



This newsletter aims at keeping members up to date with a range of news articles including updates on consultations, policies, funding and research opportunities, forthcoming events, career and recruitment news, and trade leads in all areas of the UK hydropower industry.

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BHA Micro-Hydro Seminars - Wales

"Enjoyable", "useful" and "interesting" were the key words used by delegates to describe the micro-hydro seminars held in Wales on 23rd and 24th January, several of whom went away full of enthusiasm and keen to investigate the possibility of installing their own schemes.



Tim Foster of SmartestEnergy – generating a return

Both days involved talks from the Environment Agency, consultancy Dulas Ltd, electricity trader, Tim Foster, from SmartestEnergy, and case studies from local owner/developers, who provided first-hand experiences of their own schemes – from getting started and overcoming hurdles through to finally generating their own electricity.



Tegwyn Jones at Maesglas

Site visits included Maesglas near the town of Machynlleth, a run-of-river scheme producing 95kWh at full flow. This scheme has been running for almost five years and will have paid for itself within another year.



Outside the powerhouse at Maesglas

The visit to Dangribyn in Cwm Morgan showed the leat, which is currently being renovated in preparation to install a run-of-river scheme with a head of 4m. The owner, Tony Woodman, has made his own crossflow turbine and hopes to have the scheme up and running by the end of this year.



The leat at Dangribyn



Tony Woodman's crossflow turbine

A renovated 18' waterwheel at Dreifa Mill, CwmMorgan, lovingly restored by Mike Godsell, completed the visits. The wheel produces 6kW of electricity, which powers Mike's band saw and providing light and heat for his workshop.



The renovated waterwheel at Dreifa Mill

These seminars were the second and third in a programme that the BHA are organising and taking around the country over the next year. For more details please visit our website or contact us on 01202 880333 / info@british-hydro.org.

Source: *Ellan Parry, Operations & Marketing Manager BHA*

New EU Innovation Funding Programme Launched



In December 2006 the European Union launched a funding programme worth over €50 billion, for research and technological development. The EU is committed to innovation as a means to give its member states a technological competitive edge in world markets. As part of this commitment, a series of Framework Programmes has been implemented, over the last 25 years, to provide funding for companies and organisations involved in research and technological development. The most recent, Framework Programme 7 (FP7), was launched on 22nd December 2006 and will run until 2013.

Funding support will be provided to international co-operation projects across the European Union and beyond. Any company, university, research centre, organisation or individual may participate within a project consortium, no matter how large or small. The progress of knowledge and technology will be supported in 10 thematic areas corresponding to major fields in science and research, including Environment (including Climate Change) and Energy.

Funding is provided as a grant contribution to the project budget, with intervention rates of

between 50% and 75% of the total eligible costs of research and technological development activities. The level of funding is entirely dependent on the project and can range, typically, between a few hundred thousand to millions of Euros, depending upon the scope and nature of the development.

The first call for proposals closes in the middle of April 2007 so, if you have a project that is innovative, state of the art and in need of financial support, you should act now.

G&H Associates is a consultancy with experience in the field of fund acquisition from a wide range of sources and is working with The BHA to provide its members with advice and expertise in funding for their research and technological development projects through FP7 and the wealth of other funding schemes available. They are experts in evaluating projects, identifying the best route to acquire the much-needed funds and ensuring a successful bid submission, be it to the EU, DTI or other body such as a Regional Development Authority. For a confidential discussion about your idea or project, contact David Acton at G&H Associates (tel: 01283 539518) or visit their web site at www.ghassociatesuk.com for more information.

Source: *Ellan Parry, Operations & Marketing Manager BHA*

Ofgem – The RO is too expensive and should be scrapped



A Press Statement issued by Ofgem on 22nd January recognises the importance of renewable generation in tackling climate change but criticized the Renewables Obligation (RO), which it describes as a very costly way of reducing carbon emissions. Ofgem has proposed scraping the RO and replacing it with a system that will cut

the cost of reducing carbon emissions through renewable electricity generation. According to Ofgem the cost per tonne of carbon saved under the RO is, at £184-481 compared to £12-70 a tonne under the European Union Emissions Trading Scheme (EU ETS), £18-40 a tonne under the Climate Change Levy and £60 a tonne through the Energy Efficiency Commitment.

Ofgem, which administers the RO, acknowledges that it is providing strong financial incentives to build renewable generation. Ofgem has questioned the RO's

cost-effectiveness, claiming that electricity customers end up paying even if renewable generation doesn't get built, and the level of support is not linked to the price of electricity or the price of carbon emission allowances under the EU ETS. Ofgem recognizes that planning is a major constraint on the development of renewable generation. Planning bottlenecks increase the price per ton of carbon saved under the RO because the RO is set as a percentage of total supply and suppliers who do not meet their RO with electricity from renewable generators pay a buyout price for the shortfall. So where planning delays block renewable plant development the shortfall increases and so does the price for each tonne of carbon saved.

Ofgem has pressed the government to extend its consideration of possible reforms for the RO beyond its current proposal for banding. Ofgem does not think banding fundamentally addresses

the issues and has suggested an arrangement based on auctions of long-term contracts that offer renewable generators a fixed return and links the level of support to the wholesale electricity price. Ofgem suggests that with long-term contracts where the customer only pays for electricity generated by renewable plant giving more real carbon savings for their money compared to the RO. The contracts would link the level of support to the wholesale price of electricity, so if electricity prices rise, the level of support would fall. Ofgem argues that long-term contracts would provide greater financial certainty for investors and can include penalties for failure to deliver contracted renewable electricity.

Source: Adrian Abbott, Policy & Consultations Manager BHA

Scrap the DTI?

Speculation appears to be rising that the Depart. of Trade and Industry (DTI) will be disbanded under Gordon Brown. Other parties at Westminster have proposed axing of the DTI too. Support for industry has been progressively run down over past years and DTI's main functions will, of course, be transferred to other departments; the rumours are that energy will go to Defra.

What are the potential implications for British business, particularly for small and medium-sized companies?. Should there be a central focus in Whitehall to champion the interests of business? Businesses are, after all, facing intense pressures from global competition for resources and markets and their voice needs to be heard somewhere. Let us hear your views.

Source: Adrian Abbott, Policy & Consultations Manager BHA

Rates Appeal Update – Scottish Hydro Schemes

It is now expected that negotiations with the Scottish assessor will be completed by the end of January and appeals finalised shortly thereafter. It is also expected

that this will result in rate reductions for Scottish Schemes

Source: David McKenzie, Arkaig Hydro Power Co Ltd.

A New Energy Policy for Europe

On 10th January the EU Commission proposed an integrated energy package to meet the challenge of climate change, cut emissions, boost energy security and competitiveness. The proposals were jointly presented by: Commission President, José Manuel Barroso, Commissioner for Energy Policy, Andris Piebalgs, and Commissioner for the Environment, Stavros Dimas. The aim of the package of proposals is to provide solutions to these challenges based on:

A true Internal Energy Market giving real choice for EU energy users and to trigger the huge investments needed. The Commission believes that the single market is good not just for competitiveness, but also sustainability and security. Investigations into competition and the internal market communication show that further action is required to deliver these aims through a clearer separation of energy production from energy distribution. It also calls for stronger independent regulatory control.

Accelerating the shift to low carbon energy by proposing a binding target of 20% of the EU's overall energy mix to be sourced from renewable energy by 2020. In addition, a renewables legislative package in 2007 will include specific measures to facilitate the market penetration of both biofuels and heating and cooling. To put EU industry at the forefront of the rapidly growing low carbon technology sector, the Commission proposes a strategic European Energy Technology Plan. The EU will also increase its annual spending on energy research for the next seven years by at least 50%. At present, nuclear electricity makes up 14% of EU energy consumption and 30% of EU electricity. Whilst underlining thought is that it is for each member state to decide whether or not to rely on nuclear electricity, the Commission recommends that where the level of nuclear energy reduces in the EU this must be offset by the introduction of other low-carbon energy sources.

Energy efficiency: where the Commission reiterates the objective of saving 20% of total primary energy consumption by 2020.

The Commission published a number of documents that form the basis of a European energy policy. Three of them relate specifically to renewable energy, a report on progress in renewable electricity, the Renewable Energy Roadmap and an impact assessment for the Roadmap:

The Report on Progress in Renewable Energy in which the Commission reports on the progress made by member states towards their individual targets set out in the Renewables Directive. It also assesses progress towards the overall target of 21% renewable electricity for the whole of the EU by 2010.

The Commission finds that EU is likely to achieve 19% - close to its 2010 target for renewable electricity (the EU target was reduced **from 22% overall to 21%** upon the accession of the 10 new member states).

Member states have different targets under the Directive; the UK's target (which includes large hydro, non-fossil fuel fraction of wastes and imports of renewable electricity, minus exports) is 10% renewable electricity by 2010. The report finds that there is a good chance of the UK meeting its 2010 target with additional effort (see table).

| Assessment | Member States |
|--|---|
| On track to meet 2010 target | Denmark, Germany, Hungary |
| Current developments provide a good opportunity to reach 2010 target | Finland, Ireland, Luxembourg, Spain, The Netherlands |
| Good chance of reaching the 2010 target with additional efforts | Czech Republic, Lithuania, Poland, Slovenia, Sweden, UK |
| Strong additional efforts needed to reach 2010 target | Belgium, Greece, Portugal |
| Far from commitment | Austria, Cyprus, Estonia, France, Italy, Latvia, Malta, Slovak Republic |

The principal source of renewable production is hydropower (large and small) but reports that there is very little opportunity for new large hydropower development. It notes that there has been slow growth in small-scale hydro partly due to the difficulties in gaining environmental consents. The Report concludes the level of support for renewable technologies is key in the achievement of the targets and that administrative processes should ensure that increases in renewable generation can be facilitated. The

Commission has begun proceedings against Austria, Cyprus, Greece, Italy and Latvia for not correctly implementing the Renewables Directive.

The report identifies the following areas for further action:

- Member States must fully implement the Renewables Directive
- Administrative barriers, unfair grid access and complex procedures should be lifted immediately
- In 2007 the Commission will re-examine support schemes to assess performance and the need for harmonisation.
- Rapid progress in the biomass sector is needed, CHP in particular
- A new legal framework for the promotion of renewable energy sources as set out in the Roadmap in 2007
- The Commission will work with grid authorities and regulators on better integration of renewables, and work should start on an offshore super grid.
- The internal electricity market should be developed in a way that is consistent with renewable electricity
- Renewable energy should be integrated into the Lisbon package on competitiveness, cohesion and rural development.

The Renewable Energy Roadmap is the Commission's long-term vision for renewable energy in the EU. The European Parliament and Council will need to ratify the proposals for them to become law. The Commission reports that the UEU is unlikely to meet the 12% target for renewable energy consumption (incorporating a target of 21% for renewable electricity as set out in the Renewables Directive) by 2010. The Commission estimates that 10% of total energy consumption will be from renewable sources with 19% of electricity coming from renewables.

The Commission finds that 34% of electricity consumption could come from renewable sources in 2020. Renewable energy use in the heating and cooling sector could increase to 18% (from 9%). Biofuels could contribute 14% of the market for transport fuels.

The Roadmap proposes:

- A mandatory target of 20% for renewable energy by 2020 broken down into mandatory national targets for each member state, within they will be able to decide which sectors they are best placed to promote most effectively.
- A legally binding minimum 10% biofuels target within the overall renewables target of 20%.
- Re-assessment of support schemes for renewable electricity in 2007 to determine their success; harmonisation should be the long-term objective. This earlier than expected re-examination means that schemes could be harmonised from 2014.

Legislation establishing the minimum biofuels targets and provisions to facilitate the meeting of the 20% target will be developed in 2007.

The roadmap outlines some specific proposals to achieve increased take up of renewables:

- Remove barriers to development
- Simplify grid connections
- Simplify consenting regimes
- Reduce red tape on building regulations
- Differential support schemes for biofuels to discourage the uses with the worst environmental impact (to avoid imports of palm oil)
- Improve offshore cross border transmission connections

The Roadmap says that member states and regional authorities should ensure that consenting procedures are simple, rapid and fair. They should set up one-stop-shops for authorisations and establish which locations are suitable for the development of renewable energies. Renewable energy should be integrated into local and regional plans. Longer-term targets for renewable energy out to 2030 and 2050 should be considered as part of the development of the EU's energy policy.

Renewable Energy Roadmap – Impact Assessment On the basis of business as usual the Commission estimates that renewable energy

will grow from 6.5% at present to between 10.4% and 12.6% in 2020. In the impact assessment the Commission notes that external costs (local pollutants, health, nuclear waste, crop damage, accident prevention etc) of conventional energy are not fully internalised in market energy costs distorting price signals against renewables leading to sub-optimal renewable energy production.

The Commission's view, is that legislation and targets have a positive impact on increasing the uptake of renewable energy, and concludes that a regulated approach to the promotion of renewable energy is necessary. Legally binding target for renewable energy with targets for biofuels should be set. Depending on the price of oil and carbon allowances (higher oil and carbon prices reduce significantly the additional costs of meeting the target), the impact assessment estimates that the additional cost of meeting the 2020 target will be between €24bn and €31bn per year as opposed to the business as usual case (13% renewables) cost of €13bn.

The full set of Commission papers can be found at: http://ec.europa.eu/energy/energy_policy/index_en.htm

Source: Adrian Abbott, Policy & Consultations Manager BHA

Pair Invent Revolutionary Waterwheel

Ian Gilmartin a South Lakeland Inventor, and Bob Gattley a PHD student at Lancaster University have invented a 21st century mini waterwheel which can generate a minimum of 24kw of energy a day and run in shallows of 20cm. Unlike conventional wheels that allow water to escape as they rotate, the Beck Mickle Hydro generator contains the water for the full drop converting around 70% into usable electricity.

Mr Gilmartin managed to secure a £15000 grant from the Lake District National Park Authorities Sustainable Fund to develop the wheel. The 1st prototype, made of yoghurt pots and wheelie bins, was tested at a National Trust education centre near Windermere with later prototypes being tested for commercial potential by engineers at Lancaster University, where Bob Gattley helped to perfect the wheel.

The wheel impressed crowds at the London Olympian Renewable Exhibition and has been taken up by a Yorkshire based sustainable energy

company. The Beck Mickle Hydro generator is due to go on sale by the end of 2007.

Mr. Gilmartin said he was looking forward to seeing it hit the shelves and, despite the cost of £2000 + installation, said he believed that it would pay for itself in 2 years.



Mr Gilmartin with his waterwheel invention

Source: Nicki Salmond BHA

Summary on the 2006 UK Gas and Power Market

In the wholesale power and gas sectors, falling prices was the common thread running throughout 2006 and this trend has continued thus far in 2007.

Last year began still smarting from the impact of record high prices experienced at the end of 2005, when a combination of cold snap long-range weather forecasts, rumours over Russian-influenced supply restrictions, concern that European players were favouring domestic sales over exports to the UK, capacity shortfall on the Interconnector and other import projects plus an actual lack of physical storage in the UK all played their part in making the gas price climb to over £1/therm.

As 2006 progressed however, virtually each one of these concerns was laid to rest. Russia and the big foreign-owned utilities confirmed their commitment to supplying the UK; two major new import projects (Langed to Easington and the BBL pipeline) were both completed on schedule, handling around 70mcm/day and 25mcm/day respectively – *mcm = million cubic metre*) as was the additional storage capacity at the Rough terminal.

So with more gas in the market during 2006 than originally anticipated at the end of 2005, prices eased over the period, with Q4 prices still below 30p/therm, further softened by an

exceptionally mild winter. Q1 2007 prices are currently at around 40p/therm with Winter 2007 not much higher at around the 50p/therm mark.

Moving onto the power market, electricity prices traditionally follow gas price movements and 2006 has been no exception, trading down to the current lows. The exceptions have been when the EU emissions price has had step changes or short-term supply issues have affected the prompt price.

Spark spreads (i.e. the difference between the costs of gas, taking into account generation efficiency, and the price of power). have, in general, remained range-bound down the curve with volatility being experienced in the prompt and near-term contracts as physical system issues dictate price rather than fuel costs.

The mild weather, associated demand profiles and healthy generation margins have all given downward pressure on the curve, as have the new supplies coming online in the gas market. The wholesale price has fallen around 30% over the last 12 months, reflecting a similar reduction in the forward gas curve and so far 2007 shows no sign of bucking this trend. For further information, please contact Tim Foster at tim-foster@smartestenergy.com

Source: Tim Foster Vice Chairman BHA

Rolling Annual Wholesale Electricity Contract



EXPOsure

Hydro News from around the globe

Canada - Hydroelectric Generation Projects



Run of River Power Inc. has identified several key geographic locations, relatively close to the city of Vancouver, where the greatest demand for power in the province occurs. Through investigation and acquisition, the Corporation has secured the rights to develop 12 sites representing in excess of 170MW of estimated capacity when developed or enough electricity to service approximately 65,000 homes annually.

Development of Pitt River 15 MW Power Cluster Projects including:

- Pinecone Creek would produce approximately 70,600 MWh of green energy per annum.
- Shale Creek would produce approximately 55,900 MWh of green energy per annum.
- Homer Creek would produce approximately 53,900 MWh of green energy per annum.
- Boise Creek would produce approximately 44,100 MWh of green energy per annum.
- Steve Creek would produce approximately 45,100 MWh of green energy per annum.
- Corbold Creek project will create enough water pressure to drive two 15 MW generators or 84,900 MWh's of energy per annum. Construction Start January 2008.

Status: initial field studies are complete. Environmental application and public information sessions to commence. Detailed engineering design and construction schedules are undefined. Further update June/July 2007.

Development of Mamquam River Cluster 9.9, 16, and 7 MW Projects including:

- Raffuse Creek would produce approximately 36,500 MWh of green energy per annum. Construction start May 2007. Further update February 2007.
- Skookum Creek would produce approximately 55,200 MWh of green energy per annum. Construction starts 2008. Further update June/July 2007.
- Crawford Creek would produce approximately 21,200 MWh of green energy per annum. Construction starts January 2008. Further update June/July 2007.

Status: initial field studies are complete and environmental application made by January 2007. Public information sessions have commenced. Detailed engineering design and construction schedules are undefined.

Future Development Project:

- Gott Creek project consists of an intake at 1450m, which feeds a 3,200m penstock, with 340m of head delivering enough water pressure to drive a 10 MW plant capacity. This is a future conceptual project. Engineering design and construction schedules are undefined. Further update Winter 2007.

Contact Details: Miss Jako Krushnisky, President & CEO. Run of River Power Inc. 202-4882 Delta Street, Delta, British Columbia. Canada. V4K 2T8. Tel: 604 946 9232 Fax: 604 946 9250 Email: jako@runofriverpower.com Website: <http://www.runofriverpower.com>

Source: UKTI Alerts, 3rd Jan 2007

Study of Emerging Markets in the Environmental Industries Sector

DTI and Defra have, jointly, published a report on a *Study of Emerging Markets in the Environmental Industries Sector* undertaken for them by UK CEED. The full report, which has not been published in hard copy but is available on the DTI website at: www.dti.gov.uk/sectors/environmental/index.html, has three purposes:

- To estimate the size of the UK and global markets

- To give a précis of UK supply-base strengths and weaknesses in environmental goods and services (EGS)
- To identify and analyse promising areas in the Environmental Goods and Services sector where new opportunities are likely to occur.

The Report identifies a significant global market estimated to have been worth US \$548bn in 2004 and it is expected to grow by 45% by 2015. The USA, EU and Japan currently dominate the market but the emerging economies of China and India are making rapid strides in this sector. The UK EGS sector is well established vibrant and diverse with an annual turnover of £25bn in 2005,

which is expected to grow to £46bn by 2015. Although renewable energy represents a small part of the sector, the Report recognises that it offers both large domestic and global market

opportunities and notes UK strengths in hydro engineering.

*Source: Adrian Abbott, Policy & Consultations Manager
BHA*

Water Power in Pakistan

Energy Institute's International Platinum Award 2006

Winner of the Energy Institute's International Platinum Award 2006, the Ghazi-Barotha Hydropower Project in Pakistan is destined to provide an example for future projects in Pakistan and beyond, not least for its focus on the social and economic needs of village communities. Mott MacDonald was very honoured to accept the award on behalf of the client, WAPDA and the project Engineer, Pakistan Hydro Consultants (PHC). Mott MacDonald, as a partner of PHC, has been involved in the development of Ghazi-Barotha for more than 14 years.



*Ghazi-Barotha Hydropower Project in Pakistan
Source: National Engineering Services Pakistan (Pvt.) Limited*

Quantities of indigenous oil, gas or fossil fuels in Pakistan are limited, so expansion in generating capacity must be based on hydropower to minimise fuel imports. The 1450 MW Ghazi-Barotha project on the Indus River fulfils this vital need. From the outset, the national utility Water and Power Development Authority (WAPDA) placed great emphasis on the rural community. Consultative meetings were held with public representatives, those affected by the project and non-governmental organisations in order to address adverse environmental and social effects. Because the power channel location was carefully chosen to run through the foothills avoiding villages, only 110 families had to be relocated. Affected families received money to build new houses in three specially developed villages.

Pakistan has over 600 km of link canals conveying water from one river to another and in most cases excavation material was dumped on the banks, creating wastelands. For the first time in Pakistan, material excavated on the project was used to create spoil banks topped with cultivatable soil to act as farmland. WAPDA also plans to provide tubewells for irrigation.

Another innovation enabled the size of the power channel to be kept to a minimum. Water flows from this into the forebay of the power complex and is stored in headponds with a combined capacity of 25.5 million m³. The ponds augment the 1600 cumecs of discharge from the channel to 2200 cumecs, thereby providing enough water to operate the power plant (five 290 MW turbine generators) at its full capacity every day throughout the peak demand period.

Source: Mott MacDonald



CURRENT CONSULTATIONS

Full details of the following consultations have been sent to you by separate email. Should you wish to receive these details again, please contact the BHA. Responses to be sent to info:british-hydro.org.

- **River Welland Catchment Flood Management Plan** - comments for inclusion in the BHA response to reach us by 16th February 2007
- **North Norfolk Catchment Flood Management Plan, summary document consultation** - The Environment Agency has published the summary document on the Catchment Flood Management Plan (CFMP) for the North Norfolk area. The full scoping report can be viewed on the EA website: www.environment-agency.gov.uk/regions/anglian. Copies can be obtained from Environment Agency, Kingfisher Houses, Goldhay Way, Orton Goldhay, Peterborough PE2 5ZR (Tel: 08708 506 506; Fax: 01733 231 840). Responses can be made directly to Duncan Campbell, North Norfolk CFMP Project Manager, Environment Agency, Kingfisher House, Goldhay Way, Orton Goldhay, Peterborough, PE2 5ZR by 2nd March 2007. Comments can also be e-mailed to: northnorfolkcfmpconsultation@environment-agency.gov.uk
- **Usk CAMS** - The Environment Agency Wales has published the Statement of Responses to the consultation on the Usk CAMS. There were seven respondents (including the BHA). In answering our concerns on licensing, the Agency said: *" Applications for hydropower schemes will be subject to the same license determination process as any other applicant..... All new licenses will be issued on a time limited basis with a common end date (expiry date)...Normally, the renewal period for time limited licenses is 12 years, however, there may be situations where shorter or longer time limits may be justified....prior to renewal three criteria must be satisfied 1) that environmental sustainability is not in question, 2) there is a continued justification of need for the water and 3) the water is to be used efficiently."*
- **Esk and Coast CAMS** - The Environment Agency (EA) has published the Esk and Coast CAMS covers the catchment of the river Esk which rises in the Cleveland Hills and North York Moors and flows eastward reaching the North Sea at Whitby. The population of the catchment is relatively small. The main economic activities are tourism and agriculture.
The closing date for responses is 23rd March 2007. Copies of the consultation document are available from the EA (Regulatory Officer (CAMS), Water Resources, Coverdale House, Aviator Court, Amy Johnson Way, Clifton Moor, York, YO30 4GZ. Tel: 01904 822616; e-mail: cams.dales@environment-agency.gov.uk) or can be viewed on line at: www.environment-agency.gov.uk/cams .
We shall prepare a collective response. If you have comments or views you would like us to include in our response please submit them to the Secretariat by Friday 16th March.
- **Tamar CAMS** - The Environment Agency (EA) has published the Tamar CAMS, which, covering approximately 1,834km, is the largest of the Cornwall Area CAMS. The River Tamar forms the natural boundary between the counties of Devon and Cornwall. Other rivers in the area include the rivers Inny, Kensey, Ottery, Wolf, Thrushel, Lyd, Tiddy, Lynher, Tavy, Plym and Yealm. Within the CAMS are the city of Plymouth and the market towns of Launceston, Holsworthy and Tavistock. The headwaters are largely rural moorland of Bodmin Moor and Dartmoor. The principal abstractions are for public water supply, extractive industries and agriculture.
The closing date for responses is 1st February 2007. Copies of the consultation document are available from the EA (Regulatory and Technical (Water Resources), Sir John Moore House, Victoria Square, Bodmin, Cornwall PL31 1EB. Tel: 08708 506506; Fax: 01208 78321; e-mail: cams.cornwall@environment-agency.gov.uk).



TRADE LEADS

VIETNAM – Song Da Corporation invites eligible bidders to the supply of complete electro-mechanical equipment and technical services for Nam Ngan Hydropower Project. Closing date: 2007-02-27 00:00:00. Please respond in English to Mr Song Da Corporation, Song Da Corporation, Room 406, G10 Building, Thanh Xuan Nam, Hanoi, Vietnam. Tel +84- - 4 – 5521226

NIGERIA – Partnership with us in generating, transmission and distribution of energy projects in Nigeria. Contact Adeoye Ipaye 25 Kayode Arikawe Street, Nigeria 23401. Tel: + 234 8033 763510 email: ipaye288@yahoo.com

PORTUGAL – Equipment supply for new hydropower plant. Tender number: 18/PNC-RQ/2006. Cost of tender documents: 2500Euros plus VAT. Closing date for purchasing tender documents: 2007-04-20 00:00:00. Closing date: 2007-05-02 00:00:00. Please respond in Portuguese to Mr António Freitas da Costa EDP – Gestão da Produção de Energia, SA, Rua do Bolhão, 36, 3º, 4000-111 Porto, Porto, Portugal. Tel: +351 220 013 193 Fax: +351 220 013 509 Email: antoniofreitas.costa@edp.pt Website: <http://www.edp.pt>

PHILIPPINES - Power Firm and Norwegian Partner, To Expand Hydro Plant. Power firm Aboitiz Power Corp. and its Norwegian partner SN Power Corp. plan to expand the capacity of the 360 MW Magat hydroelectric power plant. Preliminary studies are on-going, in order for the expansion to take place as soon and as reasonable as possible. Contact Details Mr Fidal Ventura, British Embassy Manila, 17th Floor, LV Locsin Building, 6752 Ayala Avenue, Makati City, Philippines. Tel: +63 2 580 1236 Fax: +63 2 815 6233 Email: Fidel.Ventura@fco.gov.uk



Member Discounts

THE INTERNATIONAL JOURNAL ON
**HYDROPOWER
& DAMS**

Hydropower & Dams

subscription. Hydropower & Dams are offering a discount on subscriptions to the industry journal International Hydropower & Dams for BHA members. The discounted annual rate is £80 (full price £105) and the discounted 3-year subscription rate is £200 (full price £263). BHA members wishing to take this offer up just need to mark their subscription form "BHA Member" and, once their subscriptions department has confirmed BHA membership with us, they will receive the journal at the discounted rate.

**quoteline[®]
DIRECT**

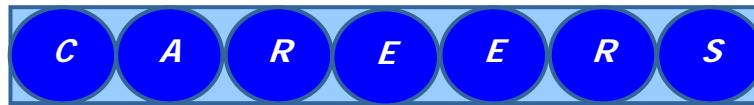
Quoteline Direct are offering BHA members Gold Club Insurance. The Gold Club scheme is negotiated with over 35 of the UK's largest insurers and offers top quality cover and service with savings of up to 35%. BHA members will get the cheapest quote from over 450 policies on motor, home, travel, van, motorcycle, plus many other optional benefits, such as Vehicle Breakdown Cover, RAC Warranty and lots more. To obtain a quotation, please call Quoteline Direct on 0870 444 2519, quoting a reference of BRHY, or you can visit our web site on <http://www.quotelinedirect.com/goldclub> and obtain an on-line and interactive quote. Quoteline Direct are part of the Wilsons Insurance Group established in 1969.



New Members



Spatial Data Ltd, providing full topographical, measured building, monitoring, boundary demarcation, asset and facilities management and engineering surveying services for planning applications, new build, conversion and asset & property management. Based in Kendal, Cumbria they have experience across the UK, Europe, The Caribbean, Middle East, Canada and Antarctica. **Mr John Hunt BSc.N.Sch**, an individual member based in Lincolnshire who has a small hydro plant in France.



Situations Vacant

Renewable Energy Opportunities - Hydroplan: Hydroplan is a leading engineering and environmental consultancy specialising in Renewable Energy with a focus on hydropower and wind energy. They are currently expanding their team and are looking for the following to work in our Fort William office:

- **Project Engineer** ideally with a HND or degree level qualification and a minimum of 2 years relevant post-qualification experience. You will have excellent written communication skills and a high level of skill with Microsoft Office, especially Excel and Word. A working knowledge of Illustration software and AutoCad would also be very useful. The scope of the job will depend on your skills and experience but the core elements will include preliminary sizing of small hydroelectric and wind power schemes; production of reports (feasibility through to technical detail); detailed specification of power station components (including BOMs); production of outline scheme designs for Planning Applications; some site work (survey through to commissioning); managing and progress chasing suppliers and service providers. It is likely that you will have a mechanical or civil background and will have experience with a bespoke product, manufacturer or contractor. The job will be varied and will draw upon both your technical and people skills.

More information about Hydroplan can be found at www.hydroplan.co.uk. Please send your CV stating your current/expected salary and a brief covering letter providing your thoughts about Renewable Energy to Audrey Wiles, Unit 12 Riverside Park, Station Road, Wimborne, Dorset, BH21 1QU. info@hydroplan.co.uk

Situations Wanted

- **Civil Engineer** I have completed my bachelor degree thesis in Small Hydro Power Project in Nepal. Recently I am working in the biggest hydropower project in Nepal called Middle Marsyangdi Hydro electric Project from international contractor called Dywidag-Dracados-CWE (JV). I have three years of experience in the field of hydropower. I am looking for a new job opportunity anywhere in world. Bikash Kumar Agrawal, Lahan-7, Siraha, Sagarmatha, Nepal. Tel:00977-19-542520 Fax: 00977-19-542519 email bikash_engg@hotmail.com
- **Polish electrical engineer** looking for a job abroad. Piotr Broda, iczna Street 4/32, 35-326 Rzeszów, POLAND Tel: +48 697 25 00 84 email broda.piotr@gmail.com



20 BAR PIPE FOR SALE. PE100 / SDR9. 630 mm OD. 480 mm ID. Contact Henry Beaver Tel: 01694 751 265

Forthcoming Events

Scottish Trade Fair - Fife Council is planning an Energy Fair with Changeworks

Saturday 3rd February 2007 - Rothes Halls, Glenrothes

For details please contact Fenella McEwan, Environmental Services Fife Council, Fife KY7 5LY Tel: 01592 413348

Email: fenella.mcewan@fife.gov.uk

Energy Entrepreneurs Event – Free event organised by Energise

Wednesday 21st February 2007 - Arc Conference Centre Basingstoke

For details please contact Tel: 01293 813 911

Email: energise@envirobusiness.co.uk

BHA Micro-hydro Seminar – NORTH WEST

March 2007 – London (details to be confirmed)

For details of how to participate, please contact Ellan Parry at the BHA – tel: 01202 880333 or email: info@british-hydro.org

5th International Conference on Dam Engineering

14th to 16th February 2007 – Congress Centre of LNEC, Lisbon, Portugal

For more details contact: The Conference Director (DMO7), CI-Premier Pte Ltd, 150 Orchard Road #7-14, Orchard Plaza, Singapore

238841; Tel: (065) 67332922; Fax: (065) 62353530;

Email: cipremie@singnet.com.sg

BHA Micro-hydro Seminar – NORTHERN IRELAND

April 2007 – (details to be confirmed)

For details of how to participate, please contact Ellan Parry at the BHA – tel: 01202 880333 or email: info@british-hydro.org

BHA Finance Seminar

April 2007 – London (details to be confirmed)

For details of how to participate, please contact Ellan Parry at the BHA – tel: 01202 880333 or email: info@british-hydro.org

All Energy 2007

23rd to 24th May 2007 – Aberdeen, Scotland

Hydropower Workshop presented by BHA

For more details contact: Email: info@all-energy.co.uk

World Congress on Advancing Sustainable Hydropower

29th-31st May 2007, Antalya, Turkey

Call for papers open until 20th November 2006

Email papers to iha@hydropower.org

Or Fax to 0208 770 1744

For further information see: www.hydropower.org

BHA Micro-hydro Seminar – DEVON

6th June 2007 – University of Plymouth

For details of how to participate, please contact Ellan Parry at the BHA – tel: 01202 880333 or email: info@british-hydro.org

Waterpower XV

23rd-26th July 2007 – Chattanooga, USA

UK Pavilion organised by BHA

For details of how to participate, please contact Ellan Parry at the BHA – tel: 01202 880333 or email: info@british-hydro.org

Hydro 2007

15th-17th October in Granada, Spain

UK Pavilion organised by BHA

For details please contact Ellan Parry at the BHA – tel: 01202 880333 or email: info@british-hydro.org

BHA Micro-hydro Seminar – CORNWALL

November 2007 Cornwall (details to be confirmed)

For details of how to participate, please contact Ellan Parry at the BHA – tel: 01202 880333 or email: info@british-hydro.org

20th World Energy Congress - The Energy Future in an Interdependent World

11th-15th November 2007, Rome

Call for papers and posters open until 31st December 2006

For further information see: www.rome2007.it

BHA Micro-hydro Seminar – EDINBURGH

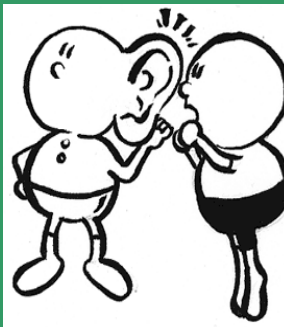
8th December 2007 (details to be confirmed)

For details of how to participate, please contact Ellan Parry at the BHA – tel: 01202 880333 or email: info@british-hydro.org

Scottish Green Energy Awards

8th December 2007 – The Royal Museum, Chamber Street Edinburgh

For more details please contact Ellan Parry at the BHA – tel: 01202 880333 or email: info@british-hydro.org



We want to hear from you!

- Share your successes and experiences with other BHA members in our newsletter.
- BHA are frequently requested to provide pieces for other publications and we would like to promote our members by providing articles produced by you.

So don't forget – if you have any interesting stories, facts or thoughts, please send them to us – with pictures where possible – and we will endeavour to get them published. We can also advertise your job vacancies and future events - info@british-hydro.org

British Hydropower Association
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Wimborne, Dorset BH21 1QU
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info@british-hydro.org

The information contained in this publication is correct to the best of our knowledge. However, we rely on information sources that are outside our control. The BHA is an independent organisation and does not specifically endorse products, services or organisations that are featured or mentioned. The BHA is the trade association representing the interests of all those involved in the UK Hydro Industry.

BHA promotes the industry at home and abroad and aims to increase the awareness of its quality and scope in the wider world.