

[Name of the Technological Development Project]

Development of Cost-Effective and High-Performance Anchoring Technology that Revolutionizes Offshore Construction

[Project Partners]

“POC-TUMSAT-PARI Joint Research and Development Partnership” between Penta-Ocean Construction, Tokyo University of Marine Science and Port and Airport research Institute, National Institute of Maritime, Port and Aviation

[Project Period] FY 2026 to FY 2028 (Three Years)

[Summary of the Technology Development]

Based on an assessment of the limitations and challenges of conventional anchoring technologies for floating offshore wind, this project aims to develop a novel anchoring technology with high holding capacity and superior seismic resistance.

Through scale-model testing and numerical analysis, we will evaluate the performance of the proposed technology, establish practical and economical installation methods, and verify its effectiveness through full-scale testing. The project will establish design methodologies and installation methods for a new anchoring system.

[Technical Concept]

