

Blue Forests for Coral Reef Protection



When coral reefs are preserved, habitats for endangered species are protected. © Blue Ventures/Garth Cripps.

This carbon offset project fosters sustainable use of mangroves, or “blue forests”, to avoid deforestation and degradation. Healthy, intact mangrove forests take up carbon, protect the population from natural disasters and help conserve coral reefs - a key habitat for endangered species.

Mangroves are exceptionally productive ecosystems that support a unique biodiversity and provide the natural resource base for the well-being of millions of people in coastal communities. However, mangroves are disappearing at a rate of one to two per cent per year, faster than any other forest type. The cause is unregulated harvesting for timber and charcoal sold at local and regional markets.

Mangroves are the forests of the sea, specially adapted to survive in the inhospitable, salty conditions where the land meets the ocean.

This is the case for the mangrove forests in the Bay of Assassins in Southwest Madagascar, which are home to approximately 4'000 people. They are threatened by degradation and deforestation although they are key to the well-being of the local population: The forests protect the communities from storm surges, provide fuel wood and construction material and support food security by supporting important fisheries such as shrimp and crabs. In addition, the mangrove forests are part of the Velondriake area that is home to numerous endemic and many endangered species such as the green turtle and gray reef shark.

The aim of the community-led project is to foster sustainable management of mangroves in an area of around 1'000 ha. The project pursues four specific objectives: Firstly, to preserve the current quality and extent of mangrove forests; secondly, to reduce deforestation of mangroves through

Project type:

Land Use and Forestry

Project location:

Madagascar, Bay of Assassins

Project status:

In operation, credits available

Annual CO₂ reduction:

943 t

Situation without project

Decrease of carbon stocks, loss of biodiversity, increased natural disaster risk, decreased seafood stocks and increased coral reef mortality

Contribution to the SDGs



SUSTAINABLE
DEVELOPMENT
GOALS

Project standard

VER

Impressions



Fisherwomen and fishermen are trained in effective fishery management to avoid seafood overexploitation.

sustainable harvesting; thirdly, to restore degraded areas of mangrove forest and finally to establish native tree plantations that are used as alternative wood source.

Around 10% of global emissions from deforestation are caused by the loss of mangroves.

This will be achieved by building capacity of local management associations and encompasses numerous activities. Local people will be introduced to sustainable harvesting practices that enable long-term profit from mangrove wood. Besides, the communities will be engaged in reforestation and fuelwood and timber plantations that substitute mangrove wood. Overexploitation of fish stocks will be addressed by training fishermen and -women in effective fisheries management. As a pragmatic approach to sustainable fishery, fishing grounds will be closed temporarily by communities to let mud crab and shrimp fisheries rejuvenate. Moreover, beekeeping as an additional income source will be promoted and expanded.

The project is implemented in close collaborations with community associations and local and regional authorities. The project establishes a payment for ecosystem services (PES) scheme. The gains from selling carbon credits will be used to engage local people in sustainable mangrove forest and fisheries management and will also be invested in capacity-building and sound monitoring.

This project contributes to 11 SDGs:

- SDG 1: 4,000 coastal people – 60% of whom live below the national poverty line – benefit from social investment that increases their income and well-being.
- SDG 2: Project income supports the management marine area that provides fish, the primary protein source for the population.
- SDG 4: Project income is used to subsidize school fees for all children in the partner villages.
- SDG 5: Women are actively engaged in the project as carbon monitors and members of the marine management association.
- SDG 6: Project income will be used to provide safe drinking water, as defined by the partner villages.
- SDG 7: Where electrification is identified as a need in project villages, income will support the installation of solar panels and batteries.
- SDG 8: Community businesses such as sea cucumber aquaculture and mangrove beekeeping are established and provide alternative income sources.
- SDG 13: Over 1000 tonnes of CO₂ have already been sequestered.
- SDG 14: Habitats for endangered species will be protected, coral reefs are being conserved.
- SDG 15: Sustainable forest management is established in an area of 640sqkm.
- SDG 17: The project is implemented by the UK-based NGO Blue Ventures in collaboration with the Velondriake Association, a network of coastal and marine protected areas that facilitates sustainable natural resource management.



The mangrove forests in the Bay of Assassins are home to approximately 3'000 people.



Green turtle: Classified as endangered.



Mangrove forests in Southwest Madagascar are not only a precious and biodiverse ecosystem...