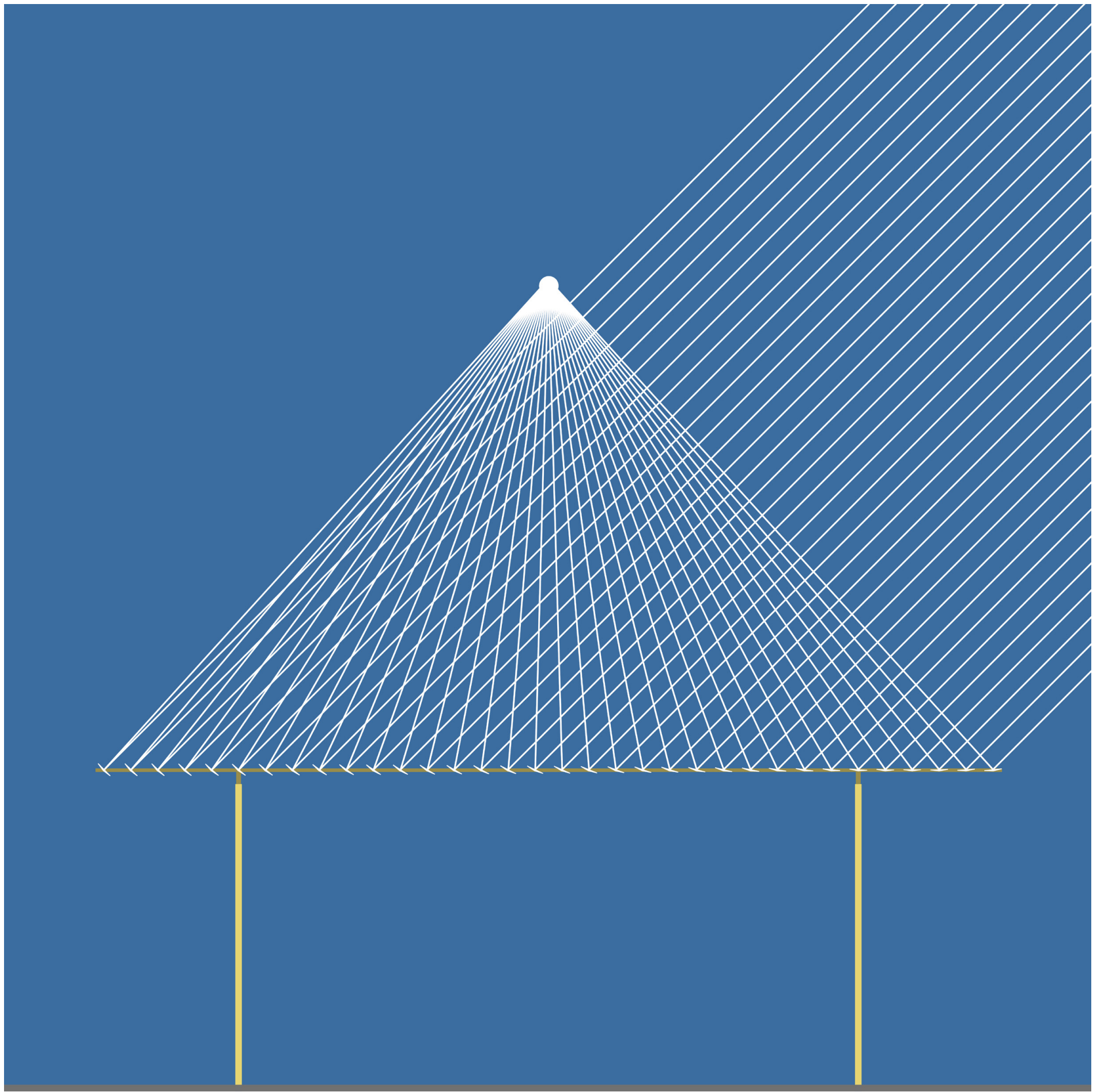


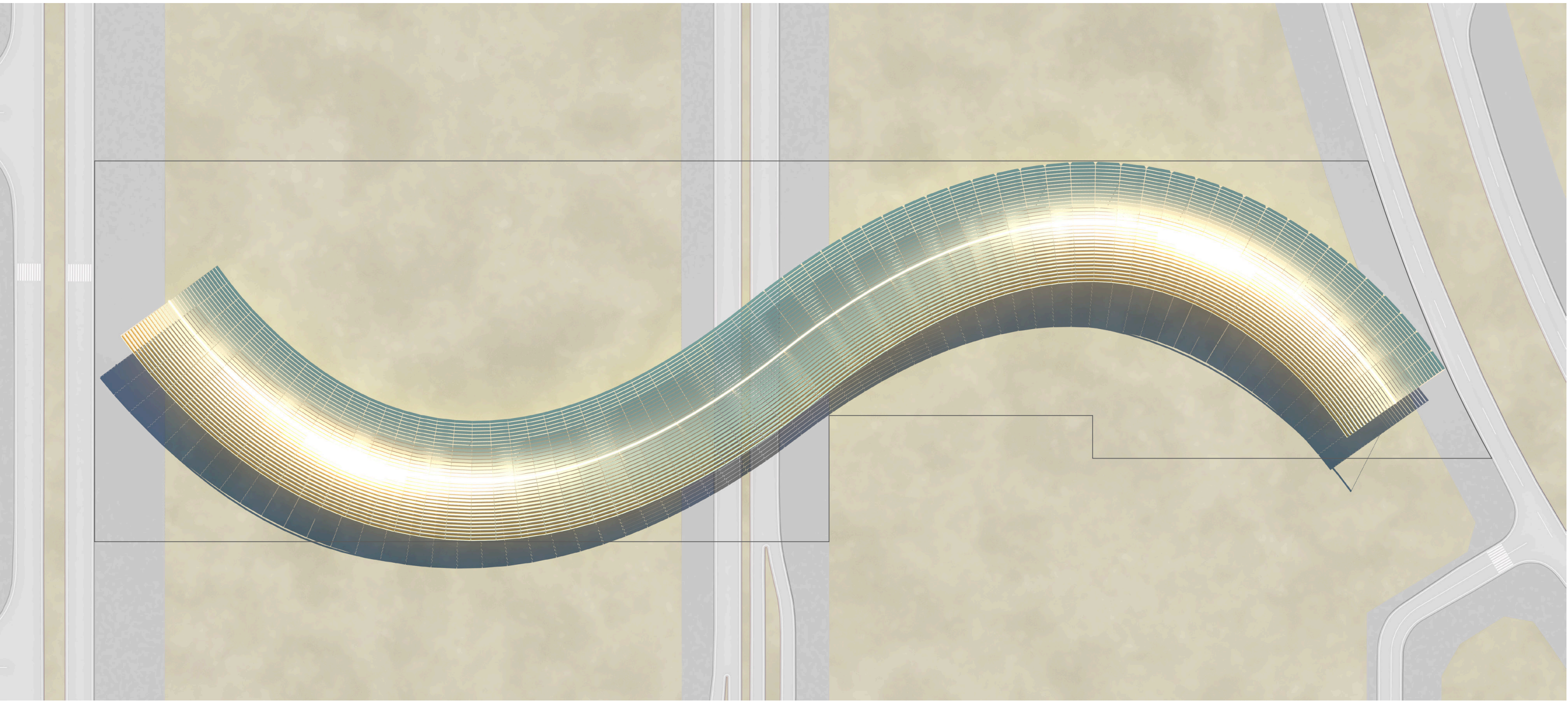
S for Specular

The project exploits the Linear Fresnel Reflector technology. The canopy is a solar field composed by flat linear mirrors that reflect the sun rays, conveying them into the superior line of the absorber of solar power subsequently to be converted into electricity for the community. The annual heat production for the whole system is approximately calculated to be 1.800 MWh/y. An artwork that “reflects” a great sensitivity both to the environment and to the people living in it.



S for Source - Masdar means "source" in Arabic. The park represents itself a new energy source for the future local generations, potentially powering nearly 360 homes in Masdar.

S for Sustainability - SPARK is a sustainable art installation for Masdar, the global capital of sustainability projected into the era of a post-carbon future: a catalyst for renewable energy development to reach the goals for decarbonization in the 21st century.



S for Sensor

The specular canopy is a solar responsive sensor composed of linear mirrors digitally controlled to direct the sunlight in every moment of the day into the collector, forming a parametric filter sensitive, like a sunflower, to the rays of the sun. The orientation of the mirrors axis gradually changes from north-south to east-west. The central part is east-west oriented, while the areas at the opposite ends are north-south oriented

