

## **Wind farms and airports can now coexist following the release of innovative radar technology by Cyrrus Ltd**

Bishop's Stortford, UK, Tuesday 4<sup>th</sup> May 2010

**Air traffic control officers (ATCOs) can now 'see' through the radar-clutter caused by wind turbines and receive improved aircraft detection in areas of poor local coverage, following the release of the Radar Video Signal Enhancer (RVSE) by Cyrrus Ltd. A solution influenced by ATCOs and designed by engineers, the RVSE is a cost-effective enhancement to current systems that will enable wind farm developments that were previously blocked on safety grounds to co-exist with aviation facilities.**

An estimated 30% of the UK's electricity is forecast to come from wind energy, but planning consent for many onshore wind farm developments within line of sight of primary radars is being delayed or blocked. Typically, this results from aviation objections highlighting concerns about the impact on local aviation safety caused by the effect wind turbines have on radar performance.

But now the radar clutter caused by multiple wind turbines will become a thing of the past. Cyrrus Technical Director, Richard Ingless says, "We have designed a simple technical solution to integrate with existing air traffic management systems and meet the operational requirements of ATCOs in a cost-effective way. The RVSE provides operators with the usual 'radar video' presentation of aircraft tracks in the airspace over wind farms, leaving the display free of the clutter generated by the wind turbines."

So, how does it work? Richard explains, "The RVSE takes data from another infill radar unaffected by the wind farm and converts it into synthetic video for overlay onto the controller's display. If they wish, operators can still see the signal from their on-site primary approach radar within the in-fill area via an interface unit which permits adjustment to the display to suit their needs and the data available."

According to Richard, the RVSE is a simple, common-sense product solution designed by the Cyrrus team, who have first-hand experience of air traffic management requirements. He says, "We examined the problem from the operator's perspective, and not from an engineering viewpoint pre-disposed towards sophisticated and expensive processing techniques. The RVSE, which requires no major upgrades or additional training, vastly supersedes current industry solutions that attempt to hide the signal from the turbines and use complex algorithms."

As the pace of renewable energy development increases, resulting in an increasing number of wind farm proposals that have the potential for conflict with existing and planned aviation facilities, the Cyrrus RVSE presents an outstanding solution that enables some wind energy and aviation sectors to co-exist in harmony.

**- END OF PRESS RELEASE -**

**NOTES TO EDITORS****About Cyrrus Limited**

Cyrrus provides innovative solutions to aviation and renewable energy challenges that demand engineering expertise and project management excellence. Cyrrus provides expert advice on single issues or a complete end-to-end project-managed solution. Its skilled and experienced team includes air traffic control officers (ATCOs), engineers and designers, supported by hard-to-source skills via the group's trusted partner network. Services include:

- Advice on the effects of wind energy development on CNS/ATM
- Air Traffic Management (ATM)
- Air Traffic Control Communication, Navigation & Surveillance (ATC CNS)
- System Engineering and Design
- Technical Safeguarding and Simulation
- ICAO PANS-OPS Instrument Flight Procedure Design
- Regulatory and Technical advice on CNS/ATM
- Due diligence and audit of airport CNS and ATM
- ATM Safety Management Systems
- Airport Certification and Regulation of Airports and ATM facilities
- Airspace Design and Development
- ATM Project Management

**Product Launch Event Details**

**Event:** Aviation RVSE Launch Event  
**Date:** Wednesday 12<sup>th</sup> May 2010  
**Time:** 12:30 - 17:00  
**Location:** [Marriott Hotel](#) in Norwich, UK - [Location Details](#)

**Event:** Wind Energy RVSE Launch Event  
**Date:** Thursday 13<sup>th</sup> May 2010  
**Time:** 09:30 - 12:45  
**Location:** [Marriott Hotel](#) in Norwich, UK - [Location Details](#)

**If you require more information on these events or you wish to attend please email [amradforth@cyrrus.co.uk](mailto:amradforth@cyrrus.co.uk) If you require quotes and opinions of people who attended the event please contact [amradforth@cyrrus.co.uk](mailto:amradforth@cyrrus.co.uk)**

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