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Micro Hydro Wins Major Tender

Segen Hydropower has won the tender to provide hydro consultancy work for the joint venture 'Partnership for Renewables' between the Carbon Trust and HSBC Bank to install renewable energy generation systems on publically owned assets.

Segen has been asked initially to look at the various British Waterways sites, initially reservoirs and lock sites, conducting feasibility studies, licencing and, as good sites are identified, leading to design and ultimately installation.

Phil Davis, Segen Technical Director said: "We were very pleased to win this tender for such a high profile project, working with two very influential clients. We have both the experience and credentials to take this project forward and ultimately work on some important small hydropower installations."

Powerful Lessons

Two schools in England are finding the switch to renewable energy is generating more than electricity in the classrooms. Pupils in both schools have been fascinated by their new microgeneration technologies and are keen to learn more about what they offer.

"Schools across the country are using their wind turbines and solar PV installations as educational resources, to help pupils learn about climate change, weather, power consumption as well as providing interesting angles for maths and design and technology lessons," explains Segen school and community development manager, Liz Horn. "When the systems are installed with visual displays, the statistics can be carefully monitored and analysed by students."



Elm Primary School in Cambridgeshire has installed an Iskra 5kW small wind turbine, saving over 2 tonnes of carbon emissions per annum and producing around 4.8MWh of electricity. The installation was completed in partnership with Sundog Energy and was funded by the BERR Low Carbon Buildings Programme and the Co-Operative.

Headteacher, Chris Child said: "I regularly find the children watching the visual display, explaining to each the different readings on CO2 savings and electricity output. It has really raised the children's awareness of the use of energy in school, they have even started to turn off lights."

St Michael's-on-Wyre Primary School, a Green Flag Eco School in Lancashire, has installed a solar PV system that will save them 1.4 tonnes of carbon emissions per annum and produce around 3.28MWh of electricity.

"It is a pleasure to work with such forward thinking schools and help them achieve their ambitions of generating their own renewable energy," concludes Liz Horn. For further information contact: [Segen School and Community](#)



Scotland PV Made Easier

Installing microgeneration technologies is set to get easier in Scotland as the Government intends to lift planning constraints on installing domestic solar PV.

This will put it in line with the England, which has already lifted planning requirements for installing solar PV on most domestic properties.

Small wind turbines are still subject to planning permission. Segen has a dedicated Planning Manager to help customers with their applications.

Phase 2 Grants Near End

The Government's LCBP Phase 2 Grant Scheme runs out on 30th June 2009. This is the last date for applications from not-for-profit organisations such as schools, colleges, village halls and libraries.

This grant currently offers up to 50% of installation costs for solar PV, micro hydro and small wind turbines. Liz Horn, Segen School and Community said: "We already offer a grant finding service to our customers, this will become even more important when the government grants finish. We suggest that any organization looking to install solar PV or wind turbines should move quickly to benefit from the generous government grants as well as any top up grants that we can find."

New Offer for Advanced Iskra

As the main UK distributor of the Iskra 5kW small wind turbine, we would like to bring you a very special offer on the Iskra 5kW wind turbine. For any site survey or planning application service ordered before the end of March 2009 Segen will give you a **150% refund** of the cost when you purchase your turbine.

So for example if you order our standard site survey and planning package at a cost of £800 we will give you a **£1,200 discount** off the price of your Iskra turbine when you come to place an order for it.

The Iskra 5kW turbine has continued to be developed during 2008 and now has a fully revised generator, which is **40% quieter** and **5% more efficient** at low wind speeds. From April 2009, an Iskra wind turbine will earn two ROCs/MWh, giving an **additional average income of between £250 - £500 per year**.

Visit our website for more information on installing an Iskra visit our website [Iskra](http://www.segen.co.uk)

All Weather Installations



Northern sales consultant, Jonathan Mann attended a midwinter installation for customer, Steve Lovelady in Carlby, near Stamford in Lincolnshire. Working in freezing conditions, attention was on safety and also protecting the customer's land. Jonathan was impressed with what he saw:

"It is really interesting to see the installation process and get a real feel for what is involved. The installation team worked incredibly hard in freezing conditions to get it done. They called it a day at 7pm with just the commissioning and tidying up to do but it would have been dangerous to continue.

We would have completed that day if the ground hadn't been so wet, trying to protect the grass with boards."

Gaia-Wind Aloft

An installation of a new Gaia-Wind 11kW turbine in Lesmahagow, Lanarkshire, was not for the faint hearted, as pictures by Segen's Jim Robertson demonstrate.

The Gaia-wind is mounted on a 18m latticed or freestanding tower. The twin blade Gaia has a rotor diameter of 13m and therefore a total swept area of 133m², which is twice that of a turbine with a rotor diameter of 9m, and so a swept area of only 63m². This is what gives the Gaia its exceptional energy generation capabilities, even at low to modest wind speeds.



Abergele Iskra



Segen NW dealer, Sustainable Energy Systems, held a hugely successful Open Day in Abergele, Conwy at the home of local councillor, John Pitt last month.

The Open Day attracted significant interest with visitors from Flintshire CC, Wrexham BC and the North Wales Energy Advice Centre. Mr Pitt's turbine has yielded 2.3MW over the three months that it has been installed, impressing everyone with its power generation and cost of installation.

Notes from the Northern Office

By Michele Robertson, Northern Area Manager

Todmorden is a windy town in the Pennines that I know well, which is why I am delighted that we are holding an Iskra Open Day there in March. We have completed seven installations in Todmorden and most of them can be seen from the venue of the Open Day.

If people are serious about wind turbines the Open Day will be a great way to see the different types of turbine installations that we offer, from guyed to freestanding towers, Westwind, Iskra and even a Vestas wind farm on the hill. Todmorden is a great community and people regularly swap information on their turbines and which are most successful. That must be why we keep getting invited back.

Events

EcoBuild, Earls Court, London

3-5 March 2009

Segen's Hertfordshire based partner, Touchwood Homes, will be exhibiting at the annual EcoBuild Exhibition at Earls Court this March demonstrating their impressive range of eco home designs constructed with a choice of microgeneration technologies.

Now in its fifth year, EcoBuild is the world's biggest event dedicated to sustainable design, construction and the built environment. With exhibition, conference and seminar, there will be plenty going on throughout the event.

For further information visit www.touchwoodhomes.co.uk or email them on sales@touchwoodhomes.co.uk.



Touchwood Homes 

Spring Date for Somerset Hydropower Tour

4/5th April 2009

The first South Somerset Hydropower Tour date for 2009 is now in the calendar. This popular tour of six hydropower installations in South Somerset will take place on Saturday 4th and the morning of Sunday 5th April. The guided tour will compare a variety of hydropower technologies, installation costs and options available.



These tours will be of particular interest to mill owners, engineers, policy makers, local authority officers and community groups, and those looking to install hydropower. For further information and to register contact [Gants Mill](http://www.gantsmill.co.uk) or call 01749 812 393.

North Norfolk Coast Earth Day

Wednesday, 22nd April 2009

Mosscliff Environmental Ltd, an approved partner and installer for Segen, will be exhibiting at Earth Day at Deepdale Farm, Burnham Deepdale near Kings Lynn. The event is an exhibition of environmental technologies and green advice, open from 10am - 4pm, with free entry.

For further information contact david@mosscliff.co.uk.

Open Days

Iskra Open Day

Ullapool, Scotland

7th March, 2009

View a fully installed Iskra AT5-1 5kW small wind turbine on Saturday 7th March 2009 between 10.00am – 3.00pm, courtesy of Barry Dumughn, in Ullapool, Highland. To attend contact: [Jim Robertson](mailto:Jim.Robertson@iskra.co.uk)

Iskra Open Day

Todmorden, W Yorks

14th March, 2009

View a fully installed Iskra AT5-1 5kW small wind turbine on Saturday 14th March 2009 between 11.00am – 3.00pm, courtesy of Barbara Colpman, in Todmorden, Calderdale. To attend contact: [Michele Robertson](mailto:Michele.Robertson@iskra.co.uk)

Iskra Open Day

Ashlawn School and Science

College, Rugby

20th March, 2009

Open Day for schools and not-for-profit organisations, to view a fully installed Iskra AT5-1 5kW small wind turbine on Friday 20th March 2009. To attend contact: [Segen School & Community](mailto:Segen.School&Community@iskra.co.uk) or call: 01524 590 590.

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