

## Designing solutions for the future

**With decades of experience, Frontica Engineering is your specialized engineering partner for developing and documenting design solutions according to your needs.**

Our services include concept and feasibility studies, Front End Engineering Design (FEED), detail engineering and site support for both newbuild and modification projects. We have extensive experience in engineering, procurement, and construction (EPC). Additionally, we deliver fully documented design solutions including 3D models.

Through close collaboration with our customers, we have developed projects from initial assessments of a new business opportunity to start-up operations and extending the lifetime of existing units. The next step into the future is now to ensure all design solutions are green and take care of the environment in addition to being a safe working place. Our highly skilled multi-discipline engineering personnel work according to an adaptive execution model.

### Renewables

Frontica Engineering has been involved in offshore wind development project since 2015 and are partners to others by assigning specialist engineers to several offshore windfarm projects.

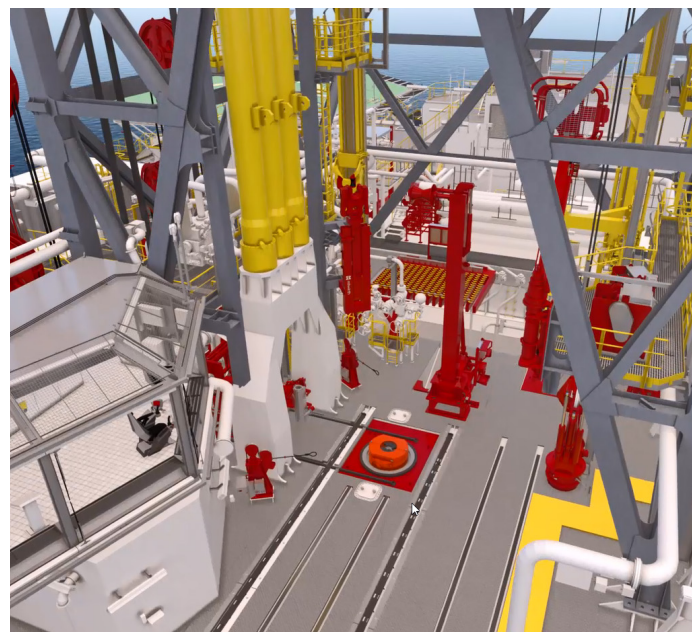
We are involved in concept development of new in-house designs and solutions for floating wind in addition to involved in other zero-emissions technologies such as hydrogen and ammonia related projects.

The renewables market to be a key market for Frontica Engineering in the future.

### Production & Drilling

Our engineering references related to offshore drilling facilities design go back to the early 1980s. Since then, we have been a front runner in developing concepts, systems, layout and structural arrangements to permanent and mobile offshore units in all waters of the world where oil and gas exploration take place in harsh weather conditions. We are specialized in topside design and arrangement for all drilling related areas and systems.

The projects that we have been a part of in the North Sea have all been great technical achievements for their time and have set new standards in the offshore industry.



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Sleipner Field



West White Rose, photo Husky

## Key Functions

- Design functionality and operation
- System and layout design
- Multi-discipline 3D model (new/existing modules)
- Design of different piping systems
- Heating, Ventilation and Air Conditioning systems
- Electro and instrument
- Control and monitoring systems
- HSE in design and compliance management
- Detailed structural design & analysis
- Structural local/global re-analysis and verifications
- Design of rooms and cabins
- Mechanical engineering and procurement
- Reviews, HAZOP and HAZID assessments
- Material handling assessments
- Process and hydraulic simulations and calculations

## Supplementary Engineering Services

- Project management and project execution
- Support and co-player in screening phases
- Preparation and documentation for Decision Gates and Approval Processes
- Risk Assessments
- Review and evaluate implications of any applied Class Society, Standards, Rules and Regulations
- Active role and partner for innovative solutions
- Feasibility study and engineering to propose system upgrade and equipment replacement
- Fabrication and site support
- Propose and implement “Greener Solutions” to achieve reduction in power, fuel and CO2
- CAD management

