TECHNIP ENERGIES

Offshore monitoring

Fit-for-purpose monitoring solutions for asset integrity management

Value proposition

Delivering accurate real-time data for safe operations and predictive maintenance.

Cost savings

through failure prediction



Our solutions

We provide integrated and reliable solutions from sensors to supervisory operators for early identification and mitigation of safety issues.

Industry challenges

- Anticipate incidents for operational safety
- Early detection of component failure
- Residual asset life assessment
- Regulatory compliance

Main offerings

- Mooring lines integrity monitoring with angle and/or tension measurement
- Riser tension and motion monitoring
- Subsea pipeline corrosion monitoring

Why choose Technip Energies?

- High-quality real-time data
- Proven equipment reliability
- Adaptable for yard installations, retrofits and seabed applications

Related products zoom-in



Mooring Lines Load Monitoring System (MLLMS)

- Fully redundant system for direct real-time monitoring of 12x lines (tension and angle)
- 4x topside junction box IECEX/UL certified
- Reliable, field-proven data communication link from mooring line to topside hull



Free Standing Hybrid Risers (FSHR) Monitoring

- Tendon tension and bending measurement with vibrating wire sensors of 18x FSHR
- ROV installation and connection of subsea cables and modules
- Data communication up to 6 km via subsea cable

Some references

Product	Clients & Areas	Description
Riser Monitoring System (RMS)	South America	Strain (FBG optical technology) and motion (IMU and compass) measurement of 14x rigid riser top connections for fatigue calculation
Mooring Lines Load Monitoring System (MLLMS)	Offshore USA	Load (vibrating wires technology) and angle measurement of 12x mooring lines for platform integrity assessment
Pipeline Corrosion Monitoring System	West Africa	Thickness measurement of 2x flowlines for corrosion and deposit assessment with guided waves technology

T.EN TECHNIP ENERGIES

Jean-Marie Laluque
Business Developer Monitoring
jean-marie.laluque@ten.com

Fabrice Rey
Business Developer Manager
fabrice.rey@ten.com

www.ten.com

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