

Floatgen achieves a total of 6 GWh of power production in 2019

Following very encouraging initial results communicated last July, the 2 MW Floatgen floating wind turbine, equipped with Ideol's patented floating foundation and installed on the Sem-Rev test site (Atlantic Coast of France), exceeded production and availability expectations in the second half of 2019.

During the second half of 2019, the floating wind turbine has more than doubled its power production in comparison with the first semester, to reach an annual total of 6 GWh. This number was achieved because of a time availability exceeding 94.6% in the second semester and an above average capacity factor.

During that same period, the wind turbine faced maximum wave heights of up to 12.5 meters (= significant waves of up to 6.5 meters), confirming the excellent performance and seakeeping of the Damping Pool® design, as well as the accuracy of integrated floating wind turbine simulations developed by Ideol's in-house experts.

Such accuracy has been verified and validated by an independent third party (American Bureau of Shipping a.k.a. ABS) reviewing the load and movement measurements as well as the data processing methods used by Ideol. ABS also evaluated the fully coupled simulation tools used by Ideol, independently re-running a number of load cases and comparing the simulation results with the observed and processed measurements.

The wind turbine remained fully operational throughout these first winter months, producing power up to 5.5 meters of significant wave height and up to 24.2 m/s of wind speed, once again confirming the absence of the impact of the movements induced by the floater on the power production.

Ideol's patented technology is now fully proven and ready for commercial deployment, even in severe environments, wherever they may be in the world.

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 *Ideol, based in La Ciotat (France), was created in 2010 with the aim of developing both technically and economically viable floating foundation solutions for the offshore wind industry. Recipient of numerous innovation and entrepreneurship awards, the company benefits from the support of a large and prestigious panel of public and private investors. Its industry-changing and patented “Damping Pool”[®] design is compatible with all existing offshore wind turbines. Maximizing local content and optimizing the entire process from construction to installation, maintenance and decommissioning have been the company’s key priorities since day one. Its particularly cost-competitive solution allows for the development of projects without any water depth or soil constraints on sites benefiting from the best available wind resources. Benefiting from the experience and know-how of a fully integrated team of 60 experts and engineers coming from the offshore oil & gas and renewables industries, the company has two floating wind turbines in operation (one in France, off Le Croisic, and one in Japan, off Kitakyushu). Ideol is also involved in the French Mediterranean’s first floating offshore wind farm (the [EOLMED](#) project) as well as several other floating projects across the world, positioning the company as a leader in this fast-growing and accelerating market.*