

News ticker January 2007

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INTRODUCTION

Dear colleagues,

First of all a happy new year to all of you. We are looking forward to a fruitful cooperation in 2007 again.

If you have any ideas, comments or small articles for this news ticker, please mail to Johanna Klein (Johanna.Klein@gtz.de)

Deadline for information for the next news ticker is April, 15th 2007.

PPP GLOBAL

1. NEW DESIGN FOR OUR WEB SITE

Dirk Hengevoss with support from the IT-department of the University of Applied Sciences Nordwestschweiz gave our web site a new design. The web site will be re-launched mid of January 2007. For the transmission of know- how and the dissemination of experience a well managed homepage is indispensable. The homepage will be updated regularly with latest information about our PPP and will also include new publications and fact sheets. You will be provided with a password to enter the internal part of the web site during the next few weeks. For further information please see: www.coprocem.com or contact Dieter Mutz (dieter.mutz@coprocem.com)

2. THE GTZ- HOLCIM GUIDELINES IN DIFFERENT LANGUAGES

Due to the high demand from different countries, the GTZ- Holcim guidelines are now available in different languages.

Up till now a Chinese, Portuguese, French and Spanish version of the guidelines are available. They will be provided for download at: www.coprocem.com

The Spanish version is also available as a print version.

It can be ordered from Monika Hunziker (monika.hunziker@holcim.com)

COUNTRY NEWS

3. THAILAND, DECEMBER 2006

In December 2006 a stakeholder workshop took place in Bangkok. More than 80 external stakeholders including representatives from government, waste generators, cement companies, international organizations, local NGOs and municipalities attended the stakeholder dialogue organized by GTZ and Siam City Cement, the local representation of HOLCIM. During the workshop Barbara Dubach and Günther Wehenpohl presented available experience for Co-processing waste materials and Hubert Beier from Ecowest on behalf of the PPP GTZ-Holcim talked about the German experience with co-processing of municipal solid waste. These experiences raised a lot of interest between the Thai stakeholders. As a result of the event it was suggested that a working group with interested parties to find solutions for the co-processing of MSW should be set up. For further information, please contact: werner.kossmann@gtz.de

4. EL SALVADOR, SEPTEMBER 2006

GTZ and EcoTec / Holcim invited Dieter Mutz to participate in two workshops in El Salvador. There he presented available experience for co-processing waste material in the context of an integrated waste management concept. GTZ and Holcim are cooperating since mid 2006 to promote co-processing in the country. National partners are the Ministry of Environment and the National Association of Municipalities (COMURES). The selected province for improving waste management through the integration of co-processing will be Nonualcos Area, La Paz. For further information, please contact Mercedes Herrera of GTZ (Mercedes.herrera@promude.org.sev) or Carlos Escobar from CESSA (Carlos.Cessa@cessa.com.sv)

5. COSTA RICA, SEPTEMBER 2006

Since beginning of 2006 GTZ and Holcim are running a so called integrated PPP, this means that funding is done directly by the bilateral GTZ-project and the local Holcim representation. Dieter Mutz supported during a mission in September the local GTZ-GeoCycle (Holcim) team in the up-dating of the plan of operation. In addition he gave a presentation to representatives from the public and private sector concerning co-processing of PCB in cement kilns. The Ministries of Health and Environment as well as the state-owned electricity company are very much interested in finding a national solution for the environmental sound disposal of PCB-containing transformer oil. A task force with members from the public sector, universities, Holcim and GTZ has been formed for accompanying the process for developing the permit for co-processing the PCB in the cement kiln. A trial burn is foreseen for spring 2007. For further information on the project, please contact: w_araya_gtz@racasa.co.cr or Jorge.Vieto@holcim.com

6. INDONESIA

In Indonesia GTZ, Holcim Indonesia and Indocement are joining forces to develop national guidelines on Co-processing. The guidelines shall be based on the international GTZ-Holcim guidelines.

For further information, please contact Dieter Brulez (dieter.brulez@gtz.de)

7. MOROCCO, STAKEHOLDER DIALOGUE

The Moroccan Ministry of Landuse Plannig, Water and Environment hosted the third national stakeholder dialogue on co-processing in Rabat. Organized on the 29.11.2006 by Holcim Maroc and the GTZ Environmental Protection Programme, key stakeholders from administration and private sector discussed the guidelines on co-processing, case studies from third countries and potential pilot projects in Morocco. After the workshop GTZ Environmental Protection Programme and the Association of the Moroccan Cement Industry agreed to integrate into their 2007 budgets a new Public Private Partnership project on qualifying sub-contractors of the cement industry on issues of health, safety and environment. The project has a proposed time frame of two years. A summary of the guidelines now exist in French and a copy of the presentations and the proposed PPP Project can be provided on request. For further information, please contact Mohamed El-Khawad (mohamed.el-khawad@gtz.de)

8. BRAZIL- CO-PROCESSING IS THE MAIN TOPIC AT THE 8TH FIMAI



During the 8th FIMAI (International Environmental Industry Fair) held on November 9, 2006 in São Paulo, over 150 representatives of universities, environmental and governmental agencies, customers, suppliers, press, cement manufacturers, ABCP and SNIC attended the presentation “Guidelines for co-processing residues in cement production”, promoted by Holcim Brasil and GTZ.

The presentation was given by Dieter Mutz. He presented a summary of the best practices in co-processing technology and its role in eliminating environmental liabilities created by the industry. There is a good momentum for the promotion of co-processing in Brazil as a new waste policy is presently under preparation. Holcim Brazil as well as representatives from different state environmental agencies were also met and all of them expressed their strong interest in co-processing and there is a high expectation to a more intensive cooperation between Holcim and GTZ in Brazil. For further information, please contact: Detlev Ullrich (detlev.ullrich@gtz.de) or Edmundo Ramos (edmundo.ramos@holcim.com)

9. INDIA

Since mid of 2006 GTZ and Holcim are running an integrated PPP in India. The focus of the PPP is lying on two different aspects:

R & D Project of Industrial Recycling of CO₂ from Cement Process into High-Energy Algal Biomass Coal Equivalent Fuel

ACC and GTZ have taken an initiative on designing a reactor to utilize the CO₂ from the cement plant stacks, and produce vegetable oil bearing algae. The algal biomass can be further fired into the cement kilns as alternate fuel, conserving the fossil fuel directly. The

initiative would help to sequester the CO₂ from the stacks and conserve fossil fuels. The project activities involve screening of appropriate high yielding algae culture, development of bioreactor on bench scale, scaling up the technology to pilot scale and then demonstration of the same at the commercial scale. For this research, discussions are ongoing with The Indian Institute of Agricultural Research (IARI), The Indian Institute of Technology, Delhi and National Council for Cement and Building Materials India (NCBM).

Co-Processing of Hazardous Waste (HW) in Cement Manufacturing on Commercial Basis

In India, about 4 MTPA of hazardous wastes is documented as generated by different industries, which is stipulated for disposal by incineration or landfill. Co-processing of HW in cement kilns provides a sustainable, readily available and immediate solution to the problem of HW disposal without affecting the environment, and without huge investments. It provides a definitive solution where the required range of temperatures are per force reached since they are a process requirement, and it has a wide spectrum of residence times too at each of the temperatures to cater to all types of wastes disposal requirements. In several developed countries, HW have successfully replaced fossil fuel (coal/oil) from 25% to 50% or even more in some cases, distributed through main burner in the kiln firing, at kiln inlet and in the pre-calciner without facing any environmental or quality problems, which have enticed the Indian cement industry in usage of various HW in their cement plants. Even at modest level of 20% replacement, the Indian cement industry has potential to use 4-5 million tonnes per annum of combustible wastes. ACC along with GTZ has now started co-processing hazardous wastes in India.

For further information, please contact: ramesh.suri@accement.com or juergen.bischoff@gtz.de