WEAVING SUNRISE

The Siga Siga system consists of 24–25 modular pavilions, each producing approximately 3.2 kW of solar energy through 8 roof-mounted panels. Panels are tilted at 15° and oriented to match daily energy demand. Surplus power is stored in offsite batteries to support evening use and backup needs.

Integrated gutters collect rainwater from the solar surface, directing it to a bioswale system that filters and stores water for irrigation and flood mitigation. Each pavilion is surrounded by a two-layer rope curtain—neutral outside, vibrant inside—that opens at sunrise via a cable system. The curtain's 30–60% porosity helps reduce wind loads on the structure.

All components are designed for ease of maintenance and local assembly using standard steel, natural ropes, and commercially available solar systems. Together, the installation supports clean energy access, water management, and climate resilience in remote village settings.



KINETIC CURTAIN MOVEMENT





SYSTEM



