



## Proactive Monitoring for healthy wind farms

we strive for 100% availability

Proactive Monitoring watches the performance of your wind farm 24/7.

We highlight mechanical problems to enable maintenance before faults impact on revenue.

We then schedule maintenance during low wind to ensure your turbines are in optimal condition for maximising profit.

We achieve excellent availability on the wind farms we operate and significantly exceed the 97% industry average.

Our commitment is to provide you with

- Maximum revenue
- Reduced running costs
- Maximised resale value

Proactive Monitoring

- Monitor performance metrics
- Fault prediction
- Proactive maintenance schedule
- Repair at low wind
- Increase availability
- Boost profits



Wind Prospect's Track Record includes

- Worldwide development pipeline 3.3GW
- 100 wind farm construction projects
- Operating 20 projects totalling 232MW

The availability achieved on wind farms we operate reaches 99.7%



Turbines often fail in high winds when they are at their most productive; downtime then has a disproportionate impact on revenue

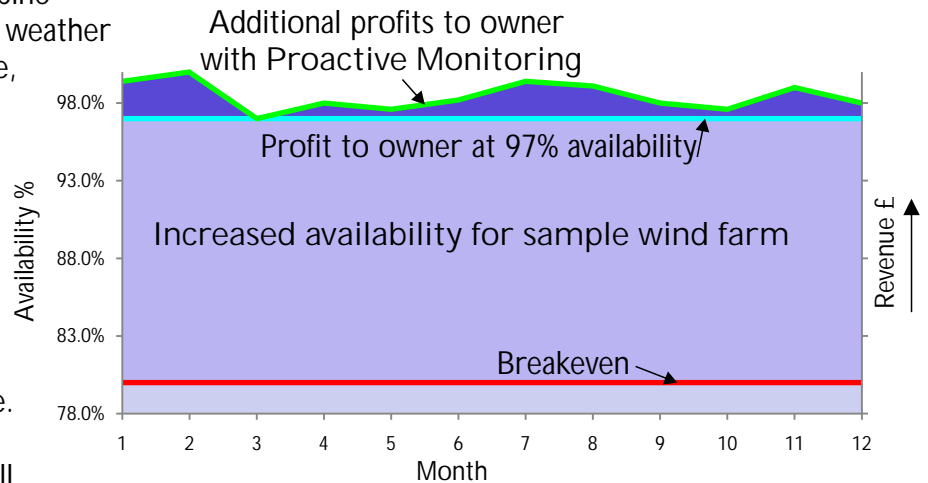
## What is Proactive Monitoring?

Proactive monitoring is a systemised comparative and historical analysis of all available turbine operating data including the errors logs, weather conditions, oil pressure and temperature, services and repairs record.

It will identify trends in the data that could provide a warning of potential turbine component failures, thereby enabling proactive maintenance to be carried out under weather management and safely maximise the asset's performance and long-term value.

With today's larger wind turbines a small increase in availability means a big increase in earnings. Since costs remain fairly fixed, any increase in availability has a larger positive percentage impact on profit.

If for example costs are 80% of revenue (profit 20%), then a 2% increase in availability translates to a 10% increase in profits.



When £100K of electricity is produced £80K pays fixed costs leaving £20K profit. An increase in availability of 2% will generate £102K at the same cost giving £22K profit. In this scenario a 2% increase in availability gives a 10% increase in profit.

### Typical wind farm - saving £10,000

Our 24/7 proactive monitoring centre witnessed an increased hydraulic oil temperature on turbine number 5 of wind farm. They reported back to the technical team and the owners. Two days later during a scheduled visit under low wind, a damaged 'O' ring was replaced and the hydraulic oil topped up. This preventative action saved the system from major damage.

Proactive Monitoring ensured that virtually no power production was lost. Had the fault not been rectified so efficiently, the turbine could have been out of action for up to one month, with lost profits of £10,000.

### Remote reset - saving £900

A 2MW turbine operating at full capacity provides £90 per hr @ £45/MWh.

With Proactive Monitoring if a turbine goes down it can be reset and continue generating revenue.

Without Proactive Monitoring if a turbine faults at 9pm until 7am then £900 of revenue is lost.

## Increase availability. Boost profits.

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