

# Recycling non-ferrous and ferrous metals from incinerator bottom ash

*– and making valuable recycled aggregates for the construction industry*





# About us

Meldgaard Recycling A/S operates throughout Europe and North America specialising in advanced mobile and fixed Incinerator Bottom Ash (IBA) and metal treatment facilities.

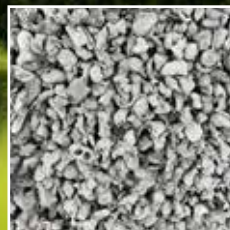
Over a 25 year period these facilities have all been designed in-house by our engineers.

The facilities show an ongoing illustration to our commitment to the complete recycling circle of IBA with the extraction of metal and aggregate materials.

100% of processed IBA can be recycled to replace newly mined virgin materials, in an ever needed world of circular economy.

Over the years, we have achieved leading know-how in the industry and currently process more than 1.4 million tonnes of IBA annually.

This is exemplified by our market leader position in Denmark, where we recycle IBA from waste-to-energy plants with zero material placed in landfills.



# Meldgaard Recycling A/S

## Circular Economy Operations



## Ash processing

The incinerator bottom ash created by waste incineration contains metal, which we extract, clean and sell replacing newly mined metal.

We also produce quality ash aggregate to replace newly mined aggregate materials.

When using Meldgaard Recycling as your ash processor, we sell all the metals and place the ash aggregate back into the construction industry.

Full client transparency in: results, revenue, profits, final destination and use of material in each stage of the processing journey is key.





# Metal

## *– extraction & replacement of raw mined metal*

Meldgaard Recycling recover up to 30,000 tons of non-ferrous metals by using the latest mechanical and sensor sorting technology.

Recycled metals come 100% from the IBA we process.  
Benefits include:

- Low carbon footprint
- Traceability
- High performance
- Stable quality
- Sustainable manufacturing

Retrieved Metals including the major fractions of copper, brass, zinc, stainless and aluminium, are sent to Meldgaard's metals plant, cleaned and separated into 54 different metal fractions. Technology in our metal plant ensure Meldgaard Recycling can offer the highest grades of metals. Our metals plant ensures that our aluminium contains different levels of copper and silicium, suitable for use in the automotive and electronic industry.

Metals are sold directly to smelters or industries that want to replace virgin metal materials with recycled.

# Mobile plants

## *Flexibility, quality and efficiency*

Meldgaard Recycling currently operates 8 mobile IBA recycling plants worldwide.

Meldgaard mobile units specialise in separating and extracting the maximum possible amount of ferrous and non-ferrous metals from IBA.

The extraction of metal in such high quantities from the ash ensures that we create an IBA aggregate ready to be used in circular economy construction projects.

Meldgaard Recycling solutions of ash to aggregate gives you the following high-performance and flexible benefits:

- 80-100 tonnes of ash processed per hour
- 5-7 strong eddy current magnets ensure maximum non-ferrous metal extraction
- 2-3 ferrous magnets
- Sorting system for stainless steel
- Flexible location as mobile plant can move to where IBA is stockpiled
- Meldgaard's own metal plants sort and clean into 54 different metal fractions
- Ash aggregate is sold back into the construction industry
- Replacement of virgin materials is a key environmental goal

Meldgaard's mobile plants move to where IBA is stockpiled.

Mobile plants are tailor-made for the specific tasks and client specifications, and use the latest technology to ensure the highest profit, efficiency and quality.

We offer an end-to-end IBA recycling solution or modular components to improve existing recycling and metal extraction rates and throughput performance.





# Meldgaard Recycling A/S

*Worldwide commitment to quality, environmental responsibility and occupational health and safety*

We've embraced ISO certifications in 9001, 14001, and 45001 to demonstrate our unwavering commitment to quality, environmental responsibility, and occupational health and safety. These certifications serve as a testament to our dedication in delivering high quality products/services while ensuring sustainability and a safe working environment for all.





## ISO certification

ISO certification and compliance bring substantial advantages to Meldgaard's Recycling ash plants. These certifications establish standardised processes that enhance operational efficiency, ensuring consistent quality in our operations. They promote a culture of continual improvement, allowing us to streamline our procedures and optimise resource utilisation.

For our recycling ash plants, ISO certification ensures that our industrial processes meet global standards for quality management (ISO 9001), environmental.





## We work globally

Meldgaard operates worldwide with metal recovery and Recycling of incinerator bottom ash with constantly new enquiries and contracts from customers for both our mobile and stationary recycling plants. We welcome all enquiries for IBA recycling from smaller annual quantities of 10,000 tonnes through to larger contracts of more than 200,000 tonnes per year.



**meldgaard**

**Recycling A/S**

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