TECHNIP ENERGIES

Advanced robotics solutions for operational performance

High-performance inspection and intervention robotics for the energy industry



Key Figures

> 80%
POSSIBLE UNMANNED OPERATIONS

UP TO 30%
OPEX REDUCTION

UP TO 200KT
CO_2 AVOIDANCE PER YEAR

Our offering

ROBOTIC DEPLOYMENT BENEFIT ASSESSMENT STUDIES

CALL-OFF INSPECTIONS MISSIONS

LONG-TERM MULTI-ROBOT SPREAD MISSIONS

Boost asset uptime, reduce OPEX and HSE exposure

Energy industry operators are constantly working to increase asset uptime and productivity while improving cost efficiency, mitigating or eliminating HSE risks and moving to net-zero emissions.

To that end, autonomous robotics inspections are becoming increasingly attractive. Data acquired and stored can be efficiently analyzed and reported to support predictive maintenance, identify anomalies or provide equipment and overall asset status.

With 40 years of experience in robotics operations for harsh environments, T.EN Marseille continues to push industry boundaries by providing a unique integrated offering to optimize O&M from inception to execution.

T.EN Marseille delivers advanced services by leveraging our proprietary supervision system to remotely manage a wide range of drones and ground and underwater robots for inspections, data collection and interventions.

A proprietary supervision system
to remotely operate a heterogeneous fleet of robots.

Access to a wide range of robots for O&M applications
including aerial, ground, subsea and harsh environments (ATEX, corrosive, contaminated, iozoning).

Unique capabilities to assess feasibility and ROI
from technologies to in-house methodologies for O&M plans analysis, plus a proprietary simulation tool and outdoor testing facilities.

Value Proposition

A complete suite of robotics tailored for operations

- Small quadrupeds to large caterpillar robots for routine inspection
- Heavy intervention robots with stair-climbing and dexterous manipulation capabilities
- Amphibious robots for cleaning, preservation and inspection of metallic surfaces
- Shallow water underwater drones for visual and NDT inspections
- Aerial drones

Single fleet management software

- A powerful software to plan, simulate, run multiple robotics missions and monitor their efficiency
- Compatible with a wide range of robotic hardware
- Intuitive toolbox to gather, store and analyze collected data set

End-to-end robotics deployments

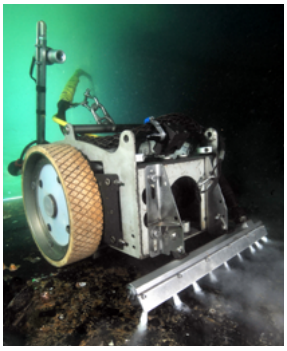
- Providing feasibility, accessibility and benefits assessment studies with in-house methodology
- Checking the added value of robotics systems for new or existing assets with engineering, simulation and physical tests
- Quantifying robotics benefits in terms of operational efficiency, CO2 reduction and cost optimization

Industry track record

- Commercial delivery of hull inspection and shallow water inspection services
- Deployment of ground robotics solutions in onshore and offshore assets in Asia, Middle East & Europe
- Development of PoC's for drone services in Europe & USA
- Delivery of feasibility, accessibility and ROI analysis studies and benefit assessments











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