

## Making the Most of a Harvest of Rainwater

Clean water for everyday activities is not a luxury, is a necessity. In many tropical locations like Marou, there is abundant rainwater during the rainy season, and large periods of drought during the dry season. Harvesting the largest amount of rainwater possible, and storing it is a necessity to manage this precious resource. The rainwater harvest system for Marou receives water from a number of different sources, and stores it in higher locations by using pumps that are powered during peak energy production of the solar system. The rainwater harvest system for Marou also provides water for the Marou Gardens.

- Rainwater is harvested from the surface of the roof of the LAGI House of Energy. The concrete roof measuring 20 m. X 29 m. gathers the rainwater in 8 large storage tank under the floor in front of the LAGI House of Energy.
- Land shaping of water features inside the design site by using a medium tractor with a backhoe and a
- Make the main water feature, "Marou Mirror," that narvests rainwater from runoff that flows by natural
- Make smaller water features to harvest runoff and prevent erosion from the run-off ditches.
- The seepage of water from the water features naturally feeds underground water resources. The quantity of water in the wells of Marou will benefit from
- land shaping that diverts water away from the mair walls, and sends it towards shallow spillways that are
- perpendicular to the water flow.

  Continued pumping during peak hours of energy production is used to fill up the main water tank at "Mountain View" that will provide Marou Village with running water by gravity from this location.
- A network of pumps moves water from lower features towards higher locations creating a system of controlled watering that fills up the reserves, increases water filtration in the water features, and provides vatering for the Marou Gardens.





Marou Gardens The LAGI House of Energy

Community **Participation** 

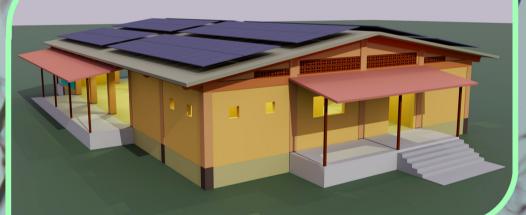


An Interconnected Energy System: Land Art to Power the Community

## and Shapin

rising the terrain for pathways, and digging for foundations. The tractor can also help to quicken he LAGI House of Fire,

he island, is well worth it when moving large amounts of earth to shape pools, reserves and other water features to direct flow and store water. The tractor could also be useful in restoring the old dammed reservoir halfway up the mountain <mark>by compacting the e</mark>arth











## king Long-Lasting ructures for Marou

There is an environmental cost use these technologies because related to transporting and using the people of Marou deserve to a tractor, and there is also an a tractor, and there is also an improve the quality of life in their environmental cost related to community. the LAGI House of Energy. Solar 🧪 cost to produce panels and

energy also has an environmental 🔪 effect of global warming on isla communities is fueled by patterns of over consumption in far away batteries, and it certainly leaves the print of human activity on the environment. The LAGI House locations. Tractors for digging are of Energy and Marou Gardens world. Thousands of stores are

than the LAGI House of Energy Erosion, lack of water and lack of energy are real problems that deserve permanent solutions and long-lasting structures. Th LAGI House of Energy and Ma Gardens use tools like the tractor

and technologies like cement construction, because they are used everyday in cities around the are designed to work reliab