SPICE contributes to a significant reduction in the energy consumption of subsea pipeline inspection

SPICE’s precise maneuverability combined with its unique robot arm reduces fuel consumption of the close subsea pipeline inspection to a quarter to that of conventional ROVs. (ROV: Remotely operated vehicle)

Autonomous Underwater Vehicle “SPICE”

SPICE Station

Support vessel

Platform

Riser

Pipeline

Well

Manifold

Features

- Reduction of NOx and SOx emissions from support vessels by reducing the use of offshore support vessels
- Underwater docking for recharging and data transfer enhance inspection operation efficiency and reduces cost requirements
- Driverless launch and recovery of SPICE using its SPICE Station improves the safety of inspection operations
- Capable of autonomously continuous detecting and tracking of subsea pipelines while automatically avoids obstacles along the pipeline
- 10% reduction in weight compared to conventional ROVs

Product Description

SPICE is an AUV system consisting of AUV and its docking station for the close range inspection of subsea assets, mainly subsea pipelines.