AILSA RELIABILITY SOLUTIONS LTD.

ABOUT US:

Ailsa Reliability Solutions Ltd are an independent organization, specialising in solutions to improve customers reliability and availability of their plant and assets, using the latest condition monitoring equipment and technology available on the market.

With over 20 years' experience in supporting customers, with various services, across a multitude of industry sectors, we know how crucial uptime of process related equipment is to any organisation.

At Ailsa we can test, monitor, analyse, report, and recommend solutions to critical items of mechanical and electrical plant to assure our customers of maximum uptime and availability and reduce costly downtime and unplanned outages, thus increasing customer productivity and profitability.

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CASE STUDY:

UPTOWER WIND TURBINE GEARBOX INSPECTION

The Challenge:

Our clients was getting information from their CMS system advising that an issue was present with the gearbox within one of their turbines.
(This gearbox has been inspected twice before by another company with no problems identified)

The Solution:

The client asked ARSL if we could support with a borescope inspection of the gearbox to see if we could identify any issues that could be present.

We mobilized one of our engineers who is fully GWO certified and competent at doing borescope inspections. After a full day in the Nacelle, we found a crack in one of the planetary gear sections as can be seen in the photo above.

This crack would definitely lead to a failure of the gearbox! If this happens the cost of downtime would be significant as it would take weeks to get the replacement planned in and a new gearbox into the Nacelle.

The Value:

The customer managed to plan in the replacement of this gearbox rather than having a catastrophic failure.

Catching this issue early has saved the client over £280,000 in lost revenue and approx. 1,800 MWh of green energy production.