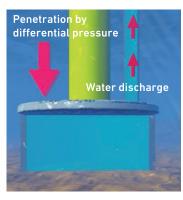
Suction Bucket Foundation サクションバケット基礎工法

Toward reducing costs of offshore wind

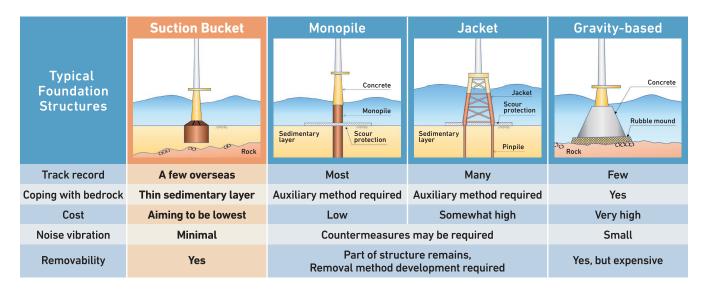
The suction bucket foundation is a construction method that has a proven track record overseas for offshore wind, and is being used at commercial offshore wind farms. In addition to the expected cost reduction by not using large construction equipment, the environmental impact of noise and vibration can be significantly reduced because the bucket penetrates by pumping water out. By pouring water into the bucket, the foundation can be easily removed.





Expanding applicable areas for fixed-bottom offshore wind

Monopile, jacket, and gravity-based foundations have been adopted for fixed-bottom offshore wind farms, each of which has its advantages and disadvantages as shown below. If suction bucket foundations can be applied, the sea area where offshore wind farms can be installed will be expanded due to the shorter penetration length required compared to monopiles and jackets. The use of large hydraulic hammers and other equipment is not needed, which significantly reduces noise and vibration.



■ Timeline for adoption of suction foundation

