

Project Maldives - Joali

coral nursery setup to grow 2750 coral fragments

 Joali, 5°36'32.0"N 72°56'57.9"E

Base Info

Project type: Coral nursery on MAT

Partner: [Joali Resort](#)

Funding: Joali Resort



Budget
25'570 USD



Size / area
200m²



Start Date
October 2022



Duration
1 month

Background

With the ongoing effects of climate change, corals are having difficulties to grow, spread and adapt. Coral restoration efforts make sense to jumpstart the regeneration process. The mineral accretion technology helps with survival and growth rates of coral fragments, and increase their resilience severe weather events.

Having a coral restoration program in place for a luxury hotel is an ecological and economical statement that is well received by guests and governmental entities. This will help to increase the coral cover that suffered tremendously after the 2016 bleaching event in a joint-effort.

Objective & Outcomes

- To repopulate the coral reef around Joali Resort
- To create a Mineral Accretion coral nursery setup to grow 2750 coral fragments
- To create a favorable environment for coral to grow and to attach to the structures
- To support a more biodiverse reef environment around Joal Resort by outplanting onto the reef

Implementation

Approach

Coral restoration will be initiated by creating 24 steel metal reef structures powered by the mineral accretion technology (MAT). This supports the corals through low voltage direct current electrolysis to grow 2750 coral fragments during and beyond the one-month project implementation phase. The primary source of coral used in the nursery will be corals of opportunity naturally broken off due to wave action or storms in the surrounding area. They will be fragmented into 7-10 cm pieces for attaching to the table structures. After 10-12 months, outplanting actions can begin to restore the local reef.

Milestones

Week 1-2: Installing a 24 table coral nursery powered by MAT

Week 2-3: Locating and attaching coral fragments to the nursery structures

Weeks 3-4: Knowledge transfer to local stakeholders

Deliverables

- Fully stocked and diverse coral nursery
- Increase coral cover through outplanting
- Increase reef diversity
- Newly trained coral guardians in coral reef restoration

