

Case History

Deep Green Mining



Project Description

The Metals Company (TMC) is undertaking a comprehensive deep-sea research programme collecting polymetallic nodules from the Clarion Clipperton Zone (CCZ) in the Pacific Ocean. Successful sourcing and processing of these nodules generating almost zero solid waste could provide power for electric vehicles and other high-powered storage requirements for years to come.

Sealand, through Maersk Supply Services, have provided operational support for this research campaign, helping to facilitate the collection operations allowing time to develop an environmental baseline of the proposed operating environment.

Services Provided



Package Management



Business Assurance



Carbon Management



Energy Transition



Engineering Design & Analysis



Marshalling, Transport, Installation & Field Support



Floating systems, Towing, Mooring & Hook-up



Visualisation and Digitalisation

Key Facts

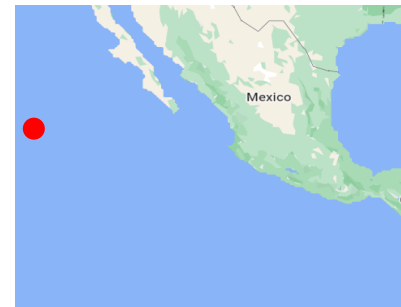
Client: MSS/The Metals Company

Location: Pacific

Water Depth: >4000m

Dates: Q3, 2020

Project Reference: P0507



Our Scope

Sealand have provided onshore engineering support in preparation the research campaigns as well as offshore operational support on board the MSS L-class vessel.

Support has included developing mobilisation & installation procedures and management of operations whilst offshore in the CCZ. Working closely with MSS and the Metals Company, Sealand have provided feedback and lessons learned on the original prototype equipment to help design upgrades for future campaigns as more is understood about sourcing the polymetallic nodules.



Deliverables

- Field Engineering support
- Mobilisation procedure
- Installation procedure
- Launch and recovery design for the equipment
- Installation Procedure
- Offshore Operations coordination and management
- Field report on operational performance and
- Coordination of data acquisition and storage
- Feedback on operational performance and lessons learned



Renewables



Oil & Gas



Ocean Systems



Pathway to Net Zero