



# SMART



S.M.A.R.T. “Strategies to proMote  
small scAle hydro electRicity  
producTion in Europe”

([www.smarthydro.eu](http://www.smarthydro.eu))

Intelligent Energy  Europe



# SMART



It's a project of the Province of Cremona, co-financed by the European Commission through the 2006 Intelligent Energy – Europe Programme. The SMART concerns the promotion of new and renewable energy sources for the decentralised production of electricity and their impact on the local environment.

For further information please visit the European Union website:

[http://ec.europa.eu/energy/intelligent/index\\_en.html](http://ec.europa.eu/energy/intelligent/index_en.html)

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**The methodology of the SMART project is a repeatable path that is organised in the following steps:**

- evaluation of strengths and weaknesses of the laws in force;
- collection and evaluation of tools to support the decision-making process;
- collection of examples of successful policies and/or methodologies in use;
- development of energy policies and software and their adaptation to the partners' territories



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## Partners

- Province of Cremona, Cremona- Italy;
- ERSE, Milan, Italy;
- University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture (FSB-UZ), Zagreb, Croatia;
- Karlovac Regional Authority (KAZUP), Karlovac, Croatia;
- Norwegian University of Science and Technology (NTNU), Trondheim, Norway;
- Regional Secretariat of Attica (RSA) Athens, Greece.
- Energieagentur Waldviertel non-profit agency, Thaya, Austria.



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**The SMART project  
started on 15<sup>th</sup> January 2008 and  
it will be closed by 15<sup>th</sup> January 2011  
It's organised into**

**5 Work packages**

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## WP 1: Management

**Leader:** Province of Cremona

This WP covers all project specific management activities.

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## **WP 2: Review of normative, legal procedures and environmental issues**

**Leader :** University of Zagreb

**Description:** Review of normative and environmental issues assessing the latest developments on the implementation of SHP plants in EU/partners countries, identifying the strengths, main obstacles and weak points of existing practices for concessions.

### **Deliverables :**

1. Handbook, in English, addressed to Public Operators;
2. Handbook translated into the national languages.

**The handbook is just down-loadable from the website**



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## **WP 3: Policies, methodologies & tools to improve the exploitation of small scale hydro electricity potential**

**Leader:** University of Trondheim

**Description:** The specific aim is to make available policies, methodologies and “friendly-use” tools for a better assessment of water resources availability and for assessing potential mini-hydro plants sites in the territory



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## WP3 Deliverables:

1. CD support containing the description of the policies, methodologies, best practices & tools that may support decision makers in implementing small scale hydro electricity plants (ALL PARTNERS).
2. Report with the recommendations concerning the implementation of private & public joint investment regulation to promote the interest to invest in small scale hydro electrical production (ITALY);
3. Description of the methodologies and customized informatics tools useful to support public organizations and investors to implement SHP plants in their own territory (ITALY).



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**WP4: Testing of methodologies and tools in pilot regions and promoting strategic actions learned from pilot regions**

**Leader: ERSE**

**Description:**

The aim is to test the strategies described in WP2 and 3 in some of the selected regions within the partners' countries.

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## WP4 Deliverables:

1. Report for each one of the pilot regions, presenting the experiences of the strategies and tools used for each area (ALL PARTNERS).
2. Publication “Strategic Actions learned from pilot regions” addressed to both potential investors and Public Administrations, summarising the findings in the five pilot regions, with respect to common strategies and methodologies that could be used as reference also in other European countries (ALL PARTNERS).
3. Report and digital maps presenting the watercourses in the Region where it could be possible to install SHP plants, as part of the Investor Database of SHP potential sites and public cadastre (ALL PARTNERS).



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## WP4 Deliverables:

4. Paper document explaining how make the correct feasibility analysis for the most technically, economically and environmentally suitable locations to build SHP plants (CROATIA).
5. Report containing the technical feasibility to use the old mills for power production (ITALY).
6. Report containing the cases study on the feasibility study and business plan to the installation of SHP plants in Northern Attica (GREECE).



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## WP 5: Communication and Dissemination

**Leader:** Province of Cremona

**Description:**

The WP covers all project specific communication and dissemination activities.

**Official website:** [www.smarthydro.eu](http://www.smarthydro.eu)

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# TOOLS PRATICAL APPLICATION FOR ALL COUNTRIES



## THE INVESTOR

VISIT:  
<http://www.smarthydro.eu>

Handbook about  
Procedures  
Competent Bodies  
Utility Tools

FOUND  
A good site where  
it's possible to  
realise SHP

Waterfall lists and  
Digital Maps  
Tools like VAPIDRO-  
ASTE, SMART Mini  
idro, Retscreen, etc.

Utility tool by the  
University of Milan

VISIT the local  
websites:  
(<http://www.atlanteambientale.it>)

Local Planning  
and  
environmental  
restrictions

To support  
public offices  
in analysing  
technical  
documents

To support the  
investor to  
prepare  
technical  
documents  
attached to  
the application

THE INVESTOR presents to the Competent  
Authority the application to realise SHP plant



**Province of Cremona**  
**Marco Antoniazzi**  
**Sabrina Cassi**  
**Giuseppina Maffini**

