

EDITORIAL

ChemWater is moving forward: Presentations and discussions with experts around the water – industry interface help forming ChemWater’s Water Sustainable Process Industry 2050 Vision. The actual series of workshops, the next to be held on 24 May 2012 as satellite event to EC DG Environments Green Week, offers the opportunity for you to directly contribute to this process. Beyond this ChemWater offers a bridge to directly contribute to the European Innovation Partnership on Water and the discussion on focal topics for the Horizon 2020 programme.

But not only strategic activities are ongoing in these days. One of the first big EU projects related to industrial water treatment – AquaFit4Use is holding its final conference in these days. Whereas E4Water a new large scale project on eco-efficient management of water in (chemical) process industry is starting. All in all a lot of activities are going on that give you the opportunity to contribute.

We are looking forward to get in touch with you.

Thomas Track & the ChemWater partners.



The 1st Workshop on Water Sustainable Process Industry: Vision 2050

March 1st 2012. Brussels – Belgium

Concept

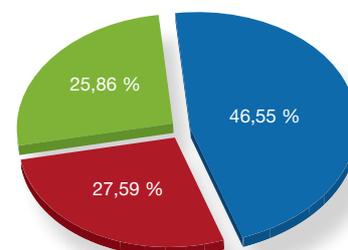
The scope of the project is to build a vision and a roadmap on sustainable water use in the (chemical) industry. Roadmaps will support identification of technology and knowledge gaps and roadblocks and give direction to future challenges & opportunities. The roadmaps will provide a framework for coordination of development of activities across sectors.

In order to set this vision with the support of the actors in the industry and water, a set of three workshops (this one was the first) will be organized. The aim of this workshop was to set a vision 2050 on sustainable water use in industry, and to find or create synergies between different sectors. The workshop was organized by TNO Innovation for life – The Netherlands.

First outcomes

- » There is uncertainty about the relative strength of different industrial sectors in Europe by 2050.
- » Significant changes are likely in the availability of water as well as how it is governed and allocated.
- » The water-energy nexus will be a decisive influence on process viability. There will be increasing pressure = to minimize total footprint: energy / CO₂ / water.
- » New products and processes designed with minimal environmental impact will be preferred.
- » Innovation is needed to improve re-use and valorization of materials and water streams.
- » Greater integration of resource management strategies – look ‘across the fence’ – is necessary.
- » The chemical sector could face significant economic challenges: competitiveness, availability of materials and resources at the right place and moment and many others.
- » A standard approach is needed for evaluating process impacts based either on water footprint or LCA.
- » Awareness and education with regard to water use and the role water plays in the wider economy will have to be raised.

Participants



- Industrial
- University
- Platform/Network

The 2nd Workshop on Water Sustainable Process Industry 2050: Methods and tools

May 24th 2012. Brussels – Belgium (WP3)

We would like to invite you to the 2nd ChemWater workshop on **May 24th 2012 in Brussels**. This workshop is a satellite event of the Green Week (<http://ec.europa.eu/environment/greenweek/>).

During this workshop we will identify gaps that prevail reaching the vision that was set in a previous workshop (March 2012). We will focus on new tools and methodologies, technology gaps as well as needs from other sectors to reach a water sustainable process industry in 2050. The results of this workshop will be used as a basis to be included in the European R&D Agenda, in programs like PPP's, EIP, JPI, Horizon 2020, etc. During this workshop case studies (2030) will be identified as stepping stones to the vision 2050.

The output of the ChemWater project will be directly linked to the European Innovation Partnership on Water, and will provide information to set the priorities for research and innovation in the Strategic Implementation Plan of the EIP and therefore the reference for future calls. The aim of the EIP on Water is to position Europe as the world leader in sustainable water management by boosting innovation. This is your chance to bring forward your ideas for this research/innovation program.

Participation is free of charge.

Venue: Hotel Silken Berlaymont Brussels
Blvd Charlemagne 11/19
B 1000 Brussels. Belgium
www.hotelsilkenberlaymont.com

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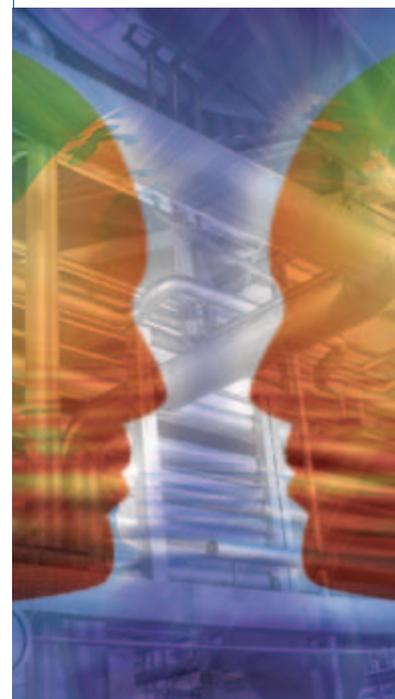


The 2nd Workshop on Water Sustainable Process Industry 2050: Methods and tools

May 24th 2012. Brussels – Belgium

PROGRAM

9:30	Registration
10:00	Welcome and goals of the workshop Thomas Track, Dechema
10:05	Introduction to the vision developed from the 1st workshop Water sustainable Process industry: Vision 2050 Jitka Macadam, Cranfield University
10:30	Discussion in groups: <ul style="list-style-type: none"> • What is still missing in the vision? Adding to the vision • challenges for water technology development for the next 10 years (from the vision)
11:15	Report back from the groups and short discussion on how to adapt the vision
11:30	Presentation of the Wbcisd Watertool AnneLeonore Boffi, Wbcisd
12:00	Lunch break
13:00	PRESENTATION Challenges for cooperation, dealing with risks and new actor groups related to sustainable (industrial) water use Speaker to be announced
13:20	Discussion in groups: <ul style="list-style-type: none"> • New arrangements needed for implementation of water technologies for: cooperation with governmental bodies/ municipalities; for cooperation with societal actors; for risk sharing • New tools needed to implement new technologies/ to compare sustainability
15:00	Coffee Break
15:15	Report back from the groups What tools and methodologies are needed
15:45	Symbioses sites in Europe: EIP on Water <ul style="list-style-type: none"> • Explanation of EIP on Water (10 min) • Discussion
16:45	Report back on EIP discussions.
17:00 – 17:10	Closure Thomas Track, Dechema



Large scale integrating project on eco-efficient management of industrial water – E4Water just started

The new industrial water related project E4Water, strongly driven by the WssTP and SusChem European Technology Platforms, started on 01 May 2012.

Chemical Industry provides the highest potential for increasing eco-efficiency in industrial water management. E4Water addresses crucial process industry needs, to overcome bottle necks and barriers for an integrated and energy efficient water management. The main objective is to develop, test and validate new integrated approaches, methodologies and process technologies for a more efficient and sustainable management of water in chemical industry with cross-fertilization possibilities to other industrial sectors. E4water unites in its consortium large chemical industries, leading European water sector companies and innovative RTD centers and universities, active in the area of water management. E4Water aims to achieve an expected reduction of 20-40% in water use, 30-70% in wastewater production, 15-40% in energy use and up to 60% direct economic benefits its industrial case study sites.

E4Water builds on state-of-the-art and new basic R&D concepts. Their realization, improvement, utilization and validation, with the compromise of early industrial adaptors, are clearly innovative. E4water realizes this by (1) developing and testing innovative materials, process technologies, tools and methodologies for an integrated water management, (2) providing an open innovation approach for testing E4Water developments with respect to other industries (3) implementing and validating the developments in 6 industrial case studies, representing critical problems for the chemical industry and other process industries, (4) implementing improved tools for process efficiency optimization, linking water processes with production processes, and eco-efficiency assessment.

Find out more on E4Water under: www.e4water.eu

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UPCOMING EVENTS

- » **World Congress on Water, Climate & Energy 2012**
13 – 18 May 2012 Dublin, Ireland
<http://iwa-wcedublin.org>
- » **Membrane Water Treatment, AMWT12**
Seoul (Korea, republic of), from 26 – 30 Aug 2012
http://acem12.cti3.com/amwt_email.htm
- » **Membranes in Drinking and Industrial Water Production, MDIWP**
Leeuwarden (The Netherlands), from 10 – 12 Sep 2012
- » **Euromembrane 2012**, London (United Kingdom),
from 23 Sep 2012 to 27 Sep 2012
www.euromembrane2012.com/index.html
- » **Advanced Membrane Technology V, ECI Conference**
Singapore (Singapore), from 14 – 19 Oct 2012
<http://engconfintl.org/12am.html>
- » **14th Aachener Membran Kolloquium – 14th AMK**
Aachen (Germany), from 7 – 8 Nov 2012
www.amk.rwth-aachen.de

CONTACT

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ChemWater in progress

Consortium meeting

» The 3rd consortium meeting was hosted by Cefic on **February 29th 2012** in **Brussels – Belgium**

» SusChem's 10th Stakeholder Event **April 17 – 18th 2012**
Brussels – Belgium

SusChem organized and hosted its 10th Stakeholder Event in Brussels on 17 and 18 April 2012 – a high profile event with attendance of around 150 delegates. ChemWater was presented at this important event by Cefic and EMH.

EU project: FP7-NMP-2010-CSA-4,
Grant agreement n°: 266851,
Start Day : May 1st 2011,
End: October 1st 2013