A new wind is blowing through the energy system – digitalisation. Over the past decade, mature heavy industries have experienced a digital revolution, and the wind energy sector is no exception.

Enhanced sensor data collection and high-quality data exchanges between wind operators and the surrounding energy ecosystem are growing significantly. Making use of this data will unlock new horizons of productivity and allow the industry to fully realise its enormous potential.

Over the past decade, most mature heavy industries have experienced a digital revolution, and the wind energy sector is no exception. Cross-sectoral synergies will facilitate the integration of wind in the electricity system.

### Sector coupling
Innovative digital technologies will also improve turbine yields and productivity while driving down costs in design, operations and maintenance, thereby reducing the cost of energy. Digitalisation is going to make a valuable contribution to wind energy at a crucial time for renewables. As the ongoing energy transition moves on, the capacity to distribute power generation and new data-related challenges are emerging. Constructed around renewables, and with a higher penetration rate of variable power generation, this new distribution-based energy system will rely heavily on innovative digital solutions for increased connectivity and interactivity between the various actors. Integrating variable renewable energy is critical to ensuring a stable system abundant with clean and affordable energy, and digitalisation is essential to this process.

Digitalisation will create new economic opportunities for wind operators, increasing the value of every single MWh produced. Innovative digital technologies will also improve turbine yields and productivity while driving down costs in design, operations and maintenance, thereby reducing the cost of energy. Digitalisation is going to make a valuable contribution to wind energy at a crucial time for renewables. As the ongoing energy transition moves on, the capacity to distribute power generation and new data-related challenges are emerging.

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