

Workshop

Alternative Fuel Project Implementation

MVW's alternative fuels workshop

The first 'Workshop on Alternative Fuel Project Implementation', organised by MVW Lechtenberg & Partner took place on 22-23 February. Around 30 participants from 17 countries converged on MVW's offices in Mülheim an der Ruhr, Germany. It was a resounding success and will be followed by further workshops both in Germany and Turkey in the future.

Delegates attended from the following companies: Akçansa Çimento, Akmenes Çement, Al Rajhi Cement (Jordan), Carmeuse, Cemex delegates from Croatia, Germany, Latvia and Switzerland, Cimpor, enofis (Turkey), Franke Jun. & Co. GbR of Germany, HeidelbergCement, Holcim, Irish Cement, Italcementi, Lafarge (Egypt), Lagan Cement, Nuh Çimento, Titan Ce-

- Project developer for cement industries (worldwide) in using AF as an environmentally-friendly and cost-effective energy;
- Provider of secondary-fuel production, quality monitoring, and currently supplying nine cement plants;
- Provider of technical support in AF implementation (engineering);
- Provider of turnkey alternative fuel implementation.

This solid background was a good basis upon which to launch the new workshop. The in-depth expertise offered participants much to take back to their cement plants in order to both implement technological progress and enhance the bottom line.



Above: Around 30 cement producers gathered in Mülheim for the first workshop.

Right: Carlos Medina, manager of Technology Support & Optimization at Cemex, questions Dirk Lechtenberg in detail.

Far right: Joao Pereira, central laboratory coordinator at Cimpor introduces himself to the group.

Below: Networking continued during the coffee breaks.



ment (Bulgaria, Greece and Macedonia) and Vicat of France. Owing to the overwhelming demand shown by cement and lime manufacturing groups it was not possible to accommodate all the persons who wished to attend.

Overview

A brief overview was given by Dirk Lechtenberg of MVW as part of his introduction to the first workshop. MVW Lechtenberg & Partner provides the following services to the cement industry:

- Leading consultant company in alternative fuels;
- Advisor in 'sustainable development';
- Project developer for municipalities in production of alternative fuels;



One by one, each participant introduced themselves briefly to the group, encouraging prompt networking from the first coffee break. Given the large diversity in nationalities for a relatively small group, the varying experiences were a source of great interest.

Programme

The packed full two-day programme encompassed no less than five sessions:

'Waste Assessment' featured the following elements: Waste evaluation - Sampling - Sample preparation - Analysis of biogenic content - Waste contracting.





'Kiln impact' comprised: Major impacts on kiln and clinker - Impact on clinker quality - Impact on fan capacities - Influences from alternative fuels moisture.

'RDF Technology' encompassed: Separation - screening - Manual sorting - Air classifying - Optical sorting - Shredding - Example RDF plant - Storage - Transportation - Dosing - Feeding.

'Economics' consisted of: - Calculating AF project - CAPEX/OPEX - Economical feasibility - CDM/JI carbon credits - Financing AF project.

'Permitting Issues' featured: - Environmental impact assessment - emission monitoring - Public information - Quality management for AF - Laboratory.

Speakers

Jürgen H. Lottmann, formerly general manager of the German Advisory Council on the Environment (SRU) presented the session on 'Economics.' Following his SRU position he headed up the department for emission control and general environmental matters at the Environment Ministry in the federal state of Hessen. In 1988 he transferred to the German KfW Developing Bank as the head of the Central Environmental Unit, where his tasks included monitoring projects abroad for environmental acceptance. For many years he also chaired the Scientific Technical Committee at the Forschungszentrum Karlsruhe and, on a voluntary basis, was a member of the jury for the Blue Angel environmental label. Mr Lottmann, now in retirement, works as a freelance expert for MVW Lechtenberg being responsible for project financing and funding. One of his several recommendations is the IFC for project financing.

The 'Waste Assessment' session was presented by Dr. rer. nat. Gilberto Caetano, chemist. He was previously responsible for business development in southern Europe at Lobbe, one of the largest privately-owned waste-treatment companies. Over the last few years he was director of hazardous waste treatment plants in Portugal. He is now in charge of waste assessment and analyses at MVW Lechtenberg.

Dipl.- Ing. Thomas Koch was at the helm for the 'Quality Management' session. He previously worked

as project engineer for a subsidiary of the 'Green Dot' system, 'Deutsche Gesellschaft für Kunststoffrecycling' in Germany, being responsible for auditing of packaging sorting and recycling plants in Europe. Nowadays Thomas is in charge of MVW's quality management and reporting as well as RDF plant auditing.

Dr. rer. nat. Hansjörg Diller, chemist, is Head of the Cement Department at MVW. He gave the 'Kiln Impact' presentation and is in charge of Raw Material Calculation (kiln feed) and influence of alternative fuels on clinker production. Hansjörg Diller was the Head of Quality Management and Laboratory of the Cemex cement group in Germany. In the last few years he was also responsible for purchase of raw material at Cemex Germany.

The topic of 'RDF Production/Dosing Feeding Technology' was in the capable hands of Dipl.- Ing. Thomas Staudt, a mechanical engineer, a specialist in plastics recycling and waste management. He worked for a decade at a subsidiary of the 'Green Dot' system, 'Deutsche Gesellschaft für Kunststoffrecycling' in Germany, in the technical auditing of plastic sorting and recycling plants. Following this role, Thomas Staudt was in the position of plant manager in one of Germany's most advanced RDF production plants. His position at MVW Lechtenberg is as Technical Project Manager for RDF production and technology.

Last but not least, 'Permitting Issues' was a subject covered by Dirk Lechtenberg, one of the pioneers in the field of alternative fuels production and utilisation. Dirk developed several RDF projects worldwide. Prior to establishing MVW Lechtenberg in 2004, he was in the role of managing director of a RDF processing plant owned by one of the most important privately-owned Dutch logistics companies, the Emons Group. As speaker for the Naturschutzbund Youth in Germany, Member of the City Council, Regional Parliament and numerous other institutions, he developed a broad experience in lobbying environmental projects worldwide.

Conclusion

This broad range of sessions saw numerous aspects being addressed in detail, stimulating considerable lively discussion among all participants, Dirk Lechtenberg himself and various members of the MVW team.

The exchanges of experience and networking continued during the coffee breaks, lunches and a convivial evening dinner, the latter hosted by the team of organisers at the pleasantly-located hotel restaurant on the bank of the river Ruhr.

The forthcoming workshop dates can be found on Page 83. Early booking is advised.



Above: Jürgen H. Lottmann presented the Economics session, seen here explaining a finer point.

Left: Boone Benoit of Carmeuse, left, in conversation with Carlos Medina of Cemex during a break.

Below: Dirk Lechtenberg welcoming the company's first workshop participants.



Left: Thomas Staudt, Technical Project Manager for RDF production and technology at MVW keeping the audience's interest alight.

Below: Hansjoerg Diller, Head of Cement Department at MVW Lechtenberg highlighting alkali-attack evidence on a refractory brick.

