



# InSight Wind Farm Monitoring Services

Analyse, Identify, Predict and Respond - for Offshore & Onshore Turbines

Outsource the monitoring of your wind farms to Romax to reduce risk and benefit from the most effective and technically advanced services available. Keep more turbines running more of the time by partnering with an independent provider with a leading track record: we currently monitor over 40% of the UK's offshore wind turbines and over 2 GW globally.

## The proven low cost alternative to in-house monitoring

All wind farms with Condition Monitoring Systems (CMS) require expert monitoring in some shape or form – so why not leave it to the experts in a way that enables you to measurably reduce O&M costs while retaining complete control and visibility? Romax has the solution. Currently monitoring hundreds of turbines for clients globally, we are acknowledged experts in detecting faults and interpreting failure modes, offering unique technology for predictive maintenance and dealing with 'Big Data'.

These services enable Operators, Asset Managers, O&M Managers, Site Management and Analysis teams to focus on more strategic value-added activity - with an assurance that monitoring, reports and alerts are in safe hands.

## Why InSight?

Wind farm operators continue to experience unnecessary gearbox, main bearing and generator failures. This situation demands far better detection and faster reporting of problems at an earlier stage so preventative action can be taken sooner. Maintenance needs to be planned and executed in more timely and cost-effective ways to minimise disruption to generation and avoid potential losses. Vastly improved visibility of faults and longer maintenance lead times mean you can plan more effectively - essential in offshore operations, for example, where expensive large vessels and cranes may be required.

## Our services help you to maintain and operate your wind farms more efficiently.

- For offshore and onshore sites
- The most technically advanced approaches, with personnel and resources it would be difficult and costly to match in-house
- Expertise in multiple turbine types and diverse CMS and SCADA systems
- Services include vibration and SCADA monitoring, lubrication analysis, predictive models and health assessments using inspection and maintenance data
- A trusted partner: we are 100% independent of OEMs and wind farm operators

*InSight customers include Centrica, Infigen and E.ON. On any given day, our systems and experts monitor over 2 GW of turbines globally, OEMs covered include Vestas, Siemens, GE, RePower, Gamesa, Clipper and Mitsubishi, and we work with CMS hardware from Gram & Juhl, SKF, Bruel & Kjaer, and others.*

# How Romax can help

Better predict downtime and identify faults to improve maintenance planning, O&M budgeting and ongoing power generation.

## Out-of-warranty sites

The options are to monitor in-house or outsource. Hiring experienced personnel can be time-consuming, costly and difficult. By contrast, the breadth of our knowledge, experience and economies of scale mean Romax can deliver superior monitoring at lower cost than you could provision in-house.

We work with operators to develop their own roadmap for self-sufficiency, helping them build their capabilities and plan for a time when they can take monitoring in-house using Romax's InSight software.

## Site under warranty

These wind farms require a robust strategy for future out-of-warranty operations. To gather data and build understanding of turbines, many operators choose to monitor sites in parallel with their OEM – and many engage Romax to perform this in-warranty monitoring. We enable a seamless transition to post-warranty monitoring and ensure you have all the information you need before the end of warranty handover.

## About Romax and InSight

A world-class engineering technology and services company, we have a deep understanding of the design and operations of wind turbines. This specialism and hands-on experience underpins our InSight software, services and personnel. Known globally for software simulation tools and consulting expertise, we have proven abilities to predict potential issues, understand failure modes, reveal root causes and recommend remedial action and proactive improvements.

With 250 employees serving 300 customers worldwide, we are based in Nottingham, UK and operate 12 offices in Europe, the USA, Korea, Japan, China and India. We also engage in collaborative R&D programmes with the world's leading turbine manufacturers and operators.

We offer fixed-term contracts underpinned by powerful InSight monitoring software, managed globally from the InSight Monitoring Centre in Nottingham, UK

- Continuous monitoring services
- Condition monitoring hardware and InSight software
- Health monitoring and alarm setting using SCADA and vibration data
- Lubrication analysis for gearbox and main bearings
- Predictive life modelling
- Failure root cause investigation
- Reliability assessment using inspection and maintenance data
- Turbine health assessments: one-off, annual or quarterly
- Low cost monitoring using portable equipment and InSight software
- Expert interpretation of faults and recommendations for next steps



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