



# ABS SUBSEA SERVICES

Delivering leading independent verification, certification, engineering analysis, risk, and sustainability solutions to the global subsea sector.

ABS is a world leading provider of independent verification, certification and classification services to the offshore and marine industries. For over 150 years we have supported our clients, helping their projects, equipment and assets meet the requisite codes, standards, rules and regulations, for safe and reliable operations.

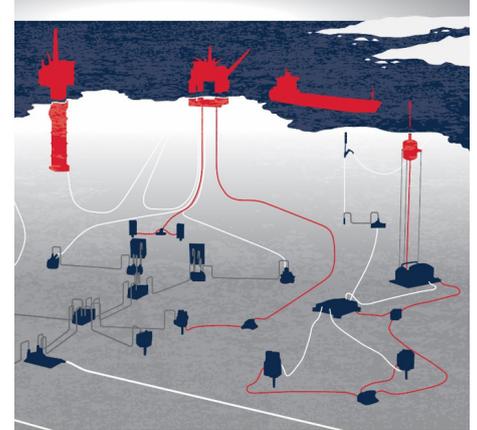
## OFFSHORE AND SUBSEA

Offshore field developments, whether via traditional projects or emerging renewable developments, continue to play an important role in helping to meet the world's growing energy demand.

In all cases the integrity, reliability and safety of subsea systems is crucial and viewed by industry as important tools in helping reduce risks to life and environmental impact.

## ABS SUBSEA LIFE-CYCLE SOLUTIONS

With more than 200 offices in 70 countries, 75 subsea engineers and specialists located globally, plus hundreds of inspectors and surveyors, coupled with agreements with a range of industry partners, ABS offers a suite of subsea services across the full project life cycle, from discovery to decommissioning. This includes approval of novel concepts, certification and verification of design, and performing independent analysis.



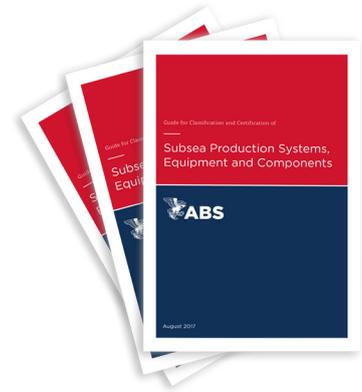
ABS offers full field, complete life-cycle support across the subsea system, including:

- Christmas Trees and Wellheads /
- Manifolds and Jumpers / Pipeline
- Ends and In-line Structures / Risers /
- Flowlines and Tie-Ins / Umbilicals /
- Control Systems and Instrumentation
- / Subsea Boosting / Compression /
- Subsea Installation and Vessels / Fixed
- Platforms / Renewables / Power Cables

ABS Subsea Services		Project Life Cycle				
		Business Strategy and Innovation	Concept and Pre-FEED	FEED and EPCI	Life of Field / Operations	Life Extension and Decommission
<b>Novel Concept and New Technologies</b>	<ul style="list-style-type: none"> <li>- Approval in Principle (AIP)</li> <li>- New Technology Qualification (NTQ) Program</li> <li>- Digital Solutions, SMART Technology</li> </ul>	✓	✓	✓	✓	✓
<b>Certification and Verification</b>	<ul style="list-style-type: none"> <li>- Certification of Systems, Equipment and Platforms</li> <li>- Verification and Inspection during All Project Phases</li> <li>- Repair and Remanufacturing Certification</li> <li>- Review / Approval on Behalf of Regulatory Body</li> </ul>	✓	✓	✓	✓	✓
<b>Independent Engineering Analysis</b>	<ul style="list-style-type: none"> <li>- Independent Third-Party Engineering Analysis</li> <li>- Material / Metallurgical Analysis</li> <li>- Standards Analysis, Gap Analysis</li> </ul>		✓	✓		✓
<b>Risk Assessment</b>	<ul style="list-style-type: none"> <li>- Risk Considerations for New Technology/Novel Concept</li> <li>- Perform and/or Review of Risk Studies</li> <li>- RBI Schemes</li> </ul>	✓	✓	✓	✓	✓
<b>Sustainability</b>	<ul style="list-style-type: none"> <li>- ESG Strategies, Implementation and Verification</li> <li>- Carbon Accounting and GHG Measurement / Verification</li> <li>- Green Financing Initiatives</li> </ul>	✓	✓	✓	✓	✓

## WHY ABS SUBSEA?

- ▶ Globally recognized leader in independent verification, certification and classification:
  - Independent Third-Party (I3P)
  - Certified Verification Agent (CVA)
  - Independent Certified Body (ICB)
  - Certification Authority (CA)
  - Independent Verified Body (IVB)
- ▶ Significant offshore and subsea track record; successful work history with major industry players
- ▶ Full life-cycle solutions, from support during development of new technologies to verification of field decommissioning
- ▶ Large global footprint of engineers, inspectors, surveyors and subsea specialists
- ▶ Collaborative and flexible approach to help our clients find the right solution for their project



ABS has published a number of subsea Rules, Guides and Advisories.

Download anytime at [www.eagle.org](http://www.eagle.org)

## GLOBAL LEADERSHIP AND NOTABLE PROJECTS

ABS has a long and successful history of delivering independent verification, certification, validation, engineering analysis, risk studies and workshops to the global subsea sector.



### 1. U.S. Gulf of Mexico

- HP/HT 20k Subsea Equipment Verification
- Riser Life Extension Verification

### 2. Brazil

- Verification of Subsea Pipelines
- Flexible Riser and Dynamic Umbilical Installation Verification

### 3. Norway

Drilling Riser Independent Analysis

### 4. Middle East

Multiple Verification and Inspection Projects

### 5. India

Verification and Certification of Multiple Deepwater Mega Projects

### 6. Indonesia

Subsea Equipment Certification

### 7. Thailand

- Verification of Riser Design and Installation
- Riser Life Extension

### 8. Malaysia

- Independent Verification
- Certification and Inspection of Various Subsea Projects

### 9. Vietnam

- Classification of Fixed Platforms and Subsea Pipelines
- Life Extension of Platforms and Pipelines

### 10. China

Verification and Certification of Multiple Deepwater Full Field Developments

### 11. Australia

Design and Installation Verification of Subsea Developments

For more information on subsea services, please contact [subsea@eagle.org](mailto:subsea@eagle.org).



### WORLD HEADQUARTERS

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