Precision and partnership in offshore alignment

André van Nijnatten, Sales Manager at AnMa-TECH BV, and Alfred Versteeg, Manager of Operations at Dutch Heavy Lift Consultants B.V., discuss how their collaboration is redefining safety and efficiency in offshore wind turbine installation through the innovative Flange Alignment System (FAS). In this interview, PES Wind speaks with them about how precision engineering and partnership are driving progress in the offshore sector.

PES: Welcome to PES Wind. It's great to have you both with us. To start, could you each give us a short introduction to your company and explain the role you play in supporting offshore wind turbine installation?

André van Nijnatten: At AnMa-TECH BV, precision, reliability and technical expertise define our work. We specialise in industrial bolted connections, providing end-to-end solutions that extend beyond supplying tools. Our services cover engineering, consultancy, sales, rental and 24/7 on-site support to ensure every connection meets exacting safety and performance standards.

Operating in sectors such as energy, petrochemicals, offshore and mechanical engineering, our clients rely on us for critical applications where accuracy matters. With innovation and continuous improvement central to our approach, AnMa-TECH is more than a supplier; we're a long-term partner in operational excellence.

Alfred Versteeg: Dutch Heavy Lift Consultants (DHLC) is a forward-thinking engineering company based in the Netherlands. We deliver reliable, innovative solutions for complex challenges in heavy lifting and construction. Our team combines deep experience with a passion for precision and safety, ensuring every project meets the highest standards. From concept to completion, we support clients across multiple industries, helping them achieve their goals efficiently.

At DHLC, each assignment is an opportunity to push boundaries, refine processes and deliver excellence.

PES: Offshore wind projects have grown massively in scale over the past decade. From your perspective, André, how has this increase in turbine size and installation complexity changed the challenges around flange connections?

AvN: As turbines increase in size, bolted connections face far higher demands.

During installation, and in key components such as lifting points, these connections have become larger, more complex and more safety-critical. The challenge lies in developing precise and efficient methods to handle them under extreme conditions. At AnMa-TECH, we combine engineering know-how, advanced tools and field experience to meet these challenges with confidence.

PES: You've been involved in a wide range of engineering and project support work, Alfred. From your side, what trends have you seen in the demands placed on installation contractors, and how do these affect alignment and connection work?

AV: As turbines grow, the equipment needed for installation has also become heavier and more complex, introducing new challenges in safety, precision and efficiency. We're constantly refining our methods to ensure these operations are executed safely, accurately and cost-effectively. Through engineering expertise and innovative technology, DHLC helps clients overcome the technical hurdles of modern turbine installation, from lifting and positioning to securing critical components.

PES: The Flange Alignment System (FAS) came about from a very practical request from the industry. Looking back, what did that reveal about the market's needs, and how did it shape your approach to developing and refining solutions together?

AvN: A client approached us with a critical challenge: flange alignment and ovality correction. To solve it, we developed a specialised system, later certified by DNV. That was the start of the FAS; a technology built for precision, safety and efficiency in demanding environments. Today, it's a proven system that saves time, reduces costs and ensures structural integrity.

PES: André, precision and safety offshore are non-negotiable. How has the FAS changed the way operators think about alignment and correction compared to traditional approaches?

AvN: The FAS was initially developed at the request of a turbine installation company seeking a safer, more efficient way to align the transition piece (TP) and monopile (MP) connection. Originally designed purely for alignment, it has since evolved into a versatile tool for both alignment and correction.

PES: One of the unique aspects of the FAS is its ability to correct flange deformation as well as alignment. What impact do you see this having on project schedules, risk management and overall costs, Alfred?

AV: The FAS makes flange alignment faster, safer and more precise. It enables quick, accurate alignment and safe correction of flange positions during installation or maintenance. By reducing manual effort and minimising risk, it improves reliability and productivity in critical operations.

PES: Offshore projects are highly time-sensitive, with weather windows and vessel costs adding real pressure. How does the controlled process behind the FAS help reduce downtime and avoid costly rework?


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AvN: We've completed multiple projects where we not only aligned flanges but also restored them to their correct shape. With our tools, alignment can be done within minutes, and reshaping takes around three hours, a major time saving compared with traditional methods.

This speed never compromises safety or quality. Our approach ensures precise, reliable results, reducing downtime and improving project performance.

PES: Independent certification has become increasingly important in offshore wind. André, what has DNV approval meant to you in terms of technical validation and encouraging adoption?

AvN: DNV certification provides assurance that our system doesn't introduce excessive stress into the flanges. It confirms compliance with the highest international standards for safety and structural integrity, giving clients full confidence in long-term reliability under demanding conditions.

PES: Every project comes with its own unique requirements. Alfred, how do you approach customisation while working with AnMa-TECH to keep the system standardised yet flexible?

AV: Every project begins with a question. From there, we move into detailed engineering to tailor the solution to the client's needs.

The core system stays consistent, but we adapt it for each specific application. This allows us to combine proven technology with

André van Nijnatten

flexibility and innovation, delivering results that are both dependable and efficient.

PES: The offshore wind industry is under pressure to reduce costs while maintaining the highest levels of safety and quality. How do you see the FAS contributing to that broader goal?

AvN: Because FAS operates in a controlled and localised way, it offers a safe, efficient method for flange alignment and correction. By minimising stress and focusing on precision, it delivers reliable results, less downtime and greater overall project efficiency.

PES: The FAS has already been adopted by several major installation contractors. In your view, André, what has been the

Alfred Versteeg

biggest factor in building trust and acceptance across the industry?

AvN: The FAS has proven its value in practice. Across multiple projects, it has ensured safe, precise alignment while delivering measurable savings through reduced downtime, faster execution and lower risk. That real-world performance is what builds confidence.

PES: Looking ahead, turbines and foundations will only become larger and more complex. Where do you see the next big alignment challenges, Alfred, and how are you preparing to meet them?

AV: As turbines grow, alignment becomes increasingly critical. The greater the forces involved, the more important perfect flange positioning becomes and that's where FAS excels. By combining speed, safety and accuracy, the system simplifies complex alignment tasks and delivers major time and cost benefits. With turbine sizes continuing to increase, we expect FAS adoption to expand rapidly.

PES: Finally, stepping back from the technical side, what does it mean to you personally and to your companies to see your work directly supporting offshore wind's role in the energy transition?

AvN: The wind energy sector represents both a challenge and an opportunity. It's an industry driven by innovation, and we're proud to contribute to that transformation.

By embracing new developments, we not only support a sustainable energy future but also strengthen our leadership in the field. At DHLC and AnMa-TECH, staying ahead means continuously improving, adapting and delivering solutions that meet the evolving demands of this dynamic market.

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