# New generation wind turbine

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Eight Amazing Next-Gen Wind Turbine Designs

The first is to erect turbines with bigger rotors and blades to cover a wider area, which increases the capacity of the turbine, and the second is to increase the tip height higher into the sky where the wind blows...

Wind"s share in the renewable energy sector has grown from 19% in 2018 to 23% in 2019 as next-generation technologies are augmenting both efficiency and reliability. In recent years, wind turbines in particular have...

ZF Wind Power enhances the flexibility of SHIFT"s modular design. Exchanging building blocks increases the capacity of the platform, leveraging the platform"s proven basis of 50 GW.The partners" choices define the configuration of SHIFT. Whether it is to design capacity factor driven turbines with higher capacity factors, address capex-oriented markets and/or build a turbine suitable for tonality-sensitive environments.ZF kicks off the new generation SHIFT with the introduction of the new generation SHIFT 4k. The model has recently been selected by wind turbine OEMs to build new generation products that appeal to multiple markets and regions, incl. the United States of America, India and newly developing wind markets.

Lommel, Belgium. ZF Wind Power enhances the flexibility of SHIFT"s modular design, boosting its competitiveness. By implementing new validated technologies and know-how, the proven basis of existing platforms enables more powerful and cost-efficient modular concept developments. SHIFT now offers more powerful, cost-efficient, and compact modular configurations. These platform upgrades ensure the platform meets the dynamic demands of the wind market, providing versatile solutions for various wind turbines.

Launched nearly nine years ago, ZF Wind Power"s SHIFT modular gearbox concept enhanced turbine design flexibility, reduced time-to-market, and cut costs. Currently, with almost 50 GW shipped, SHIFT demonstrates global competitiveness and adaptability across various classes, geographical regions and market segments. Covering onshore and part of the offshore wind segments with four main platform variants, SHIFT"s flexibility and reliability are industry-leading.

SHIFT answers the market dynamics

SHIFT anticipates market evolution by developing powerful, modular platforms that offer high flexibility and performance, helping partners stay competitive in their markets. The new generation SHIFT elevates modularity and adaptability to a new level while covering market versatility:

Tonality-sensitive markets focus on the quality of NVH characteristics of the wind turbine"s performance, such as sound or vibration levels.Capacity factor driven markets prioritize the ability to meet high performance demand maximizing delivery of wind energy, ensuring more robust energy infrastructure and

scalability.Capex-oriented markets emphasize the need for cost-competitive wind infrastructure to achieve lower cost of energy to enhance long-term growth of energy production supporting economic competitiveness.

"Whether the market is tonality-sensitive, capacity factor driven and/or capex-oriented, the new level modularity of SHIFT building blocks and technology offer a flexible choice in components to fit these requirements," explains Felix Henseler, CEO of ZF Wind Power.

SHIFT-ing towards the future by building on the proven basis of the platform

All components benefit from ZF"s expertise and validated designs, guaranteeing high reliability. Leveraging extensive experience and insights from the installed base, the new generation SHIFT has enhanced its modular design for greater flexibility and competitiveness while maintaining its core characteristics of high performance, reliability and cost-competitiveness.

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