

AR-BIM Integration for Precision Maintenance in Marine Energy Systems

Sector: Marine infrastructures / Renewable energy

Short description of the needs:

Regeneration SPA is a leader in renewable energy and sustainable construction, specializing in the delivery of photovoltaic systems, energy storage, and marine-grade energy solutions via turnkey EPC services. While the company utilizes Building Information Modeling (BIM) extensively during the design phase, a critical disconnect exists during on-site execution; high-fidelity design data remains inaccessible to field technicians during installation and maintenance.

To resolve this, the company seeks to develop an integrated AR-BIM workflow. The objective is to enable personnel to visualize digital twins of energy systems in real time using mobile devices or AR headsets. By overlaying 3D BIM models onto physical assets, the company aims to eliminate execution errors, reduce maintenance downtime, and facilitate "X-ray" visualization of hidden components for training and diagnostics without physical disassembly.

Regeneration SPA invites technology providers, software developers, and research centers specialized in AR/VR and BIM interoperability to collaborate on the design, testing, and validation of this solution across active pilot sites.

More info: For more information apply to segreteria@cnaabruzzo.it

Company: Regeneration S.p.A.

Point of contact for the brief/challenge: CNA ABRUZZO

Company position in the value chain: Tier 1