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## Editorial

Iridra srl is specialized in the treatment of municipal and industrial wastewaters with low environmental impact techniques. Not only its expertise concerns the design and work supervision of constructed wetland systems, but it also applies to other advanced engineering practices, such as off-gas testing. Such a technique, tested for around 30 years by different research departments (UCLA, UCI, Cemagref, Biomath, etc.) is nowadays available on the Italian market. Iridra has implemented it in the depuration plants of the city of Cuneo, Trigolo and Caraglio with significant results in terms of energy efficiency and reduce the management costs. This technique makes part of the wide range of services Iridra can offer to all operators in the wastewater treatment sector.

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**SWMED website online!**

**WATACLIC project results**



### Fattoria della Piana

On the 30th and 31st of January 2013, Iridra organized a technical visit at Fattoria della Piana, in the province of Reggio Calabria, to illustrate the benefits of natural depuration systems and reuse of treated wastewaters. Fattoria della Piana is an innovative dairy farm whose main activities are cattle breeding and cheese production, in addition to a restaurant for guests and for educational activities. Alongside the system of constructed wetlands for dairy, milking parlour and domestic wastewater treatment, an anaerobic digester enables management of slurry and the serum recovered and their conversion into energy. [Read more, see more on the Album](#) and [watch the video](#)



### Pentolina Upgrading 2012

In 1998, IRIDRA managed a project of constructed wetland at the tourism resort of Pentolina, in the Municipality of Chiusdino, Province of Siena. This plant is a tertiary treatment system for the effluent of a total oxydation plant (with forced oxygen) designed for 500 P.E. The constructed wetland system is composed of one horizontal subsurface flow basin of 550 m2. The system is characterized by a strong fluctuation of the number of users, that periodically changes from a few units during winter (10-15 P.E.) to 500 P.E. during summer. [Read more](#) and [see more on the Album](#)



## The SWMED website is finally ONLINE!

**The SWMED project** (Sustainable domestic water use in Mediterranean Regions) was submitted with the first call of the ENPI CBCMED (2007 – 2013) – Priority 2, Promotion of environmental common heritage sustainability at the basin level; Objective 2.1, Prevention and reduction of risk factors for the environment and enhancement of natural common heritage. **Learn more about the project on its website : [www.swmed.eu](http://www.swmed.eu)**



Innovative Urban Water Management as a Climate Change Adaptation Strategy: Results from the Implementation of the Project "Water Against Climate Change (WATACLIC)"

[Read the article](#)

### Upcoming:

**March 21 2013, at Ancona (Italy), Conference "Eco innovation as a Solution for Waste Water Treatment problems":**

Iridra will present experiences and innovative solutions at the conference organized in the framework of the project "METRIS PLUS – Boosting Research and Innovation Potential of the Adriatic Cross-border Area in a Joint Research Initiative led by Metris Research Centre" financed by IPA Cross Border Cooperation Programme. [Read the conference programme](#)



## Off-gas testing

Iridra srl collaborates with the English Plano Engineering Ltd to propose technical solutions to improve the energy efficiency and reduce the management costs of traditional activated sludge plants. The services provided by Iridra srl are related to analysis and optimization of biological reactor and aeration system functioning, thanks to the innovative techniques called off-gas testing. In Italy, the technique has been implemented in the depuration plants of the city of Cuneo, Trigolo and Caraglio, and obtained until then good results. [Read more](#) and see more on the Album of [Trigolo](#) and [Caraglio](#).



## Dairy CW in Sri Lanka

The constructed wetland, which has been designed by IRIDRA in the framework of cooperation project in Sri Lanka for the NGO ICEI, is ready to start for treating the dairy wastewater. IRIDRA took care of the supervision of the realization works for the constructed wetland treatment plant at the service of a dairy factory which has been implemented by the NGO action and cofunded by Cariplo foundation in the Peradenya University of Kandy, the most important in Sri Lanka and located in a wonderful tropical park in Kandy. Riccardo Bresciani is supervising the CW area and verifying the design with the Sri-Lanka colleagues. [Read more](#)



## 13th International Conference in Wetland Systems for Water Pollution Control

The 13<sup>th</sup> biennial on Wetland systems in Water Pollution Control organized by IWA Specialist Group on the Use of Macrophytes in Water Pollution Control took place on 25-29 November 2012 at Murdoch University, Perth, Western Australia. **Dr. Fabio Masi, who was elected Chair of the Group, presented a paper on "Multistage Constructed Wetlands Systems for Municipal Wastewater Treatment".** [Read the interview](#)



## IRIDRA's publication

Natural depuration systems, or constructed wetlands, are at the centre of this practical manual co-authored by **Fabio Masi, water chemist and IRIDRA technical manager, and Riccardo Bresciani, environmental engineer.** The manual explains how to manage in a sustainable domestic wastewaters. Limited issue, book the manual on : [bresciani@iridra.com](mailto:bresciani@iridra.com) [Read more](#)



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