Floating Production Systems
Our integrated floating production solutions

National Oilwell Varco (NOV) is a full lifecycle partner. From project inception through final field operations, we have the commitment, knowledge and people to deliver production success today and for years to come. We offer a superior line of floating production solutions, and our people design cutting-edge technology to help you get to first oil quicker and to keep production facilities running. Our technologies maximize safety and minimize risk to operators and the environment.

Our comprehensive product line is built on the strength of our internationally known and respected brands. Their distinguished histories of technical innovation and services are all now part of the NOV line. Together we take pride in living up to our promise to be your complete integration partner.

Mooring systems

NOV acquired Advanced Production and Loading (APL) in 2010. With more than 20 years’ experience in the floating production business, APL is a leading quality supplier, innovating new technologies for mooring facilities in any environment, from the most benign to the harshest such as offshore West Africa, Southeast Asia, Australia, Brazil and the North Sea. APL offers a variety of mooring systems to meet your specific needs, such as spread moored systems and offloading buoys, including a revolutionary disconnectable turret system that allows production to continue even in the most extreme environments.

Flexibles

Our Flexibles business within NOV is a market-leading provider of flexible pipe systems and components. Joining NOV in 2012, Flexibles draws on an unparalleled depth of knowledge and experience. We leverage long-term partnerships and innovative technology to offer highly reliable subsea infrastructure solutions.

We recently built a 120,000 square-meter flexible pipe factory in Brazil, which is one of our largest facilities in the country—confirming our commitment to our partners locally and across the globe.

Processing facilities

Building upon our successful model of integration, we provide complete topside process solutions for FPSO’s, including modules and individual units based on proven products and proprietary technologies. Topsides process solutions are engineered to meet the challenges of the operating specifications with the flexibility to handle a wide variety of process conditions.

Our Topsides teams are located in in Norway, UK, USA (Houston and Louisiana) and Malaysia. Combined with NOV’s strong shipyard relationships, in-house fabrication facilities and global engineering and supply network, we power your project’s success—delivering integrated, modularized technologies.

Fiber Glass Systems

Our Fiber Glass Systems (FGS) Bondstrand™ piping at NOV is designed to provide our customers with significant economic and operational advantages. Our products withstand corrosion and last the lifetime of a facility, greatly reducing operating costs and avoiding costly downtime for maintenance.

With a worldwide network of dedicated marine agents and installers, we can design new systems or replace existing ones. Strategic partnerships with owners, engineers and yards ensure that a successful project is completed on time and within budget.

Lifting and handling equipment

Whether you need a single piece of equipment or a complete FPSO solution, we are your single-source provider for floating production equipment. Our diverse equipment offerings range from cranes to riser pull-in systems to material handling equipment.

NOV has assembled the world’s broadest range of crane solutions in both standard and customized designs and takes a systems approach to material handling, looking at the complete situation from the top down. Backed by our global network of expert service and support, we can help you shorten build times, minimize risk and get to market faster.
Your path to first oil...
As a complete lifecycle partner, we work closely with our customers to integrate deep industry experience, manufacturing expertise, and world class product technology to develop game-changing solutions.

Concept selection and pre-FEED
In the concept selection phase, together with our clients, we create a well-informed comparison of the different concepts available such as performing a combined mooring and riser analysis to exploit efficiencies in the combined system design.

Front end engineering design (FEED)
Once a concept has been selected, we have experts in a variety of fields to provide a detailed FEED study. Our team of naval architects, structural engineers, mooring experts, process engineers, integration managers and design engineers work together to develop innovative solutions for complex projects. Our people are our strongest asset and deliver the highest quality of work for the success of our partners.

Project execution
We are your single source throughout the entire project execution process. From designing and building the equipment to installation and integration at the shipyards, we reduce the risk for our customers giving them a predictable budget and schedule.

With the recent acquisition of Profab and our new Flexibles plant in Brazil, we are expanding our ownership of the entire value chain to include fabrication and integration. We provide you with more certainty and ensure that the highest quality of equipment and service is delivered.

Installation
Our truly disconnectable turret, the STP, is designed to be installed at the field, together with the mooring and risers, regardless of the FPSO schedule. We are able to de-couple the shipyard and field installation schedules to optimize time and costs, promoting efficiencies to your offshore installation campaign.

First oil
NOV is your partner on this journey to first oil and will be there with you for lasting production success.
Operations
Operational expenses are hard to predict. With a reputation for producing the most advanced, reliable equipment, we help you achieve cost-efficient operations.

Our disconnectable mooring system allows the vessel to easily return to the shipyard for any planned or unplanned maintenance. During harsh weather conditions like hurricanes or typhoons, the vessel can quickly move out of harm’s way by disconnecting the buoy – protecting personnel, equipment and the environment.

We have also developed a unique intelligent monitoring system for flexible pipes. Using optic fiber technology we can now help operators avoid unplanned production shutdowns, minimize hydrate formation and waxing and monitor system configuration integrity. The system entails a suite of temperature and strain monitoring options that provide real-time event detection as well as long-term data collection. The data provides very accurate information on the integrity of the flexible pipe systems during service. This monitoring system constitutes an important part of an overall general-purpose integrity monitoring system.

These innovative solutions help maximize your operational efficiency and increase the safety for your personnel and the environment.

Aftermarket
Our strong global presence quickly supplies service and spare parts to production operations around the world. We have strategically located warehouses and service centers to provide support or upgrades for your equipment, shortening downtime and delivering greater cost control.

Life extension
The combination of superior products designed for long-term use with a strong global support system ensures that you will get the most out of your equipment throughout the extended life of your initial project and beyond.

Redeployment
We design and build our equipment with redeployment in mind. We understand the challenges in floating production and that’s why we are a partner that helps you plan ahead to reduce time and cost, and deliver peace of mind. We focus on lasting production success.