video

Introduction to the company

Welcome to our site! GMR Recycling specializes in recycling and metal recovery. At GMR, we strive to achieve the highest standards in preserving the environment and natural resources. We are also keen to use the latest clean technology in order to recover metals and raise awareness about the importance of recovering metals in a correct and environmentally friendly manner. We also explain to you the company's most important activities and its products of recovered metals. We thank you for visiting our website and learning more about the importance of recycling lead-acid batteries and recovering metals.

Activities

Battery recycling process

Welcome to GMR Factory! We are proud to offer an innovative and effective environmental solution to address environmentally challenging acid batteries. In an era of increasing environmental awareness, we are pleased to be a pioneer in the field of battery recycling, as we strive to achieve an effective balance between using technology and preserving the environment. Lead-acid batteries are commonly used in cars, boats, and other vehicles. They are also used in backup power supplies for communications and computer systems. However, these batteries can be hazardous to the environment if not disposed of properly.

At our factory, we adopt the latest technologies and environmentally friendly practices to ensure that maximum value is recovered from lead acid batteries in a safe and efficient manner. We believe in the importance of our role in preserving the environment and improving air and water quality, which is why we work in compliance with environmental laws and adhere to strict standards. Lead-acid battery recycling produces plastic and lead in the form of alloys.

Join us in our quest to create a cleaner, more sustainable future. Explore our website for more information about our operations, and how GMR Factory can be an effective partner in preserving our beautiful planet.

Aluminum recycling process

In the aluminum recycling process where innovation meets sustainability to achieve a positive transformation in the environmental and economic world. Aluminum is among the most

valuable and widely used materials in a variety of applications, from packaging to engineering industries.

Aluminum recycling carries a strong message about the sustainability of our future. This work has the ability to reduce pressure on natural resources and preserve the environment. Spent aluminum is converted into reusable materials, which reduces the need to produce primary aluminum and thus reduces carbon emissions and the impact on the climate, as the aluminum recycling process saves 95 percent of the energy consumed to produce primary aluminum.

Aluminum scrap is a term used to describe aluminum that has been consumed and used and then disposed of or collected for recycling. Aluminum scrap can include a wide variety of products and parts containing this metal.

Examples include aluminum scrap

1- Beverage and food containers

2- Structural parts such as metal panels and frames

3- Electronic materials such as computers and electronic devices

4- Parts of cars such as wheels, engines, and sometimes the chassis

Copper recycling process

Copper recycling is a process that aims to use spent copper again to reduce the need to extract copper from natural ores. Here are some important aspects about the copper recycling process:

- Scrap Collection: Used copper is collected from a variety of sources, including electrical cables, wires, and electronic devices.
- Screening and sorting: Copper undergoes screening and sorting processes to separate it from other materials and classify it according to its quality.
- Crushing and grinding: Copper is crushed and ground to turn it into small pieces and increase the efficiency of the process.
- Melting: Copper is melted to turn it into a liquid, and shaped to obtain new copper products.

Remanufactured products:

Recycled copper can be made into a wide range of products, including wire, pipe, and industrial parts.

Environmental and economic benefits:

Copper recycling reduces the need to extract more copper from natural resources, and reduces waste and carbon emissions.

Overall, copper recycling is an important part of sustainability efforts and improved natural resource management

Products

- Plastic

The spent plastic resulting from various recycling processes is sorted, ground, and processed in our factory, where the plastic is converted by type into granules that are packed into bags and ready for supply to be used in new plastic industries.

picture

- Lead

Pictures and names of products

Soft lead and lead alloys

Pure lead alloy 99.97 – 99.985

Selenium lead alloy

Lead antimony alloy

Arsenic lead alloys

Calcium lead alloy

Lead-tin alloy

Special custom alloys according to specifications

We have a spectrophotometer laboratory to ensure quality. We have the ability to manufacture any custom lead alloys according to customer requests

- Sodium sulfate powder and calcium sulfate are produced in the acid neutralization unit, where they are used in many industries, including cement, detergents, and many other industries.

- Aluminum Product Pictures - Aluminum Alloys

- Copper products - copper alloys

Metal substrates

Slag and mineral concentrate (materials with high concentration of minerals)

GMR Company recycles concentrate, powders, slag and sludge, in addition to various wastes from refining operations, with exemplary experience and the highest technological and economic capabilities.

GMR considers that the ore includes many high-value minerals.

picture

Slag and sludge

Slag includes residues resulting from smelting or casting operations. According to our experience, the slag resulting from smelting, refining, casting, and exhaust air purification devices contains percentages of precious metals.

picture

Recycling scrap and electronic components

Regardless of the process, whether it is recycling, remarketing, or refining, GMR is a specialized company you can rely on.

picture

Types

- Smart or high-performance electronic panels

Electronic panels of different types and quality, including computers, servers, printers, decoders, entertainment electronics, and screens, as well as consumable parts from power supply sources, industrial control panels, and circuit breakers, are recycled at GMR Company to transform them into ready-made products. For remanufacturing

picture

- Smart boards, such as computer motherboards, random access memory, plug connectors, hard disk boards, integrated circuits, processors, and mobile phone electronic boards, as they contain more than 200-300 grams of precious metals per ton.

picture

- Electronic control units used in the automobile industry (ECU), as this very smart component is found in various types of cars and controls all functions in the car. GMR

Company recycles spent electronic control units using the latest technological methods.

Picture

Articles

The path to a world free of waste

The recycling process is one of the most important steps to preserve the environment and natural resources. Spent and damaged metals are collected, sorted, and classified. Each type of metal is collected and separated from the other. The metals are then processed and purified and used in the recycling process to make new products using them. Metals can be recycled several times without losing their properties. Iron is the most commonly used metal. Recycled around the world, in addition to gold, copper, silver, and aluminum.

The recycling process requires the use of advanced technologies to efficiently recover metals and improve the quality of products made from them. These modern technologies include material recognition technology, and advanced mechanical and chemical techniques for metal processing. These technologies can be used to improve the quality of products made from recovered metals and reduce demand for new raw materials, helping to conserve natural resources and reduce waste in landfills.

The field of mining and recycling has been constantly evolving in recent years, thanks to cutting-edge technologies that have been developed to improve efficiency and productivity and reduce costs

Advanced technologies mean a thriving planet

Lead-acid batteries are the oldest type of rechargeable batteries, and have been widely used in many fields, such as automobiles, electric vehicles, and energy storage because of the features of large energy-to-weight ratio and low cost. Lead-acid batteries account for about 80% of the world's total lead consumption. Although lead-acid batteries can have a service life of up to 5 years they often require frequent replacement, for example, batteries from electric bicycles currently last less than 2 years and as a result, more than 1.5 million tons of batteries are disposed of. Annually in China alone. Spent lead-acid batteries are classified as hazardous waste, but they are the vital source of more than 80% of the world's lead production.

In view of the increasing quantity in the world and the increased demand for metals in general, we have developed the technology of reducing metals by hydrogen vacuum (RMHV), which is environmentally friendly and free of emissions and relies on 100% renewable energy sources to produce high-purity metals in the form of alloys and powders. To meet the growing global market demand for minerals and chemical compounds used in all industrial sectors at all levels. Our technology is capable of dealing with metals such as iron, aluminum, lead, zinc, and

copper, and with precious metals involved in the digital and electronic technology industries such as gold, silver, platinum, and palladium, in addition to producing chemical compounds for these metals. We are proud that we will be one of the first companies in the world to create a technology capable of recycling and recovering metals in an environmentally friendly, non-polluting way that harnesses sunlight to produce high-purity metals. Our technology is characterized by an operational cost that is considered the lowest among all the polluting technologies currently used. This results in stability, an increase in profits, and a competitive price for the project's products.

Now, last but not least, recycling is the only and best way to preserve earthly minerals. Just as humans cannot continue to live without oxygen, similarly, humans cannot continue to thrive and live without minerals, which have become an integral part of our daily lives.

ABOUT US

" Recycling and processing of metal waste for material recovery " .

OVERVIEW

We work in the recycling sector and the preparation of ores whose value is valued mainly because they contain metallic minerals such as copper, lead, zinc, tin, manganese, chromium, nickel, and precious metals such as gold, silver, platinum. The company processes waste to recover metallic minerals

The idea began in 2017 to work on finding solutions to preserve natural resources, protect the environment from pollution and greenhouse gases, and reduce global warming, in order to be among the contributors to maintaining a clean, pollution-free and sustainable environment.

Based on this principle, we have established the GMR Company to embody this idea on the ground.

OUR ACTIVITIES

GMR is distinguished by the use of advanced technology for recycling in modern ways, as this technology reduces the emissions resulting from recycling operations.

GMR is developing hydrometallurgical methods for recovering minerals using renewable energies.

PRODUCTS AND SERVICES

GMR produces high purity metal ingots and processed plastic granules as raw materials to be sent to manufacturers.

GMR provides waste recycling services to local and international clients.

OUR GOALS

- We aim to be the leading company in the field of recycling using renewable energies
- Working on developing a new approach in the world of recycling and achieving sustainability, We seek to consolidate good relations based on the trust that we hope to have.
- We are ready to earn this trust, convinced that we will succeed above all through our excellent work and excellent results

FUTURE STRATEGIES

We are looking to invest in research to develop recycling systems and equipment.

Among the future aspirations is the establishment of several factories and manage it .

COMPANY VALUE

'The greatest reward for what we do is the joy of achieving goals, a sense of passion, harmony, and trustworthy partnerships. '

And no matter what life brings us, we want to make it something wonderful

We at **GMR** seek to maintain our aspirations, adhere to the principles of environmental preservation, Commitment to the highest quality standards, emphasize employee engagement, and maintain occupational health and safety.

' At GMR, we believe in the importance of investing in the recycling sectors for several reasons, the most important of which is preserving non-renewable natural resources and securing a sustainable future free of emissions and pollution.

Through development in the field of recycling using renewable energies, we guarantee a stable economic return and achieve the highest profits. '

We are committed to making our clients proud to invest with us in their well-being and success and creating a culture of belonging where all are welcome.

CEO.

Eng. SAFI NASSER

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