

# Project Indonesia

## coral rubble field stabilization and coral restoration

 Raja Ampat, West Papua - 0°34'15.1"S 130°38'05.7"E

### Base Info

**Project type:** Coral Restoration

**Partner:** [www.theseapeople.org](http://www.theseapeople.org)

**Funding:** [www.v-sun.de](http://www.v-sun.de)



**Budget**  
25'000 USD



**Size / area**  
1000m<sup>2</sup>



**Start Date**  
April 2023



**Duration**  
24 months

### Background

With the ongoing impacts of climate change, corals are facing difficulties with growth, reproduction and survival against severe weather events such as bleaching, tropical depressions and sea-level rise. Coral restoration efforts are the logical step to jumpstart a regeneration process to bring back coral cover and diversity.

Additionally, using Mineral Accretion Technology (MAT) aids with survival rates of small coral fragments to boost the speed of growth and build resilience against these climate-induced stressors.

In parallel, the marine environment will benefit from these active coral restoration efforts by increasing coral cover, fish abundance, and higher biodiversity in the entire ecosystem.

### Objective & Outcomes

- To stabilize 250m<sup>2</sup> of coral rubble fields
- To double the area every 6 months
- To plant 15 - 20'000 coral fragments every year
- To increase the fish population and habitat
- To rescue the natural reef from coral rubble smothering



### Implementation

#### Approach

Coral rubble stabilization is and will be an integral part of coral restoration. This grass root approach by placing wire fence mesh on the ocean ground and powering by the mineral accretion technology (MAT) is a novel approach. Initiating with 250m<sup>2</sup>, and attaching around 5000 corals will bring back a reef in a relative short time. The primary source of coral used to populate the degraded areas will be corals of opportunity, attached directly into the mesh and potentially secured by wire as well as cable-ties. A collaboration with local reef guardians is key for maintenance and expansion.

#### Milestones

**Month 1:** Installation of 500m<sup>2</sup> wire mesh

**Month 1:** Installation of MAT equipment

**Months 1-2:** Coral planting

**Months 2-6:** Monitoring

**Months 6-24:** Knowledge transfer and training of local stakeholders, expansion to other areas in the region

#### Deliverables

- Stabilized coral rubble mesh
- Trained local stakeholders
- 20'000+ corals planted
- Habitat creation
- Shoreline protection

