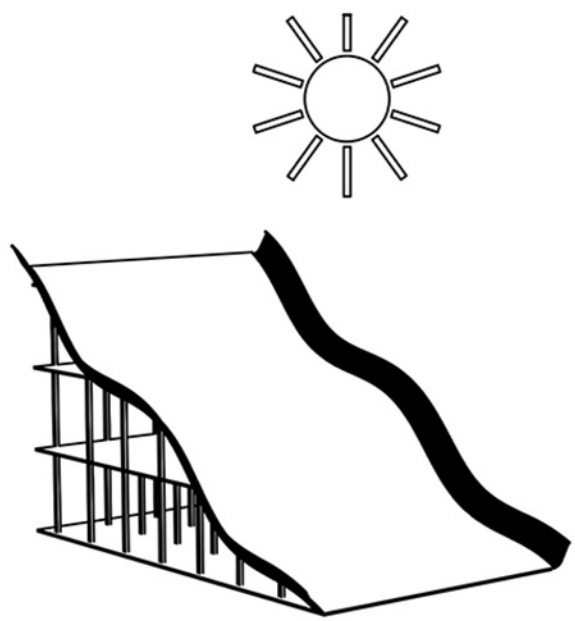
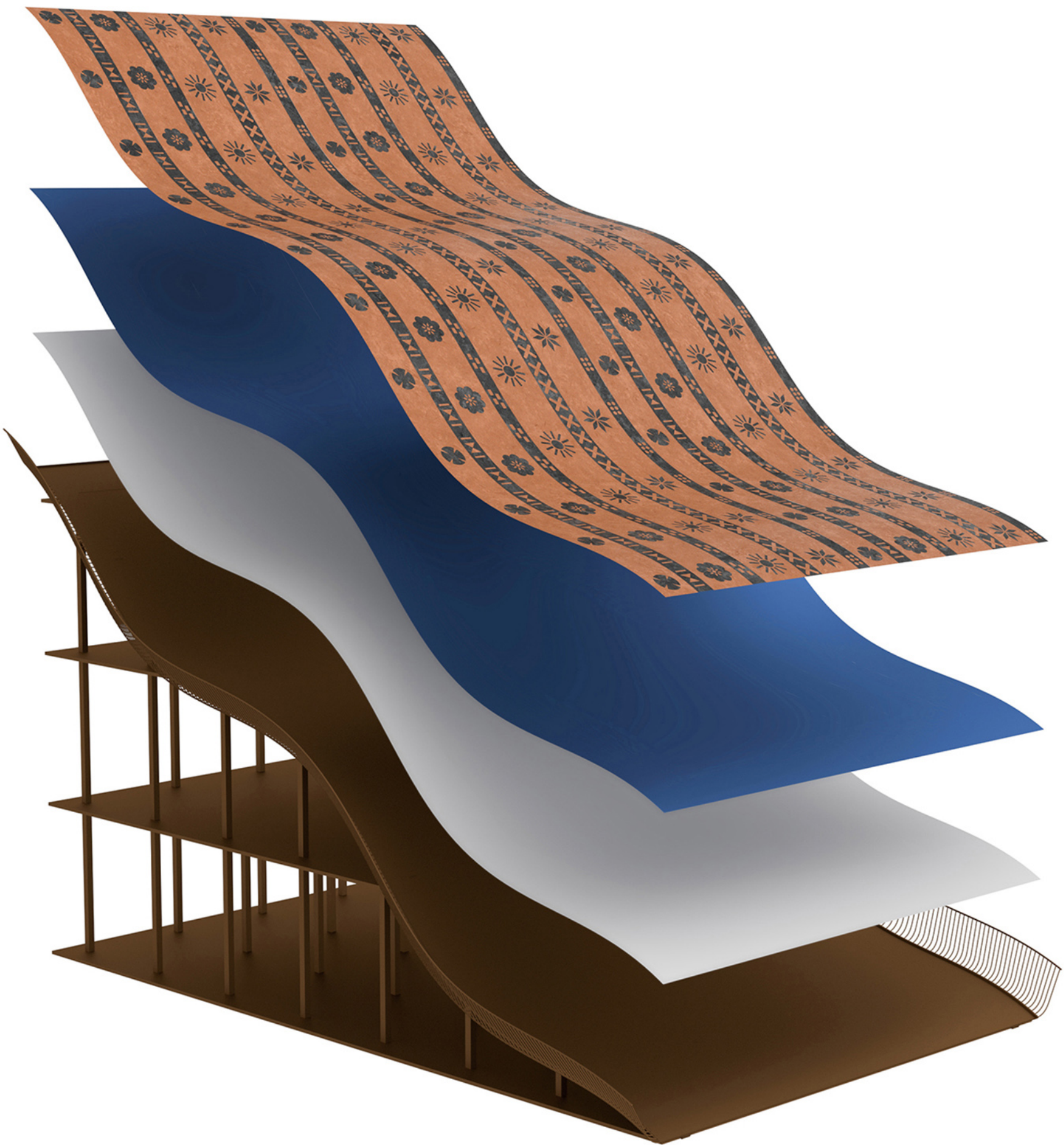


The **ETFE membrane** features 95% light transmittance, a 35-year lifespan, and excellent abrasion resistance, making it highly durable and easy to clean. Its surface is etched with micro- and nanostructures (such as nano-gratings or microlens arrays), enabling ink-free, colorful patterns without compromising the energy conversion efficiency of the solar panels.

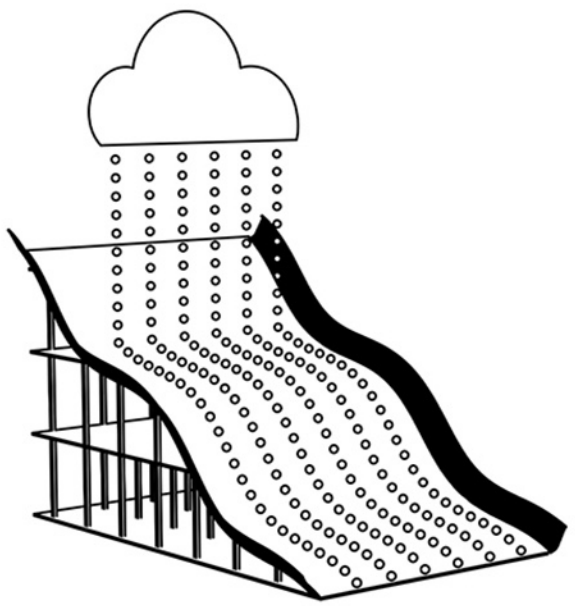
The **monocrystalline silicon thin-film solar panels** are 75% lighter than traditional panels, significantly reducing transportation costs while achieving an impressive 23% conversion efficiency.

The **EVA (Ethylene Vinyl Acetate) layer** acts as a protective cushion, absorbing external impacts and vibrations to prevent damage to the solar cells. This enhances the overall structural integrity and durability of the system.

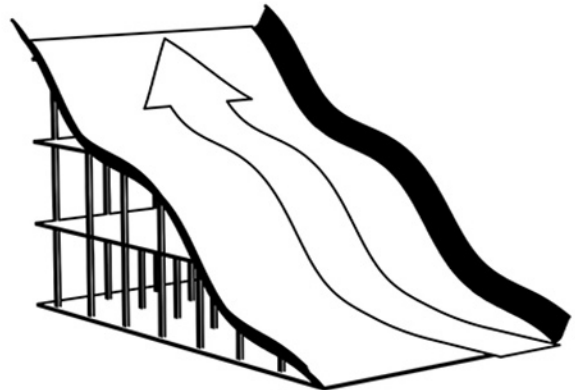
A **structural frame made of 304 stainless steel square tubes and steel plates** is welded together and coated with anti-corrosion treatment, ensuring a service life of over 30 years, even in high-salinity, humid, and hurricane-prone environments. (Training a few local Marou Island residents in stainless steel welding would not only enable them to participate in the construction and maintenance of MASI but also equip them with the skills to support solar power station projects across other regions of Fiji.)



A 436-square-meter solar panel array is installed on a 400-square-meter site, fully leveraging Fiji’s abundant sunlight near the equator.



The 30° inclined surface allows rainwater to naturally flow into the swimming pool and storage facilities.



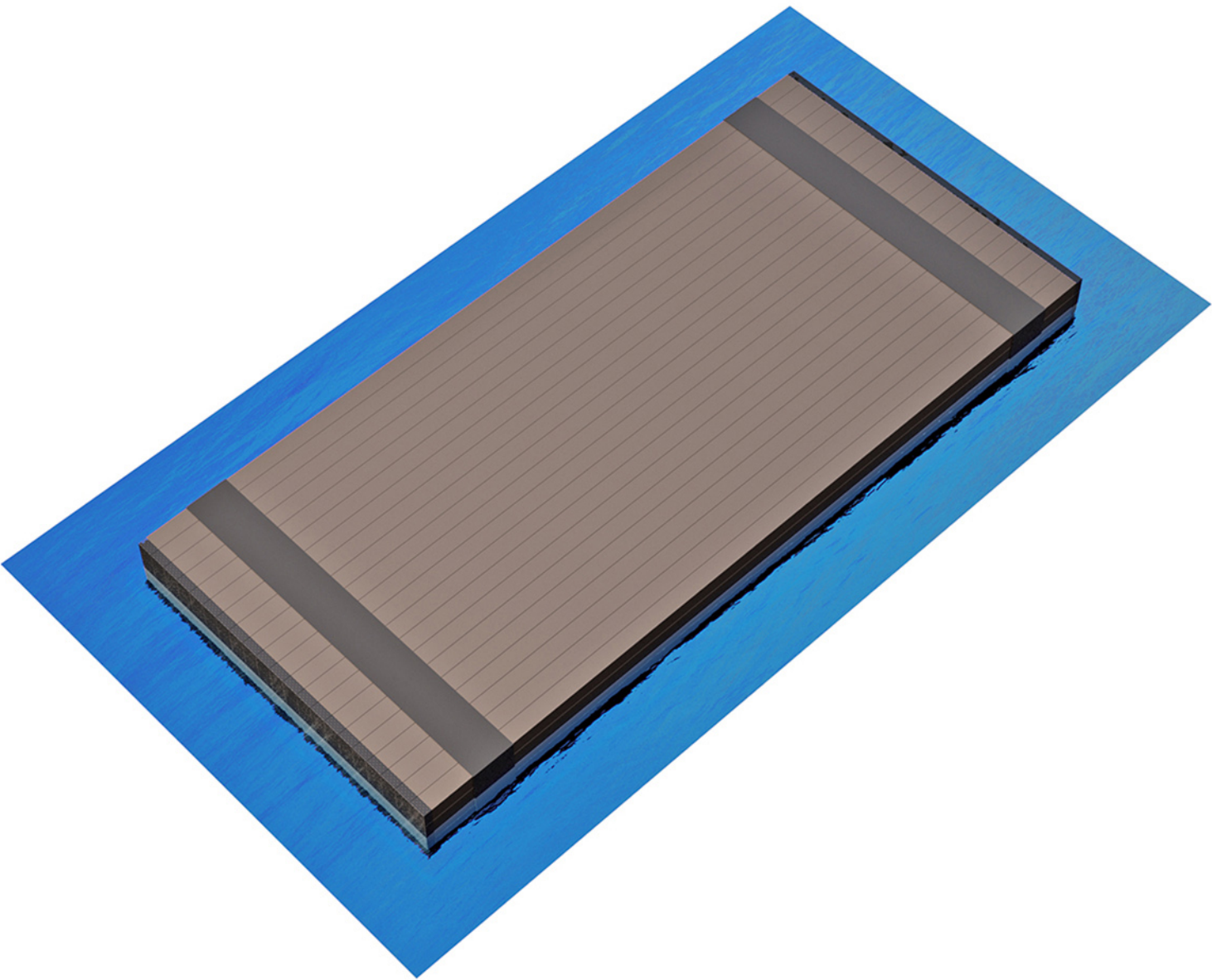
The lowest edge of the slope integrates with the ground and faces the direction of incoming hurricanes, enhancing the structure’s stability and resilience.

BIG MASI: Focused on Practicality and Sustainability.

The stainless steel square tubes and steel plates can be cut, welded, and adapted to various terrains and environmental conditions, making the structure modular, scalable, and replicable.



By bundling multiple sealed stainless steel square tubes, a raft-like platform can be formed. Placing steel plates, solar panels, and other materials on top allows the structure to be towed by conventional cargo ships, drastically reducing transportation costs for delivering materials to remote islands.



Zero Waste! Any surplus stainless steel tubes and plates can be repurposed for repairs, expansion, or even furniture fabrication (e.g., tables and benches) to serve the local community.

