



SUBSEA PROTECTION SYSTEMS

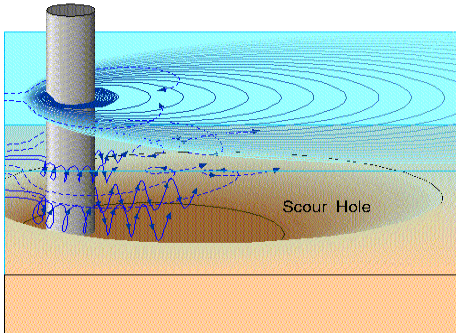


OFFSHORE WIND TURBINES

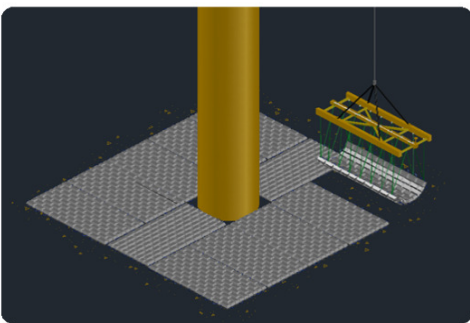
PROTECTING WIND TURBINE BASE PILES, AND SUBSEA CABLES



SUBSEA PROTECTION SYSTEMS

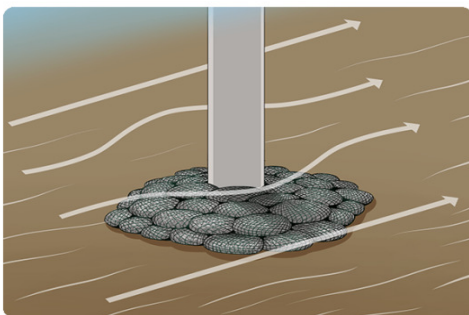


Scour is a common problem around subsea assets. This can be a problem for the base piles of wind turbines, and other subsea structures. Water flow subsea moves seabed sediment continuously, and slowly forms a scour hole around the base of the structure. SPS have several products available for the protection and security against this scour problem.



Around the perimeter of each pile, leg or jacket a pre made scour control unit can be installed for protecting the foundations of the structure

- Concrete Mattresses
- Rock Filter Units
- Frond Mattresses



Other exposed cable routes require stabilisation or protection from the scouring problem. The use of all SPS listed products can provide effective stabilisation for pipelines, cables and umbilical's.

Stabilisation of the extensive network of cabling from each of the turbines to hub points then to shore needs to be secured from movement against the wave and current generated velocities. Concrete mattresses are an idea solution by securing down cables and protecting them from local fishing activities.

Crossings required when new cabling has to bridge existing subsea pipelines and cables. Separation needs to be maintained of these assets as well as protection from potential snagging problems from trawl boards and vessel anchors.

Backfilling occasionally a backfilling is required to better stabilise cable routes, and foundations. Drop bags are an effective solution to accurately place material in scour holes, trenched cables and rock dumping.



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