

Unique Value Propositions

CNOOC-Norway Annual Technical seminar for Low Emission and Digitalization

11-12 October 2023, Beijing



Companies

- Billington Process Technology (BPT) 3
- ConditionALL..... 4
- DNV Digital Solutions Veracity AI 5
- DNV Energy 8
- eDrilling 9
- Global Maritime 10
- InflowControl 11
- Jotun Coatings (Zhangjiagang)..... 13
- Kongsberg Digital 14
- Kongsberg Maritime 15
- Miros 16
- Novenco..... 17
- One Subsea 18
- Rystad Energy..... 19
- Seaonics 20
- Stauper Offshore..... 21
- Øgland System..... 22

Billington Process Technology (BPT)

Simen Martinsen
Business Development Manager
Email: simen@bpt.no
Mobile: +4799274039

Company Profile

At BPT, we are dedicated to providing cutting-edge process simulation solutions with a unique focus on a comprehensive lifecycle approach. Our value proposition lies in our ability to optimize operations, enhance productivity, and minimize risks throughout the entire lifespan of any process, from design to decommissioning. We are highly focused on low emission both in design and operation of energy systems (Oil & gas and green sustainable energy systems) by applying digital solutions and domain knowledge.

Here's what sets us apart:

Dynamic Simulations: We excel in dynamic process simulations, going beyond static modelling to capture real-time changes and complexities. Our additional and advanced software that works seamlessly with HYSYS and expertise enable us to accurately simulate dynamic behaviour, including transient phenomena, system responses, and process interactions for any energy process.

Lifecycle Approach: We understand that a process's lifecycle encompasses various stages, from conceptual design and construction to operation and eventual decommissioning. Our holistic approach ensures that simulations align with each phase, offering valuable insights and support throughout the entire lifecycle.

Risk Mitigation: Our unique additional software that works seamlessly in HYSYS allows for faster and more accurate evaluations that requires less iterations. This reduces cost and risk.

Collaboration and Expert Support: We believe in establishing strong partnerships with our clients. We provide expert support throughout the implementation process, including training, ongoing assistance, and continuous improvement initiatives. If we identify gaps in the process simulators those are closed by our software development team.

By working with BPT and with a lifecycle approach you can unleash the potential of your processes, mitigate risks, and stay ahead of the competition with comprehensive and tailored solutions.

Technologies & Solutions

www.bpt.no

www.greentwins.no

ConditionALL

Robert Xiao
China Sales Manager
Email: robert.sean@conditionall.com.cn
Mobile: +86 18128255852

Company Profile

ConditionALL is a Norwegian based company that is specialized on condition monitoring of valves. We provide valve diagnostic products and services worldwide.

Having been a part of valve diagnostic development since the start in the 90', we are now providing the next generation of valve monitoring.

Our solution is: **One system for all valves**

The system, C-ALL Insight, accepts data from all kind of valves and actuators independent of manufacturer and will store, automatically analyze and give you a powerful tool for doing valve diagnostics.

System can detect essential valve assembly parameters like:

- Solenoid failure and degradation
- Response / travel time
- Friction force / thrust / torque
- Spring force
- Functional margin
- Seat force
- Leakage (actuator)
- Instrument fault
- Valve passing / leak

ConditionALL have sensors for both manual valves and actuated valves. C-ALL Insight can handle large amounts of data and the algorithms can use existing sensors as input.

The valve data is easily interchangeable with other systems, utilizing multiple industrial and consumer protocol. It is made with focus on security and data safety. Every measurement and result is authorized and encrypted.



DNV Digital Solutions Veracity AI

Huang Hao
Area Manager, Digital Solutions-Greater China
Email: Hao.Huang@dnv.com
Mobile : +8613585622239

Ji Hao Wei
Head of Engineering China, DNV Veracity
Email: jeffery.ji@dnv.com
Mobile : +8618621522996

Chen Zhong Ning
Director of Artificial Intelligence Research Center
Email: michael.chen@dnv.com
Mobile : +8613661800180

Company profile

DNV is an independent assurance and risk management provider, operating in more than 100 countries, with the purpose of safeguarding life, property, and the environment. As a trusted voice for many of the world's most successful organizations, we help seize opportunities and tackle the risks arising from global transformations. We use our broad experience and deep expertise to advance safety and sustainable performance, set industry standards, and inspire and invent solutions.

DNV Digital Solutions

DNV is a world-leading provider of digital solutions and software applications with focus on the energy, maritime and healthcare markets. DNV's solutions are used worldwide to manage risk and performance for wind turbines, electric grids, pipelines, processing plants, offshore structures, ships, and more. Supported by the company's domain knowledge and its Veracity assurance platform, DNV enables companies to digitize and manage business critical activities in a sustainable, cost-efficient, safe and secure way.

Leading engineering software applications and enterprise solutions

Wind turbine design

Electric grid asset performance

Pipeline risk and integrity

Wind resource and production assessment

Offshore structural engineering

Fleet management and operations

Solar PV plant design

Processing plant risk and integrity

QHSE and Enterprise Risk

3 DNV © 21 SEPTEMBER 2023



Software solutions specialized for different asset types



Plant



Electric Grid



Ship



QHSE



Renewables & Ocean Structure



Pipeline



Data management & analytics services

2 DNV © 21 SEPTEMBER 2023



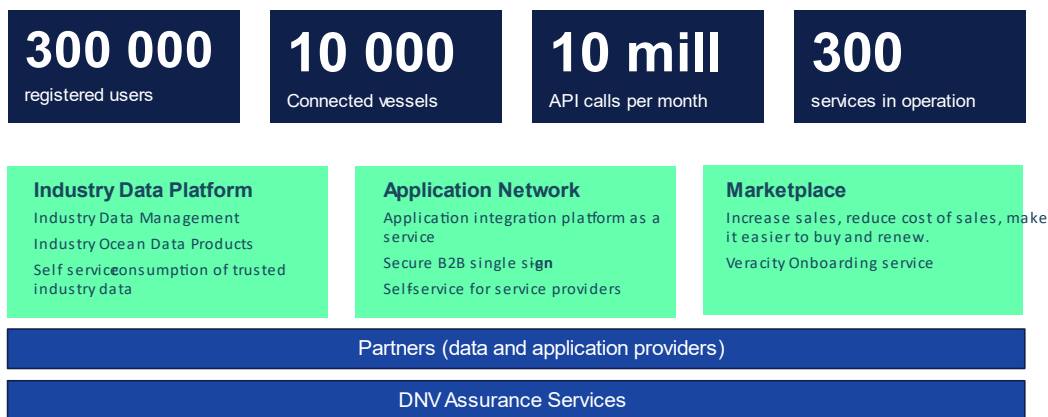
DNV Veracity

Built by DNV, Veracity is an independent industry cloud platform that enables users to take control and gain exponential value from their data. Utilizing the secure and efficient platform, users can leverage and share their data in a confident and frictionless manner. Further, by utilising our extended network of modular tools, users can unlock additional value and innovative potential from their data by repurposing it or combining it with other quality data that flows in from additional entry points.

Our secure platform facilitates not only the easy exchange of datasets, but enables the optimized integration of APIs, applications and third-party software, too. By partnering with Veracity and onboarding your service, you expand your reach and boost your uptake. Together, we grow the ecosystem, build new and disruptive business models and revolutionize maritime and energy industries.



The Veracity Industry Cloud



4 DNV ©



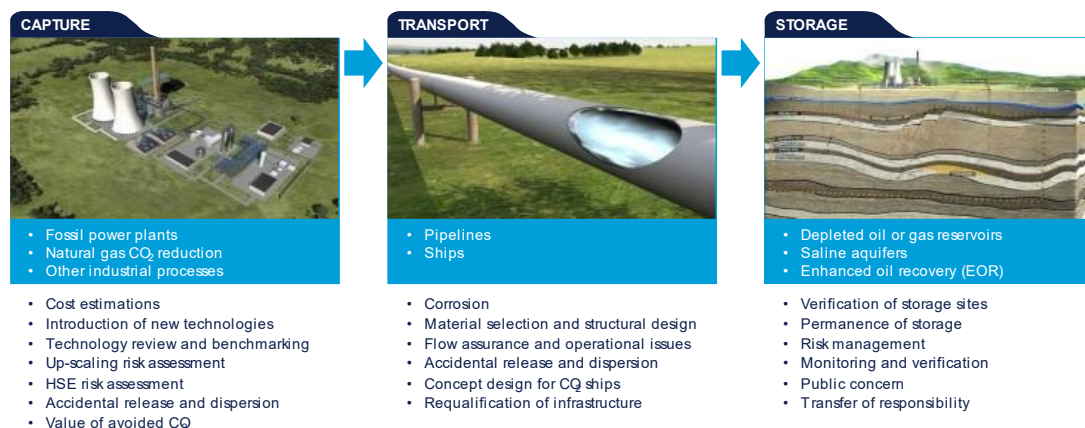
Gavin Guo Yuan
 Market Area Manager, CNOOC KAM, H2 & CCS Lead
 Gavin.Guo@dnv.com
 Mobile: 18649061230

Company profile

We are the independent expert in assurance and risk management. Driven by our purpose, to safeguard life, property, and the environment, we empower our customers and their stakeholders with facts and reliable insights so that critical decisions can be made with confidence. As a trusted voice for many of the world's most successful organizations, we use our knowledge to advance safety and performance, set industry benchmarks, and inspire and invent solutions to tackle global transformations.

DNV ON CCS

Helping scale CCS – 200+ projects in past 10 years



2 DNV © 06 JUNE 2023



Benefits of CO₂ Storage Site Certification

- Subsurface CO₂ storage remains a novel and unfamiliar concept for many – stakeholder assurance is key.
- Objective QA of storage site development by independent experts – brings key issues into focus.
- General alignment between certification stage and permitting milestones – can accelerate permitting processes for early projects.
- Certification can be used alongside regulatory E&P milestones to demonstrate alignment with industry best practice.
- The EU Taxonomy requires compliance with ISO 27914 – Relevant for import of H₂ and NH₃ and for EU companies doing storage outside Europe.
- Helps companies be positioned for public funding, e.g. EU Innovation Fund.





eDrilling

Jie Cao
 Chief Technology Officer
 Email: jc@edrilling.no
 Mobile: +47 97738118

Company Profile

eDrilling is a world leading company with industry-verified digital and AI solutions in Drilling Engineering since 2008, headquartered in Stavanger, Norway with supporting teams in Kuala Lumpur, Malaysia and Houston, US. We take pride in delivering unique software suite for major oil and gas companies, service companies in 20+ countries worldwide, including CNOOC in China since 2013, toward safer, faster and greener operations. This year marks 10 years anniversary of our collaboration and we embark on next decade of successful drilling operations with state-of-art digital and AI solutions.

General information about eDrilling products

Well construction Lifecycle	 Plan Design & Engineering	 Prepare Testing & training	 Execute Operations	 Review Lessons learned & outcomes
Challenges	<ul style="list-style-type: none"> Accuracy of plans Planning time Risk and uncertainty Investment in legacy technology 	<ul style="list-style-type: none"> Crew competence Crew readiness Testing new equipment 	<ul style="list-style-type: none"> Safety Non-Productive Time (NPT) Time spent on well (cost) Carbon footprint (emissions/new) 	<ul style="list-style-type: none"> Experience transfer Verification/validity of lessons learned Process of implementing lessons learned in the plans for the next well
Solutions	wellPlanner	wellSim	WellAhead wellBalance wellGuide wellMaps	wellAhead
Value Proposition	<ul style="list-style-type: none"> Optimized Drilling Operations Plan Reduce planning time Leverage investment in legacy technology 	<ul style="list-style-type: none"> Practice on/drill actual upcoming well(s) Unprecedented crew preparedness 	<ul style="list-style-type: none"> Rid/reduce incidents, NPT, and carbon emissions Real-time optimization Full benefits using existing legacy drilling equipment and systems 	<ul style="list-style-type: none"> Re-play actual operation Implement revisions in simulator to verify the improvements Lessons learned implemented in the plans for the next well (one model across well lifecycle)
Technology Enablers	<ul style="list-style-type: none"> Dynamic transient modelling World leading Dynamic Hydraulic & Temperature (DHT) and Torque & Drag (TD) Microservices 	<ul style="list-style-type: none"> Digital Twin AI (model-based reasoning) Advanced simulation 	<ul style="list-style-type: none"> AI (model-based reasoning) Digital Twin Autocalibration (drilling automation) Predictive Analytics Cloud & Edge 	<ul style="list-style-type: none"> AI (model-based reasoning) Digital Twin Seamless integration – one data model

- **wellGuide**: New automated operational optimization tool to maximize ROP, tripping speed within safe margins, cloud native and edge enabled system deployed on existing legacy infrastructure.

Technologies & Solutions

<https://www.edrilling.no/>
<https://api.wellplanner.no/v1.5/spec/>

Global Maritime



Andy Xiong
General Manager for China
Email : andy.xiong@globalmaritime.com
Mobile: +86 13262772435

Company Profile

Global Maritime is an independent marine consultancy with over 43 years track record and experience in delivering marine warranty survey, dynamic positioning, specialist offshore engineering and safe & cost-efficient marine operations.

We partner with our Clients to safely meet the challenges of the marine and offshore environment; providing practical solutions by innovative means, to mitigate risks and deliver operational excellence

Key capabilities

Engineering Solutions

- Feasibility Studies
- Concept and basic design
- Structural/Naval Architecture
- Risk & safety
- Crane Modifications
- Specialist software

Marine Consultancy

- Marine Expertise
- Marine Assurance
- Vessel/OVID/CMID inspections
- Tow Masters

Marine Warranty Surveying

- Verification & approval
- Marine assurance
- On-site attendance
- Rig move (MWS)
- Transport & Installation

Marine Operations

- Mooring installation/Replacement & Inspection
- STL System, Flexible Risers/Umbilical
- Floater Disconnect, Tow and Hook-up
- Offshore Transportation and Installation

Mission Critical Systems

- DP capability and FMEA assessment
- Competency assurance
- Vessel DP
- DP Manuals and training
- Crane Inspections

Technologies & Solutions : www.globalmaritime.com

InflowControl

Nicholas Hooper
Vice President Middle East, Africa, and Asia Pacific
nicholas.hooper@inflowcontrol.no
Mobile: +971 54 585 3008

Company Profile

InflowControl is a technology company that helps oil companies improve the efficiency of oil production while reducing the industry's environmental impact with the Autonomous Inflow Control Valve (AICV®). The technology improves oil production by reducing unwanted gas and water which enables oil fields to be more profitable by supporting oil production from zones that would have typically been bypassed. This provides oil companies and its stakeholders with Lower Carbon Oil and higher profitability.

The AICV® technology has shown impressive results with more than 260 wells deployed globally, supported with more than 30 publications.

Features & Benefits

- Autonomous: Combines the best from passive Inflow Control Device (ICD), Autonomous ICD (AICD), and hydraulically or electrically controlled smart valves (ICV). Reacts to reservoir uncertainties without external power
- Optimised Reservoir Management: Rejuvenates and/or prolongs the life of a well by significantly reducing GOR/ WC thereby accelerating oil production and increasing ultimate recovery
- Effective: Can choke or completely shut-off unwanted gas/ water
- Ultralight Oil: Can manage unwanted gas down to 0.25 cP oil and unwanted water as low as 0.6 cP oil
- Modular Products: AICV joints can be equipped with additional products for enhanced capabilities such as the Pressure Actuated Valves (PAV) for a closed system, Injection Valves for chemical treatment, or high pressure Check Valves for stimulation. These, along with the number of AICVs per joint, and screen type, can all easily be configured prior to manufacturing
- Reversible: Allows oil production after earlier breakthrough

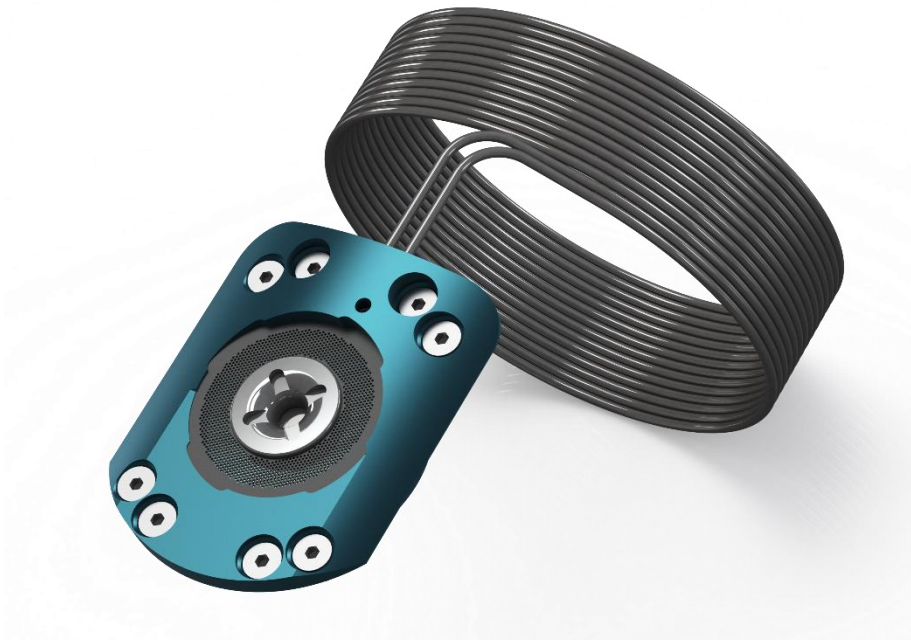
- Engineered: Tungsten Carbide for erosion resistance and purposefully designed to limit sensitivity to scale, and debris
- Flexible: Can easily adjust the choking of each phase and design AICVs strength as required for specific reservoirs
- High Resolution: No limitation in number of zones
- Retrofittable: Can be installed in new and existing wells
- Robust: Low-risk, uncomplicated with no additional HSE implications for deployment
- Accessibility: Full bore ID for any future operations
- Environmentally Conscious: Substantially reduces carbon emissions
- Cost Effective: Greatly lowers CAPEX and OPEX costs by reducing water and gas, simplifying deployment, and eliminating risky interventions

More information:

<https://www.inflowcontrol.no/aicv-technology>

<https://www.youtube.com/@InflowControl>

<https://www.linkedin.com/company/inflowcontrol-as>





Jotun Coatings (Zhangjiagang) Co., Ltd.

Guo Jinan

National Sales Manager – Oil & Gas, Offshore

Email: guo.ji.nan@jotun.com.cn

Mobile: 13817826577

Company Profile

Since Jotun was founded 90 years ago in the town of Sandefjord, Norway, much has changed, but our commitment to deliver exceptional quality remains the same. Innovation, technology and research have propelled us to the forefront of our industry, and we now span across over 100 countries worldwide, with no signs of stopping.

As one of the world's leading manufacturers of paints and coatings, we combine high quality with creativity and innovation to provide high performance and sustainable anti-corrosion solutions to protect properties with minimum maintenance to contribute the society.

Some Jotun high performance paint products are as below.

1. Baltoflake: more than 40 years maintenance free track records
<https://www.jotun.com/ww-en/industries/solutions-and-brands/baltoflake/overview>
2. Marathon 1000 Series: solvent free epoxy with excellent impact and abrasion resistance
<https://www.jotun.com/ww-en/industries/products/Marathon-1000-GF>
3. Jotacote Universal S120: Solvent free epoxy with exceptionally high adhesion strength and high flexibility – giving you unrivalled anti-corrosive properties
<https://www.jotun.com/ww-en/industries/products/Jotacote-Universal-S120>
4. Jotachar JF750 XT: all-climate intumescent hydrocarbon fire protection coating, suitable for cryogenic spill protection.
<https://www.jotun.com/ww-en/industries/solutions-and-brands/jotachar/about-the-brand>

Kongsberg Digital



KONGSBERG

Dayu Feng

Marketing and Operations Manager, Great China

dayu.feng@kongsbergdigital.com

Tel.: 0086 13910851761

Web: www.kongsbergdigital.com

Founded in 1814, Kongsberg is one of Norway's most important technology companies, focusing on the development of advanced technology from deep sea to outer space, aiming to provide extreme performance under extreme conditions. We provide comprehensive solutions for businesses, partners, and countries that operate in related areas.

As one of the four subsidiaries of Kongsberg Group, Kongsberg Digital is not only the group-wide digital professional technology centre, but also provides next-generation software and digital solutions to customers in the shipping and shipping, oil and gas, renewable energy, and power supply industries. We have leading expertise in the Internet of Things, intelligent data, artificial intelligence, digital twinning, and other areas that support automation and autonomous operations.

Our software and digital systems support collecting and analyzing data for over 30,000 ships and 22,000 oil (gas) wells and provide digital solutions to customers based on the resulting data and computational data. For years, we have been working to develop real-time data systems for automation and autonomous operations. As one of the major technology suppliers, we have participated in the world's first zero-emission pure electric autonomous container ship, the first self-directed unmanned airport tower, China's first million-ton CCUS, China's first ultra-deepwater gas field project, etc. It has carried out business cooperation with more than 30 countries and regions worldwide. Every day, our products are helping customers around the world achieve more efficient and sustainable operations, and create a better tomorrow for mankind, society and enterprises.

Kongsberg Maritime



KONGSBERG

Kong Chang Wei / 孔长伟

Sales Director

Sales and Marketing Department - Offshore

KONGSBERG MARITIME CHINA SHANGHAI LTD

Mobile Phone: +86 138 1712 2843

Email: chang.wei.kong@km.kongsberg.com

Kongsberg Maritime is a global marine technology company providing innovative and reliable 'Full Picture' technology solutions for all marine industry sectors including merchant, offshore, cruise, subsea and naval. Headquartered in Kongsberg, Norway, Kongsberg Maritime has manufacturing, sales and service facilities in 34 countries.

Kongsberg Maritime solutions cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning as well as energy management, deck handling and propulsion systems, and ship design services. Subsea solutions include single and multibeam echo sounders, sonars, AUV and USV, underwater navigation and communication systems.

Training courses at locations globally, LNG solutions, information management, position reference systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio. Additionally, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries.

Web: [Kongsberg Gruppen](#) | [Kongsberg Maritime](#)

Social media: [LinkedIn](#) | [Twitter](#) | [Facebook](#)

Herman Foss
Vice President Sales
herman.foss@miros-group.com
+47 915 69 750

Company Profile

Miros is a Norwegian company established in 1984 delivering high quality products to offshore and coastal installations in the whole world. The products are based upon radar technology and measure waves, surface currents and detect oil spill. All hardware and software products are designed by Miros. 90% of products are exported.

Main products

- Wave and current radar (SM-050). Robust purpose build radar.
- Wavex. Designed for vessel use – use X-band navigation radar.
- RangeFinder. Downward looking non-directional radar. Robust purpose build radar.
- Oil Spill Detection. Detection by -band radar, optional verification by infrared cameras.

Advantages

- Require no calibration.
- Not in water
 - o Low maintenance
 - o Not in way for ship traffic
 - o Do not run away in typhhons
- Long lifetime
- All products used offshore for many decades.



Technologies & Solutions

www.miros-group.com

David Shi
Sales director
+86 13331981061
dsh@novencogroup.com

Scott Gao
Area Sales manager
+86 13591787876
sga@novencogroup.com

Company Profile

Novenco, your preferred supplier in HVAC&Ref.

Established in Denmark in 1947, and with more than 75 years of experience, Novenco is among the world leaders in supplying HVAC+R systems. We develop and manufacture high quality heating, ventilation, air-conditioning and refrigeration solutions for marine and offshore applications.

Our Mission is to provide reliable HVAC&Ref solutions adapted to our customers' needs through our committed and passionate organization.

Our Vision is to be recognized as the no. 1 HVAC+R partner in all markets we serve, Offshore Windfarms, Offshore Oil & Gas, Navy and Marine segment.

Novenco's scope of supply covers from early HVAC studies all the way to the HVAC service of aftermarket needs. This range of products and services include HVAC System Design and Detail Engineering, Procurement Phase, Equipment Manufacturing Process, Project constant follow-up and reporting, Inspection & Testing, Project Documentation customized on the Client's needs, Commissioning stage of the project, followed by Services for After Market and Warranty, all backed up by a dedicated Project Management team.

Offshore projects require special knowledge of the offshore rules and regulations in addition to owner specific technical requirements. With our vast expertise, Novenco brings to our customers the assurance that the HVAC & Ref project is carried out with quality, on time and inside the budget's boundaries.

Novenco sits at the front of today's industry challenges offering cutting edge solutions for HVAC&Ref, focusing on environmentally friendly refrigerants with low or zero GWP, cooling equipment having a high EER, energy efficient fans driven high performance motors and variable speed drives, advanced Control Systems with full redundancy, etc.

Novenco has own factory in Wuxi, China to make sure competitive and quality-controlled products can be delivered to customer. Products lead time can also be promised especially for big offshore projects.

As a new chapter begins with the world embracing the renewable energy on a large scale, Novenco brings its long years of offshore experience into the wind powered offshore substations, targeting this fast-developing segment of offshore windfarms all over the world. Our competence gives to our clients the assurance of quality they seek for when developing such projects.

Technologies & Solutions

<https://www.norwep.com/partners/novenco>

<https://www.novenco-marine.com>

Ji Ning
Sales Manager China
Email: nji@onesubsea.slb.com
Mobile: +86 186 6622 2661

Company profile

OneSubsea delivers integrated solutions, products, systems and services for the subsea oil and gas market. Our company offers a step change in reservoir recovery for the subsea oil and gas industry through integration and optimization of the entire production system over the life of the field.

OneSubsea leverages Cameron's flow control expertise, process technologies and world-class manufacturing and aftermarket capabilities, along with Schlumberger's petro-technical leadership, reservoir and production technology, and R&D capabilities.

OneSubsea为水下油气市场提供整体解决方案，系统和服务。我们公司在油田全生命周期内整合和优化生产系统，提高水下油气工业的油藏回收率。OneSubsea发扬了卡麦龙的流动控制专长，工艺技术和世界级的制造和售后服务，同时兼有斯伦贝谢的石油化工行业领导力，油藏和生产技术以及研发能力。

OneSubsea currently operates in six technical areas of domain expertise - Integrated Solutions, Production Systems, Processing Systems, Control Systems, Swivel and Marine Systems, and Subsea Services – that provide products and services to oil and gas operators around the world.

OneSubsea目前以下拥有六大技术领域专长：水下开发整体解决方案，水下生产系统，水下工艺系统，水下控制系统，滑环和海洋系统以及水下服务，为全球范围内的油气作业者提供产品和服务。

OneSubsea is dedicated to the low carbon system solutions from full system electrification to low carbon transition knowledge, powered by state-of-art subsea live digital solutions.

OneSubsea 致力于低碳系统解决方案，从引领行业的第一个全电生产系统，到减排的水下生成技术，所有系统都提供“subsea live”的数字方案。

Technologies & Solutions

1. <https://www.onesubsea.slb.com/>
2. <https://www.norwep.com/partners/onesubsea>



Rystad Energy

睿咨得能源

Xinlei Zhu
Rystad Energy China Country Manager
[Email: Xinlei.zhu@rystadenergy.com](mailto:Xinlei.zhu@rystadenergy.com)
Mobile: +86 18518559023

Company Profile

We are an energy industry focused independent research and business intelligence company, providing clients with data, analytics and consulting services that power better decision making. Our data and insights are granular and bottom-up, generated by gathering the smallest data points before connecting the dots to see the whole picture.

Global research network in more than 30 countries. Two offices established in China located in Beijing and Shanghai, with a local team of research analysts covering sectors ranging from Upstream E&P, Oil Market, Gas Market, Energy Services, Renewables, and batteries.

Main product solutions:

- Global Upstream Exploration & Production database and consulting services
- Global Oil Field Service database and consulting services
- Global Energy Industry Service Sector Cost and Price database and consulting services
- Global offshore Drilling Database and consulting services
- Global Shipping and Vessel Database and consulting services
- Global Subsea engineering Database and consulting services
- Global offshore wind Database and consulting services
- Global Renewable energy Database and consulting services
- Global Energy Transition Database and consulting services.

Technologies & Solutions:

<https://www.rystadenergy.com/services>

Seaonics

Seaonics Technology for SOV and CLV

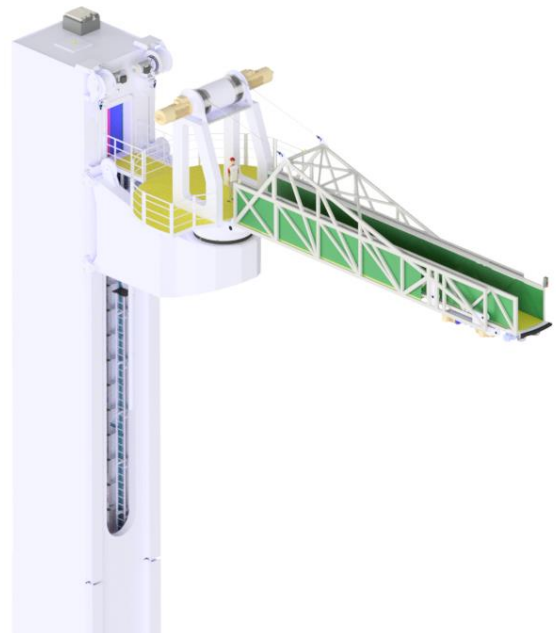
The Seaonics ECMC Crane and ECMC Gangway for SOV cargo and personnel handling are designed to deliver efficient operations through a unique telescopic design, one-of-a-kind for 3D compensated cranes. The gangway has a boom designed for reducing the height of the elevator tower. The Seaonics ECMC Gangway have the same genetic as the crane and are fully electric in all functions. The control system for both system is based on Seaonics patented and proven control methods for 3D-compensation through over 30 deliveries of electro and control system technology for to the Walk to Work system

Main customer benefits are smart electric design and easy maintenance. With all engineering disciplines in-house, the result is a well-integrated and optimized design.

Seaonics is a result of the maritime cluster on the West-coast of Norway, and our market position is the result of the trust and support from ships designers and ship owners.

For SOVs & CLVs Seaonics can supply:

- Seaonics Electric Controlled Motion Compensated (ECMC) Crane
- Seaonics Electric Controlled Motion Compensated (ECMC) Gangway
- Standard Launch & Recovery Systems for ROV
- Super compact Launch & Recovery Systems for ROV
- Developing heavy topside equipment for CLV



Seaonics As
Hundsværgata 8
NO-6008 Aalesund
NORWAY

Tel: +47 71 39 16 00
mail@seaonics.com
seaonics.com

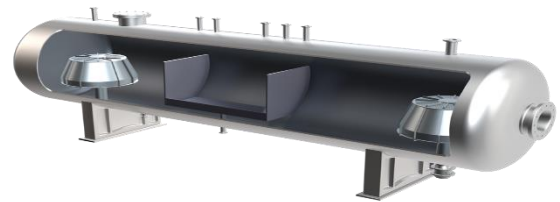
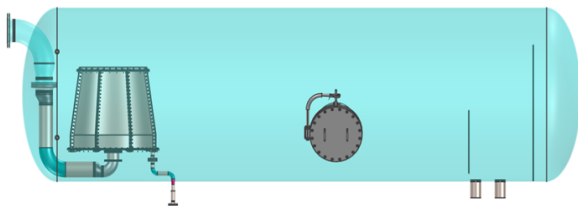


Stauper Offshore

Hans Angman
Managing Director
Stauper Offshore AS
E-mail: ha@stauperwatertech.com
Mobile: +4790924709

Stauper Water Technologies offers some clear and documented benefits such as

- Stauper Water Technologies Bottlenecks Increased Produced Water in Existing Infrastructure
- Maximizing profitability – Two 100% full stage CFU compartments in One Pressure Vessel (< CAPEX)
- Superior Oil in Water Separation allows for Better Environmental Impact Factor
- Robust and Stable Process allows for Reduced Footprint & Elimination of Process Equipment
- Maximizing profitability - Reduced Dependency of Chemicals (< OPEX)
- Applicable to both Brownfield, Debottlenecking and Greenfield projects, Onshore & Offshore
- No Moving Parts



- ✓ **Unique Upgrades - Bringing the Core CFU Technology into Existing Horizontal & Vertical Vessels**
- ✓ Unique Upgrades - Bringing the Core CFU Technology into Existing Horizontal & Vertical Vessels
- ✓ Backbone of the technology is the patented Stauper Coalescence Chamber (SCC)
- ✓ Removable Separation Internals & Assembled in modulars through manway
- ✓ Allows for increased Produced Water Capacity, Capture & Drainage of Solids
- ✓ Reduced lead time to meet Time-Constraints & Significant time saving vs new built process equipment
- ✓ Eliminating Heavy Lift Operations
- ✓ Reduced Engineering, No Hot-Work and No Re-Certification.
- ✓ No moving parts

www.stauperwatertech.com

Øgland System



A Group Company of 

Pei Zheng,
Head of Onshore North Asia
Head of Offshore China
Email: Zheng.Pe@hilti.com
Mobile: +86-139 1138 2872

Company Profile

Oglaend System is a global and market leading solution provider of multidiscipline support systems, cable ladders, cable trays and associated services. Whether it is oil & gas, shipbuilding, wind energy or new energies, our 40 years of experience in the offshore industry helps provide our customers with the most cost efficient and durable supports solutions across disciplines.

Oglaend System is part of the Hilti Group, who are renowned for quality tools and fasteners and has a strong global presence in the construction, energy, and industry segments. By combining Hilti's fastening on steel technologies and Oglaend System's multidiscipline support systems we can provide the ultimate combination of flexibility, strength, and corrosion resistance.

Combined with our end-to-end service model and digital offerings we initiate our contribution as early as pre-feed stage, where we investigate the added value of implementing these application chains in projects.

Modularization is what we consider as the best alternative to any support structure. By using modular supports you can mount components, non-critical piping, cable ladders and trays and many other required systems, using an efficient, safe, and easy to build system. For optimal efficiency gains, we evaluate the option of supporting multiple disciplines such as Cable trays/ladders, HVAC, and non-critical piping – in a single solution.

We want to be your solution partner for modularization (SP4M) and can help reduce the overall cost of your project by reducing weight, installation time and engineering hours. The combined Hilti and Oglaend System portfolio provides innovative systems applicable for electrical, instrumentation, HVAC and piping scopes aimed to help reduce the overall project cost.

Total installed costs mentioned above includes engineering, production, and installation, but excludes on-site modifications and rework (MMO), that will bring significant additional savings later during the asset lifetime for an owner/operator. More importantly, reductions in overall hands-on tool time helps you get the job done faster, enabling you to reallocate teams to other tasks and activities and ensure on-time delivery.

Technologies & Solutions

www.norwep.com/partners/oglaend-system-oglaend
www.oglaend-system.com/



www.norwep.com