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Emesh was chosen to reinforce 38 reef modules to create a new 30-hectare reef off Point Lookout on North Stradbroke Island.

A collaborative initiative between Quandamooka Yoolooburrabee Aboriginal Corporation (QYAC) - the Traditional Owners of North Stradbroke Island - and the Queensland Government, the new reef will boost tourism in the area by providing fishing and diving opportunities.

“The reef modules were reinforced using Emesh fibres, made from 100% recycled plastic with a direct saving of 95% carbon equivalent compared to reinforcing the modules with steel mesh,” stated Member for Redlands electorate, Kim Richards.

Each module weighs 17 tonne and stands around 5 metres high.

Pacific Marine Group was responsible for designing and constructing the 38 modules in their Townsville facility, and transporting and installing on site.

[Channel 7 News covered the project here.](#)

The project consisted of 38 modules

The original design required 940kg of reinforcing steel per module

The Emesh option reduced 800kg of reinforcing steel per module

Design was 40mpa concrete with 6kg/m³ Emesh and rebar in strategic areas

This reduced the CO₂ footprint by 100 tons and reused 1.6 tons of waste plastic

Pacific Marine Group were able to set up and pour every day enabling the project to be completed ahead of time

