

# Wind Anomalies 2014 UK and Ireland

## **CONTEXT :**

How much did your windfarm produce last year ? How much can be explained by wind resource inter-annual variability ?

Year to year variability of wind resource is a main driver of uncertainty at pre-construction stage. Once windfarm is in operation, monitoring wind conditions departures from climatology (anomalies) provides the context for windfarm performance assessments.

This report aims to provide a regional outlook to 2014 annual wind speed climate variability for **UK and Ireland**.

All information employed in this analysis were derived from a cutting-edge atmospheric modeling technology based on zooming global Reanalysis up to different relevant scales for wind industry applications.

## **DATA:**

This report shows 2014 annual wind speed anomalies for UK and Ireland computed with reference to the baseline 1985-2014 climatology period.

Annual wind speed time series at 100 m a.g.l. were obtained by downscaling global Reanalysis data up to a final effective resolution of 9 km. Anomalies fields were computed as percentage of deviation from climatology.

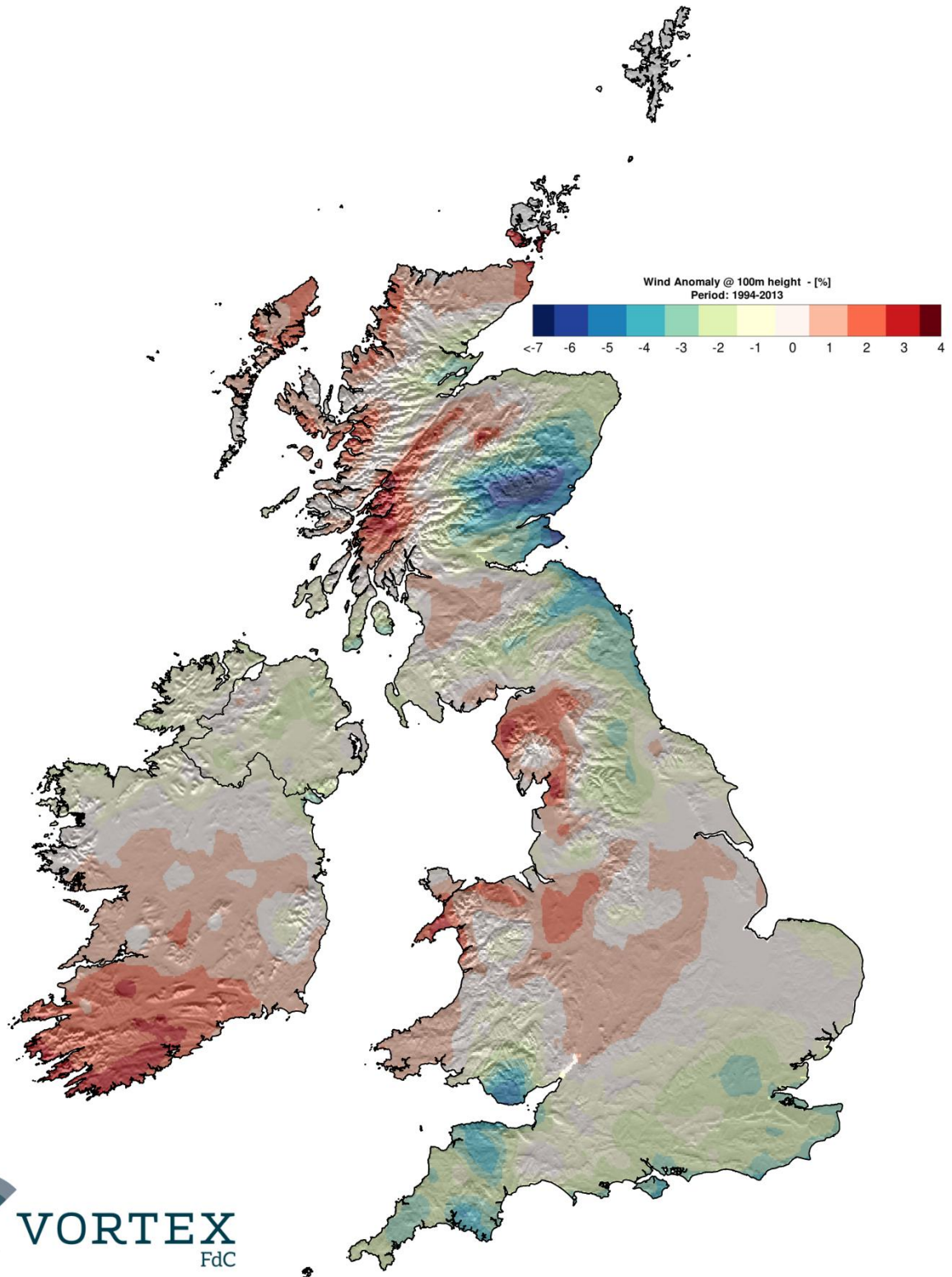
## **LIMITATIONS:**

The final anomalies map provides general indications about the annual wind conditions departures at a regional scale. No site-specific variability impact information can be extracted due to the model resolution.

Higher resolution downscaled products are required in combination with bias correction technique, like Vortex Remodeling, to obtain an accurate characterization of wind conditions anomalies values for wind farm project scale.

# United Kingdom & Ireland

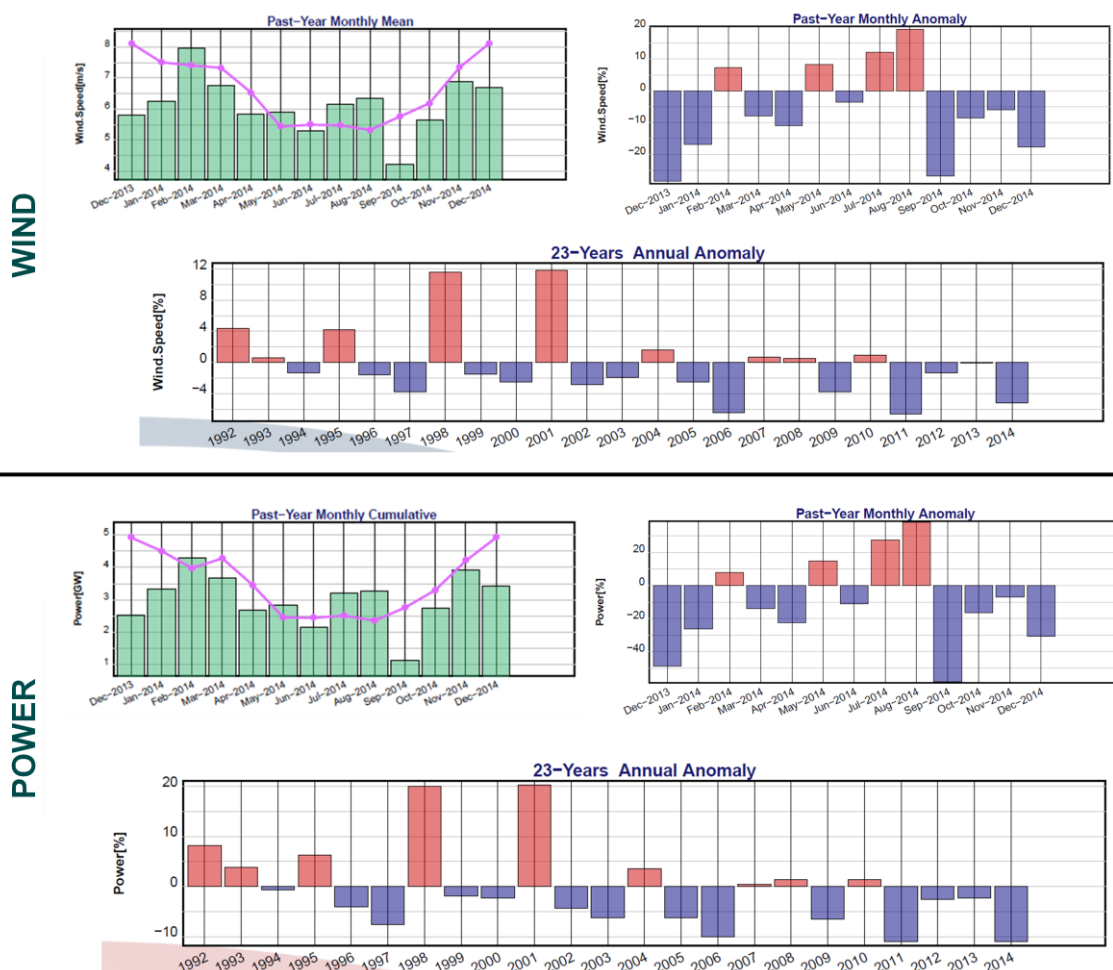
## Wind Anomaly Map – 2014



## VORTEX MONTHLY INSIGHT:

Monthly Insight is an enhanced tools to derive a site-specific anomalies impact studies for any given location including wind and power production statistics. In-site measurements can be assimilated for effective bias correction and calibration procedure using Vortex Remodeling technology.

Some samples of the information provided by site-specific Insight Monthly reports are showed below. Feel free to contact us in order to obtain further information about INSIGHT features and capabilities.



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