

# Editor's note

In the pursuit of a cleaner and sustainable future, the demand for renewable energy, particularly from wind power, has witnessed remarkable growth over the years. As the sector continues to thrive, companies strive to innovate and provide improved solutions for the erection, assembly, and maintenance of onshore and offshore wind turbines. It is our pleasure to bring you news, views and insight from many of the leading names in the industry within the following pages of this issue of PES.

The use and usefulness of AI in data gathering and analysis to reduce uncertainties and enhance project development decisions; new machining solutions for cost-effective monopile production; and custom seals for main bearings are just three of the many innovations we take a look at.

A fast-growing sector such as ours is inevitably going to be faced with challenges and one that is causing immediate concern is the increase in the levelized cost of electricity (LCoE). Of course, many factors are outside of the control of the industry, but many others, such as unplanned O&M costs, optimisation of lifetime and performance can be controlled to help bring down the LCoE. This is just one of many important and topical issues covered by PES in this issue, helping our readers stay informed.

This all comes against a backdrop of a climate in crisis of course, with evidence of global warming through record-breaking heat waves, devastating floods, and rampaging wildfires all around us. Such extreme weather events are not only impacting the way we live our lives, as the world moves towards net zero, but they also affect how we source our energy. Turbines are subject to all weathers of course, so measuring conditions, being able to make accurate predictions, and putting plans in place to guard against the elements has never been more important. Too little wind is not good for energy production, naturally, but too much can be bad news too, and then there's lightning to contend with, not to mention the icy conditions of winter. As the turbines and the blades grow taller, weather monitoring becomes an ever-more important issue and something that we think it's timely to talk to the experts about.

This and many other topics will be the focus of Husum Wind this September and PES takes a look at what visitors to this important exhibition for the sector can expect from their time in Germany. In the first six months of the year, 331 wind turbines with a cumulative capacity of 1,565 megawatts (MW) have already been installed on the German mainland, so the location could not be more apt. Over 600 exhibitors will showcase product innovations and cutting-edge technologies for onshore and offshore wind and the renewable energy sector as a whole, making this a critical event on the industry's calendar for networking and staying informed. We look forward to seeing you there!

*Elaine Perrigot*

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Editor



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