



# TNSHP SEMINAR

Environmental workshop : introduction

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## Two basic Directives have to be considered when discussing small hydro matters

- Directive on RES (2001/77/CE) : access to the grid being easier for renewable energy sources (reconsider administrative barriers)
- Framework Water Directive (2002/60/CE) addressing long term issues (water resources, preserving water quality, defining space planning for the best management of water management issues in sectorial policies has been underlined (energy, transport, fisheries, tourism...))



## French experience regarding water management issues

1. Specific public agencies are in charge of water policy (« Agence de bassin ») using taxes on pollution to raise money to enhance water quality
2. Decrees have been adopted to classify rivers which prohibit any small hydro development (criteria not always defined clearly). From 1981 to 1999, 10 decrees have been issued covering a large part of the national hydrographic space
3. Potential for small hydro development not addressed properly (detailed assessment based on space local planning)



## French experience regarding water management issues

4. From the beginning of the 2000 's, a scientific work has been launched to :
  - define environmental criteria to help setting up space planning for small hydro (river classification could be revised)
  - considering all activities on rivers (chemical activities, fishery, tourism activities...) and not only small hydro to address the environmental impacts



# TNSHP / SPLASH European projects regarding environmental issues

1. At national level, having a clear description of the context (legal, administrative procedures adopted, barriers in place based on environmental criteria).

France adopted a detailed report « Hydroélectricité et Environnement » proposing solutions to promote small hydro activities (working group from 1999 to 2002)

2. CSP (« Conseil Supérieur de la Pêche » or « Fisheries Scientific Agency ») published in august 2002 a detailed report on how to address environmental criteria and space planning of small hydro on the RMC Region (Bassin Rhône-Méditerranée-Corse). River classification considering preserving water quality and fish species, is the main approach.



## TNSHP / SPLASH European projects regarding environmental issues

3. ADEME launched in september 2003 a scientific work on three specific «bassins versants» (RMC Region) to define a multi-parameters approach (decision making tool) to define small-hydro potential in compliance with the two Directives (RES and Framework water).

A working group have been put in place (experts from small hydro unions, CSP, local administrative bodies delivering exploitation permits)

Results (deliverables) :

- a methodology to address small hydro potential based on a multicriteria analysis
- mapping of three specific « bassins » (Gis tools being used) to define environmental constraints / small hydro potential (MW).



## Conclusions on matters to be addressed

- « State of the art » concerning legal framework at national level (reports published ??)
- administrative procedures regarding river classification (« reserved » rivers) prohibiting any small hydro projects to be developed,
- scientific work being launched at national level to tackle water quality management /small hydro development (environmental criteria)
- engineering aspects regarding technology and environmental issues (work to be carried out in the engineering « team » of the TNSHP project)