

23-26 May 2012  
Wrocław, Poland



# hidroenergia 2012

water power  life



## First Announcement & Call for Papers International Congress and Trade Fair on Small Hydropower

The congress and trade fair are jointly organized by:

**ESHA – European Small Hydropower Association**

**TRMEW – Polish Association for Small Hydropower Development**



Patronage:

**Wrocław University of Technology**

**Institute of Fluid-Flow Machinery PAS**



Wrocław  
University  
of Technology



# hidroenergia 2012

**With its traceable history reaching ancient Middle East and the efficiency of some modern hydraulic turbines exceeding 94 %, hydropower may be truly considered the most mature renewable energy technology. Paradoxically, this technology is exposed to harsh criticism and the most demanding challenges today...**

The essential reason is the global concern with consequences of disrupting the ecological equilibrium - an issue insufficiently recognised in the past. In fact, since several decades the newly designed hydropower installations represent a new quality in respect to protection of both the aquatic life and the river bed. The mode of running the already existing plants takes these aspects into account as well.

The hydro energy sector constantly invents new technologies which seek a new balance between plant performance and its environmental impact. This is notably the case in the small hydro sector which has seen completely new hydraulic unit designs developed within the last two decades.

Despite all technological innovation and enhancements, this progress was not able to correct the sector's tarnished image in the eyes of policy makers subjected to strong pressure from influential green lobbies, regularly ignoring the beneficial effects of the hydropower installations on the environment, human life and economy. The lack of a balanced consideration of various environmental, social and economic priorities when taking decisions on the hydropower future is probably the greatest threat for the sector today.

With 2012 being the International Year for Sustainable Energy for All, the overarching theme of hidroenergia 2012 will be the active promotion of the positive image of the sector and the advocacy for reasonable compromises in the new legislative and political acts. The future of the sector in the context of current renewable energy and environmental policy trends is another vital issue.

If you feel concerned about the hydropower situation or if you want to enhance your business, then hidroenergia 2012 is the event you should not miss!

**Hydroenergia 2012 brings you the latest hydro trends and developments!**

**Economics** including investment opportunities & challenges, financing tools & models

**Latest policy developments** with SHP role in future energy & grid scenarios, Water Framework Directive (WFD)

**New trends in civil engineering** with bioengineering & prefabrication

**Latest innovations & technological development** with penstocks, turbines & auxiliary mechanical equipment

**Environmental concerns & tackling public acceptance** including impact of WFD and certification

**Contemporary exploitation concepts** such as SHP pumped storage and multipurpose plants

**Hydropower Resources and assessment methodologies** with rehabilitation & upgrading and new assessment tools

Hydroenergia 2012 is jointly organised by the European Small Hydropower Association (ESHA) and the Polish Association for Small Hydropower Development (TRMEW). The organisers expect the hidroenergia congress to promote the European and Polish hydropower sector in various aspects. Therefore, some new components were added to the traditional event schedule such as the transformation of the hidroenergia exhibition into a regular trade fair, an open day for the general public and the Hydro-Logical Festival - an accompanying promotion and education event addressed mainly to schoolchildren and the wider public.

## ● Location:

The event venue will be the Regional Centre for Business Tourism (RCTB) in Wrocław. The RCTB Pavilion is situated in direct neighbourhood of the Centennial Hall erected in 1913 to commemorate the struggle against Napoleon.

With over 640,000 inhabitants Wrocław is the fourth biggest Polish city as well as a cultural, economic and administrative centre of the Lower Silesia region.

Situated strategically between Berlin, Prague and Warsaw, Wrocław has well-developed airline and railway connections with the rest of Europe. The A4 highway provides a swift car connection with Germany and the Upper Silesia region. The internal transportation and hotel infrastructure is subject of intense development in view of the forthcoming Euro 2012 Football Championship.

# hidroenergia 2012

## ● Timetable:

	Morning	Afternoon	Evening
Wednesday, May 23rd	A guided tour through the Old Town of Wrocław	Exhibition set-up Delegate registration	Welcome cocktail
Thursday, May 24th	Opening session <hr/> Trade Fair (all day) /	Parallel sessions <hr/> Hydro-Logical Festival	Gala dinner/ Multimedia fountain show
Friday, May 25th	Parallel sessions Poster session <hr/> Trade Fair (Open Day) /	Parallel sessions Closing session <hr/> Hydro-Logical Festival	Outdoor event - bonfires in the vicinity of Wrocław
Saturday, May 26th	Study tour		

## ● Trade Fair:

Hidroenergia exhibitions have been traditionally a significant meeting place of hydropower investors with equipment suppliers and various hydro-oriented services. With the new trade fair formula we expect to even extend the spectrum of exhibitors by inviting companies for which hydro may represent only one of several groups of customers.

The exhibitors will be offered an area of more than 700m<sup>2</sup> with multimedia connection. An exhibition area for full-scale products will be offered in the outer space under the pergola and in front of the RCTB Centre. Please consult the Guides for Exhibitors and Sponsors available at the hidroenergia 2012 website or contact us directly via e-mail or telephone for further details.

## ● Hydro-Logical Festival:

The Hydro-Logical Festival is a new initiative addressed to schoolchildren, teachers, families and those interested in natural protection issues. Exhibitors will include ecological centres and agencies, schools and didactic centres, government and local administration bodies, NGOs, tourist offices etc.

Competitions, didactic games, ecological workshops, film presentations, study trips and other activities are planned. Please consult the hidroenergia 2012 website or contact us directly via e-mail or phone call for further details.

## ● Study tour:

The study tour is a traditional component of hidroenergia events. The organisers presently evaluate several options, including visits to a construction site of a 9 MW low head small hydropower plant at the Oder river or other new or rehabilitated low-head sites.

Another option is an excursion on the "historical route" showing some picturesque installations in the Sudety mountain range. Please visit the hidroenergia 2012 website for latest updates.

## ● Accompanying Persons tour:

A half-day guided city tour is proposed to accompanying persons in addition to the 2 hour walk for those coming early on May 23rd. The city tour will cover the most significant cultural monuments of Wrocław, including the Old Market, the Cathedral Isle and the Leopold Hall at Wrocław University premises.

A full day trip will bring you to some significant historical and cultural attractions of the Lower Silesia region: the Church of Peace in Swidnica erected by Silesian protestants in the mid of the 13th century as well as the Ksiaz Castle – a large fortress at the foothills of Sudety mountain range with a history reaching back to the 13th century.

## ● Contact:

Event registration will start in September 2011 via the hidroenergia website. Alternatively, you are invited to complete the enclosed registration sheet and to send it to the event organisers. Please use the following addresses:

**hidroenergia 2012**

**Bogusław Janik – Congress Manager**

**Osobowicka 129 street**

**51-004 Wrocław, Poland**

**For abstract submission:** [abstracts@hidroenergia.eu](mailto:abstracts@hidroenergia.eu)

**For exhibition & sponsoring:** [info@hidroenergia.eu](mailto:info@hidroenergia.eu)

**For registration:** [info@hidroenergia.eu](mailto:info@hidroenergia.eu)

You are invited to contribute to the congress proceedings with a paper on one or more topics from the following comprehensive list of categories:

## 1. Hydropower resources and assessment methodologies

- a. Hydropower exploitation in developing countries
- b. Rehabilitation and upgrading
- c. Greenfield projects and case studies
- d. New assessment tools
- e. Legal / procedural restrictions

## 2. Latest policy developments

- a. Current status: Water Framework Directive
- b. Hydropower's role in the European future energy scenarios
- c. Balancing energy and environmental targets
- d. Certification – threat or stimulation?
- e. SHP's role in future grid development

## 3. Hydropower and the environment

- a. Sustainable water management
- b. Upstream and downstream fish migration
- c. Hydropower and environmental constraints (Natura 2000, protected areas)
- d. Ecologic and economic impact of mitigation measures
- e. Tackling public acceptance

## 4. Economic issues in hydropower

- a. Financing tools and models
- b. Investing in SHP: Opportunities and challenges
- c. Hydropower support systems (feed in tariff, investment subsidies, green certificates...)
- d. Participation concepts

## 5. Contemporary exploitation concepts

- a. Multi-purpose plants
- b. Energy recuperation plants
- c. Hydro storage and SHP pumped storage
- d. Use of already existing facilities

## 6. Innovative technologies

- a. Auxiliary mechanical equipment
- b. Penstocks
- c. Turbines
- d. Electrical equipment
- e. Supervision and control systems
- f. Hydraulic and mechanical design methods
- g. Performance and diagnostic tests

## 7. New trends in civil engineering

- a. The modular approach
- b. Bioengineering
- c. Prefabrication

## 8. Engineering, lessons learned and education

- a. Failures and accidents
- b. Cost reduction
- c. Decision making
- d. Project management
- e. Public incorporation
- f. Studies and courses
- g. Technology and knowledge transfer

Your paper will be assessed by the **Hidroenergia Scientific Committee** based on your submitted abstract. If approved, it will be preliminarily recommended for publication and presentation. Authors are requested to clearly present the topic, their main thesis and the main content of their paper in their abstract. Authors are further invited to suggest the most relevant topic category (categories) and the presentation form choosing from the following two options:

## ● Presentation:

**A 12 minute multimedia presentation (preferably MS Power Point) with an emphasis on sharing new ideas and results.**

## ● Poster presentation:

**There will be one or two poster sessions. The sessions will start with a series of 2-3 minutes presentations (2 or 3 slides) introducing the audience into the subject of posters. Afterwards, the authors will be invited to proceed to their stands in order to provide detailed explanations to delegates.**

With the author's agreement, PDF versions of your presentations will be made available for download from the hidroenergia website.

The Scientific Committee will try to follow your suggestions. The possibility to reject the paper after the abstract has been accepted is reserved for extreme cases. However, the decision on the form of presentation and topic category may be changed after the full-version paper has been received.

All abstracts must be in English and should be electronically submitted in PDF or MS Word format to **abstracts@hidroenergia.eu** prior to the 30th of October 2011. The decisions of the Scientific Committee will be communicated latest by the 15th of January 2011.

Abstracts should not exceed two A4 pages including pictures, graphs and tables and should be written in a readable font size (e.g. Arial 10 or equivalent). They must include:

- The title of the proposed paper
- An overview of the paper emphasizing the topic, contents and results/theses
- The topic category relevant for your paper
- Author(s) information: name(s), job title(s), organization(s), e-mail address(es), postal mailing address(es), telephone(s) and fax(s). A short CV (4-5 lines) per author. If the abstract is presented by more than one author, please also indicate one of them as contact person.

**We look forward to receiving your paper soon!**