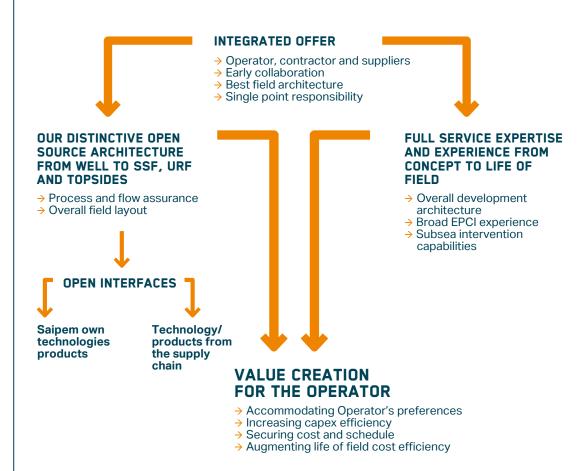


OUR INDUSTRIAL MODEL VALUE CREATION FOR THE OPERATOR

A full offer from well to topsides and from concept to life of field, based on both our own technologies and third parties supplies integrated within an open source architecture thanks to standard interfaces.

Designs, products and technologies are backed **in any contractual scheme** by outstanding **project execution capabilities**, such as engineering, fabrication and subsea construction fleet, to provide **budget and schedule assurance for cost effective field developments** as proven by our top class track record.



INNOVATION IS OUR STRATEGIC LEVERAGE

- Collaboration between young innovative thinkers and cross-discipline specialists on strategic themes
- Open innovation with the ecosystem

Our long tradition of frontier operations in harsh environments, remote areas and deep waters received a further impulse for a new step-change innovation strategy when we adopted new digital technologies and methodologies along with conventional technology development.

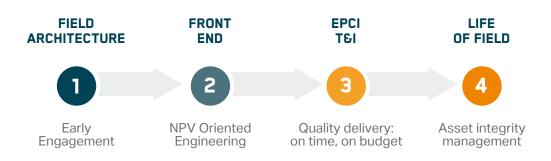
We have launched our Innovation Factory, an idea incubator to:

- test fast prototype solutions
- → address challenges of the energy sector
- boost productivity
- → enhance our competitive advantage



THE VALUE PROPOSITION A COMPLETE RANGE OF SERVICES

Strong competences on all project phases - from conceptual design to execution and operation - enable optimum performance and minimum costs.





SAIPEM'S BEST IN CLASS SUBSEA SYSTEMS OFFER

UMBILICALS, RISERS, FLOWLINES AND FULL BUNDLING OF SPS

We have designed and installed most of the existing deepwater riser and flowline concepts from within our vast experience of large, complex EPCI global projects.

From well to surface: Saipem's strategic agreement with **Aker Solutions** will secure optimized and integrated field development configuration from the early stages of the project, smooth interfaces and reliable EPCI delivery, cost effective life of field service delivery

21 MAJOR URF EPCI PROJECTS COMPLETED OR IN PROGRESS



THE SUBSEA FACTORY TO UNLOCK RESERVES

For longer offset distances, deeper waters, mature fields, viscous oil, low temperatures, we can integrate all functions and hardware needed to deliver a full Subsea Factory. Our role is further strengthened by our development and qualification of a unique set of proprietary subsea processing technologies for deep waters:

- → Multipipe a gas/liquid separator
- → Spoolsep a gas/liquid/liquid separator
- > **SPRINGS** a subsea seawater desulphation and injection system
- > Subgas a subsea gas dewpointing and dehydration technology
- > Fluideep a subsea chemical storage and injection system





THE PRODUCTS PORTFOLIO

SUBSEA AND URF SYSTEMS

Open source architecture to unlock the supply chain.

Saipem's portfolio also includes a full range of offshore products, including subsea structures, offloading systems and mooring systems.

- Versatility for most scenarios
- > Outstanding skills with welding and materials (metallic/non-metallic)
- > Matching original designs and fleet

MORE THAN 100 RISERS INSTALLED IN DEEPWATER

Compliant with all types of environment, field layout, water depth, etc.

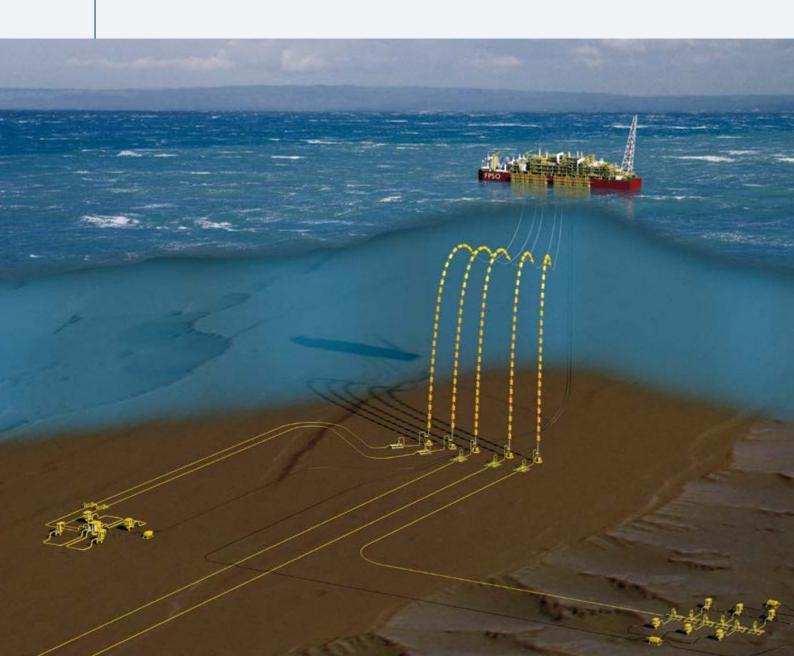
- → Steel Catenary Riser (Akpo for TotalEnergies)
- > Steel Hybrid Riser (Kizomba projects for ExxonMobil, Egina & Usan for TotalEnergies)
- → Hybrid Riser Tower (Rosa for TotalEnergies)
- Steel Lazy Wave Riser (SLWR, Sapinhoà a Norte for Petrobras and Liza 1, Liza 2 and Payara for ExxonMobil)

COST EFFECTIVE SOLUTIONS: FLOWLINE CONCEPTS FOR SOUR SERVICE AND FLOW ASSURANCE

Non insulated / wet insulated / pipe in pipe (sliding, swaged, forged pieces) with any of these additional optional solutions, allowing the flowlines to accommodate a broad variety of design conditions (e.g. sour service, corrosion in water injection lines, fatigue) while ensuring safe preservation and continuous monitoring:

- Iiners (clad or plastic liner) Fusion Bonded Joint to J-lay plastic lined pipes, to obtain plastic liner fatigue life higher than steel
- → continuous improvement of Saipem's unique track record in pipe-in-pipes (PiP) doing faster and cost-effective pipe-in-pipes in deepwater, to extend tieback lengths
- a unique panel of distributed heating solutions from the cost-effective high-performance direct electrical heating PiP to the best-in-class electrical heated trace PiP, all installable in S-lay or J-lay
- local heating

OUR LATEST SINGLE INDEPENDENT RISER (SIR) CONCEPT: SAIPEM PROPRIETARY DESIGN EXTENDING RISER APPLICATION TO ULTRA DEEP WATERS; ENHANCED STATIC AND DYNAMIC BEHAVIOUR; LOWER SENSITIVITY TO CURRENTS

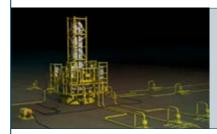


THE PRODUCTS PORTFOLIO

The Subsea Factory technologies enhance field development economics by:

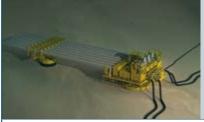
- > allowing to process fluids directly on the seabed
- > bringing semi-finished products to the surface or closing the water cycle seabed
- → featuring a new industrial model based on open source architecture, interface standardization, modularity
- > leveraging on very strong process competence and experience

OUR MAJOR SUBSEA TECHNOLOGIES



MULTIPIPE SUBSEA GRAVITY GAS-LIQUID SEPARATOR

GUARANTEES BETTER
FLOW ASSURANCE AND
DEBOTTLENECK TOPSIDE
GAS TREATMENT FACILITIES



SPOOLSEP
SUBSEA GRAVITY
LIQUID-LIQUID SEPARATOR

MAXIMIZES OIL RECOVERY THROUGH SUBSEA PRODUCED WATER SEPARATION AND REINJECTION



SPRINGS^(R)
SUBSEA SEAWATER TREATMENT
FOR INJECTION



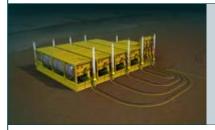


REMOVES OF THE SUBSEA WATER INJECTION NETWORK LEADING TO SAVINGS ON TOPSIDE WEIGHT AND DECK SPACE



SUBGAS
DEWPOINTING AND DEHYDRATION

IMPROVES PRODUCTION OF GAS FIELDS, INCREASING RECOVERY AND ENSURING FLOW OVER LONG DISTANCES



FLUIDEEP
DOUBLE-BARRIER MODULAR
STORAGES AND VOLUMETRIC PUMPS

REMOVES CHEMICAL LINES FROM UMBILICAL REDUCING LONG TIEBACK CAPEX

 Vertical pipes working in parallel for gravity separation; flexible design to cope with a wide range of applications and requirements (high pressure, high flowrate, slugs, etc.) 1St JIP completed with TotalEnergies and BP to validate separator performances 2nd JIP completed with TotalEnergies, Petrobras and Eni for the 	READY FOR DEPLOYMENT
 Horizontal pipes for subsea gravity separation; subsea water debottlenecking allowing tie-back of new wells Produced water treatment, jointly developed with Veolia, with hydrocyclones for deoiling and desanding Tests in a multiphase loop at CETIM Nantes 	QUALIFICATION IN PROGRESS
 Nano-filtration membranes for the removal of sulphates prior to injection nto the reservoir; A simple process that is both easy to operate and maintain. Deepwater tests performed with Saipem's Subsea Tests Unit (STU) Offshore Congo 	READY FOR DEPLOYMENT
 Subsea gas/liquid high performance separation at low temperature is a simple and low power intensive technology to allow gas transportation from deepwater to a far topside host or directly to shore Qualified Vertical Multipipe Technology complemented by additional process components validation tests 	QUALIFICATION IN PROGRESS
 Subgas is installed on the seabed, and it's used to deliver chemicals subsea, enabling all-electric architectures Comprehensive qualification and industrialization program 	READY FOR DEPLOYMENT
	_

PROJECT EXECUTION AND LIFE CYCLE CAPABILITES

ENGINEERING & CONSTRUCTION

THE SUBSEA FACTORY TO UNLOCK RESERVES

TOP QUALITY ENGINEERING TO ACHIEVE THE BEST FIELD ARCHITECTURE AND MAXIMUM OPERATOR RETURN

Early engagement, field architecture studies, basic, FEED and detailed design: opportunities for cost reduction from well to surface facilities.

Integrating new technologies and alternative field architectures to optimize flow performance and enhance recovery. Work together with partners, operators, suppliers.

SAIPEM'S OWN FABRICATION YARDS FOR HIGH EFFICIENCY AND LOCAL CONTENT



FLEET FOR PIPELAY AND SUBSEA CONSTRUCTION DOWN TO 3,000 M WD

S/J-lay, steel/flex reel lay and construction: alignment of original technical solutions with dedicated, fit for purpose installation vessels

- Saipem FDS
- Saipem FDS 2
- → Saipem 3000

- → Saipem Constellation
- Castorone
- → ROV fleet

LIFE OF FIELD: EXPERIENCE, INNOVATION AND ROBOTICS

Saipem's Life of Field services implement engineering, technologies and intervention capabilities to assist clients in the **transition from the EPCI phase to operations** and then throughout the **subsea field lifecycle**, in order to:

- Maximise uptime
- → De-risk operations
- → Assist oil/gas recovery
- > CAPEX/OPEX optimisation & balance
- → CO₂ footprint reduction



Saipem's Life of Field offering hinges upon a network of fixed and mobile sensing, inspection and intervention **robotics technologies**.

The cornerstone is the **Hydrone Platform**, a fleet of underwater robots coupled with remote control, Launch & Recovery (L&R), charging and data transfer solutions enabling long term residency. **A novel approach to field integrity** is unlocked: a complete transition of paradigm between the old, **reactive**, approach of classic IMR to the new, **preventive**, platform for handling daily integrity issues.

Three underwater drones compose the Hydrone Platform:

- → The Hydrone-R, an inspection and intervention robot conceived for resident operations over and beyond 12 months
- → The Flatfish, a long-range modular drone conceived for autonomous detailed inspections of subsea assets, including risers
- → The Hydrone-W, a full electric work class ROV sharing the same building blocks and payload modules

Saipem's portfolio includes also distributed sensing technologies for steel catenary risers (RIMS) as well as a wide offering in terms of intervention and repair, including a novel, qualified, connector for corrosion-resistant alloy (CRA) cladded pipelines.





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LET'S KEEP IN TOUCH





