



# UPGRADES MADE BY NORDEX

## XTENDED LIFETIME

### Lifetime extension of your wind turbine after 20 years of operation

➤ Wind turbines have a design life of 20 years. However, depending on the location, wind load and turbine condition, they can also be operated many years beyond that. These investments generate extra yield with comparatively low expenses – especially if repowering is not possible but the location is still attractive.



# XTENDED LIFETIME

## ► Your benefit: the all-in-one solution with manufacturer know-how

The Xtended Lifetime product package ensures the lifetime extension of your turbine beyond its 20th year of operation. With our know-how as manufacturer you profit from the yield that comes from your turbine's additional years of operation.

## All-around performance: analytical assessment and on-site inspection with final expert's report

For the lifetime extension of your turbine, a proof of structural stability and operational strength is required. With our new Xtended Lifetime product package we offer you an all-in-one solution.

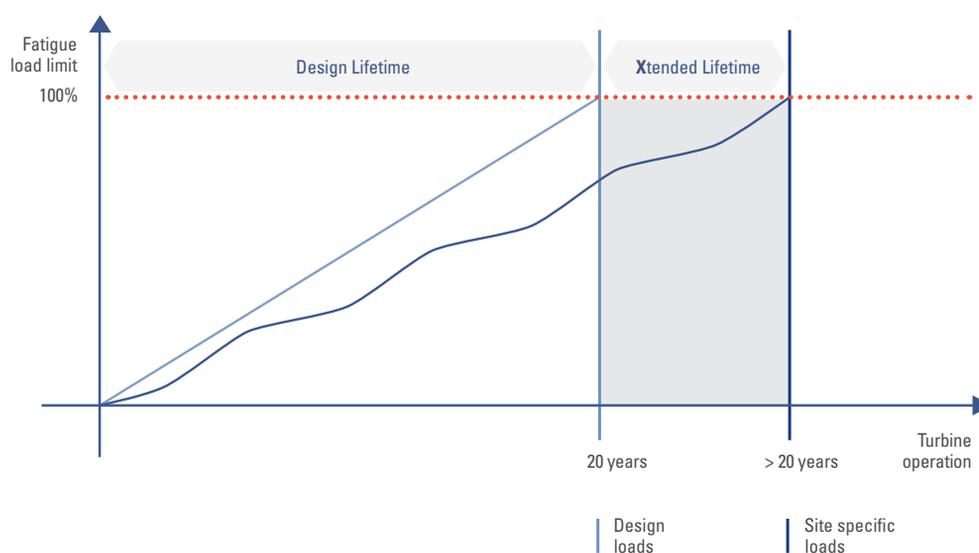
Assessment for the lifetime extension of your wind turbine is carried out in two steps. First, a TÜV expert conducts an on-site, visual inspection of your turbine – including the rotor blades – and assesses its current condition. In the second step, an analytical calculation that determines the future operating potential of the turbine is carried out. For this purpose, the site-specific load impact

of your turbine is calculated and compared with the design loads for that turbine type. The more detailed the database is over the actual load impact and the original wind turbine design, the more accurate the operating time can be calculated. As manufacturer of your turbine, we have all relevant data from the past years, from design drawings to type testing, load model and SCADA data.

In addition to assessing your turbine, we also support you in implementing the measures or requirements needed for lifetime extension. Finally, you will receive an expert opinion for submission to the responsible authorities, if required.

## Fast, efficient solution: seamless contractual transition

For a reliable continued operation of your turbine, we offer you the possibility of agreeing on a service contract beyond the 20th year of operation. This way we ensure your turbine's further planning security and additional annual energy yield.



► We are happy to provide you with an offer for the product package Xtended Lifetime. Please contact us.