



In the process of developing our project, we took into account all the nuances of the proposed construction site location. Since the site for assembling the installation is situated on a remote island, which is quite difficult to access, we ensured that our structure is simple to execute and equally functional. The petals of the module easily and securely connect with each other, and the stem is robust enough to withstand the climatic conditions. The assembly and installation process of the installation will proceed quickly and simply, without causing any discomfort to the local residents. Any interested local residents who have taken an interest in the construction and installation of our project are welcome to join the implementation process. Also we offer local residents the opportunity to develop the tourism function on the island

Within the installation we will organize zones for hosting master classes aimed at introducing and teaching local craftsmanship

At the request of the local residents we have also created areas for cultivating various crops and plants, as well as hydroponic zones

The local community will make a significant contribution to the maintenance and development of our project. The primary care for the facility can be provided by the local residents, while the responsibility for technical maintenance should be assumed by specially trained personnel

Our project represents an environmentally clean system for generating clean energy

We have taken every measure to preserve the existing vegetation on the development site and have positioned our installation in such a way that it does not replace the abundance and richness of the local nature, but rather complements it. We did not plan to remove the trees and other elements of flora and fauna present on the site. Taking their locations within the development area into account, we have compositionally arranged the modules of our structure in an efficient manner

Solar panels are a source of renewable energy; however, their placement can have both beneficial impacts and environmental challenges. Let us review the main aspects of their impact on the local ecosystems of Fiji

Positive effects

- Reduction of carbon emissions by replacing fossil fuels
- Possibility of integration into agrivoltaics, where solar installations are placed alongside agricultural crops, thereby preserving or even enhancing the condition of soils and water resources

Negative effects

- Destruction or fragmentation of natural habitats. Without careful planning, solar power stations may affect critical ecosystems and lead to a decrease in biodiversity
- Disruption of migratory routes for birds and insects. Large-scale installations can create barriers in the landscape and influence animal behavior
- Potential changes in the microclimate within the installation area due to alterations in surface reflectivity and airflow

Key recommendations for minimizing negative impacts

- Conduct an environmental assessment that considers the specific features of the local flora and fauna
- Utilize technologies that allow the solar panels to be harmoniously integrated into the landscape

Thus, careful planning and consideration of the island’s ecological characteristics will help reduce the negative effects of solar panels and promote sustainable energy development in Fiji