

# Blaest

Aalborg Renewables member portrait



Blaest A/S conducts full-scale structural testing of wind turbine blades. Testing the strength and structural integrity of the blades is a mandatory part of the wind turbine type certification process. The blades undergo a standardized test campaign comprising static extreme load tests as well as fatigue testing. Test results are documented in a test report used for the customers' type certification process. Blaest is one of the largest independent blade test centres globally, with the capacity to test six blades in parallel, up to a maximum length of about 120 meters. Operations are managed purely on a commercial basis, without public funding.

## Opportunities and challenges

The green energy transition and the growth in the wind energy sector are expected to bring many new blade types to the market. There will also be an increased focus on product reliability and structural testing. Offshore wind turbines are expected to continue growing in size, requiring longer blades to be tested. Establishing facilities

and test equipment capable of testing such blades poses a challenge. The growth in blade sizes also calls for the development of more advanced test methods and equipment, fitting well with Blaest's strategy and experience.

## Projects and cases

Recently, Blaest completed the construction of a new and advanced test rig capable of testing 120-meter blades. There will be a future need for testing even longer blades, and Blaest intends to meet market demands by launching a business development project to investigate future customer needs and how to meet them effectively.

## Looking to the future

One of the challenges in the wind energy business will be the significant growth required for the green energy transition. Balancing this growth with maintaining focus on quality and product reliability will be crucial. Product validation and testing are cornerstones in that process.

## FACTS

### Activities:

- Conducting structural testing of wind turbine blades
- Providing certification test reports
- Operating as a top global blade test center
- Managing operations commercially

Number of employees: 50

Operating in Denmark

### Primary focus:

- Wind energy

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[www.blaest.com](http://www.blaest.com)

**Blaest**  
BLADE TEST CENTRE



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