

## Media Release

Voith Group

Mailing address:  
Voith GmbH & Co. KGaA  
Group Communications  
St. Poeltener Str. 43  
89522 Heidenheim, Germany  
Tel. +49 7321 37-8303  
Fax +49 7321 37-7110  
[www.voith.com](http://www.voith.com)

### **Voith delivers innovative electric Voith Schneider Propeller to Norwegian shipping company Østensjø**

2020-06-30

- Voith receives order for eight electric VSP for four new offshore service vessels of the Norwegian shipping company Østensjø
- Accurate dynamic positioning (DP) and highest maneuvering performance were the decisive factors
- The new, all-electric Voith Schneider Propeller supports the shipping company in achieving its emission targets

**HEIDENHEIM/HAUGESUND.** Voith will deliver eight electric Voith Schneider Propellers (eVSP) to the Norwegian shipping company Østensjø, thus enabling resource-saving and energy-efficient operation of the four offshore wind supply vessels. The four ships will be built in Spain and are already equipped for the application of CO<sub>2</sub>-neutral hydrogen technology. Among the advantages of the new eVSP are, in particular, the high efficiency and reduction of complexity, as the permanent-magnet synchronous motor is already integrated in the propeller.

Furthermore, the best possible maneuvering performance is a decisive factor for use in the offshore wind industry. Accurate dynamic positioning (DP) even under harsh environmental conditions, very fast starting and leaving of the wind turbines, and a safe and quick transfer in the offshore wind farm are critical factors for smooth operation.

Comparative calculations have shown that a VSP-driven ship can maneuver safely at significantly higher wave heights, thus offering the operator an economic advantage. Due to the very fast and accurate thrust adjustment, the VSP can reduce the rolling motions of the ship by up to 70 percent, both when the ship is moving and when it is stationary at the wind turbine.

The electric Voith Schneider Propellers are also characterized by very high efficiency and are optimally integrated into the ship's design. In model tests with ducted screw propellers, an average advantage of 15 percent for the

eVSP was measured with regard to power requirements in transit. The electric version of the VSP is also characterized by lower fuel consumption in dynamic positioning because it acts very quickly against disturbing wind, wave and flow forces.

### **Resource-saving new development**

The eVSP is a new development of the Voith technology group. With this new type of gearless propeller, the permanent-magnet synchronous motor is directly integrated into the VSP. The drive system combines the technology of the VSP with more than a decade of electrical know-how of the Voith Inline Thruster (VIT).

The advantages of the eVSP are easy to recognize: An increase in efficiency due to the elimination of gears and the reduction of bearing points, as well as a very high motor efficiency, also in the partial load range, which is particularly relevant in the offshore sector. In addition, no separate electric motor is required and shaft lines are also eliminated.

### **About the Voith Group**

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, oil & gas, paper, raw materials and transport & automotive. Founded in 1867, the company today has more than 19,000 employees, sales of € 4.3 billion and locations in over 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

The Group Division Voith Turbo is part of the Voith Group and a specialist for intelligent drive technology, systems as well as tailor-made services. With its innovative and smart products, Voith offers highest efficiency and reliability. Customers from highly diverse industries such as oil and gas, energy, mining and mechanical engineering, ship technology, rail and commercial vehicles rely on the advanced technologies and digital applications of Voith.

Voith Group

Mailing address:  
Voith GmbH & Co. KGaA  
Group Communications  
St. Poeltener Str. 43  
89522 Heidenheim, Germany  
Tel. +49 7321 37-8303  
Fax +49 7321 37-7110  
[www.voith.com](http://www.voith.com)



The new electric Voith Schneider Propeller will be delivered for four offshore supply vessels of the Norwegian shipping company Østensjø.

Voith Group

Mailing address:  
Voith GmbH & Co. KGaA  
Group Communications  
St. Poeltener Str. 43  
89522 Heidenheim, Germany  
Tel. +49 7321 37-8303  
Fax +49 7321 37-7110  
[www.voith.com](http://www.voith.com)

page 3 of 3

## Contact

Robin Wankerl  
Group Communications  
Voith GmbH & Co. KGaA  
Tel. +49 7321 37-8303  
[robin.wankerl@voith.com](mailto:robin.wankerl@voith.com)

### Twitter

<https://twitter.com/voithgroup>  
[https://twitter.com/voith\\_hydro](https://twitter.com/voith_hydro)  
[https://twitter.com/voith\\_paper](https://twitter.com/voith_paper)  
[https://twitter.com/voith\\_turbo](https://twitter.com/voith_turbo)  
[https://twitter.com/Voith\\_Digital](https://twitter.com/Voith_Digital)  
[https://twitter.com/Voith\\_Career](https://twitter.com/Voith_Career)

### LinkedIn

<https://www.linkedin.com/company/voithgroup>  
<https://www.linkedin.com/company/voith-hydro>  
<https://www.linkedin.com/company/voith-turbo>  
<https://www.linkedin.com/company/voith-paper>  
<https://www.linkedin.com/company/voith-digital>  
<https://www.linkedin.com/company/voith-robotics>

### YouTube

<https://www.youtube.com/VoithGroup>

### Instagram

<https://www.instagram.com/voithgroup/>