

Alternative fuels seminar

by **MVW Lechtenberg & Partner, Germany**

The theme of increasing alternative fuels usage proved to be a hot topic as more than 30 participants from the Turkish cement industry attended MVW Lechtenberg & Partner's first alternative fuels workshop in Ankara, Turkey, in mid-September.

More than 30 Turkish cement plants have permission to use alternative fuels, but due to purchasing and legal issues, it is not possible to increase the current overall substitution to more than 10 per cent. This challenge is one reason for the strong attendance of alternative fuel managers from all Turkish cement groups who participated in the first alternative fuel workshop organised by MVW Lechtenberg & Partner in Ankara at the Hilton Hotel over 21-22 September 2010.

A keynote presentation was delivered by Ahmet Vasif Pekin, general manager of Adocim, Tokat and member of the board of the Turkish Cement Manufacturers Association. He provided a comprehensive overview of current domestic clinker production trends and forecasts for the need to increase alternative fuels usage in the Turkish cement industry. Presently, most domestic plants are still suffering from the absence of wastes as raw materials for co-processing. Mr Pekin stated that: "there is enough waste, but most of the waste is still landfilled as there are not enough processing facilities and no governmental pressure in avoiding landfill".

Following on, Thomas Koch of MVW presented a highly-informative paper on identifying, sourcing and qualifying wastes as raw material for refuse-derived fuel (RDF) processing. Mr Koch, who has much experience in this field, noted that the identification of useable wastes as raw material for RDF production or as solely (mono) fraction is the most important issue



for a successful RDF project. A lively discussion between participants then followed which continued during an evening dinner.

Results of using RDF in the clinker production process were demonstrated by Dr Diller using case studies from MVW projects across the world. With 20 years' experience in clinker and cement production, Dr Diller was responsible for alternative fuels and raw materials quality management and purchase for Cemex' operations in Germany before he joined MVW Lechtenberg as head of its cement department. Here he underlined

that common alternative fuel types such as tyres and RDF have a significant influence not just on kiln operations. Sulphur or other constituents such as phosphate will also have an influence on the cement quality.

Regulatory guidelines and the legal framework for the use of alternative fuels in Turkey were described by Dirk Lechtenberg, before the final presentation of the day on RDF processing by Thomas Koch. Here he noted that "the 'right' equipment is one factor for

a successful RDF project...but not only the investment costs rather than the operating costs for wear parts and spare parts are most crucial". Mr Koch closed his impressive presentation by stating: "The most important factor is the knowledge about the waste and the right operation of such equipment".

On the second day, which comprised a series of presentations from a number of suppliers, Heinz Hax and Klaus Rupp of Schenck process explained the company's solutions for the storage dosing and feeding of various types of RDF. New orders for dried sewage sludge feeding at Akcanca Cement Büyükkömece plant and for RDF at Aslan Cimento shows Schenck process experience. The Multiflex screw weigh feeder system was also described. With this system, a reliable and



Pictured above: Dirk Lechtenberg (left) and Ahmet Pekin (right)
Pictured right: Dr Diller



Delegates are able to network further and discuss proceedings during lively discussion sessions and specially organised lunches and evening functions



in the cement industry, allows cement plant operators to simplify the adjustment of the burner, reduce the installation and running costs and lower electrical consumption.

Last but not least, Süleyman Sarim of Powitec Technologies gave a brief overview of optimised process control using the PIT Navigator System. Powitec has received the "German Innovation Award Climate and Environment for Outstanding and Sustainable Technology" for its state-of-the-art neuronal self-learning technology, which allows cement plants to optimise fuel consumption, operation and CO₂ reduction.

Outstanding, professionally-organised and a resounding success were just some of the comments made by participants at the event. The exchanges of experience and networking continued during the coffee breaks, lunches and a friendly evening dinner, the latter hosted by the team of organisers at the well-located Restaurant Hilton in Ankara.

simple feeding even from coarser RDF materials can be carried out.

After feeding RDF to the kiln, a dedicated burner system needs to be implemented. Therefore, Bodo Guse, sales manager of Pillard Feuerungen, Germany, gave a detailed overview about its latest developments in specialised burner systems – not only for RDF. The NOVAFLAMM burner, a proven technology used worldwide

