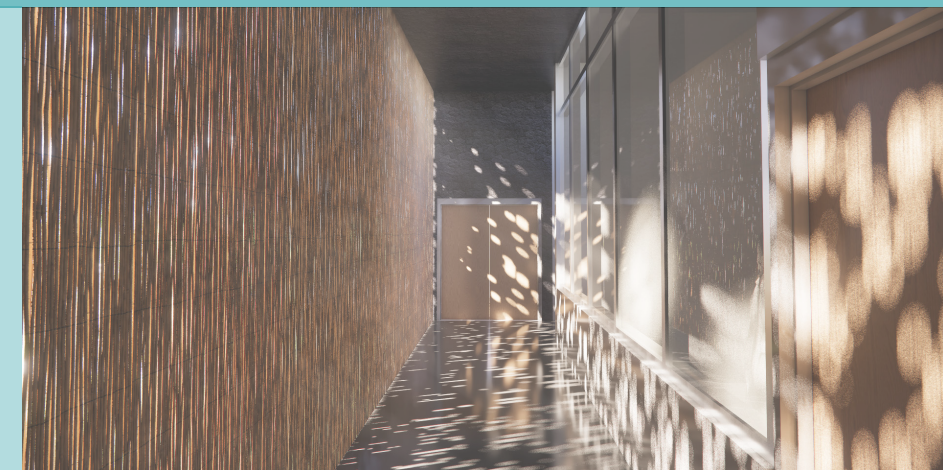


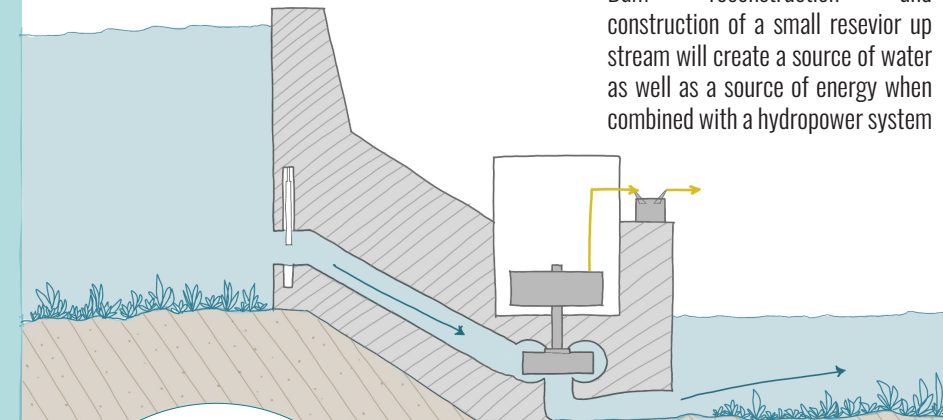


Symbiotic Infrastructures: A Woven Network of Biology and Technology for Sustainable Water and Energy Systems

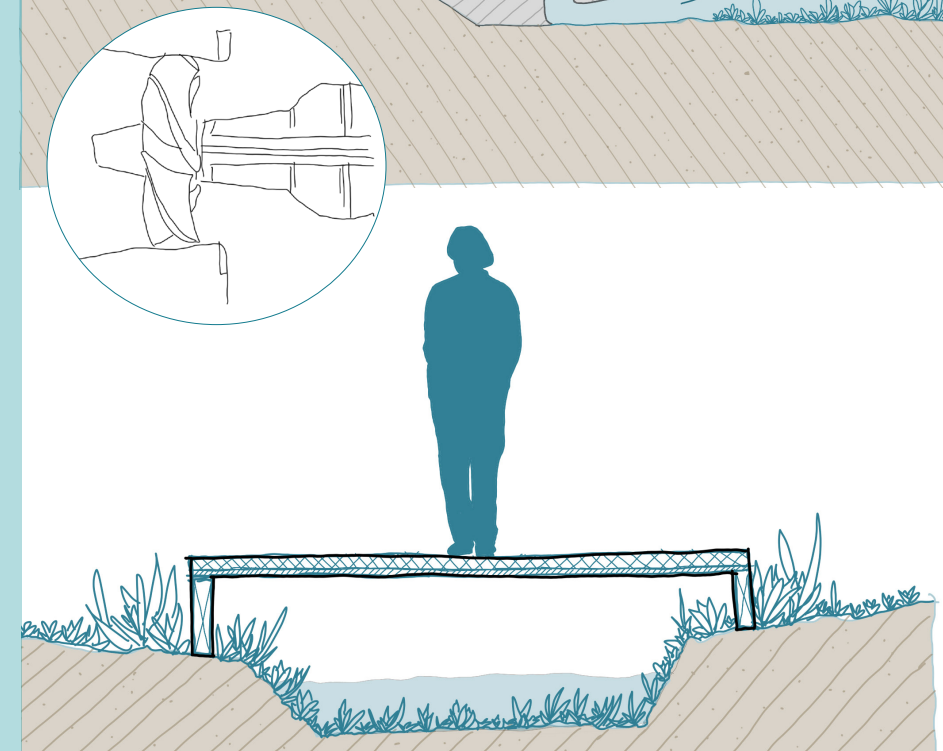
This proposal presents an innovative design for the LAGI 2025 Fiji competition, aiming to integrate sustainable water and energy solutions into the fabric of Marou Village. By combining biological and technological systems, the project seeks to enhance the resilience of local ecosystems, support sustainable agriculture, and provide adaptive solutions to climate change, all while honoring the community's rich cultural heritage.



D A M R E C O N S T R U C T I O N



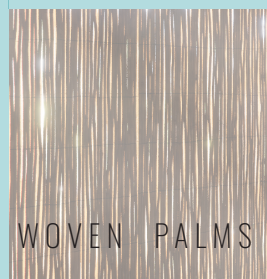
Dam reconstruction and construction of a small reservoir upstream will create a source of water as well as a source of energy when combined with a hydropower system



S T O R M W A T E R C H A N N E L W A L K W A Y S

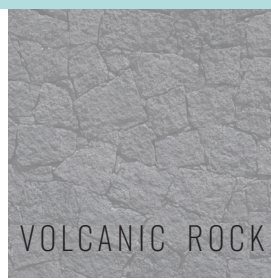


M A T E R I A L I T I E S



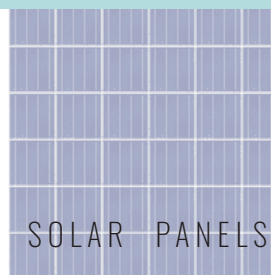
W O V E N P A L M S

Made from coconut tree husks, the woven palm is used on unconditioned spaces and walkways throughout the site



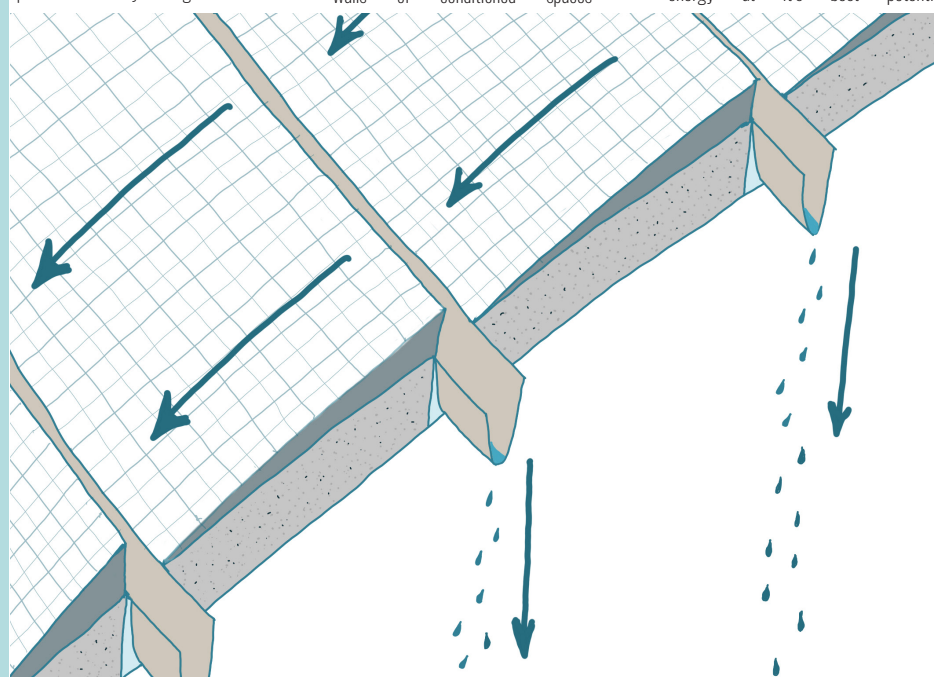
V O L C A N I C R O C K

The volcanic rock is sourced locally and is used in the structural walls of conditioned spaces

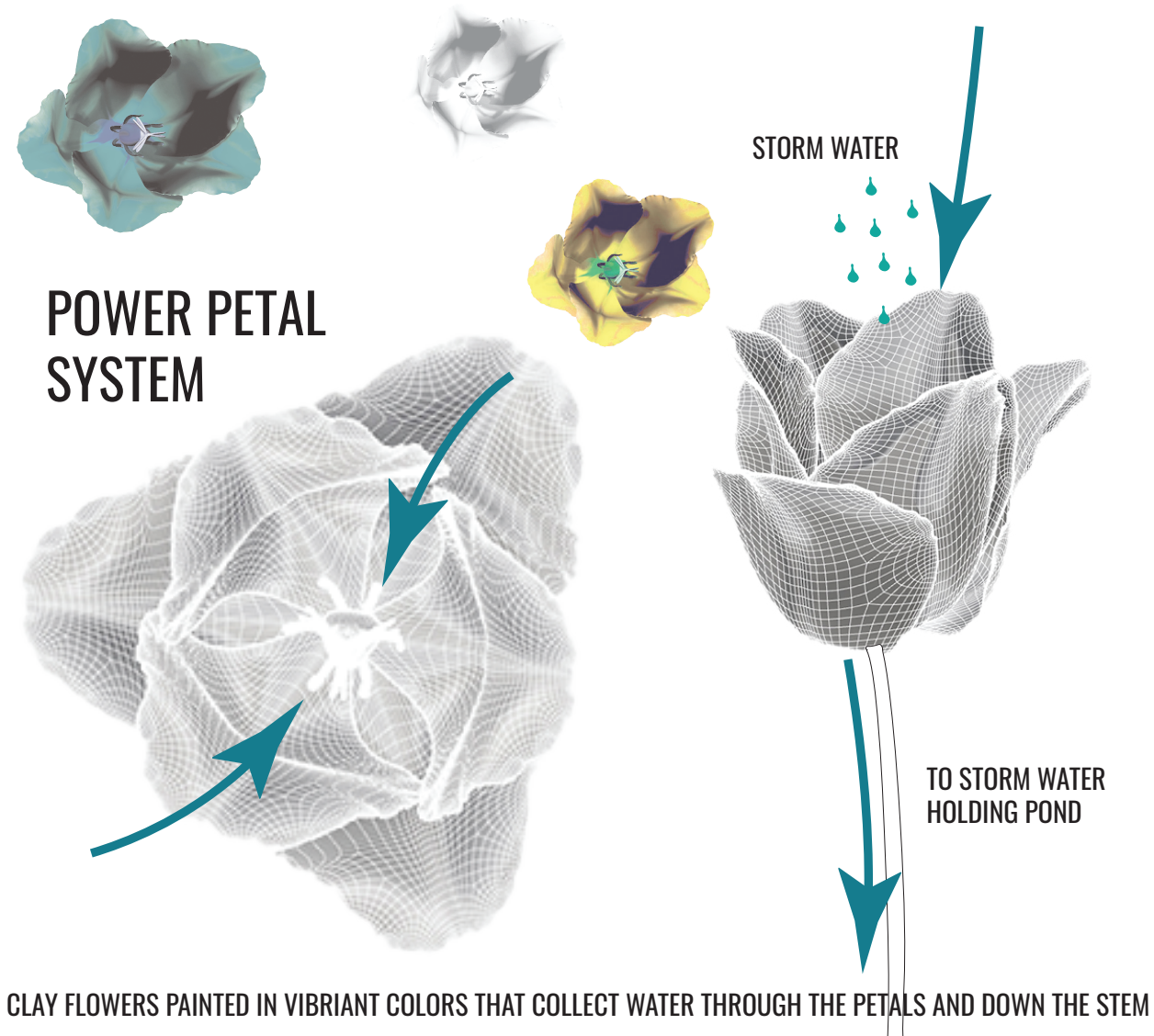


S O L A R P A N E L S

Solar panels are used on the roof of the building to gain photovoltaic energy at its best potential



R A I N H A R V E S T I N G R O O F



P O W E R P E T A L S Y S T E M

CLAY FLOWERS PAINTED IN VIBRIANT COLORS THAT COLLECT WATER THROUGH THE PETALS AND DOWN THE STEM

W O V E N N E T W O R K O F B I O L O G Y A N D T E C H N O L O G Y

Island Villages, which are disproportionately affected by climate change, can achieve resilience by weaving biological and technological systems into interconnected infrastructures that optimize water management, generate renewable energy, and restore ecological balance.

