



EUROPEAN SMALL HYDROPOWER ASSOCIATION

ESHA – European Small Hydropower Association

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Thematic Network on SHP

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What is ESHA?

- Non-profit Organisation, founded 1989
- Headquarters in Renewable Energy House in Brussels
- Members in all EU countries and worldwide
 - 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





TNSHP- CONTEXT

- ✓ **Funded** by the European Commission, DG TREN (Transport & Energy).
- ✓ **Framework:** EU's FP5 (Fifth Framework Programme for Research, Technological Development and Demonstration). Specific programme: Energy, Environment and Sustainable Development (ENERGIE). Part B « Thematic Network ».
- ✓ The **Swiss partners** are financed by the “Office federal de l'éducation et de la science” (OFES) with the Project 02/0007.





CONTEXT

- ✓ Coordinated by ESHA with 10 partners (ÖVFK, MHyLab, SCPTH, ADEME, IT Power, Lithuanian Hydropower Association, Studio Frosio, EPFL-LCH, ISET and SERO)
- ✓ 3 years project (running for 1.5 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





OBJECTIVE

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

- 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





HOW?

- Through the exchange of information, discussions and transfer of knowledge of all the actors involved:
 - Politicians
 - Planning authorities
 - Developers
 - SHP industry
 - research institutions
 - civil society
 - environmentalists



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)





NETWORK STRUCTURE

- ✓ **Steering Group** (quality control)
- ✓ **Key Actor Discussion Groups:**
 - Marketing
 - Environment
 - Engineering
- ✓ **e-Network**
- ✓ **SHP Network Secretariat**





OUTPUTS I

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





OUTPUTS II

- ✓ Report on **SHP Statistics**.
- ✓ Reports on **reserve Flow**,
- ✓ **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 need for the SHP sector, Porto, Portugal.**

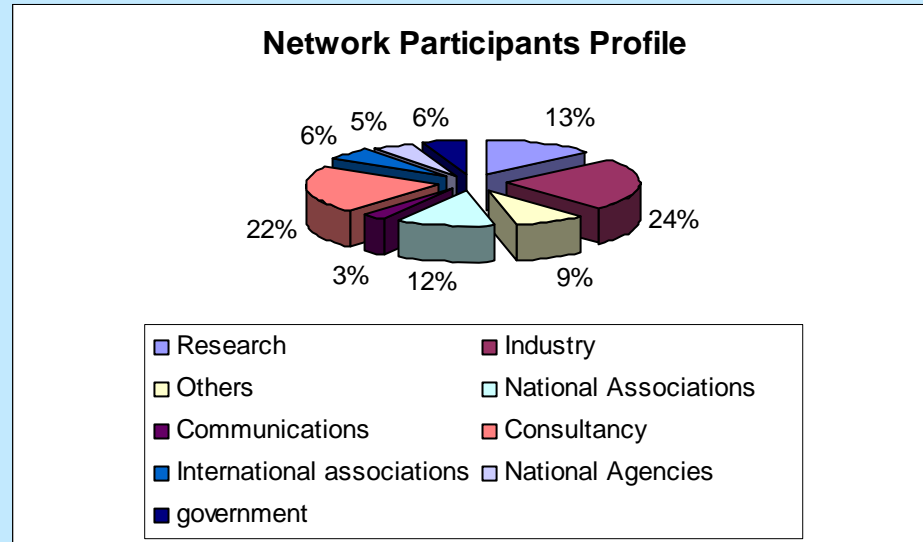




PARTICIPATION

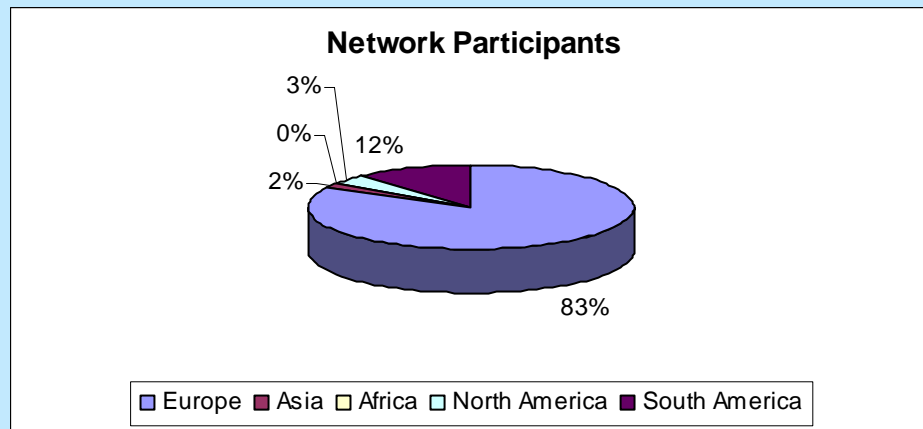
✓ TNSHP WEB SITE

- Free & open
- Updated Information in the TNSHP library
- Participation: virtual and real
- Access to a network of more than 160 experts



✓ HOW?

- Self registration on internet or
- Send contact details:
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CONCLUSIONS

- ✓ Ambitious and Challenging Project
- ✓ The project is working as a platform for information exchange to cope in a coordinate and unified way with the major challenges of the SHP sector.
- ✓ Long-term objectives and continuous updating
- ✓ Has established an international network of more than 160 participants from all sectors





Thank you very much!

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