

Design and Construction of Artificial Reefs in China

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Since 1970s, small scale artificial reefs construction was conducted in Guangxi, Guangdong. The construction of ARs is developing rapidly in Guangdong, Shandong, Zhejiang and Liaoning at present.

The construction of ARs in China includes ecological type, quasi ecological type and recreational type. The ecological type is constructed in MPA to protect marine environment and resources, usually invested by the government. The quasi ecological type is constructed in key fishing field to improve fishing quality. The recreational type is mainly used in coastal water to develop recreational fishing.

The engineering performance and ecological effects are the two aspects of design. Design on engineering performance includes stability(anti-slide , anti-roll, , anti-sink) and flow field caused by ARs. Design on ecological effects includes bio fouling and bio-attraction. Experiments and numerical simulation are used in our study usually.

