

The topics:

The public's favourite:

The Bio-QZ pulps sugar beets at the EuroTier

>>> Page 2

The standard:

E-waste processing in Austria firmly under QZ control

>>> Page 4

The kick-off:

MeWa delivers RDF line to Turkey

>>> Page 7

Technology with staying power

The granulators supply substitute fuels

>>> page 6

*MeWa
wishes everyone a
Merry Christmas
and a successful
2011!*

*MeWa's
Christmas donation*
for Lukas, who is
suffering from cancer

The big attraction is **Bio-QZ**

Biogas made from sugar beets at the EuroTier trade fair



Large-scale deployment for the Bio-QZ at the EuroTier fair in Hannover: Four times each day, the Bio-QZ demonstrated on the open-air exhibition ground how sugar beets are properly processed. In the exhibition hall itself, MeWa consultants were surrounded by specialist visitors practically all day long.



In order to be able to use sugar beet as a substrate in the fermenter, the beet must be processed with the appropriate technology. The 42,000 visitors to the BioEnergy Decentral fair in Hannover were able to see for themselves close-up just how that is done. Transportation, cleaning, destoning, chopping and ensiling - more than 20 component manufacturers demonstrated their solutions on the open-air exhibition ground of the biogas show as part of the leading agricultural EuroTier trade fair.

In amongst them and, when it came to results, right at the front was the Bio-QZ from MeWa. The presentation was extremely well received. Immediately after the processing line, the specialist visitors were able to inspect the result and the technical discussions started straight away. The huge surge of visitors to the MeWa trade fair stand was in large part due to the impressive work performed by the Bio-QZ in the pulping of the sugar beets. Whereas other processing chains had to first clean and destone the beets before they could be chopped and ensiled, the Bio-QZ performed all three steps in one.

Stones are no obstacle

With the processing principle employed by the patented MeWa machine, the sugar beets can be processed in the condition in which they arrive from the field. The fruits do not have to be washed beforehand and the stones do not need to be removed. Because it is not equipped with sensitive cutting units, foreign materials are no obstacle for the Bio-QZ.

In a perfectly synchronised choreography, the Fliegl Rondomat first meters the sugar beets directly into the MeWa QZ 1600 Querstromzersetzer that follows behind. In order to illustrate the efficiency of the machine, the facilitator of the event made a point of climbing onto the machine in order to additionally throw ground stones into the tank.

From beet to biogas

After only a few seconds, the beets which had been processed to a pulp as well as the finely chopped stones were exiting the Bio-QZ in a pumpable state. In such a consistency, the stones represent a valuable addition of lime for the fermenter. A pump made by NETZSCH Mohnopumpen GmbH conveyed the now fermentable substrate from the Bio-QZ



Technical discussions: The Bio-QZ was the main attraction for visitors to the EuroTier fair.

directly into the tower silo made by LIPP which is standing at the ready in succession behind it.

Higher gas yield

On the MeWa stand in the neighbouring hall 26, the specialist visitors also found out what else the Bio-QZ can do. Three orders completed on the spot at the trade fair speak for themselves, which shows that the versatility of the machine in regard to a variety of different input materials and the final result are unmatched within the sector. The Bio-QZ provides a significantly higher gas yield in plants, given the same fermenter volume. Not just for sugar beets. ■

MeWa teamwork with the sugar beet special: Michael Meder, Siegfried Tyburczy, DLG facilitator, Helmut Seidenfus and Thomas Reutter (from left to right).





Saubermacher opens e-cycling park near Graz

The first comprehensive processing plant for old electrical equipment in the Alpe Adria region is in operation. The appliances in the new e-cycling-park in Unterpremstätten near Graz are broken up for recycling by the Querstromzerspanner from MeWa. More than 80 percent of electrical and cooling equipment waste in Austria is now processed with the patented MeWa machine.

An important milestone was reached on 10th November. After a construction period of just six months, countless guests from the worlds of politics and business convened in Unterpremstätten in Austria to congratulate Saubermacher Dienstleistungs AG on their new processing site.

“The Saubermacher e-cycling park enables secondary raw materials to be obtained for reuse from processed scrap, thereby making an important contribution to achieving an unbroken material cycle.

We are sending an enduring signal for an environmental quality of life and are creating a chain of positive effects in the fields of workplace creation and security, innovation, climate and resource protection, sustainable waste management and site security”, asserted Hans Roth, CEO at Saubermacher, summarising the tasks of the new plant on the occasion of the opening ceremony.

15,000 tons per year

The catchment area at Unterpremstätten ranges from southern Austria through

Slovenia and western Hungary to northern Italy. In future, around 15,000 tonnes of scrap electrical appliances will be disposed of per annum at the ultramodern processing plant. Saubermacher aims to recycle more than 85% of the metals and plastics contained in toasters, mobile phones, PCs, hi-fi equipment and other old appliances from private households and commercial operations and return them back into circulation as raw materials. To handle these tasks, the disposal company employs 22 employees in the new e-cycling park, operating a 2-shift system.

Hazardous materials are disposed of

The main part of the work is mechanical and is performed by a MeWa QZ 2000 HD Querstromzerspanner. The QZ first carefully breaks down the appliance into its constituent parts. A magnetic belt then extracts the ferrous parts. They are moved to the next workstation where specially-trained employees sort the non-magnetic parts into plastics and non-ferrous metals, such as copper and aluminium. The parts containing pollutants, such as capacitors and batteries, are filtered out of the material flow and properly disposed of. Any remaining composites are then broken down further in a granulator and automatically separated into ferrous metals, non-ferrous metals and plastics.

Austria has the most comprehensive electrical scrap collection network in Europe. In around 2000 municipal and a few thousand commercial collection centres, an average of around 12 kilograms



Saubermacher Managing Director Hans Roth, Austria's Minister for the Environment Nikolaus Berlakovich (both left, front) and Alois Grinschgl, Head of the Unterpremstätten Competence Centre (right, outside) in the circle of the celebratory guests with MeWa Managing Director Helmut Oberguggenberger and Regional Head of Sales Michael Meder (both centre of picture).

of electrical waste is collected per head of the Austrian population, equating to approx. 100,000 tonnes per annum. This rate puts the Alpine republic at the forefront of Europe in this regard.

The greater part of this quantity is processed by the MeWa Querstromzerspanner. As early as 2008, MeWa built a turnkey e-waste processing line for EAR (Elektronik Altgeräte Recycling West GmbH) near Innsbruck and UFH RE-cycling GmbH in Kematen an der Ybbs takes care of worn out cooling equipment. A fully automatic MeWa processing plant uses a QZ 2000 HD here to dispose of up to 1,000 cooling units per day in a one-stage process that is in compliance with the most up-to-date of environmental standards. ■

Bulky waste instead of synthesizer: The „blechbixnband“ (Plate ‚n‘ Socket Band) builds its own instruments out of bulky waste, thereby creating its own unmistakable sound.





Operations manager Herbert Wittmann.



TECHNOLOGY WITH STAYING POWER

A MeWa UG 1600 granulator has been manufacturing substitute fuels at Bergler Entsorgung GmbH for 10 years. After more than 30,000 hours of operation, the unit will be deployed for other tasks. The more powerful variant UG 1608 has now assumed the ongoing chopping work.

Bergler GmbH disposes of and recycles industrial and domestic waste for several districts in the Bavarian Oberpfalz. In 2001, the certified waste disposal specialists opened an ultramodern recycling plant for PVC-free plastic production waste in the heart of the Nördlicher Oberpfälzer Wald (Northern Upper Palatine Forest) nature park.



The main work there was performed by a MeWa UG 1600 granulator. Since then, the machine has processed approximately three tons of plastic waste per hour, turning it into substitute fuels. After 30,000 hours of operation, the dependable granulator was replaced. The rise in quantities of waste in the Bavarian disposal business demanded higher throughput rates in the processing line.

UG 1608 with higher throughputs

A new MeWa granulator has recently

come into use. The UG 1608 is even better suited for the fractionation of plastic and is equipped with higher positioned blade holders. In addition, a greater rotor circumference effects more screening surface. Together with a more powerful drive output, the machine can now move significantly higher throughputs in this way. The new UG 1608 granulates up to ten tons of plastic waste per hour. The company supplies its substitute fuels to the cement industry. Here, the secondary fuels

High level of availability

Right from the start, for Operations Manager Herbert Wittmann, there was no question about whether to decide for another MeWa granulator as a replacement acquisition, since, as he said, "Even when in constant use, the machine maintains a high level of availability with low wear values". And if maintenance work is some-

times required, "I can rely on the service provided by MeWa", the Systems Manager at Bergler revealed.

In the future, the replaced UG 1600 granulator will be deployed by Bergler at another company-internal location for processing waste. The endurance performer already has the next 30,000 hours of operation in its sights there. ■

Northern Upper Palatine Forest



In the north-east of Bavaria, on the border with the Czech Republic, this nature park spreads out, covering a total area of around 138,000 hectares. The picture formed by the low mountain landscape is completed by wooded ridges with pools and flood plains in the valleys and wet to marshy meadows.

Together with the neighbouring Fichtelgebirge, Steinwald and Oberpfälzer Wald nature parks, the area forms a green belt along the border to its Czech neighbour.

MEWA DELIVERS RDF LINE TO TURKEY



In the eastern Marmara Sea near Izmit, the Anatolian Pars Group has built a groundbreaking processing centre for packaging-waste. A MeWa processing line will produce substitute fuels here from the constantly increasing quantities of waste created in the boom region of Istanbul.



Market experts expect a growing demand in Turkey in the next few years for goods and services connected to environmental protection. In particular, that means recycling. Because numerous recyclable materials and a lot of energy can still be found in that waste. Precisely what a blossoming national economy needs for its growth.

The province of Kocaeli has for a long time been part of the catchment area of the booming economic region around Istanbul. The Anatolian Pars Group has its headquarters there on the eastern shore of the Marmara Sea. The family-owned company provides all sorts of solutions associ-



A UC 140 rotor shear and a UG 1008 granulator produce substitute fuels.

ated with water, wastewater and drinking water. But the area of waste management and recycling will also contribute a significant part of its success in the future.

UC 140 and UG 1008

The subsidiary company Ari Aritma/Bumerang has recently invested in a modern processing centre at the company headquarters in Izmit. The MeWa subsidiary for the east has, together with its Turkish partner ENKA, supplied a complete plastics processing line to the Asiatic part of Turkey. A UC 140 rotary shear shreds around five tons of mixed plastic waste per hour, metals are extracted using appropriate separation technology and the flow of material is finally chopped by a UG 1008 granulator to particle sizes from 30 to 50 millimetres, as required.

At the end of the process, a homogeneous substitute fuel is ready for delivery for use in the cement industry. At present, MeWa is building an oil filter recycling plant at the same lo-

cation under commission from the Anatolian Pars Group. In the continuing growth of the Turkish economy, the requirement for modern processing technology will certainly not be reducing for some time to come. ■

Marmara Sea



Together with the straits of the Bosphorus and the Dardanelles, the Marmara Sea connects the Black Sea with the Mediterranean. For Bulgaria, Romania, the Ukraine and Georgia, the only link with the ocean runs through the Marmara Sea and half of Russian sea trade is also made via this sea. The largest port is Izmit, which lies on the eastern shore.

MeWa's Christmas donation



Great joy: Marianne Thoma (MeWa, left) hands over a cheque for the fundraising campaign of Lukas, who is suffering from cancer.

Christmas is the time to pause and reflect. To look back on the past business year. To take stock. To forge plans for the challenges ahead. Both commercially and personally.

That includes accepting mutual responsibility for our immediate environment. This year, MeWa is dispensing with gestures towards its business partners in favour of a generous gift for a child in a neighbouring locality who is suffering from cancer.

Little Lukas is just three years old. While other children his age are playing boisterously outdoors, he is often just lying in bed. He is suffering from bone and soft tissue cancer. He already has several chemotherapy sessions and one pelvic operation behind him, during which a

tumour was removed. Lukas has not been cured of this illness.

His family has now exhausted their financial reserves on treatment. Neighbours and friends of the family have continuously provided support and have now started a fundraising campaign which is intended to pay for another stay in a specialist clinic. The fate of little Lukas has inspired MeWa to help by making a generous contribution to this cause.

For this purpose, at a benefit event, MeWa handed over a cheque for 10,000 euros to the family. The money from the contributions will exclusively go towards the treatment for little Lukas.

MeWa wishes its business partners, customers, employees and friends a

Happy Christmas and, of course, a lot of energy and success for the tasks which lie ahead. ■

Imprint

MeWa News

Issued by:
MeWa Recycling Maschinen
und Anlagenbau GmbH
Gültlinger Straße 3, 75391 Gechingen
Tel. 0049 (0)7056 925-0
E-Mail: info@mewa-recycling.com
Internet: www.mewa-recycling.com
Editing: Harald Pandl

Design: MeWa in Zusammenarbeit mit
Creativ-Werbung M. Dostal, Tiefenbronn
Printing: Druckhaus Weber, Althengstett

Photo credits: MeWa, Saubermacher,
Deutsche Messe Hannover, Wikipedia

Title photo: Granulator UG 1608