

## 2008 update

### Iskra Innovates



Over the last two years Iskra has spent over £2 million on product development of the highly successful 5kW turbine, the AT5-1. We believe this turbine offers customers the most effective technology available in small wind turbines today.

During the development, we have focused on performance, efficiency, reliability and corrosion protection whilst reducing cost, complexity and weight. Noise levels have been reduced, the design has been refined to a point where we are confident customers could not install a better turbine and our performance figures prove it:

At an average annual wind speed of 5m/s the AT5-1 power output is 8,980kWh, more than double the average household's annual consumption of 3,300kwh.

### Factory Move Boosts Output

A move into a new factory in Loughborough in May 2008 has boosted Iskra's output, increasing capacity from 10 to 50 turbines a month.

Previously located in Loughborough University Innovation Centre, the move to the new, specialised industrial unit was well timed enabling the team to increase production following an intense period of research and development.

"The UK demand has doubled in the last year and the potential world demand for the AT5-1 is huge," confirms CEO Pete Allen. "We are now well positioned to react to this expanding international market."

### *Two Million Hours in the Field*

Since 2005, Iskra wind turbines have provided us with over two million hours of



experience in just four years. Each hour provides us with data that we use to develop and refine our turbine for the future.

### *Data You Can Rely On*

At Iskra we strive for excellence in performance and design. Our product data sheets demonstrate the efficiency of the Iskra turbine, these data are measured using rigorous international testing standards:

- **Designed to IEC61400-2** - the international design standard for small wind turbines
- **Tested to IEC61400-12** - international standard for testing small wind turbines

We believe all small wind turbines should offer data produced to this standard.

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### AT5-1 Goes Worldwide

The first AT5-1 turbines have started to turn in the USA and India. Previously sold only in the UK, these new installations reflect Iskra's growing reputation within the international market as Iskra continues to expand worldwide.

#### Power in the USA

Iskra turbines are now generating power in the US following the decision by DC Power Systems, one of the biggest distributors of renewable energy technology in the USA, to sell Iskra's AT5-1 turbine.

"The Iskra turbine is the only 5kW turbine on offer by DC Power Systems," explains Tim Sammon, Iskra Commercial Director. "They were looking for the best system for their customers and we came out on top."



The first installation took place in October 2008, on a farm in Montana. "I am extremely pleased with the quality and performance of everything supplied from Iskra," said Matt Tritt of DC Power Systems. "The turbine is up and tested perfectly."

The market in the USA for small wind turbines is the largest of all the developed countries and a recent report from the American Wind Energy Association (AWEA) indicated sales of over 9,000 small wind turbines in 2007 which is set to grow at approximately 20% per annum. See the AWEA web site:

<http://www.awea.org/smallwind/>

### Wind Energy for India's Remote Areas



Two off-grid Iskra wind turbine systems are being tested in Pune, outside Bombay, in a bid to reduce reliance on diesel for running generators in remote areas.

Multi-source renewable systems could be used in the future to run remote telecoms equipment as well as supplying additional energy to farms and villages to run water pumps and irrigation systems.

With its low maintenance requirements and simplicity of design the Iskra AT5-1 turbine is ideally suited to the remote locations often found in much India.

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### Iskra Educates

More than 25 schools across the UK are using their Iskra wind turbines for educational purposes as well as power generation.



Using fixed display boards or wireless monitoring devices that can be moved between classrooms, pupils are able to

monitor a constant stream of data about system performance, energy yields and CO<sub>2</sub> savings.

“The opportunity to turn sustainable power generation into part of the daily lessons has produced some great ideas, particularly in maths and science. The schools also use the turbines to raise awareness of climate change and energy conservation,” said Tim Sammon, Iskra.

Mr Honey, Headmaster of Redlands Primary School, Nottingham was delighted with his turbine energy output, but even more surprised by the children’s response. “They are fascinated, often stand and watch it spin and it is a regular topic of conversation. So our children are learning in a practical way about our duty to conserve energy, and hopefully they will carry this attitude into their working lives in the future.”

### Grant Funding For Schools

Under the Low Carbon Buildings Programme Phase 2, all schools, public buildings and charitable organisations qualify for a 50% government grant toward the cost of an Iskra wind turbine. Schools are often successful in securing additional funding from The National Lottery, utility companies and other sources. For further information visit: [Segen School & Community](#)



### New Team Brings World Class Track Record

Over the last two years, Iskra has expanded its workforce, building a world class technical team with a track record of quality, reliability and performance. Two of the recruits were highly respected engineers from sports car giants, McLaren.

Iskra CEO, Pete Allen previously worked for McLaren for five years as Executive Product Director of the Mercedes Benz SLR McLaren Sports Car. Andrew Tasker, Product Director at Iskra, also came from McLaren after a long career in mainstream automotive.

Both bring to Iskra top level experience and expertise in precision engineering, quality testing and pioneering innovation.

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