

BHA Spotlight

ISSUE 4 • 2008

Hydropower - the pioneer of renewable energy



Registration opens....!



We at the BHA want to help companies in their work overseas so that the opportunities can be taken despite hot competition.

This year's BHA Annual Conference is in Bristol. This should come as no surprise as it is adjacent to the largest potential tidal power project in the UK and there is much interest in ocean hydro potential in general around the South West coasts and Irish Sea.

The South West is also bristling with micro generation projects and mill and community groups are ever-growing to take advantage of the growing public and government interest in microgeneration. In the middle of all this is pumped storage, storage and run-of-river hydro – all in or close to Bristol. The conference offers something for everyone and we have a large and varied programme of papers. Each hydro area comes with its problems and barriers and we hope that the conference, the companies who exhibit at the event and the networking will give hope and assistance to all who attend in growing their hydro businesses. The future is still rosy despite the general economic downturn. If hydropower cannot be developed now, it never will.

And, it's the same worldwide. Hydro companies are overloaded and there is a massive skill shortage. We at the BHA want to help companies in their work overseas so that the opportunities can be taken despite hot competition. Hydro 2008 in Ljubljana (6th to 8th October) will once again host a BHA British pavilion supported by UK Trade & Investment. A British hydropower reception is also organised which will bring UK companies in closer contact with potential customers. If export markets are to be tapped in the long term, this event is absolutely essential to ensure your place on the world hydropower stage.

I look forward to seeing you in Bristol and Ljubljana.

David Williams, Chief Executive, BHA

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The British Hydropower Association is sponsored by:



British Hydropower Association www.british-hydro.org



This newsletter aims at keeping members up to date with a range of news articles including updates on BHA activities

Ashfield's ashes provide the foundations for success

Fitting the runner

By **Martin Foster**, BHA Council Member and owner of Ashfield Hydro

After 20 years of operation, the turbine and generator at Ashfield suffered a major fire and failure, so we decided to replace the entire installation with a twin-jet Newmills Hydro Pelton and Alconza generator.

The change from a vertical machine to a horizontal arrangement meant removing the old building and its foundation, which had cracked from the vibration of the failure. The new foundations were cast in January this year and the building was built in February. It rained continuously during the whole building phase and we had to watch the water passing by as we thought of all the power we should have been generating!

The old machine had a maximum capacity output of 315kW but with its greater efficiency the Newmills Pelton should be capable of 500kW, so the grid connection had to be upgraded. Initially SSE

would not allow an increase in the grid connection until their transmission network upgrade completed in 2012. So we got in touch with our local MSP, Jim Mather, Energy Minister for the Scottish National Party, who got in touch with SSE CEO, Ian Marchant. Shortly afterwards we were informed of a special case for use to get our increase in connection, and we now hope to get the machine commissioned some time in August this year.

We are absolutely delighted with the new machine. The Pelton runner pcd 960 and generator pole 428 rpm. The turbine box is made from 30mm steel and weighs around 9.5 tons, the generator weighs 6.5 tons and the drive shaft with nothing mounted on it weighs 3 tons and is 30mm thick at its thickest part – seriously strong stuff!



New foundations



New powerhouse roof going on



Lifting the box in

Government reveals Severn Estuary tidal power long-list

The government has unveiled a list of 10 proposals that could go forward to generate tidal power in the Severn Estuary.

The feasibility study being carried out by Parsons Brinckerhoff is now considering these proposals, with expectations that a shortlist will be chosen this year for more extensive research. Secretary of State, John Hutton, promised to look at the full range of technologies and locations proposed. The proposals will be assessed and used to develop the draft Strategic Environmental Assessment (SEA) scoping

report to determine what issues need to be covered to carry out the SEA.

The feasibility study is expected to take two years in total and a shortlist of potential projects should be drawn up by the end of this year, after which the government has said it will reach a view on whether there are any “fundamental issues” that mean the project cannot proceed.

Source: New Energy Focus 250708

BHA note: This study will be discussed at the BHA annual conference, where it will be introduced by BERR.

Green Light for Romney Weir Hydroelectric Project



npower renewables' and Southeast Power Engineerings' re-designed hydroelectric scheme at Romney Weir was approved by The Royal Borough of Windsor and Maidenhead (RBWM) Planning Committee on Wednesday 6th August. The revised scheme was given the go-ahead by the Council at its committee meeting where councillors voted unanimously in favour of the proposal. Thomas Chappell, npower renewables project delivery manager, said, "We are delighted that this exciting project has been given consent and look forward to starting construction next year. Of course, we'll continue to work closely with the local communities as the project progresses into construction."

Sealing the deals!

S M Seals Ltd has been awarded the contract to supply the main shaft seals for the Kol Dam project. The project award from BHEL in Bhopal, India, is the first of what is hoped to be many projects of this type from India. S M Seals will be supplying four 1.25m diameter seals along filtration and control equipment, the value of which is in excess of £300k.

The project, ordered by the Himachal Pradesh Government, is situated in the Bilaspur district and will have a total capacity of 800MW (4 x 200MW). The construction will be completed by the National Thermal Power Corporation (NTPC) and the estimated annual generation will be 3054GWh. The project is due for completion in September 2010.

S M Seals Ltd has also been awarded a contract by VA Tech Wyss Flovel Ltd for the supply of three seals for the Jaldhaka 1 project. The station is located in the Darjeeling district of West Bengal in north-eastern India.

This run-of-river station utilises the flow of the Jaldhaka Rivers and includes Stage I and Stage II powerhouses. Stage 1 powerhouse consists of three vertical Francis turbines, which were commissioned in 1967. The project is due for completion in July 2009.

Mike Banks, S M Seals



The project will generate around 1.4 million kilowatt hours of clean electricity each year, and contribute towards meeting the Government's targets of achieving 15% of UK electricity needs from renewable energy sources by 2015. It is hoped that the electricity generated at Romney Weir will provide power to Windsor Castle, although npower renewables is currently

still discussing this aspect of the scheme with the Royal Household. Construction will take place in 2009, so the hydroelectric project will become operational later next year. Romney Weir, which is located adjacent to the bank of Romney Island, between Windsor and Eton, is owned and operated by the Environment Agency.

Npower renewables

Scottish Power invests £20m in hydro!

Times they are a-changing! With the shift in world energy markets due to rising oil and gas prices and the attraction of producing green energy, Scottish Power have decided to pump £2m into refurbishing the turbines and maintaining the dams at its three hydro schemes at Cruachan, Galloway and Lanark, which have a combined capacity of 562MW. The upgrading programme will take place over the next two years and will help to keep the plants going for at least another 25 years. This means that the schemes at Lanark and Galloway will still be in operation when they celebrate their centenary years in 2027 and 2036.

Source: The Scotsman

Perth shows form

The BHA micro-hydro seminars hit the road again in July, this time north of the border at Perth

Racecourse. Over 80 delegates made up a diverse audience at this event, which incorporated our introduction to hydro basics and was followed by a series of speakers covering subjects such as the SEPA CAR application process, electrical and mechanical equipment, planning experiences, making money, a consultant's view and real-life case studies. The day ended with a tour of the Stormontfield installation on the River Tay, owned by Bob Middleton of Tradelink Solutions.



Bob Middleton, Tradelink Solutions

It was particularly good to hear Richard Fyfe of SEPA saying "we see hydropower as a key element in the renewable energy mix" – a welcome and positive sign for the future of hydropower, both small and large, in Scotland.

Once again we had very positive feedback from delegates and speakers. The next two micro-hydro seminars will be held in Yorkshire and Derbyshire on the 2nd and 23rd October. For more details please visit our website: www.british-hydro.org.

Nicki Salmond, BHA



Stormontfield Hydro

Is there something fishy going on?

Under the lurid picture of fish being sliced by a water turbine, the summer 2008 edition of "FISH" carried two articles on the affect of hydropower on fish in the UK. The article titles were no less emotive than the picture: "The Green Energy Gold Rush" and "The Greening of Hydropower".

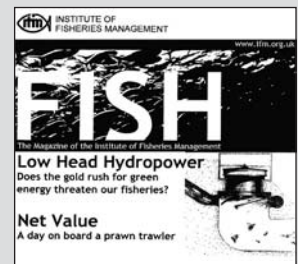
The articles appear to be based on the misconception that hydropower developers will invest in a project without any concern for the environment and that the lure of massive profits comes before all. They referred to the Government's "very

attractive financial packages for these small schemes" possibly in reference to the Renewables Obligation and the Low Carbon Buildings Programme.

The major thrust of both articles appears to indicate that the claim made by many that hydropower is "green" can only be valid if environmental implications, especially fish protection, is taken into account. They called for more "joined up thinking" within Government to ensure that fish were protected by addressing this "rush" for hydropower. One article even suggested that more storage hydro would be better for fish preservation than a myriad of run of river schemes.

There seems to be a fear of hydro development which, with the licensing procedures now adopted by all environment agencies, cannot be justified. It was therefore puzzling to discover that the articles were written by employees of the Environment Agency.

The BHA has written, along with some of its members, to the Institute of Fish Management in an attempt to redress the balance. The core of the BHA letter is that hydropower projects continue to be built and this after all the regulatory requirements have been satisfied. We consider the threat which the writers seem to fear from hydropower is exaggerated and that all the



environment agencies within the UK are engaged with the BHA and directly with the industry itself. No-one is trying to ruin the environment, make a quick buck and disappear or trying to increase carbon emissions. Every hydro project developer has to have open and frank discussions with all relevant agencies. It need not be a fight and there are many instances when a compromise acceptable to all is accomplished in a gentlemanly way. We have to live together on this or nobody wins!

Both the original articles and the BHA's reply can be obtained from info@british-hydro.org

David Williams

Listed Sluice Gates at Bournemouth Mill



A Government decision to list the sluice gates at a Bournemouth mill has delighted campaigners. Grade II listed status has been awarded to Throop Mill sluice gates after the government agreed they contributed significantly to the character of the area. The decision, issued by the Department for Culture, Media & Sport, also said the structure was “remarkable complete” and an increasingly rare survivor of its type.

Throop & Muscliff councillor Ron Whittaker called for the gates to be given the same listed status as the mill in a bid to protect them for the future. He said the gates are currently decaying and rusting and urgent action was needed to prevent further deterioration.

“Last year the Environment Agency undertook works to remove a substantial amount of shrubby growth and roots that were eating their way into the concrete pillars that support the weir bridge footpath and sluice gates. Now my further concerns are that some of the former shrubby growth is beginning to reappear and it needs urgent ongoing maintenance” he said.

The sluice gates and their lifting

mechanisms were replaced in 1976 by the Avon & Stour Catchment Board. Three were manufactured by the Dorset Iron Foundry Company in Poole and three by Lott & Warne Ltd of Dorchester.

Article and image courtesy of the Bournemouth Daily Echo

Slochd Mor lodge hosts micro-hydro seminar

As part of its programme of training in renewable energies, CIFAL Findhorn held a one-day seminar in conjunction with the Cairngorm National Park Authority in the very relaxed atmosphere of Slochd Mhor Lodge.

Presentations were given by the hosts and RD Energy Solutions Ltd, the National Park Planning Officer, SEPA and BHA. The history of a nearby 9kW hydro installation was given by its owner, David Wells prior to a site visit. David’s project was extremely well conceived and implemented and his experiences from legal issues to civil works were an inspiration to all.

The audience appeared inspired by the day and left in no doubt of the complexities of installing a micro-hydro scheme. The delegate list was oversubscribed by 40 so a number of repeats seem inevitable!

David Williams, BHA



Nick Bard of RD Energy Solutions in the power house at Slochd Mor



Slochd Mor, Carrbridge

Partnering the future

Green Highland Renewables has entered a partnership with Scottish & Southern Energy to build and operate small-scale hydro schemes. The Company has 12 installations with a total capacity of 30MW and is looking at other sites across the country. Its schemes divert parts of streams or rivers down buried pipes to small generators and exploit natural landscape features rather than using dams or aqueducts. The Company said its estimates suggest that 250MW of capacity could be developed from small hydro schemes in Scotland alone.

Source: Planning 080808

Scotland to connect to Norway

Scotland is drawing up plans to build the world's longest electricity connector – to Norway – to help meet its renewable energy targets and end its dependence on nuclear power. The whole project could cost more than £2bn.

The UK depends on Scotland for most of its oil revenues and renewable energy resource. Politicians in Westminster are worried that full Scottish independence would further undermine the security of the UK's energy supply. Scotland is much windier than England, Wales or Northern Ireland, and has plenty of green hydropower. Instead of building coal plants to back up its wind farms, it wants to connect to Norway's grid to solve the problem.

Norway gets almost all of its electricity from hydropower, much of it pumped storage. If the 620 mile connector is built, when Scotland is windy and has surplus electricity, it would be exported to Norway to provide power to pump the water back to its higher reservoirs. When the wind does not blow in Scotland and there is a shortage of power, Norway would provide the shortfall power.

The connector could also provide power to North Sea Oil operators. Drilling rigs and platforms use about 4GW of electricity - equivalent to the demand of four cities the size of Birmingham – which is currently provided by expensive and dirty diesel generators or gas.

Source: The Observer 100808

Good Practice Guides for hydro abstraction licences

Progress has been made on the completion of the long-awaited Good Practice Guides. After some re-working of the original submissions from industry consultants and making the four sections of the Guides more compatible and simpler for EA officers to use there is now only final agreement to be reached within the Environment Agency on a couple of aspects of residual flow.

The EA will be going through a period of reorganisation from this autumn and this will affect the way in which it operates its licensing procedures. The Guides will take a prominent part in the procedures and it is expected that these will be clearer and simpler to operate. After they are incorporated, the Guides will be subject to regular review and revision by the Environment Agency Hydro Working Group (EAHWG) which comprises members from the EA, DEFRA, BERR and the hydro industry via BHA and nominated members.

David Williams

Catchment Flood Management Plans

The Environment Agency has published the draft East Suffolk and River Welland Flood Management Plans. These are high level strategic plans that will assess how flood risk might change and be managed over the next 50 to 100 years. They are available on the Agency website.

Adrian Abbott, BHA



Global Green Energy Awards: UK entries needed by 28 Oct 2008

Are you part of a local sustainable energy project that's inspirational, innovative, and worthy of international recognition? Do you know of one?

The Ashden Awards for Sustainable Energy are seeking inspirational and innovative local sustainable energy projects run by local authorities, businesses, and charities/community organisations. Winners in these four categories will receive £30,000 each in prize money for project development, with a

second prize of £15,000. There is also a special category for schools. The Awards will be presented at a VIP ceremony in London in June 2009.

For more details, including award categories, past winners, supporters, the awards timetable and application forms, please visit www.ashdenawards.org or contact Jane Howarth, tel. 020 7410 7023 or email info@ashdenawards.org. The Ashden Awards are a UK Registered Charity, no. 1104153.

UPDATE: Scotland

- The long awaited Freds Report on the remaining resource in Scotland has now been completed although it has not yet been printed. It is quite encouraging news. Any development will still be subject to the views of SNH obtaining a CAR licence from SEPA and most importantly the support of local planning authorities or where applicable The Scottish Executive.
- We still await a decision from The Scottish Executive on whether the current level of 1MW at which applications for deemed planning permission are made to the Scottish Executive may be revised in future as small developers have long considered the current level to be a deterrent to development.
- As yet, no discussions have taken place regarding revision of rating valuations with effect from 2010 but hopefully this will be progressed in the near future.
- Current price levels make it attractive to relook at developments which may have been uneconomic in the past however the up front costs of planning and environmental costs are still a substantial deterrent in the absence of a presumption in favour of development or some assurance from planning and other consultees that if the appropriate work is carried out planning will be granted.
- And finally, although the country as a whole has been suffering from floods the NW of Scotland has been having a summer of Mediterranean weather and some hydro schemes have hardly operated since April.

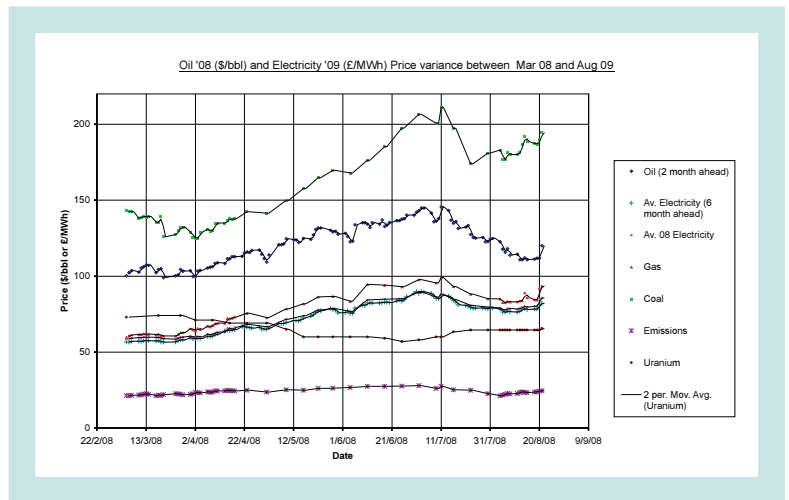
David McKenzie, Arkaiv

ENERGY MARKET REPORT

Oil prices have progressively weakened over the past month from a high of nearly \$150bbl down to \$110bbl as news and forecast of recession in the world's major economies has continued. There has also been good news on the supply front as a new major field in Saudi Arabia has come on stream and fields such as Thunderhorse in the Gulf of Mexico have finally come into service after Hurricane Katrina. Rapid investment in the heavy oil fields in Canada also suggest the market may emerge from the winter period in much better shape than we have seen in recent months.

The reduction in Oil prices has been mirrored in the Gas market where supplies certainly in the short term seem adequate. This decline has in turn followed through into electricity prices although it has to be said the impact of the new Carbon trading market and higher coal prices together with continued poor performance of the nuclear industry has held prices firmer than the corresponding oil and gas markets.

The recent events in Georgia had seemingly gone unnoticed in the markets (many traders have been on holiday) however this week we have seen the closure of a major gas pipeline in Norway. This led to a spike in gas prices and put an end to the decline. Oil prices have also recovered together with a recovery in the dollar.(due to European and Japanese weakness not US strength) The bounce in prices this week may be indicative of a resistance point around £75Mwh at the current level however we wait to see developments in the coming months. Overall the picture remains stretched and highly volatile. Members seeking to contract should talk to their suppliers and chose the best day. The market volatility is likely to be significantly greater than the difference between the potential buyers.



The market for LECs remains at the 85-95% level i.e. around £4Mwh and ROCs have begun the new trading year with the April ROCs trading around £50 per ROC a small discount on the final figures for 2007-8. The LEC market is likely to remain stable through the year whilst the ROC market is likely to appreciate slowly as we approach Christmas.

The longer term outlook remains uncertain. Good bundled prices in the range £120-130Mwh can now be fixed for a couple of years whilst prices beyond three years remain heavily discounted. Many projects requiring finance are taking longer term agreements based on a percentage of flat baseload market prices set either annually or quarterly typically 85-90% with a floor for the bundled package of around £80Mwh. This provides a guaranteed level of pricing for the banks plus some upside to the developer.

The political agenda remains positive for Renewable Energy as a whole but the incessant changes and new proposals and strategies make the commercial environment as risky as ever.

Bob Middleton

BOB is MD of TRADELINK SOLUTIONS LTD and would welcome your call to discuss the market.

FP7 Information Days and Proposal Clinics

The Commission will be holding an Information Day on the 2009 Calls for Proposals on the 24th & 25th September 2008 in Brussels.

Background and a link to the registration form can be found at http://ec.europa.eu/dgs/energy_transport/rtd/fp7/infoday_en.htm. In

preparation for the 8th October deadline, the Energie Helpline team will be running clinics in London (1st September) and Manchester (8th September). These sessions aim to provide feedback on the structure and content of your proposal, assist with fine tuning and address any key issues or questions. If you intend to submit a proposal for the 8th October deadline, then you are invited to book an appointment for a one hour meeting with a member of the helpline team to discuss your proposal. You will be requested to send a draft or summary of your proposal prior to the meeting. If you would like to attend a clinic session but cannot make the above dates and locations, please contact the Helpline. The helpline also has access to a system that allows them to provide online training sessions on specific topics relating to FP7 proposal preparation. Please contact them if you wish to join an online training session. **The Energie Helpline can be contacted by email (energy@enviros.com) or telephone 0161 874 3636.**

INTERNATIONAL NEWS

New Pumped Storage in Spain

The new La Muela II pumped storage plant being developed by Spanish utility Iberdola on the Jucar River is expected to start operation in 2012, which will expand the capacity of the existing La Muela pumped storage station by 850MW. La Muela II's electricity supply is expected to deliver reliable and uninterrupted power to the grid to make up for volatile supply from Spain's wind energy parks.

Source: Renewable Energy World 210708



EDF builds pilot tidal turbine system in France

Electricité de France (EDF) will build a pilot turbine system in France with three to six turbines and an output of 4-6MW.

They are set to be installed and linked to the grid off Paimpol, Côtes d'Armor, Brittany, which according to EDF features currents that are among the strongest in Europe. The choice of site was based on technical and financial criteria and the pilot scheme will enable the technology to be tested under real conditions. EDF's aim is to address profitability and draw up an administrative and legal framework that will lead to the development of a network in France.

Source: Renewable Energy Focus

Turkey constructs hydro to meet energy demands

Turkish Environment & Forestry Minister, Veysel Ero lu has announced that since last year the Turkish private sector had submitted applications to construct 1,461 hydropower plants to produce 65 bn kWh of energy, which will, upon completion, generate an annual income of \$58 billion for Turkey.

Several estimates say Turkey needs between 230 billion and 237 billion kWh of electricity by 2010 if it continues its current economic and population growth rates. It is therefore increasingly important for Turkey to look at new source of energy rather than relying on imports. The hydroelectric plants are a huge step in the right direction.

China's Three Gorges generates 250bn kWh of electricity since operation



China's Three Gorges hydropower project has generated 250.4 bn kWh of electricity as of 15th August since it first began production in July 2003. This amounts to around 8% of the country's total electricity consumption in 2006. The project currently has 24 turbines in operation with an actual generating capacity of 15.5 million kW, with two more expected to be put into use this year. The 22.5 billion \$US project was launched in 1993 in the mid-section of the Yangtze, China's longest river. Originally, its plan called for the 26 turbo-generators to produce 84.7 billion kWh of electricity annually upon its scheduled completion this year. It is now to be expanded further to include six more turbines by 2012.

Source: xinhuanet.com

Forthcoming **BHA** EVENTS 2008

TRADE LEADS

CANADA: Bute Inlet Hydroelectric Project may be entered into the next BC Hydro Call for Power. Project is currently in the pre-application phase under the Environmental Assessment act. Contact Miss Kathleen McNeil, British Consultae-General, 800-1111 Melville Street, Vancouver, British Columbia, Canada V6E 3V6, tel: 1 604 68 4421, email Kathleen.mcneil@fco.gov.uk.

BHUTAN: Chhukha Hydropower Plant (CHP), an organisation under Druk Green Power Corporation Ltd (DGPC), Bhutan, is planning to review, investigate, study and analyse the renovation, modernisation, automation and upgrading of the Chhukha Hydropower Plant, and to make recommendations for the implementation of the refurbishment study. For further details, please contact: The Chief Engineer, Chhukha Hydropower Plant, Druk Green Power Corporation Ltd, Chhuka, Bhutan, tel: +975-8-478267, fax: +975-8-478252/272, or email: chpc2@druknet.bt.

CURRENT CONSULTATIONS

Two important consultations are being addressed at the moment:

- **UK Renewable Energy Strategy**
closing 26.09.08

This consultation seeks views on how to drive up the use of renewable energy in the UK, as part of our overall strategy for tackling climate change, and to meet our share of the EU target to source 20% of the EU's energy from renewable sources by 2020.

- **Statutory Consultation on the Renewables Obligation Order 2009**
closing 30.09.08

This consultation sets out the Government's proposals for the implementation of banding or the Renewables Obligation from April 2009.

The BHA will be responding in line with a consensus of replies from members addressing all the issues within the Renewables Strategy and Obligation which affect the development of UK hydropower. Any further comments should be sent to info@british-hydro.org as soon as possible.

BHA AGM 2008

17th September 2008 (morning) - Bristol (venue to be confirmed)

Annual General Meeting for BHA members.

Tel: 01202 880333

Email: info@british-hydro.org Web: www.british-hydro.org



BHA Annual Conference 2008

17th & 18th September 2008 - Bristol (venue to be confirmed)

Annual Conference and exhibition.

Tel: 01202 880333

Email: info@british-hydro.org Web: www.british-hydro.org



HYDRO 2008

6th to 8th October 2008 - Ljubljana, Slovenia

Further to our highly successful activities in previous years, the BHA is organising a UK pavilion and networking reception at this leading international annual hydropower conference and exhibition. These activities, which are supported by UK Trade & Investment, will be attended by representatives from the British Embassy, Slovenia, and will provide great opportunities for UK companies to network with key decision-makers from hydropower organisations from a worldwide delegation. Some UKTI grants may be available to qualifying companies but these are limited and will be offered on a first-come first-served basis (subject to conditions). If you are a UK-based company and would like more details on participating on the exhibition stand and/or at the networking reception, please contact Ellan Parry at the BHA.

Tel: 01202 880333

Email: ellan.parry@british-hydro.org Web: www.british-hydro.org



BHA MICRO-HYDRO SEMINARS – Yorkshire & Derbyshire

**22nd October at Bedale, N. Yorks and
23rd October at Matlock Bath, Derbyshire**

Considering installing a micro-hydro scheme but don't now where to start? Our seminars will take you through the process and will include case studies and site visits. Book early to avoid disappointment – contact Nicki Salmond on 01202 880333 or email info@british-hydro.org



Hydropower - the pioneer of renewable energy

CAREERS

SITUATIONS WANTED

Miss Elena Leonova is a Russian National seeking employment in the UK hydro industry. Elena, who is 23 years old, is a resident of St Petersburg who recently graduated with the highest grade from St Petersburg Institute of Mechanical Engineering where she completed the 6th course Turbine Building faculty of the Department of hydraulic machines, hydraulic gears and hydro pneumoautomatics. Whilst studying, Elena worked as a merchandiser, promoter and salesperson, including a spell with Somaks Ltd, which deals in steelwork. Elena is fluent in English and has a basic knowledge of Portuguese. To contact Elena, email pimaw@freemail.ru or telephone 007 812 559 848. A reference can be obtained from Captain Sam Bee (ret'd) by email lj.bee@btinternet.com.

SITUATIONS VACANT

HYDROPLAN is a leading environmental engineering consultancy, with offices in Dorset and Fort William, and we specialise in small to medium hydropower. We are a small company in an exciting industry, which is growing rapidly and are looking for the following people to join our team:

- **Construction Manager:** - You will have good practical site experience with an appreciation of the design interfaces so that you are able to make some design changes on site. You will probably have an HNC/HND/Degree in Civil Engineering and be competent on the computer. Although the job is office-based there will be some travel to some of the remote and beautiful parts of the UK. You will be an excellent communicator and be able to adapt your style to different situations.
- **Environmental Specialist:** - You are likely to have a good knowledge of environmental fieldwork, production of Environmental Statements and environmental regulation. Your experience may have a bias towards the aquatic environment. Whatever your expertise, we would want you to be able to help specify and manage specialist sub contractors and you will be involved in everything from on-site fieldwork to negotiating mitigation.

Please send your CV to Audrey Wiles @ info@hydroplan.co.uk or Unit 12 Riverside Park, Station Road, Wimborne, BH21 1QU.

Tel: 01202 886622

The IEA & Marketforce's 9th annual
THE ENERGY FORUM conference
1st October – London
www.marketforce.eu.com/energy

The IEA & Marketforces 3rd annual
RENEWABLES 2008 conference
2nd & 3rd October - London
www.marketforce.eu.com/renewables

SOUTH WEST GREEN ENERGY AWARDS
25th November 2008 – Bristol
www.regensw.co.uk

SCOTTISH GREEN ENERGY AWARDS
4th December 2008 – Edinburgh
www.scottishrenewables.com



NEW MEMBERS

Crichton Carbon Centre (Charity membership): The team in Dumfries is working to find sustainable solutions to global warming. Linking with SMEs across Dumfries & Galloway, the charity offers energy efficiency advice and assists new businesses in the environmental sector. They also offer the postgraduate MSc in Carbon Management in collaboration with the University of Glasgow.

Future Energy Yorkshire (Correspondent membership): This not-for-profit support organisation, sponsored by the RDA, establishes commercial partnerships with private and public sector organisations to fill knowledge gaps, bridge market failures and bring to fruition renewable energy projects that will deliver significant greenhouse gas savings and economic benefits to the Yorkshire & Humber region.

For the perfect energy mix just add **water!**

BHA Secretariat:

David Williams, CEO
Ellan Parry (Editor), Operations & Marketing Manager
Adrian Abbott, Policy & Consultations Manager
Nicki Salmond, Operations Assistant
Chairman: Tim Foster
Vice-Chair: Andrew Frazer



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