



EUROPEAN SMALL HYDROPOWER ASSOCIATION

Overview of SHP activities in Europe

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ESHA – European Small Hydropower Association

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What is ESHA?

- Non-profit Organisation, founded 1989
- Headquarters in Renewable Energy House in Brussels
- Founding Member of EREC
- Members in EU countries
 - National SHP associations
 - SHP industry (manufacturers, etc.)
 - Scientific community
 - Individual members





ESHA objectives

- Promotion of SHP with an installed capacity up to 10 MW
- Lobbying for SHP on European level (European Parliament, European Commission, etc)
- Information dissemination and awareness raising for SHP issues





ESHA activities

- Lobbying for SHP interests (policy position papers)
- Information dissemination on SHP issues
 - Newsletter, articles
 - Hydroenergia conferences (Scotland 7-9 June 2006)
 - SHP seminars
 - Website www.eshabe.com
- Studies on SHP issues
- International cooperation IN-SHP (China), TERI (India)
- European projects (in partnership with other organisations and EREC)



European support programmes for RES



- Different European programs for supporting activities in the field of renewable energy in general and SHP in particular (i.e)
 - IEI (is the Community's **support programme for non-technological actions** in the field of energy efficiency and renewable energy sources. (2003-2006)
 - **Research Framework programmes:**
 - (FP5- 1998-2002)
 - (FP6- 2002-2006)
 - (FP7-2007-2013)





ESHA current and past SHP projects

Current projects	Past projects
Thematic Network on SHP (TNSHP) SPLASH project Synergy with China	PREDAC Blue Age TACIS





TNSHP- Context

- ✓ Funded by the European Commission, DG TREN (Transport & Energy).
- ✓ Framework: EU's FP5 (Fifth Framework Programme for Research, Technological Development and Demonstration).
- ✓ Coordinated by ESHA with 10 partners (ÖVFK, MHyLab, SCPTH, ADEME, IT Power, LHA, Studio Frosio, EPFL-LCH, ISET and SERO)





TNSHP- Context

- ✓ 3 years project (running for 2 years) and periodically submission of reports to the EC
- ✓ The first time a complete programme of networking activities have been proposed for the SHP sector
- ✓ Opportunity of the SHP sector to contribute to the European research area
- ✓ The project deliverables are reported to the Commission to meet the Commission's need for RD&D priority and policy information



TNSHP-Objectives



To identify future research and market needs of SHP sectors within **Europe and Candidate Countries** in order to overcome **Barriers & promote Better Exploitation of the resource** as regards the :

- Cost
- Environmental integration
- Public Acceptance
- Integration into energy systems
- Technological issues
- Fulfilment of White Paper: 14 GW in 2010 of installed capacity. +4.500 MW regarding 9.500 MW installed in 1995





TNSHP- Key Themes

- A) Marketing for SHP** (Political, market issues, SHP statistics)
- B) Environmental integration** (Integrated design, bioengineering, reserve flow, env. legislation,)
- C) Engineering aspects** (Civil engineering, mechanical and electrical equipment)





TNSHP-outputs

- ✓ **Strategy document on EU RD&D activities and needs. Annual**
- ✓ **Layman's Guide in German, French, English and Swedish (2005)**
- ✓ **Checklist for SHP developers in French, German English and Italian (2005)**
- ✓ **SHP situation in Candidate Countries (2004)**
- ✓ **Brochure on Environmental aspects of SHP in English, Italian and German (2005)**





TNSHP- outputs

- ✓ **Report on SHP situation in developing countries:**
Sustainable Markets for Small Hydro Power in Developing Countries
 - ✓ Analyses the current situation of SHP internationally and factors that will allow the European SHP industry to participate in the market potential in developing countries, promoting mechanisms that build a strong and long-term market for SHP in key developing countries.



TNSHP seminars

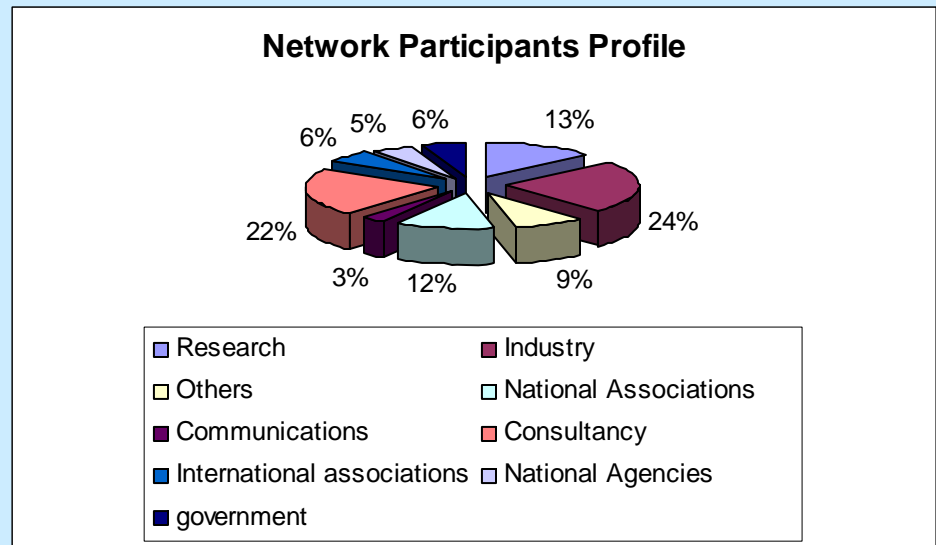
- ✓ **Information dissemination** through the organisation of conferences and workshops
 - ✓ June 2004. **Workshop on SHP and Public Image**, Falkenberg, Sweden
 - ✓ October 2004, **workshop on Fish ladders and Small Hydropower**, Vienna, Austria
 - ✓ 19th October 2004, **Workshop on R&D strategy and needs** for the SHP sector, Porto, Portugal.
 - ✓ 30rd June- 1st July 2005 workshop on SHP in Lausanne, Switzerland (**marketing, environment and engineering issues**)
 - ✓ **Small Hydropower Session in Hydro 2005** (International hydropower conference organised by Hydropower & dams): 17-20 October Villach, Austria



TNSHP- Participation

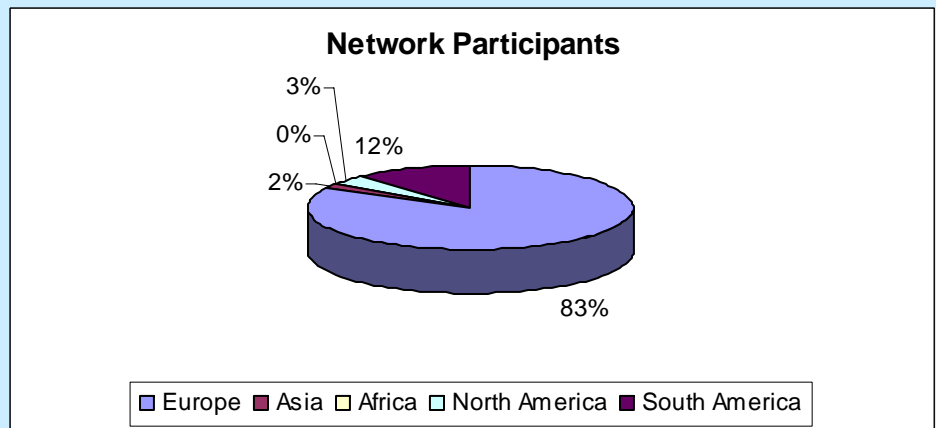
✓ TNSHP WEB SITE

- Free & open
- Updated Information in the TNSHP library
- E-Network :Access to a network of more than 170 participants



✓ HOW?

- Registration: Send contact details to:
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SPLASH



- Spatial Planning and Local Agreements for Small Hydro
- 2004-2005
- 8 partners (France, Ireland, Switzerland, Portugal and Poland, Greece)
- ESHA coordinates the information dissemination and project promotion





SPLASH Outputs

- The preparation of pilot spatial and policy plans for small hydro in each country
- To develop Step-by-step guidelines for SHP development and best practice guide on planning issues
- Feasibility Studies per country in the selected local areas





SPLASH - Outputs



- Dissemination: Editing good practice guides and case studies, organising workshops and conferences
- 31st June- 1st July 2005 workshop on SHP in Lausanne, Switzerland (SPLASH session)

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Conclusions

- ESHA is partner of several European funded projects on SHP in order to cope with ESHA strategic priorities of promoting SHP sector in Europe and Outside Europe
- ESHA welcomes the collaborations within its projects of institutions outside Europe to assist the take off of the technology specially in Developing countries