



# EUROPEAN SMALL HYDROPOWER ASSOCIATION

ESHA – European Small Hydropower Association

Renewable Energy House, Rue du Trône 26, B - 1000 Bruxelles, Belgium

Tel: +32.2.546.19.45 Fax: +32.2.546.19.47, e-mail: [esha@arcadis.be](mailto:esha@arcadis.be), I: [www.esha.be](http://www.esha.be)



## Thematic Network on SHP

*Maria Laguna*

*ESHA project manager*



# 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) within 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**
  - ✓ **19<sup>th</sup> October 2004, Workshop on R&D strategy and need for the SHP sector, Porto, Portugal.**

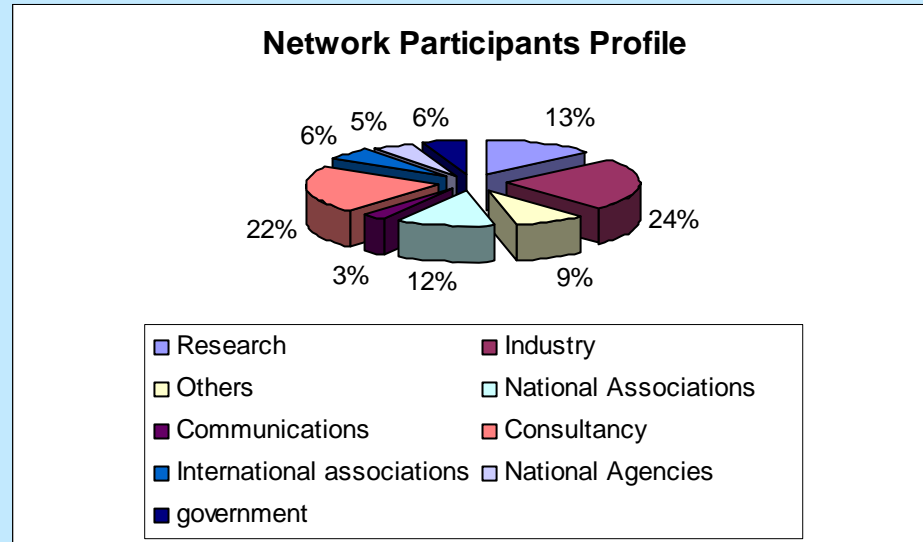




# PARTICIPATION

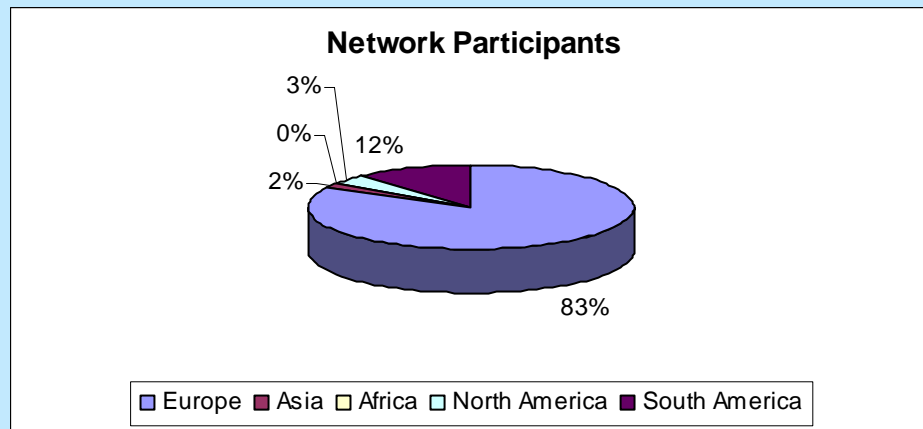
## ✓ TNSHP WEB SITE

- 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:  
**maria.laguna@esha.be**





# 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!

## **ESHA**

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Renewable Energy House

26, rue du Trône

B-1000 Brussels, Belgium

T: +32 2 546 1945

F: +32 2 546 1947

E: [maria.laguna@esha.be](mailto:maria.laguna@esha.be)

I: [www.esha.be](http://www.esha.be)

