

RENEWABLES POWER BENCHMARKING

DNV's global renewables benchmarking service provides key insights, enabling you to extract more value from your assets.

OUR SERVICES



Do you know how well your wind generation assets or components are performing? You might have established a baseline, but to get a true measure of competitiveness, you need to make a comparison with the rest of the industry. So, what metrics do you use? What are the industry averages for reliability, availability and performance? How do you assure your stakeholders that your numbers are accurate and objective?

Setting the standard

By leveraging our involvement with a significant proportion of global renewable projects, we have compiled unparalleled benchmarking data sets. Metrics include wind farm availability, performance and reliability statistics from over 1000 projects and counting. All major turbine manufacturers are represented.

Compare your wind asset performance against the industry

For wind project owners, operators, developers and lenders who need to define realistic performance targets, evaluate operating strategies and understand the likelihood of different performance or reliability scenarios, this service presents project statistics relative to the industry for convenient comparison and data-based decision making.

Through our comparative analysis, you gain confidence in your understanding of how you perform against the industry. Our benchmarking service helps you to target issues, optimize performance, and set realistic goals that are specific to the characteristics of your wind farm.

Online web portal and bespoke analysis

Subscribe to our interactive online benchmarking portal to quickly view the latest reliability, availability and performance industry statistics, as well as apply custom filters to interrogate by geographic region, turbine rating and other parameters.

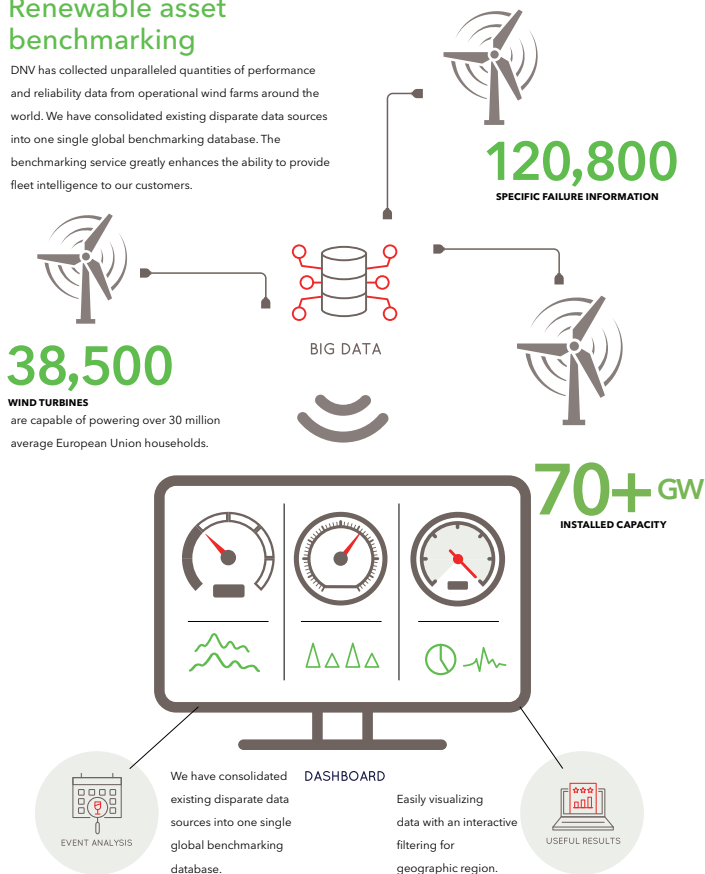
For more customized comparisons or advice on improving wind farm performance, DNV provides bespoke analysis that leverages the benchmarking data set as well as our broad experience in asset optimization.

Better operation through excellence

DNV has been recognized as the world's leading independent technical authority in wind power generation for three decades. Through our benchmarking services, you gain access to our expertise, plus our considerable experience in analysing data, producing metrics, and leveraging the power of benchmarking.

Renewable asset benchmarking

DNV has collected unparalleled quantities of performance and reliability data from operational wind farms around the world. We have consolidated existing disparate data sources into one single global benchmarking database. The benchmarking service greatly enhances the ability to provide fleet intelligence to our customers.



Case studies

RELIABILITY BENCHMARKING FOR PITCH SYSTEM

Customer: Moog Industrial

Challenge: Customer wished to demonstrate the benefits of their advanced design.

Approach: Customer data was measured against DNV's reliability benchmark data of wind turbine pitch systems. DNV used the results in a cost of energy analysis for different reliability scenarios.

Value to customer: Enhanced business case by using DNV's independent analysis to quantify economic benefit of increased pitch system reliability.

AVAILABILITY BENCHMARKING

Customer: Owner/operator with around 1 GW wind turbine fleet

Challenge: Customer wanted to understand whether project performance was optimized but was not able to find public information on typical wind farm availability.

Approach: For wind farms with similar turbine rating and project age, DNV compared Customer project availability with its benchmark statistics, including P50, P90, P95, to better quantify Customer wind farm performance.

Value to the Customer: Identification of wind farms with above and below-typical performance, informing realistic performance targets.

RELIABILITY BENCHMARKING FOR MAJOR COMPONENTS

Customer: Two owners with around 15 wind farms each

Challenge: Customers needed assistance to create realistic project budgets.

Approach: As major component failures are key cost drivers, DNV quantified these for the two Customers' fleets and compared them with industry average from DNV's benchmark database for similar turbine rating and project age.

Value to the customer: DNV identified wind farms, technologies, and components with higher failures than typical and made recommendations for realistic budgeting.

CONTACT US

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