



REMEX INTERNATIONAL

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Michael Stoll, Chief Executive Officer of REMEX GmbH

Dear Sir or Madam,

Avoiding the landfilling of untreated municipal waste is a key success factor in reducing the emission of greenhouse gases. This is because organic waste in particular generates methane gas in landfills, which is far more damaging to the climate than CO₂. Consequently, waste avoidance and state-of-the-art waste treatment technologies are fundamental elements in a successful environmental strategy.

For a considerable time now, REMEX has dedicated a special website to the topic of > recycling technologies. In order to make existing possibilities more accessible to all current and future stakeholders, we have created numerous films to convey the principles of IBA processing. The most recent additions include the metal processing facility in Singapore and the hydromechanical treatment plant for washing IBA in the Netherlands.

To complete the picture, we have developed a graphic, showing the positive environmental effects that are created from the reuse of resources recovered by REMEX.

Read more about our latest initiatives and projects in this edition of our international newsletter. Feel free to > contact us directly if you have questions – and if you like our international newsletter, please take a moment to > recommend us.

Yours sincerely, Michael Stoll Chief Executive Officer of REMEX GmbH

> METAL RECYCLING FROM IBA

- > New video: Singapore metal treatment plant
- > SECONDARY AGGREGATES
 - > Filmed step-by-step: Washing IBA
- > HEROS prepares for expansion
- > EUROSTAT: NEW MUNICIPAL WASTE STATISTICS
- Recycling and incineration increasing, landfilling decreasing
 AT A GLANCE: SUSTAINABILITY OF MINERAL RECYCLING
- METAL RECYCLING FROM IBA

New video: Singapore metal treatment plant



As reported in our > last international newsletter, REMEX now operates its own metal recycling plant in Singapore. The plant, with a capacity of 200 tonnes per day, has been in operation since March 2021, and is used to dry and purify the iron scrap that is recovered from incinerator bottom ash. Directly adjacent to our IBA processing plant, the treatment takes place in a 4,000 m² hall, reducing emissions to a minimum. Our subsidiary REMEX Singapore Pte. Ltd. has now published a film demonstrating the workings of the metal treatment plant.



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The complete film can be viewed > here

SECONDARY AGGREGATES

Filmed step-by-step: Washing IBA



On its premises in the Netherlands, the REMEX subsidiary HEROS Sluiskil B.V. operates a high-tech facility for the hydromechanical processing of secondary aggregates from incinerator bottom ash (IBA). In order to demonstrate our experience with the IBA washing plant, we decided to film the facility and explain the complete hydromechanical washing process step-by-step in a five minute video.

Washing incinerator bottom ash mainly serves to improve the environmental characteristics of IBA. An added benefit of the process is the additional recovery of valuable heavy metals. Two washing drums are used, in which the ash is intensively cleaned. Water required in the operation of the plant is collected at all stages during the process. After physical and chemical treatment, the cleansed water is returned to the production process – thus reducing fresh water consumption to a minimum.

Watch the process of hydromechanical cleaning in our > film





HEROS prepares for expansion



Recently, the Province of Zeeland gave the go-ahead for further expansion of the REMEX subsidiary HEROS Sluiskil B.V. in the Netherlands. The company opened its gates over twenty years ago on the site of the former Coke Works in Sluiskil and now operates one of the biggest plants for processing incinerator bottom ash in Europe.

Since the introduction of the > Green Deal, sustainability is the Dutch standard anno 2021. The reuse of raw materials is becoming increasingly important. HEROS is on the front line with innovative techniques and alternative construction materials – and is planning for more.

HEROS is purchasing an additional eight hectares on the north side of the current location. The company management expects that it will take several years to set up the new site and is looking forward to the development. Arie de Bode: "We have a successful and future-oriented company that we are proud of. The application possibilities of IBA are numerous. At open days, visitors are amazed at everything that happens here."



HEROS markets its construction materials under the brand name granova[®]. Sub-brands such as COMBIMIX, DRAINMIX and GRANUMIX are already recognised as high quality alternatives in construction. Learn more on > heros.nl

EUROSTAT: NEW MUNICIPAL WASTE STATISTICS

Recycling and incineration increasing, landfilling decreasing

In February this year, > EUROSTAT published its new statistics on municipal waste, covering the years from 1995 to 2019. Generally, municipal waste accounts for 10 % of total waste when compared to the numbers reported according to the Waste Statistics Regulation.



In 2019, almost 225 million tonnes of municipal waste was generated overall in the EU. Converted per person, this amounts to 502 kg.

The amount of > recycled municipal waste increased, reaching new highs in 2019. According to EUROSTAT, the volume of waste material recycled and composted almost tripled from 37 million tonnes (87 kg per person) in 1995 to 107 million tonnes (239 kg per person) in 2019.

Waste incineration volumes doubled: In 2019 around 60 million tonnes of municipal waste (134 kg per person) were incinerated compared to 30 million tonnes (70 kg per person) in 1995.

At the same time, disposal in landfills more than halved: The total amount of municipal waste > landfilled in the EU decreased from 121 million tonnes (286 kg per person) in 1995 to 54 million tonnes (120 kg per person) in 2019.

The numbers and graphic given were retrieved from EUROSTAT news and can be found under:

> Half a tonne of municipal waste generated per person in the EU

> Municipal waste statistics

AT A GLANCE: SUSTAINABILITY OF MINERAL RECYCLING

With regard to sustainability, REMEX focuses on three topics: climate protection, landscape conservation and the optimisation of landfill quotas. The environmental contribution from the utilisation of mineral waste can be quantified in detail. We now summarised the total benefit in one graphic.



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