



10th INTERNATIONAL EXHIBITION
of technologies for the treatment and
distribution of drinking water and
wastewater treatment

H2O INDUSTRY

THE EVENT FOR INDUSTRIAL INNOVATION



INTERNATIONAL EXHIBITION
of technologies for wastewater
treatment

19-21 May 2010

Ferrara, Italy

Organised by:



BolognaFiere

In cooperation with:



**FERRARA FIERE
CONGRESSI**



H2O INDUSTRY

THE MEETING FOR INDUSTRIAL INNOVATION

H2OINDUSTRY, “an event in the event” held during the **H2O** exhibition, will be a unique opportunity to meet and network on new technologies, regulations, management techniques, and water and energy saving practices needed to improve the economic and environmental balance in the industry and in the production sector in general.

Special attention will be paid to all emerging technologies that combine the requirements of water resource management (dictated by the production process and by regulations) with the ability to improve the overall energy balance and therefore generate an economic return.

H2OINDUSTRY is a European exhibition that lets you meet builders of technologies, treatment systems, equipment, and services for water management (supply, process, waste) for industry: a showcase and meeting place for specialists and consultants.

At **H2OINDUSTRY** Exhibitors will be able to meet representatives of related business sectors, such as R&D managers, production managers, purchasing managers of producers, engineering firms, and environmental consulting firms.



MACROSECTORS

- Wastewater treatment
- Water and waste distribution
- Measurement, control, and laboratory technologies
- Safety and maintenance
- Automation
- Heating, air-conditioning, and air treatment
- Biogas use and biomass energy generation
- Multi-utility
- Science and research



ND INSIGHTS NEWS AND INSIGHTS

RATES FOR INDUSTRIAL WASTE

DPGR 49/2006 (order of the regional council chairman) for the Emilia-Romagna Region and DGR 8/5448 of 2006 (regional law) for the Lombardy Region were recently introduced with regard to approval of the Regional Rate Method for Integrated Water Service.

Pursuant to these regional decrees, the rate for the sewer and purification service for industrial customers is determined in line with general national principles, i.e., based on the principle “you pollute, you pay” confirmed by Art. 155, sub-paragraph 5, of Decree Law 152/2006.

New rate-calculation formulas are introduced for sewer waste produced by non-domestic customers. The rate is now calculated not only on the quantity, but also on the type of waste produced. Emilia-Romagna established a gradual method of application for the first 5 years, starting in 2008, to effect the transition from a rate based only on consumption to one also based on the type of pollutant discharged.

According to the new rate system, coefficients for applying the method are defined on a province-wide basis, the process being assigned to Territorial Authorities, which issue specific resolutions. In light of the “quality” criteria defined by the new regional rate methods, the economic aspect of integrated water management for industry is becoming increasingly important, calling for (where necessary) opportune pre-treatments of industrial waste as well as application of water-saving practices and recycling of waste water, thereby abandoning the traditional end-of-pipe treatment approach.

Visitor target categories include all those that are directly or indirectly connected to the water management system in an industrial context.

Industries

- Food
- Pig/cattle/poultry breeding
- Car washes
- Paper and cardboard
- Chemical and pharmaceuticals
- Tanning
- Ceramics
- Cement works
- Construction (building)
- Distilleries
- Galvanising
- Laundries
- Metallurgy and mechanics
- Petrochemistry
- Energy generation
- Plastics
- Scrapping and car demolition
- Semiconductors
- Textiles
- Paints
- Thermal baths

Water extraction and treatment

- Physical water treatments
- Chemical-physical treatments (with disinfection)

Wastewater treatment plants

- Physical treatments of water and waste
- Biological treatments (aerobic and anaerobic)
- Chemical-physical treatments (with disinfection)
- Sludge treatments and management

Industrial water recycling

Biogas use and biomass energy generation

Measurement, control, automation, and laboratory technologies

Public Utilities

Professional and Planning firms

Science and research

Safety and maintenance

Bodies, Universities, and Research Centres



SEMINARS

H2O INDUSTRY's seminars will discuss new technologies, case studies with high innovation content, and guidelines for industrial water management (saving, recycling, rationalization of process water flows, start-of-pipe treatment approach to eliminate end-of-pipe discharges).

NEWS AND INSIGHTS

The EU publishes BREFs: STATE OF THE ART

The authorisation and control scenario regarding industrial plants, with specific reference to Integrated Environmental Authorisation (IEA) procedures, increasingly favours cycles that consume less water thanks to the introduction of systems that save and recover water in the process.

This is taking as a result of the BREFs (Best References) published by the EU, which define the Best Available Techniques (BATs) to which major industries must conform (with a certain margin of flexibility to account for local conditions).

These references are in line with the integrated approach adopted by Community Directive IPPC (2008/1/EC), which calls for a general environmental impact assessment during the authorisation procedure in order to anticipate and control the overall environmental impact generated by production processes.

The BREFs are technically detailed and widely used in industrial authorisation procedures in all Member States. They can be downloaded free from the European IPPC Bureau website:

<http://eippcb.jrc.es>, and their data is periodically revised and updated. To date, 33 BREFs (regarding 32 industrial sectors defined by the IPPC + 1 regarding the mining industry, non-IPPC) have been developed and adopted, the result of an exchange of technical information among industry experts, Member States, research institutes, and NGOs.

In general, they consist of documents that refer to subjects and techniques of interest to some or all industrial sectors (such as: economic and environmental assessments, environmental monitoring, etc.), and documents that refer to specific sectors with regard to their production cycle and systems to contain environmental impact.

All of the BREFs adopted are subject to continuous updating and revision; as a result, a BREF is normally valid from 5 to 7 years.

In 2009 alone, 9 BREFs were updated or revised, as can be seen in detail on the website <http://eippcb.jrc.es/reference/>.

NEWS AND INSIGHTS

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NEWS

WATER AND AGRICULTURE

H2O INDUSTRY will give thorough coverage to the subject of water resources in agriculture. Over the years, increased water consumption, lack of precipitation, and especially greater awareness of the economic, social, and environmental value of water, have resulted in growing attention and, in some cases, in greater competition. New ideas and methods are needed to conserve and recycle water, as well as new investments and technologies to face Italy's chronic lack of infrastructure.

H2O INDUSTRY will therefore discuss improved efficiency of farm irrigation, the benefits of innovation and of modern irrigation and growing techniques, the global topic of water saving in agriculture from the environmental point of view and with regard to development of the agricultural and agroalimentary sector, changes in the system, etc.

Speakers will include government representatives and private operators, suppliers of agricultural materials and technologies, universities and experts, policy makers and utilities. They will discuss policies to safeguard the water supply, as well as decontamination, land improvement, and the integrated water system, all of which are vital aspects of the water cycle.

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AN EVENT IN THE EVENT

H2O
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