

Assess your Investment for Climate Risks

Do you know how secure your wind farm's returns will be over the next 20-30 years?

! The challenge

Climate change is altering wind conditions and thus the profitability of your wind farm. Without this analysis, you may want to consider investing on the basis of incomplete assumptions.

+ The solution

GEO-NET provides you with reliable energy yield forecasts for three climate scenarios – from a free initial check to a bankable detailed analysis. We offer concrete figures instead of uncertainty. Example: For a 50 MW wind farm, even small changes in wind speed over 25 years can mean yield deviations in the millions.

+ Our analysis shows you:

- + **Worst-Case-Szenario:** How much could the yield drop in the worst-case scenario?
- + **Most likely scenario:** What yields can you realistically plan for?
- + **Best-case scenario:** What is the potential in the best-case scenario?

Your path to a climate-proof yield forecast

Free climate check (WebGIS)

Step
1

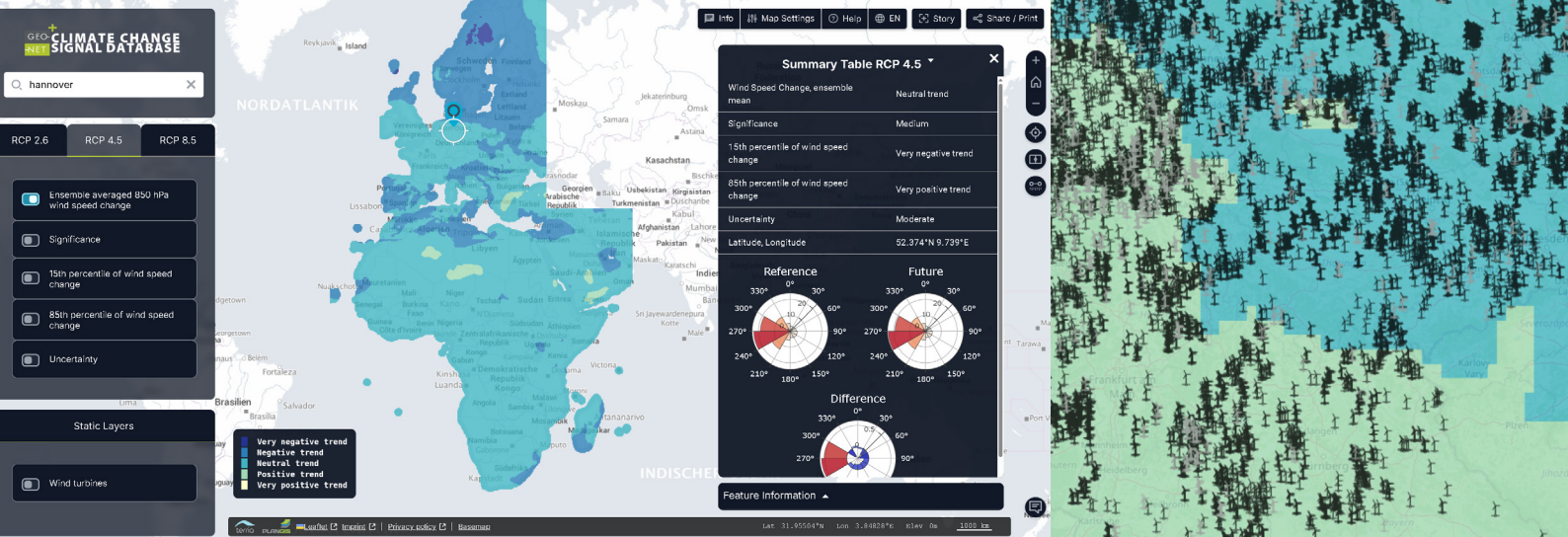
The ideal first step in project development

- + Within 48 hours, you will know how climate change will affect the location of your wind farm
- + Immediate overview: How is the wind changing at your location?
- + Available throughout Europe and Africa, no cost, no obligations

Bankable yield forecast (FITNAH-3D)

Step
2

- + Quantification of climate risk for financing and due diligence
 - + Integration of climate data into our proven CFD model FITNAH-3D
 - + Site-specific calculation: yield forecast in kWh
 - + Available worldwide as a special report or as part of your wind assessment
 - + Consideration of local conditions (topography, land use changes)
- > Meets the requirements of banks, investors and the German Wind Energy Association for community wind farm projects.



We analyse three scientifically recognised future scenarios (CORDEX initiative):

Ambitious climate protection scenario (RCP 2.6)

- + „Paris agreement will be achieved“
- + Global warming is limited to below 2°C
- + Moderate changes in wind conditions expected
- + For your planning: Minimal deviation from current yield forecasts

Moderate scenario (RCP 4.5)

- + „Business as usual with climate protection“
- + Warming of approx. 2-3°C by 2100
- + Moderate changes in wind conditions
- + For your planning: Most likely scenario based on current policy. Safety margins for higher volatility must be factored in here.

High emissions scenario (RCP 8.5)

- + „Unchecked climate change“
- + Warming of over 4°C by 2100
- + Most significant changes in atmospheric circulation
- + For your planning: Worst-case scenario for risk analysis

Our result: You receive concrete yield figures with uncertainty ranges for all three scenarios, providing a foundation for sound investment decisions.

Your concrete added value

For project developers

- + Realistic profitability calculation over the entire operating time
- + Early identification of location risks
- + Compliance with the BWE standard for citizen participation

For investors and financiers

- + Quantification of climate risk in your portfolio
- + Bankable documentation for due diligence
- + Protection against long-term loss of income

For operators

- + Basis for insurance and provisions
- + Optimisation of maintenance and repowering strategies

Get started now – free of charge and without obligation

- ➔ Request your free WebGIS climate check
- ➔ Arrange an individual consultation

➔ wind@geo-net.de

Why GEO-NET is the right partner

- + 25+ years of experience in wind and yield assessments
- + Assessment of wind conditions for thousands of wind turbines installed in Germany and worldwide
- + Recognised expert in wind energy
- + Innovative through research and development
- + Own CFD model FITNAH-3D, continuously validated
- + Use of the CORDEX climate database (EU standard)
- + Integration into existing wind assessment processes
- + Direct contactability during discussions with banks and investors