

Blade Surface **Protection**

Improve the lifetime of your turbine blades and protect your energy production.

BENEFITS

- Improve the lifetime of your turbine blades
- Re-establish the blades' resistance to weather impact
- Provide a perfectly uniform blade surface
- Reduce risk of blade damage and costly repairs

TURBINE PLATFORMS

All platforms

Turbine blades are exposed to a variety of harsh environmental conditions, which can lead to deterioration of paint and coating systems. This deterioration can lead to structural damage and lost aerodynamic characteristics. Vestas has therefore introduced a refurbishment method that protects the blade's resistance against external influences.

Vestas developed a technique for a refurbishment of blade surfaces with a soft and flexible PUR paint. The blade refurbishment also includes an inspection of the blade surface, laminate and glue assembled edges. The PUR paint is resistant to wear and tear and it protects the blade surface effectively and keeps the surface uniform, thereby improving the lifetime of the blade.

Get in touch with us today

Visit vestas.com or contact your local Vestas service office to get to know more about how blade surface protection and our other service solutions can improve the performance of your turbines.

Protect your blades against the forces of nature to release the **full potential** of your turbines.

TECHNICAL DESCRIPTION

- A flexible PUR paint is applied and serves as surface protection
 - Generally, the outer 10 meters are painted as this area is most exposed to wear and tear
 - The blade refurbishment includes an inspection of the blade surface, laminate, and glue assembled edges for areas of wear and damage
 - The blade is repaired, and edges and unevenness are smoothed with a grinder
 - Before the blade receives a final paint layer, the blade is matted for optimal adhesion
-



After the blades are painted, the edges are smoothed with a paint brush