Engineering
Excellence
Underwater

SMD ARTEMIS

Company: Jan De Nul
Location: North Sea, Netherlands
Artemis system: Artemis Passive Live
Cable type: HVAC cable
Detection range: up to 5m
Vehicle: Sunfish Jetting Trencher

Background

Tier-one marine contractor, Jan De Nul deployed SMD Artemis on a remedial burial project for a client's export cable in the offshore renewable energy sector. Due to shifting sandbanks, sections of the trenched cable no longer met the required depth of burial. Selected for its precise cable tracking and real-time positioning capabilities, SMD Artemis enabled trenching and reburial activities to be carried out while the cables remained fully operational.

The Challenge

— Facilitating the remedial burial of a live HVAC export cable.

— Ensuring power cable transmissions were not disrupted.

— Providing stable tracking as trenching swords were lowered over a live asset.

— Offering reliable performance in the intertidal zone.

— Tracking at up to 5m burial depths.

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The Outcome

Operating in Passive mode, SMD Artemis tracked the harmonic of a 50Hz power signal to facilitate precise reburial operations. Having the ability to work on a live asset allowed remedial burial works to be carried out without any disruption to the HVAC power cable transmission, ensuring maximum operational efficiency.

Reliable tracking enabled the trenching swords to be lowered over the asset with precision, facilitating controlled and consistent reburial whilst significantly minimising the risk of damage to the cable. The system supported reburial depths between 2 to 5m and delivered stable performance throughout.

By providing accurate, real-time cable positioning, SMD Artemis reduced operational uncertainty and helped accelerate trenching activities while maintaining safe working practices over a live asset.

Dr Lindsay Smith, Product Manager, Subsea Tools & Instruments said: "Tracking a live HVAC export cable without interrupting transmission presents a complex operational challenge, particularly when operating in such challenging conditions.

> **"SMD Artemis provided the real-time positional data essential for conducting these remedial reburial works safely and efficiently, thereby maximising performance efficiencies for our client."**
>
> Dr Lindsay Smith, Product Manager, Subsea Tools & Instruments, SMD

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Get in Touch

Artemis systems are now available for hire through global rental company RTS.

For more information on Artemis systems, please contact:

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