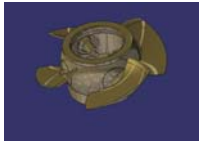


Engineering Group

Thematic Network on Small
Hydro Power

Presentation of the European strategy document for RD&D in small hydropower.

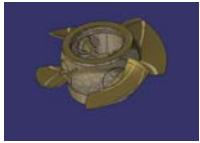
Bolzano
18th September 2003



Target of the strategy document

The target of this document is to present an overview of small hydro in Europe, which specify :

- The development potential
- The obstacles likely to be encountered,
- The state of the market and of industry,
- The state of the environmental integration
- The state of RTD.

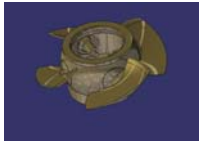


Why a strategy document ?

Maturity of large hydro has held the false opinion that there is no much scope for technical development and improvement in any hydropower system.

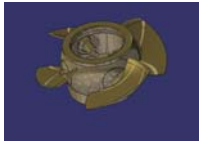
There is however considerable scope for :

1. Designing and developing material and construction procedure aiming to **reduce** strongly the **environmental impact** of SHPs (in other words, how the technological development can help the environmental integration of SHPs)
2. Improving the cost-effectiveness of SHPs, especially in low head developments, both through technical and non-technical innovations.



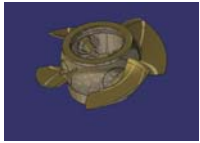
Content of the European strategy document.

- Necessity of a European RTD strategy in small hydro power.
- European strategy definition.
- Priorities and objectives.
- Means to reach the objectives.



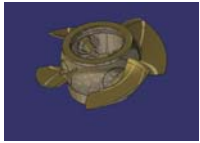
Necessity of a European RTD strategy in small hydropower.

- Description of small hydropower plant
- Development potential
- Obstacles to potential development
- Specific cost of small hydro
- State of the industry
- State of RTD
- Why RTD in small hydro is necessary



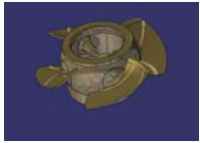
European Strategy

- General topics
- General design
- Civil work
- Electromechanical equipment
- Control and monitoring systems
- Environmental integration



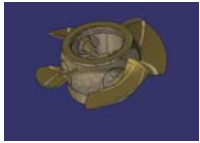
Priorities and objectives

- General topics
- General design
- Civil work
- Electromechanical equipment
- Control and monitoring systems
- Environmental integration
- Technical priorities
- Non-technical priorities



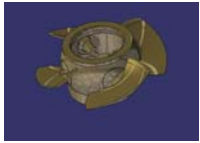
Who will make an input in the document ?

- The engineering group members
- The Thematic Network partners
- The workshops delegates
- Anybody involved in small hydro via the web site



Schedule

- By the end of September 2003 : Bolzano meeting feedback and workshop results integration.
- By mid-October : Last revision of the document by the thematic network partners
- By the end of October : Document ready for publication on the web site.



Discussion's subjects

- Cost & efficiency for small hydro projects
(Christer Soderberg, SERO)
- Engineering and environmental integration
(Luigi Papetti, Studio Frosio)